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- Divider panels .............................................................................................................. 921
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<table>
<thead>
<tr>
<th>Component Type</th>
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<tbody>
<tr>
<td>Mounting plates</td>
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<td>Rail systems</td>
<td>988</td>
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<tr>
<td>Component shelves for frame attachment</td>
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</tr>
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<td>Component shelves for attachment to the 482.6 mm (19&quot;) system punchings</td>
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</tr>
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<td>Installation kits for component shelves</td>
<td>1023</td>
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<tr>
<td>Accessories for component shelves</td>
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<td>System lights</td>
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<td>Earthing</td>
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### Cable management

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<tr>
<td>Gland plates</td>
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<tr>
<td>Cable gland</td>
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<tr>
<td>Cable gland</td>
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<tr>
<td>Cable routing</td>
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<tr>
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### 482.6 mm (19") installation

<table>
<thead>
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<td>Swing frames</td>
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<td>Slide rails</td>
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<td>Server integration</td>
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<tr>
<td>482.6 mm (19&quot;) metric installation</td>
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</tr>
<tr>
<td>Patch panels for copper technology</td>
<td>1106</td>
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<tr>
<td>Patch panels for fibre-optic technology</td>
<td>1109</td>
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<tr>
<td>Splicing boxes</td>
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<tr>
<td>LSA connection system</td>
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### Human/machine interface

<table>
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<tbody>
<tr>
<td>Handles, external mounting accessories</td>
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<tr>
<td>Connection components</td>
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<tr>
<td>Front assembly</td>
<td>1119</td>
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<td>General accessories</td>
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<tr>
<td>Two-handed operating console</td>
<td>1130</td>
</tr>
<tr>
<td>Monitors, keyboards</td>
<td>1133</td>
</tr>
<tr>
<td>Drawers for keyboards</td>
<td>1142</td>
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<tr>
<td>Mouse, mousepad</td>
<td>1145</td>
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<tr>
<td>Mobile workstations</td>
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<tr>
<td>Printer accessories</td>
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<td>Interface accessories</td>
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### Signal pillars

<table>
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<tr>
<td>Modular</td>
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### Rittal Software Service

<table>
<thead>
<tr>
<th>Component Type</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning/project management/selection</td>
<td>1152</td>
</tr>
</tbody>
</table>

891 Rittal Catalogue 32/System accessories
Base/plinth TS

Modular base/plinth diversity
Regardless of the enclosure depth:
The base/plinth components at the front and rear, pre-configured with corner pieces, are always the same for the chosen width.
Only the side trim panels are selected according to the enclosure depth and the required base/plinth configuration. The modular concept produces exceptional advantages in terms of cost and function.
Assembly on the enclosure is conveniently carried out from the outside. The base/plinth interior offers diverse opportunities for mounting levels for cable management.

<table>
<thead>
<tr>
<th>Base/plinth height</th>
<th>Basic form</th>
<th>Cable gland options</th>
<th>Stabilisation of bayed base/plinth</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mm</td>
<td><img src="100_mm.png" alt="Diagram" /></td>
<td><img src="cable_gland_100_mm.png" alt="Diagram" /></td>
<td><img src="stabilisation_100_mm.png" alt="Diagram" /></td>
</tr>
<tr>
<td>200 mm</td>
<td><img src="200_mm.png" alt="Diagram" /></td>
<td><img src="cable_gland_200_mm.png" alt="Diagram" /></td>
<td><img src="stabilisation_200_mm.png" alt="Diagram" /></td>
</tr>
</tbody>
</table>

Function and cost benefits
Fewer parts, more opportunities, lower purchasing, storage and assembly costs – the formula for the new modular base/plinth system.

The following table shows three bayed base/plinths in 200 mm height illustrating a wide range of possible solutions and the potential savings with trim panels compared with the previous 200 mm base/plinth system each with two trim panels of 100 mm height at the sides.

<table>
<thead>
<tr>
<th>Sample solutions</th>
<th>New supply includes</th>
<th>Functional benefits</th>
<th>Savings potential compared with twelve 100 mm trim panels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 packs of base/plinth components</td>
<td>Continuous cable chamber</td>
<td>2 trim panels 200 mm</td>
</tr>
<tr>
<td></td>
<td>1 pack of base/plinth trim panels 200 mm high</td>
<td>Additional stabilisation for transportation purposes with base/plinth trim rotated through 90°</td>
<td>2 trim panels 200 mm 2 trim panels 100 mm</td>
</tr>
<tr>
<td></td>
<td>3 packs of base/plinth components</td>
<td>Shielding of the base/plinths in relation to one another</td>
<td>4 trim panels 200 mm</td>
</tr>
<tr>
<td></td>
<td>1 pack of base/plinth trim panels 200 mm high</td>
<td>Additional connection of the base/plinths</td>
<td>2 trim panels 200 mm 2 trim panels 100 mm</td>
</tr>
<tr>
<td></td>
<td>1 pack of base/plinth trim panels 100 mm high</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 pack of base/plinth baying brackets TS 8601.100 (packs of 20) 4 are required for this solution</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other options:
- Cable entry at the side by mounting a 100 mm base/plinth trim panel (top or bottom).
- Cable entry from the rear by dismantling one or more trim panels of the base/plinth components.
- Cable clamp rail fitted on the 100 mm high trim panel.
Base/plinth components, front and rear
Sheet steel
For TS, CM, TP, PC-TS, IW, FR(i), TE
Base/plinth component consisting of one trim panel and two pre-configured corner pieces. In 200 mm high base/plinth components, one trim panel is divided into two for cable entry.

Material:
Sheet steel, spray-finished
Cover caps plastic RAL 9005/7035

Supply includes:
1 set =
3 base/plinth components, 4 cover caps,
4 screws and captive nuts M12 for mounting on the enclosure.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Design</th>
<th>Colour</th>
</tr>
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<tbody>
<tr>
<td>300</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>400</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>500</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>600</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>800</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>850</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>1000</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>1100</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>1200</td>
<td>Solid</td>
<td>–</td>
</tr>
<tr>
<td>1600</td>
<td>Solid</td>
<td>–</td>
</tr>
</tbody>
</table>

Accessories:
Base mounting plate SO 2817.000, see page 896.
Filter mat for trim panel, vented, see page 898.
Detailed drawing, see page 894.
German patent no. 198 60 408

Base/plinth trim, side
Sheet steel
For mounting between the base/plinth components. At 200 mm height, two 100 mm base/plinth trims may be used. Base/plinth trim (100 mm high) may be installed rotated through 90° in order to stabilise bayed base/plinth components.

Material:
Sheet steel, spray-finished

Supply includes:
1 set =
2 base/plinth trim panels, including parts for attaching to the base/plinth components.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Colour</th>
<th>Model No. TS</th>
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<tr>
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<tr>
<td></td>
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<td>RAL 7035</td>
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<tr>
<td>400</td>
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<td>100 mm high</td>
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<tr>
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<td>100 mm high</td>
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<td>200 mm high</td>
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<tr>
<td>600</td>
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<td>1200</td>
<td></td>
<td>100 mm high</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 mm high</td>
</tr>
</tbody>
</table>

1) Variant in RAL 9005: TS 8601.602
2) Variant in RAL 9005: TS 8601.802
3) Variant in RAL 9005: TS 8601.802
4) Variant in RAL 9005: DK 7825.805

Also required:
Base/plinth baying brackets TS 8601.100, see page 896, when mounting base/plinth trim panels rotated through 90°.

Accessories:
Assembly bolts for base/plinth, see page 896.
Detailed drawing, see page 894.
Base/plinth TS

Sheet steel

Description of the hole patterns
B1/T1 = External dimensions
B2/T2 = For screw-fastening in the thread of the enclosure corner piece from below
B3/T3 = For screw-fastening with captive nuts to the enclosure base from below or above
All holes (B2 – B4 / T2 – T4) may be used for screw-fastening to the base.

Base/plinth components front/rear

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>B1</th>
<th>B2</th>
<th>B3</th>
<th>B4</th>
<th>B5</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>300</td>
<td>235</td>
<td>175</td>
<td>115</td>
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<tr>
<td>400</td>
<td>400</td>
<td>335</td>
<td>275</td>
<td>215</td>
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<tr>
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<td>500</td>
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<td>375</td>
<td>315</td>
<td>470</td>
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</tr>
<tr>
<td>600</td>
<td>600</td>
<td>535</td>
<td>475</td>
<td>415</td>
<td>570</td>
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<tr>
<td>800</td>
<td>800</td>
<td>735</td>
<td>675</td>
<td>615</td>
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<td>785</td>
<td>725</td>
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<td>1475</td>
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Base/plinth trims, side

<table>
<thead>
<tr>
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<th>T3</th>
<th>T4</th>
<th>T5</th>
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<td>235</td>
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Enclosure width mm

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<th>1000</th>
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<td>998</td>
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<td>B2</td>
<td>392</td>
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<td>B3</td>
<td>275</td>
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<td>675</td>
<td>875</td>
</tr>
<tr>
<td>B4</td>
<td>335</td>
<td>535</td>
<td>735</td>
<td>935</td>
</tr>
<tr>
<td>B5</td>
<td>312</td>
<td>512</td>
<td>712</td>
<td>912</td>
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<td>B6</td>
<td>335</td>
<td>535</td>
<td>735</td>
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Enclosure depth mm

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<thead>
<tr>
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<th>600</th>
<th>800</th>
<th>–</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>503</td>
<td>603</td>
<td>803</td>
<td>–</td>
</tr>
<tr>
<td>T2</td>
<td>457</td>
<td>557</td>
<td>757</td>
<td>–</td>
</tr>
<tr>
<td>T3</td>
<td>435</td>
<td>535</td>
<td>735</td>
<td>–</td>
</tr>
<tr>
<td>T4</td>
<td>375</td>
<td>475</td>
<td>675</td>
<td>–</td>
</tr>
<tr>
<td>T5</td>
<td>344</td>
<td>444</td>
<td>644</td>
<td>–</td>
</tr>
</tbody>
</table>

Cable chamber

for TS see page 895

i.L. = Clearance width

Base/plinth TS
Cable chamber
for TS
The front and rear sheet steel trim panels are
simply plugged in at the bottom by means of a
guide, and are screw-fastened to the frame.
Cable chambers can be bayed at the sides if
required; they are bayed in the same way as base
frames.
Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
Assembly parts for mounting on the enclosure.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. TS</th>
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<td>8600.855</td>
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<td>800</td>
<td>600</td>
<td>8600.865</td>
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<td>1200</td>
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<td>8600.255</td>
</tr>
<tr>
<td>1200</td>
<td>600</td>
<td>8600.265</td>
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</tbody>
</table>

To order versions in RAL 7032, please add extension
.XX0 to the model no.
For primed version, please add extension .XX1 to the
model no.
Delivery times available on request.

Accessories:
Side panels for cable chamber,
see page 895.
Detailed drawing,
see page 894.

Side panels
for cable chamber
Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>2</td>
<td>8600.510</td>
</tr>
<tr>
<td>600</td>
<td>2</td>
<td>8600.520</td>
</tr>
</tbody>
</table>

To order versions in RAL 7032, please add extension
.XX0 to the model no.
For primed version, please add extension .XX1 to the
model no.
Delivery times available on request.

Transport castors
for base/plinth TS
For locating onto the base/plinth corner piece
100 or 200 mm high by raising or tilting.
Load capacity:
Maximum permissible load per twin castor:
static: 100 kg
Supply includes:
1 set =
4 twin castors,
2 x with, 2 x without locks.
Colour:
RAL 7022
Note:
Base/plinth trims, side, must be fitted in a free-
standing position.

<table>
<thead>
<tr>
<th>Floor clearance mm</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>8800.390</td>
</tr>
</tbody>
</table>

Also required:
Base/plinth trim, side,
see page 893.
Base

Base/plinth TS

**Base assembly plate**
for base/plinth TS and base/plinth, complete
For fastening the plinth to the floor without moving the enclosure or the bayed enclosure suite. For assembly screws up to 12 mm Ø.
**Material:**
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No.</th>
<th>SO</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2817.000</td>
<td></td>
</tr>
</tbody>
</table>

**Fastening bolts**
for
● Base/plinth TS
● Base/plinth, complete
● Base/plinth, stationary
For mounting on base/plinth trim panels, side. The lockable assembly bolt allows the installation of cable clamp rails and standard C rails.
**Material:**
Hexagon steel, zinc-plated, passivated, width across flats 19 mm

<table>
<thead>
<tr>
<th>Base/plinth trim panel mm high</th>
<th>Packs of</th>
<th>Model No.</th>
<th>SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>10</td>
<td>2819.000</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>10</td>
<td>2819.200</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories:**
Cable clamp rail, see page 1061.
C rail 30/15, see page 999.

**Base/plinth baying brackets**
for base/plinth TS
Essential if the trim panels are mounted rotated through 90° for additional stabilisation during the transportation of bayed enclosures. Additionally required for each trim panel: 2 units.
**Material:**
Sheet steel, zinc-plated, passivated
**Supply includes:**
Screws M8 x 16 mm.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No.</th>
<th>TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>8601.100</td>
<td></td>
</tr>
</tbody>
</table>

**Cover cap**
for base/plinth components TS
As a replacement.
**Material:**
Plastic ABS
**Colour:**
RAL 9005

<table>
<thead>
<tr>
<th>For base/plinth height mm</th>
<th>Packs of</th>
<th>Model No.</th>
<th>TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>4</td>
<td>8601.130</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>4</td>
<td>8601.140</td>
<td></td>
</tr>
</tbody>
</table>
**Base/plinth TS**

**Base/plinth trim**

**with brush strip for base/plinth TS**

The supplement to the modular base/plinth concept (see page 892). May also be exchanged retrospectively for the front or rear trim panel of the base/plinth components 100 or 200 mm high.

**Material:**
Sheet steel, spray-finished

**Version A:**
By rotating the trim panel, the hammer-head strip for cable attachment may optionally be positioned at the top or bottom, sealed all-round for a high level of stability.

**Version B:**
Open on one side for retrospective mounting if cables have already been inserted.

**Accessories:**
Cable tie SZ 2597.000, see page 1066.

<table>
<thead>
<tr>
<th>Version A</th>
<th>Version B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height mm</strong></td>
<td><strong>Model No. TS</strong></td>
</tr>
<tr>
<td>100</td>
<td>8601.610</td>
</tr>
<tr>
<td>100</td>
<td>8601.615</td>
</tr>
<tr>
<td>8601.810</td>
<td>8601.815</td>
</tr>
</tbody>
</table>

**Material:**
Sheet steel, spray-finished

**Colour:**
RAL 7022

**Connects to:**
- Bottom front door of PC enclosures based on TS,
- Door of the IW enclosure.

The base/plinth trim is screw-fastened to the corner pieces of the TS base/plinth components from the outside.

**Base/plinth trim**

**for base/plinth TS**

For covering gaps in the case of bayed back-to-back or corner enclosure suites. Simply push in between the trim panel and the corner piece before tightening the screws.

**Material:**
Sheet steel

<table>
<thead>
<tr>
<th>For base/plinth height mm</th>
<th>Colour RAL</th>
<th>Packs of</th>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>7022</td>
<td>2</td>
<td>8601.110</td>
</tr>
<tr>
<td>200</td>
<td>7022</td>
<td>2</td>
<td>8601.120</td>
</tr>
<tr>
<td>100</td>
<td>7035</td>
<td>2</td>
<td>8601.115</td>
</tr>
<tr>
<td>200</td>
<td>7035</td>
<td>2</td>
<td>8601.125</td>
</tr>
</tbody>
</table>

**Colour:**
RAL 7035

**Designer trim panels:**
- Extruded aluminium section
- RAL 7035

**Base/plinth trim**

**for base/plinth TS**

To continue the design of the bottom front door of PC enclosures based on TS, door of the IW enclosure.

The base/plinth trim is screw-fastened to the corner pieces of the TS base/plinth components from the outside.

**Material:**
Sheet steel, spray-finished

**Designer trim panels:**
- Extruded aluminium section
- RAL 7015

**Colour:**
RAL 7015

**Designer trim panels:**
- RAL 7035
**Base/plinth, stationary**

for PC-TS, IW

Design-coordinated with the enclosures, height 100 mm, with front projection.

**Material:**
Sheet steel, 2.0 mm

**Colour:**
RAL 7035
Design component, front: RAL 7015

**Supply includes:**
1 design component, front
1 base/plinth component, rear
2 base/plinth trim panels, side

---

**Filter mat**

for

- Base/plinth component, vented
- Base/plinth component, vented, with designer trim panel

To cover the trim panel in the base/plinth component. The mounting frame slides into position behind the filter mat in the base/plinth trim panel. Filter class G3 to DIN EN 779.

**Supply includes:**
Mounting frame.

---

**Spare filter mat**

Supply includes:
Filter mat without mounting frame for base/plinth trim panels up to 800 mm wide.

---

**For depth mm** | **Model No. PC**
---|---
600 | 8800.920

**Accessories:**

Attachment opportunities for:
- Twin castors PC 4634.500, see page 907,
- Levelling feet PS 4612.000, see page 906,
- Fastening bolts for cable clamp rails SO 2819.000, see page 896,
- Support bracket PS 4183.000, see page 1007.

---

**For enclosure width mm** | **Packs of** | **Model No. DK**
---|---|---
600 | 1 | 7561.500
800 | 1 | 7581.500

**Spare filter mats**

<table>
<thead>
<tr>
<th><strong>Packs of</strong></th>
<th><strong>Model No. DK</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Spare filter mats</td>
<td>5</td>
</tr>
</tbody>
</table>
Base/plinth components, front and rear

Stainless steel for TS, CM

Material:
Stainless steel 1.4301 (AISI 304)

Surface finish:
Brushed, grain 400

Supply includes:
Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.

100 mm high:
2 trim panels front/rear

200 mm high:
2 corner pieces with removable trim panel, 1 trim panel front/rear.

Base/plinth trim, side

Stainless steel for TS, CM

For mounting between the base/plinth components. At 200 mm height, two 100 mm base/plinth trims may be used.

Base/plinth trim (100 mm high) may be installed rotated through 90° in order to stabilise bayed base/plinth components.

Material:
Stainless steel 1.4301 (AISI 304)

Surface finish:
Brushed, grain 400

Supply includes:
2 base/plinth trim panels, including parts for attaching to the base/plinth components.

Also required:
Base/plinth baying brackets TS 8601.100, see page 896, when mounting base/plinth trim panels rotated through 90°.

Accessories:
Assembly bolts for base/plinth, see page 896.
Levelling feet PS 4612.000, see page 906.

Base/plinth trim, modular

for base/plinth TS and base/plinth, complete, stainless steel

For cable routing in the stainless steel base/plinth, e.g. if levelling feet SO 2890.000 or SO 2890.000, see page 903, are used. Width: 175 mm.

Material:
Stainless steel 1.4301 (AISI 304)

Supply includes:
4 base/plinth trim panels.

For enclosure width
<table>
<thead>
<tr>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mm high</td>
</tr>
<tr>
<td>600</td>
</tr>
<tr>
<td>800</td>
</tr>
<tr>
<td>1200</td>
</tr>
</tbody>
</table>

To order enclosures in stainless steel 1.4404 (AISI 316L) please add the extension .X05 to the model no. Delivery times available on request.

Also required:
Base/plinth baying brackets TS 8601.100, see page 896, when mounting base/plinth trim panels rotated through 90°.

Accessories:
Assembly bolts for base/plinth, see page 896.
Levelling feet PS 4612.000, see page 906.

1) If the surface is to be completely sealed.
Base/plinth TS

Transport plinth for TS
For the transportation of heavy, bayed enclosure suites. Available in 200 mm increments from 2 to 5 m. Transport plinths can have 2 tubes welded to receive cross-bars for transportation. Variable punchings to suit all enclosure widths of 600 mm and above.

Surface finish:
Primed in reddish-brown rust-inhibiting paint, optionally spray-finished.

Note:
Please state the required width and depth of the enclosure suite when ordering.

For mounting on the TS base frame
Transport plinth depth = enclosure depth – 31 mm

<table>
<thead>
<tr>
<th>Colour</th>
<th>Packs of</th>
<th>Model No. SO With transport tubes</th>
<th>Model No. SO Without transport tubes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primed, reddish-brown rust-inhibiting paint</td>
<td>1</td>
<td>1228.010</td>
<td>1228.000</td>
</tr>
<tr>
<td>Similar to RAL 7022</td>
<td>1</td>
<td>1228.110</td>
<td>1228.100</td>
</tr>
<tr>
<td>Similar to RAL 7032</td>
<td>1</td>
<td>1228.210</td>
<td>1228.200</td>
</tr>
<tr>
<td>Similar to RAL 7035</td>
<td>1</td>
<td>1228.310</td>
<td>1228.300</td>
</tr>
</tbody>
</table>

Delivery times available on request.

For mounting on the TS corner piece
Transport plinth depth = enclosure depth

<table>
<thead>
<tr>
<th>Colour</th>
<th>Packs of</th>
<th>Model No. SO With transport tubes</th>
<th>Model No. SO Without transport tubes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primed, reddish-brown rust-inhibiting paint</td>
<td>1</td>
<td>1228.015</td>
<td>1228.005</td>
</tr>
<tr>
<td>Similar to RAL 7022</td>
<td>1</td>
<td>1228.115</td>
<td>1228.105</td>
</tr>
<tr>
<td>Similar to RAL 7032</td>
<td>1</td>
<td>1228.215</td>
<td>1228.205</td>
</tr>
<tr>
<td>Similar to RAL 7035</td>
<td>1</td>
<td>1228.315</td>
<td>1228.305</td>
</tr>
</tbody>
</table>

Delivery times available on request.

Concrete base/plinth for Outdoor enclosures
The base/plinth is made from pre-cast concrete sections which are easily fitted in situ. Front/rear base/plinth plate screw-fastened from the inside may be removed for servicing purposes. Overall height: approx. 1000 mm, excavation depth: approx. 700 mm.

Material/Surface finish:
Light concrete, untreated

Supply includes:
1 base plate, 2 side parts, 2 divided base/plinth plates, including assembly parts and assembly screws for enclosure configuration.

Note:
Base/plinth trim panel screw-fastened from the outside available on request.

<table>
<thead>
<tr>
<th>For enclosures/housings</th>
<th>Model No. CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (B) mm</td>
<td>Depth (T) mm</td>
</tr>
<tr>
<td>600</td>
<td>400</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
</tr>
<tr>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>800</td>
<td>400</td>
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<td>800</td>
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<tr>
<td>800</td>
<td>600</td>
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<td>1200</td>
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<td>500</td>
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<tr>
<td>1200</td>
<td>600</td>
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<tr>
<td>Topec CR</td>
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</tr>
<tr>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>800</td>
<td>600</td>
</tr>
</tbody>
</table>

Delivery times available on request. Other sizes available on request.
Base/plinth, complete
Sheet steel
for AE, AP, ES, PC-ES
consisting of:
Trim panels at the front and rear with fitted corner pieces and side trim panels.
Material:
Sheet steel, spray-finished
Colour:
RAL 7022

Supply includes:
Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.

100 mm high:
4 corner pieces, 2 trim panels front/rear, 2 trim panels side.

200 mm high:
4 corner pieces, 1 trim panel front/rear x 200 mm, 2 trim panels front/rear x 100 mm, 4 trim panels side.

Base/plinth for ES-PC/AP universal console

<table>
<thead>
<tr>
<th>For enclosures/consoles</th>
<th>Base/plinth depth (T) mm</th>
<th>Model No. SO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 mm high</td>
<td>200 mm high</td>
</tr>
<tr>
<td>600</td>
<td>400</td>
<td>350</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
<td>450</td>
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<td>600</td>
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<tr>
<td>600</td>
<td>800</td>
<td>750</td>
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<tr>
<td>800</td>
<td>400</td>
<td>350</td>
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<td>800</td>
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<td>1000</td>
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<td>1600</td>
<td>400</td>
<td>350</td>
</tr>
<tr>
<td>1800</td>
<td>500</td>
<td>450</td>
</tr>
</tbody>
</table>

Base/plinth for AE, AP one-piece console

<table>
<thead>
<tr>
<th>For enclosures/consoles</th>
<th>Base/plinth depth (T) mm</th>
<th>Model No. SO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 mm high</td>
<td>200 mm high</td>
</tr>
<tr>
<td>600</td>
<td>300</td>
<td>279</td>
</tr>
<tr>
<td>600</td>
<td>400</td>
<td>370</td>
</tr>
<tr>
<td>800</td>
<td>400</td>
<td>370</td>
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<tr>
<td>800</td>
<td>300</td>
<td>279</td>
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<tr>
<td>1000</td>
<td>300</td>
<td>279</td>
</tr>
<tr>
<td>1000</td>
<td>400</td>
<td>370</td>
</tr>
<tr>
<td>1200</td>
<td>400</td>
<td>370</td>
</tr>
</tbody>
</table>

Accessories:
Assembly bolts for base/plinth,
see page 896.
Base mounting plate,
see page 896.

Plinth, 100 mm high

Plinth, 200 mm high
Base/plinth, complete

Stainless steel
for ES, PC-ES, AP one-piece console

Material:
Stainless steel 1.4301 (AISI 304)

Surface finish:
Brushed

Supply includes:
Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.

100 mm high:
2 trim panels front/rear,
2 trim panels side.

200 mm high:
2 corner pieces with removable trim panel,
1 trim panel front/rear, 4 trim panels side.

Accessories:
Levelling feet,
see page 903.
Base/plinth trim, modular (perforated plate),
see page 899.

<table>
<thead>
<tr>
<th>For enclosures/consoles</th>
<th>Model No. SO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Depth mm</td>
</tr>
<tr>
<td>600</td>
<td>400</td>
</tr>
<tr>
<td>600</td>
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<td>1200</td>
<td>400</td>
</tr>
<tr>
<td>1200</td>
<td>500</td>
</tr>
</tbody>
</table>

To order enclosures in stainless steel 1.4404 (AISI 316L) please add the extension .500 to the model no.
Delivery times available on request.

Plinth, 100 mm high

Plinth, 200 mm high

Transport castors

for base/plinth, complete
For locating onto the base/plinth corner piece 100 or 200 mm high by raising or tilting.

Load capacity:
Maximum permissible static load:
100 kg per twin castor

Supply includes:
1 set = 4 twin castors,
2 x with, 2 x without locks.

Colour:
RAL 7022

<table>
<thead>
<tr>
<th>Floor clearance mm</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>4570.000</td>
</tr>
</tbody>
</table>
### Cross-member

**for TS, CM, TP, PC, IW, ES, AP adjustable**

To increase stability, the cross-member is positioned 138 mm above the base frame of the enclosure at the front and rear. For deeper enclosures, the rear part may be extended and screw-fastened again. For screw-fastening to the floor and enclosure with mounting hole at the sides, front and rear. The castors and levelling feet may be secured to the welded nuts M12.

**Material:**
Sheet steel, spray-finished

**Colour:**
RAL 7015

**Note:**
For mobile use, the cross-member must be screw-fastened twice in the corners of the enclosure.

<table>
<thead>
<tr>
<th>For</th>
<th>Enclosure depth mm</th>
<th>L1</th>
<th>L2</th>
<th>Packs of</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS, CM, TP, PC, IW, ES, AP Universal console</td>
<td>400</td>
<td>644</td>
<td>275</td>
<td>2</td>
<td>8601.450</td>
</tr>
<tr>
<td></td>
<td>500</td>
<td>744</td>
<td>375</td>
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<td></td>
<td>600</td>
<td>844</td>
<td>475</td>
<td>2</td>
<td>8601.680</td>
</tr>
<tr>
<td>AP one-piece console</td>
<td>400</td>
<td>634</td>
<td>320</td>
<td>2</td>
<td>2697.450</td>
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<tr>
<td></td>
<td>500</td>
<td>734</td>
<td>390</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Accessories:**

- Mounting options for
  - Twin castors PC 4634.500, see page 907.
  - Levelling feet PS 4612.000, see page 906.

### Cast feet

**For IW**

For secure siting of
- Enclosure for tower PC or
- Other own assemblies

Depth 700 mm.

**Material:**
Cast aluminium

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>6902.920</td>
</tr>
</tbody>
</table>

**Accessories:**

Base mount CP 6147.000, see page 291.
Twin castors, see page 907.

### Levelling feet

For direct mounting underneath the base/plinth TS and the base/plinth, complete.

For unhindered access e.g. when cleaning the floor, and to compensate for floor irregularities.

**Load capacity:**

Maximum permissible static load: 400 kg per levelling foot

Adjustment range:
- M12: 55 mm – 125 mm
- M16: 45 mm – 120 mm

**Material:**
Stainless steel 1.4301 (AISI 304)

**Possible alternative:**

Levelling feet Hygienic Design, see page 301.
Base

Base/plinth

Base/plinth

**for EL**
The base/plinth can be fitted onto all EL enclosures with a centre part depth of 316 or 416 mm. Holes must be made for attaching to the centre part. A drilling template is supplied. These may additionally be fitted with castors for use as a mobile base/plinth.

**Material:**  
Sheet steel

**Colour:**  
RAL 7044

**Supply includes:**
4 levelling feet and assembly parts.

<table>
<thead>
<tr>
<th>For centre part depth mm</th>
<th>Packs of</th>
<th>Height mm</th>
<th>Model No. DK/VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>316</td>
<td>1</td>
<td>50</td>
<td>7505.300(1)</td>
</tr>
<tr>
<td>416</td>
<td>1</td>
<td>50</td>
<td>7505.400(1)</td>
</tr>
</tbody>
</table>

(1) Delivery times available on request.

**Additional castors for base/plinth**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Height mm</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>50</td>
<td>3805.500</td>
</tr>
</tbody>
</table>

Base/plinth, vented

**for TE 7000**
For easier cable routing between bayed enclosure systems or as additional storage space beneath the enclosure, this vented complete base/plinth is easily screwed underneath. The trim panels may be removed on all sides to allow cable routing in all directions.

**Base/plinth height:**
100 mm

**Material:**  
Sheet steel, spray-finished

**Colour:**  
RAL 7035/9005

**Supply includes:**
1 base/plinth, vented, assembly parts.

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Colour RAL</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Depth mm</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
<td>9005</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
<td>9005</td>
</tr>
<tr>
<td>600</td>
<td>600</td>
<td>7035</td>
</tr>
<tr>
<td>600</td>
<td>800</td>
<td>7035</td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
<td>7035</td>
</tr>
<tr>
<td>800</td>
<td>600</td>
<td>7035</td>
</tr>
<tr>
<td>800</td>
<td>800</td>
<td>7035</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
<td>7035</td>
</tr>
</tbody>
</table>

**Accessories:**
Filter mat for base/plinth, vented, 600 mm wide DK 7561.500 and 800 mm wide DK 7581.500, see page 898.

Base/plinth trim, solid

**for base/plinth, vented**
To be used in exchange for the existing trim panel. If a solid design is required for the base/plinth for TE, the vented front and rear trim panels should be exchanged for solid trim panels.

**Material:**  
Sheet steel, spray-finished

**Colour:**  
RAL 7035

**Supply includes:**
2 base/plinth trim panels, assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Colour RAL</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>7035</td>
<td>7000.696</td>
</tr>
<tr>
<td>800</td>
<td>7035</td>
<td>7000.698</td>
</tr>
</tbody>
</table>
**Under-floor frame**

for DK-TS, FR(i)

For siting the enclosure on a false floor when heavy equipment is installed.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Baying connector and base mounting bracket.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>400</td>
<td>1000</td>
<td>7855.340</td>
</tr>
<tr>
<td>800</td>
<td>400</td>
<td>1000</td>
<td>7855.342</td>
</tr>
</tbody>
</table>

Note:
Other sizes available on request.

**Stabiliser bracket**

for base/plinth TS

The stabiliser bracket may be retrospectively screw-fastened to the outside of the base/plinth corner pieces.

**Load capacity:**
Up to a maximum of 80 kg static load.

**Material:**
Sheet steel, spray-finished

**Colour:**
RAL 7035, warning markings RAL 2002

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7825.150</td>
</tr>
</tbody>
</table>

**Stabiliser**

for server racks DK-TS, FR(i)

The pull-out stabiliser is quickly and easily retrofitted to the lower frame of the server racks and only extended when necessary. May be used in combination with levelling feet and/or transport kit for DK-TS (DK 7825.900), see page 908.

**Load capacity:**
Up to a maximum of 150 kg static load.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

**Enclosure depth mm**

<table>
<thead>
<tr>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>900</td>
</tr>
<tr>
<td>1000</td>
</tr>
<tr>
<td>1200</td>
</tr>
</tbody>
</table>

Note:
The stabiliser cannot be used together with base plates, base frames or base/plinths. Combined use with the divided base frame (DK 7825.341 – DK 7825.345), see page 910, is supported.
Levelling feet
18 – 43 mm high
To compensate for height differences with floor irregularities. Thread length 40 mm.
Assembly thread M12.
Maximum permissible static load: approx. 300 kg per levelling foot.
For:
● Baying system TS 8
● PC enclosure system
● Pedestal base plate CP 6137.035 – CP 6137.535
● Pedestal CP 6141.XXX
● Industrial workstations
● flexRack(i)

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4612.000</td>
</tr>
</tbody>
</table>

Also required:
For mounting on the TS base/plinth: Base/plinth adaptor TS 8800.220, see page 908.

Levelling feet
18 – 63 mm high, with hex socket for baying system TS 8, FR(i)
To compensate for floor irregularities. Particularly in confined spaces, adjustments can be made quickly and easily from the enclosure interior.
Mounting thread: M12
Hex socket: 6 mm
Thread length: 60 mm
Maximum permissible static load: 300 kg/levelling foot.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>7493.100</td>
</tr>
</tbody>
</table>

Also required:
For mounting on the TS base/plinth: Base/plinth adaptor TS 8800.220, see page 908.

Levelling feet
with vibration dampening
For vibration insulation of enclosures and to compensate for floor irregularities. The levelling foot is comprised of a disc of reinforced polyamide and an M12 screw, zinc-plated, with ball joint pendulum plus anti-slip and insulating plate for buffering. The insulating plate is resistant to water, mineral oils, petrol, alkaline and acid solutions, salts, soap lye and detergents. Also suitable for special applications such as chemical and laboratory environments.
Thread length: 50 mm
Maximum permissible static load: 150/300 kg per levelling foot.

<table>
<thead>
<tr>
<th>Maximum permissible static load per levelling foot</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 kg</td>
<td>4</td>
<td>7493.210</td>
</tr>
<tr>
<td>300 kg</td>
<td>4</td>
<td>7493.230</td>
</tr>
</tbody>
</table>

Levelling feet
for Data Rack
To compensate for height differences in the event of floor unevenness. The levelling feet are attached into the die-cast zinc feet of the base/plinth.
Supply includes:
4 levelling feet M12, levelling range 40 mm.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>7493.000</td>
</tr>
</tbody>
</table>
### Levelling feet

**for FlatBox, TE**  
M10 x 20 mm

For fastening onto the enclosure base when used as a floor-standing or desktop enclosure. Width across flats 17, mounting thread multi-tooth 30.

**Levelling feet 85 – 115 mm high**

For mounting on TS, ES and PC enclosures, for easier floor cleaning and to compensate for floor irregularities ±15 mm. Height 100 mm.  
Maximum permissible static load: 350 kg per levelling foot.

**Material:**  
Feet: Nickel-plated brass  
Threaded bolts and mounting plates: Stainless steel 1.4301 (AISI 304)

**Supply includes:**  
Assembly parts to the enclosure.

**Twin castors**

Mounting thread M12 x 20.

<table>
<thead>
<tr>
<th>Maximum permissible static load (per castor) kg</th>
<th>Floor clearance mm</th>
<th>Lock</th>
<th>Packs of Colour</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>50</td>
<td>4 without</td>
<td>1 set Black</td>
<td>4611.000</td>
</tr>
<tr>
<td>75</td>
<td>85</td>
<td>2 with, 2 without</td>
<td>1 set Black with grey running surface</td>
<td>6148.000</td>
</tr>
<tr>
<td>120</td>
<td>125</td>
<td>2 with, 2 without</td>
<td>1 set Black</td>
<td>4634.500</td>
</tr>
</tbody>
</table>

1) With metal enclosure

**For:**  
- Baying system TS 8  
- PC enclosure system  
- Pedestal base plate CP 6137.035 – CP 6137.535  
- Pedestal CP 6141.XXX  
- TopConsole pedestals  
- Industrial workstations  
- flexRack(i)  
- Data Rack

**Also required:**  
For mounting on the TS base/plinth: Base/plinth adaptor for twin castors TS 8800.290, see page 908.

**Packs of**  
Model No. DK  
4 7507.740

**Packs of**  
Model No. SO  
4 2859.000

Possible alternative:  
Levelling feet Hygienic Design, see page 301.
**Transport castors**

*for TE*

For easy transportation between sites. The castors may be screw-fastened in the corner areas within the base frame in place of the levelling feet. Ground clearance: 58 mm, mounting thread M10 x 20

**Permissible static load:**

300 kg per enclosure

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7000.672</td>
</tr>
</tbody>
</table>

**Supply includes:**

1 set = 4 baying clamps, including assembly parts.

---

**Transport kit**

*for DK-TS*

For convenient transportation of the configured network enclosures to their final installation site, or as a mobile rack. Ground clearance approx. 40 mm.

**Permissible static load:**

750 kg per enclosure

**Supply includes:**

1 set = 4 castors (2 steerable) including assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7825.900</td>
</tr>
</tbody>
</table>

**Note:**

Only for enclosures without gland plates or gland plate frames.

For 800 mm wide enclosures with 19" mounting frame, special installation dimensions must be observed (see drawing).

---

**Base/plinth adaptor**

*for levelling feet*

Connection component for fastening M12 levelling feet PS 4612.000 to the TS base/plinth.

**Material:**

Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8800.220</td>
</tr>
</tbody>
</table>

⚠️ **Also required:**

Levelling feet PS 4612.000, see page 906.

---

**Base/plinth adaptor**

*for twin castors*

Connection component for mounting twin castors to the TS base/plinth.

**Material:**

Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8800.290</td>
</tr>
</tbody>
</table>

⚠️ **Also required:**

Base/plinth trim panels, side, see page 893, wherever a twin castor is fitted.
Base

**Width divider**
Divides 1200 mm wide TS enclosures into two halves.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
1 set =
1 bracket for right/left,
2 compensating plates for the top,
mounting accessories.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>8800.200</td>
</tr>
</tbody>
</table>

❗ **Also required:**
Depending on the installation situation:
TS punched rail 18 x 38 mm, see page 996.
PS punched section without mounting flange 23 x 73 mm, see page 998.

---

**1st mounting situation:**
Two mounting plates side by side.
Two mounting plates (from 600 mm wide enclosures) in a 1200 mm wide enclosure permit independent positioning and easy handling.

❗ **Also required:**
In accordance with the enclosure depth:
4 TS punched rails 18 x 38 mm, bottom, see page 996,
1 PS punched section 23 x 73 mm, top, see page 998.

---

**2nd mounting situation:**
System support rails, fitted on the left.
Whilst heavy installed equipment rests on the system support rails, the remaining floor space is free, e.g. for unhindered cable entry.

❗ **Also required:**
2 system support rails PS 4361.000, see page 1000.
1 TS punched rail 18 x 38 mm in accordance with the enclosure depth (included with the supply of the standard enclosure).

---

**3rd mounting situation:**
Cable clamp rail, installed on the left.
With 1200 mm wide enclosures, the width divider allows cable entry and cable clamping to be arranged differently on the left and right of the enclosure.

❗ **Also required:**
1 cable clamp rail PS 4191.000, see page 1061.
1 TS punched rail 18 x 38 mm in accordance with the enclosure depth (included with the supply of the standard enclosure).

---

**Base mounting bracket**
for TS, ES, AR universal console, FR(i)
For anchoring the enclosure at any position of the base frame, particularly in cases where the existing holes in the frame or base tray cannot be used due to the installed equipment or because the substructure prevents them from being used.

**Material:**
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8800.210</td>
</tr>
</tbody>
</table>

**Note:**
Additional holes in the base are required for mounting.
**Reinforcement bracket**

For TS, ES, AP universal console

For use as an additional stabiliser to the clamping straps when populated enclosures are screw-fastened via the base tray to the base/plinth or pallet for transportation purposes.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8800.830</td>
</tr>
</tbody>
</table>

---

**Base frame, divided**

for server racks DK-TS, FR(i)

For retro-fitting a base frame. Particularly for the use of gland plates or base modules within TS server enclosures, it is necessary to fit this base frame first in order to accommodate the base elements. The divided design also allows it to be retro-fitted. Suitable for combining with the pull-out stabiliser.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Packs of 1 set
Frame elements, assembly parts.

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Depth mm</td>
</tr>
<tr>
<td>600</td>
<td>900</td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
</tr>
<tr>
<td>600</td>
<td>1200</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
</tr>
<tr>
<td>800</td>
<td>1200</td>
</tr>
</tbody>
</table>

**Note:**
Transport kit:
For optional use of the transport kit DK 7825.900 (see page 908) the front and rear frame elements may be temporarily removed and then re-fitted to the transport.

Stabiliser:
see page 905.

**Accessories:**
Multi-piece gland plate, see page 913.
**Gland plate**

For CM, TP

Select suitable gland plates depending on the application. The following examples illustrate how individually cable entry may be structured. Potential equalisation is provided via assembly components and earthing points.

**Material:**
Sheet steel, zinc-plated, passivated

**Protection category:**
IP 55 to EN 60 529/09.2000, subject to correct mounting.

**Supply includes:**
1 piece, including assembly parts.

**Note:**
For greater stability and universal cable entry, the base opening is divided in the width for 1000 and 1600 mm wide enclosures, and is suitable for various configurations.

### Combination options:

**One-piece/ cable gland**

**Depth 300 mm**

**Depth 400 mm**

**Depth 500 mm**

**Key:**

1. Gland plate, depth 50 mm
2. Gland plate, depth 100 mm
3. Gland plate, depth 150 mm
4. Gland plate, depth 250 mm
5. Section for cable entry, centre, see page 1046.
6. Cable entry plates, depth 100 mm, see page 1045. Cable entry grommets, see page 1046.
7. EMC base plate, see page 1032.
8. Cable glands, see page 1054.
9. Section for cable entry, rear, see page 1047.

**Order example:**

CM 5120.500 (W/H/D 1000 x 1200 x 400 mm)
- On left, gland plates divided into two with cable clamp strip
- On right, one-piece gland plate

**You will need:**

5. 2 sections for cable entry, centre, TS 8802.100, see page 1046. (packs of 2 sets)
6. 1 gland plate, depth 50 mm, 5001.212
7. 1 gland plate, depth 150 mm, 5001.220
8. 1 gland plate, depth 250 mm, 5001.224
**Gland plate with sealing bar**

_for TS, CM, TP_

Can be installed in:
- TS in depth and width
- CM, TP in width

Reduces the base opening by 200 mm.

For example, a gland plate with sealing bar for large supply cables can be mounted at the side in the enclosure depth with the usual partition in the width (200 mm smaller than the enclosure width) adjacent to it, above the standard gland plates.

**Material:**
Sheet steel

**Surface finish:**
Zinc-plated, passivated

**Protection category:**
IP 55 to EN 60 529/09.2000

**Supply includes:**
Assembly parts and seals.

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>For module plates, divided</th>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>2</td>
<td>1</td>
<td>5001.230</td>
</tr>
<tr>
<td>600</td>
<td>2</td>
<td>1</td>
<td>5001.231</td>
</tr>
<tr>
<td>800</td>
<td>3</td>
<td>1</td>
<td>5001.232</td>
</tr>
</tbody>
</table>

**Accessories:**

CM gland plate, see page 911.
Section for cable entry, rear, see page 1047.
Section for cable entry, centre, see page 1046.
EMC gland plate, see page 1032.
Cable glands, see page 1054.

**Also required:**

Module plates, see page 923.
Module plates, divided, see page 924.

---

**Clips**

_for gland plates_

As replacement and for additional gland plate attachments in TS, CM, TP.

**Material:**
Sheet steel

**Surface finish:**
Zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>8800.075</td>
</tr>
</tbody>
</table>
Trim panel
for CM
To conceal the entire base opening.

Note:
May be used as a cover in enclosures that are rotated through 180° (available on request).

Material:
Sheet steel

Colour:
Textured RAL 7035

Protection category:
IP 55 to EN 60 529/09.2000

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>W mm</th>
<th>D mm</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>300</td>
<td>5001.100</td>
</tr>
<tr>
<td>800</td>
<td>300</td>
<td>5001.110</td>
</tr>
<tr>
<td>1000</td>
<td>400</td>
<td>5001.120</td>
</tr>
<tr>
<td>600</td>
<td></td>
<td>5001.130</td>
</tr>
<tr>
<td>800</td>
<td></td>
<td>5001.140</td>
</tr>
<tr>
<td>1000</td>
<td></td>
<td>5001.150</td>
</tr>
<tr>
<td>1200</td>
<td></td>
<td>5001.160</td>
</tr>
</tbody>
</table>

Gland plate, multi-piece
for DK-TS, FR(i)
For optional sealing of the base area. Any combination of gland plates is supported. Gland plates including mounting clamps; the additional installation of PE conductors is not required.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Packs of 1 set Gland plates including sliding plate for cable entry, including sealing tape and assembly parts.

Note:
For the size variant 800 x 800 mm, the gland plate included with the supply of pre-configured network enclosures should be additionally used.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>900</td>
<td>7825.363</td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
<td>7825.364</td>
</tr>
<tr>
<td>600</td>
<td>1200</td>
<td>7825.365</td>
</tr>
<tr>
<td>800</td>
<td>800</td>
<td>7825.382</td>
</tr>
<tr>
<td>800</td>
<td>900</td>
<td>7825.383</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
<td>7825.384</td>
</tr>
<tr>
<td>800</td>
<td>1200</td>
<td>7825.385</td>
</tr>
</tbody>
</table>

Also required:
For integration of the gland plates, there must be a base frame inside the enclosure. Base frame, divided, for retro-fitting, see page 910.

Accessories:
All gland plates with a depth of 237.5 mm may be exchanged for gland plate modules on request. Base plate modules, see page 914. Base plate modules, vented with airflow regulator, see page 915. Base module for cable entry, see page 915. Section for cable entry, see page 1046, 1047.

Gland plates
for CS Basic enclosures
For sealing the base opening and for cable entry.

Material:
Aluminium, 2 mm.

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Packs of</th>
<th>Model No. CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>400</td>
<td>1 set</td>
<td>9785.017</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
<td>1 set</td>
<td>9785.020</td>
</tr>
<tr>
<td>800</td>
<td>400</td>
<td>1 set</td>
<td>9785.018</td>
</tr>
<tr>
<td>800</td>
<td>500</td>
<td>1 set</td>
<td>9785.012</td>
</tr>
<tr>
<td>1200</td>
<td>400</td>
<td>1 set</td>
<td>2 x 9785.017</td>
</tr>
<tr>
<td>1200</td>
<td>500</td>
<td>1 set</td>
<td>2 x 9785.020</td>
</tr>
</tbody>
</table>
One-piece gland plate
vented, for DK-TS, FR(i)
The slotted gland plate has a cut-out in the rear
for cable entry, which is concealed with brush
strips.
**Material:**
Sheet steel, zinc-plated, passivated
**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>600</td>
<td>7825.660</td>
</tr>
<tr>
<td>600</td>
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<tr>
<td>600</td>
<td>900</td>
<td>7825.690</td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
<td>7825.610</td>
</tr>
<tr>
<td>800</td>
<td>600</td>
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</tr>
<tr>
<td>800</td>
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</tr>
<tr>
<td>800</td>
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<td>7825.890</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
<td>7825.810</td>
</tr>
<tr>
<td>600</td>
<td>1200</td>
<td>7825.612</td>
</tr>
<tr>
<td>800</td>
<td>1200</td>
<td>7825.812</td>
</tr>
</tbody>
</table>

**+ Accessories:**
Filter mat for gland plate,
see page 914.

Filter mat
for one-piece gland plate
To conceal the slotted area inside the one-piece
vented gland plates for TS, FR(i). The filter mat is
easily cut to the required cut-out and conven-
iently slides into position from the front via the
guide rails of the gland plate.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7825.620</td>
</tr>
</tbody>
</table>

**Material:**
PPI 35-5/polyamide

Gland plate modules
for DK-TS
For use in the base frame of the network enclo-
sure. Used in exchange for an existing gland
plate of the same depth or in conjunction with a
multi-piece gland plate for pre-configured TS 8
enclosures, see page 913.

**Gland plate depth:**
237.5 mm

**Design for cable entry:**
With brush strip

**Vented design:**
With filter mat for concealing the holes and nylon
tape for securing from the inside or outside.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Model No. DK</th>
</tr>
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<tbody>
<tr>
<td>600</td>
<td>7825.361</td>
</tr>
<tr>
<td></td>
<td>7825.360</td>
</tr>
<tr>
<td>800</td>
<td>7825.381</td>
</tr>
<tr>
<td></td>
<td>7825.380</td>
</tr>
</tbody>
</table>

**Material:**
Sheet steel, zinc-plated, passivated

Spare filter mat
for gland plate modules, vented
To be used in exchange for the existing filter mat.

**Material:**
PPI 35-15

**Supply includes:**
2 filter mats, including assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7825.350</td>
</tr>
</tbody>
</table>
**Gland plate modules, vented with airflow regulator**

*For DK-TS, FR(i)*

Allows controlled air routing from the twin base to the installed components. Individually adjustable membranes facilitate control of the air inlet opening between 10 % and 80 % free space. If the rear area of the enclosure is partitioned by base/gland plates, the required volumetric airflow may be individually regulated, and distribution of the airflow inside the twin base adapted to suit the requirements of each enclosure.

The gland plate module may be combined with all gland plates as required. Gland plate module including contacting assembly screws; the additional installation of PE conductors is not required.

**Material:**
Sheet steel

**Supply includes:**
Packs of 1
Gland plate module, vented, filter mat, including assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Model No. DK</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>800</td>
<td>7825.386</td>
</tr>
</tbody>
</table>

**Also required:**
For integration of the gland plates, there must be a base frame inside the enclosure.
Base frame, divided, for retro-fitting, see page 910.

**Accessories:**
Spare filter mat, see page 915.

---

**Spare filter mat**

*for gland plate modules, vented, with airflow regulator*

To be used in exchange for the existing filter mat. Easily exchanged thanks to front operation via guides.

**Material:**
PPI 35-5/polyamide

**Supply includes:**
1 filter mat including mounting accessories.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
</tbody>
</table>

---

**Base module for cable entry**

*Super-airtight for DK-TS, FR(i)*

The two-part base module has a special cable entry with alternate offset brush strips which guarantee an excellent seal even with large cable quantities. This minimises the possible ingress of inappropriate air or the unintentional escape of extinguisher gas or coolant.

The two-part design allows the module plate to be removed at any time, even when cables have already been inserted, to provide access to the level beneath the rack. Base module with contacting mounting clamps; the additional installation of PE conductors is not required.

**Material:**
Module plate: Sheet steel, zinc-plated, passivated
Brush strip: Plastic, UL 94-V0

**Supply includes:**
Brush strip and assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
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<tr>
<td>800</td>
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<td>7825.387</td>
</tr>
</tbody>
</table>
Module plates
for TE
The base area of the TE may be varied as required using the module plates.

Material:
Sheet steel

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Design</th>
<th>Width (B) mm</th>
<th>Depth (T) mm</th>
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</tr>
</thead>
<tbody>
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<tr>
<td></td>
<td>650</td>
<td>750</td>
<td>7526.820</td>
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<tr>
<td>With brush strip</td>
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<td>200</td>
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<td></td>
<td>650</td>
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<td>650</td>
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<td>7526.795</td>
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Enclosure dimensions mm

<table>
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<td>1000</td>
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</table>

Base cut-out dimensions mm

<table>
<thead>
<tr>
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<th>450</th>
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<td>550</td>
<td>750</td>
<td>950</td>
<td>550</td>
<td>750</td>
<td>950</td>
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</table>

Pressure relief stopper
Especially when enclosures are exposed to changing climatic conditions (e.g. with outdoor siting), condensation may form in sealed enclosures due to pressure differences. The integral sealing membrane largely prevents such pressure differences and hence condensation; additionally, it also prevents the ingress of moisture from the outside.

Installed in vertical surfaces to protect against dirt.

Condensate discharge
For reliable discharge from the inside and protection against splashes from the outside (labyrinth effect).
A hole diameter of 16 mm is required.
(With AE sheet steel, the holes are already provided in the base).

Material:
Polyamide

Colour:
Similar to RAL 7035

Protection category:
IP 55 to EN 60 529/09.2000, subject to correct mounting at the bottom.

Technical specifications:
- Air permeability up to 120 litres/hour with a pressure difference of 70 mbar
- Protection category IP 66, 68, 69K
- Connection thread M12 x 1.5
- For fitting in wall thicknesses up to 4 mm

Material:
Polyamide

Colour:
Similar to RAL 9005 (black)

Supply includes:
Lock nut

Condensate discharge

Technical specifications:
- Air permeability up to 120 litres/hour with a pressure difference of 70 mbar
- Protection category IP 66, 68, 69K
- Connection thread M12 x 1.5
- For fitting in wall thicknesses up to 4 mm

Material:
Polyamide

Colour:
Similar to RAL 7035

Protection category:
IP 55 to EN 60 529/09.2000, subject to correct mounting at the bottom.

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</table>

Condensate discharge

Technical specifications:
- Air permeability up to 120 litres/hour with a pressure difference of 70 mbar
- Protection category IP 66, 68, 69K
- Connection thread M12 x 1.5
- For fitting in wall thicknesses up to 4 mm

Material:
Polyamide

Colour:
Similar to RAL 7035

Protection category:
IP 55 to EN 60 529/09.2000, subject to correct mounting at the bottom.

<table>
<thead>
<tr>
<th>Packs of</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
Side panels

The TS side panel provides new dimensions in convenient access to the TS interior, thanks to the option of hinging.

Important:
Red areas (side panels), hinged and unhinged, must always be opposite one another. Blue areas (doors/rear panels) must always be opposite one another.

Only one surface on each vertical enclosure section may be hinged.

Note:
Climate control side panels with integral cooling module may be retrofitted instead of an enclosure side panel, see page 635.

Side panels, screw-fastened, sheet steel

for TS

Easy positioning on the frame with the location aid. Six or eight enclosure panel fasteners with earthing insert ensure automatic potential equalisation and higher EMC protection. Earthing bolts with contact surface are integrated.

Material:
Sheet steel 1.5 mm

Surface finish:
Dipcoat-primed, powder-coated in textured RAL 7035 on the outside.

Protection category:
IP 55 to EN 60 529/09.2000

Supply includes:
Assembly parts.

For enclosures

<table>
<thead>
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<th>Depth mm</th>
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<td>800</td>
<td>2</td>
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<tr>
<td>2200</td>
<td>900</td>
<td>2</td>
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</tbody>
</table>

For RAL 7032 version, use order extension .200; to order primed version, use extension .300. Delivery times available on request.

Detailed drawing,
see side panels for modular front design, page 942.

+ Accessories:
Earth straps, see page 1034. Enclosure panel fasteners, internal, see page 918, for heavy installed equipment and high dynamic pressures.

German patent no. 198 01 720

For enclosures

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Depth mm</th>
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</tr>
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<tbody>
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<tr>
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<tr>
<td>2000</td>
<td>600</td>
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</tbody>
</table>

To order enclosures in stainless steel 1.4404 (AISI 316L), use model no. 8705.XXX. Delivery times available on request.

Detailed drawing,
see side panels for modular front design, page 942.

+ Accessories:
Enclosure panel fasteners, internal, see page 918, for heavy installed equipment and high dynamic pressures.
Side panels

Side panels, asymmetrical for TS
The alternative to the standard side panel for improved visual appearance in the event of back-to-back, back-to-side or corner baying. The gap (A) which occurs with standard side panels is reduced to a standard dimension (B), see technical drawing. In the case of the TS 8 corner enclosure, an asymmetrical side panel is included in the supply.

The number of additional asymmetrical side panels required depends on the chosen baying variant.

Material:
Sheet steel, 1.5 mm

Colour:
RAL 7035

Protection category:
IP 55 to EN 60 529/09.2000

Supply includes:
Assembly parts.

Asymmetrical side panel
Side panel
Rear panel
Door

Corner baying
Back-to-back baying
Side-to-back baying

Enclosure panel fasteners, internal for TS
for additional fixing of the side or rear panel with heavy installed equipment and high dynamic pressures.

Hinges
For TS side panel, screw-fastened, sheet steel TS side panel, asymmetrical
The 180° opening angle allows unhindered access. May be installed optionally from the inside or outside of the enclosure: Simply replace 3 enclosure panel fasteners with hinges. Despite the hinge, the protection category of the enclosure is retained.

Material:
Die-cast zinc

Supply includes:
Assembly screws.

For enclosures
<table>
<thead>
<tr>
<th>Height mm</th>
<th>Depth mm</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
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Model No. TS
8184.500
8185.500
8186.500
8104.500
8105.500
8106.500
8108.500
8126.500

For RAL 7032 version, use order extension .400; to order primed version, use extension .450. Delivery times available on request.

Accessories:
Enclosure panel holder, internal, see page 918, for heavy installed equipment and high dynamic pressures.

Design
Design
Packs of
Model No. TS
RAL 7035
RAL 7032
6
6
8800.110
8800.010

German patent no. 298 20 604
US patent no. 6,239,027

Note:
Side panel and door hinges may only be installed on the same enclosure section when using a 180° door hinge (see page 961).

Materials
<table>
<thead>
<tr>
<th>Material</th>
<th>Thickness</th>
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<tr>
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Protection categories
<table>
<thead>
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Assembly parts
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Order extensions
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Delivery times
Available on request.

Note on doors
For TS side panel, screw-fastened, sheet steel TS side panel, asymmetrical
The 180° opening angle allows unhindered access. May be installed optionally from the inside or outside of the enclosure: Simply replace 3 enclosure panel fasteners with hinges. Despite the hinge, the protection category of the enclosure is retained.

Material:
Die-cast zinc

Supply includes:
Assembly screws.

For RAL 7032 version, use order extension .400; to order primed version, use extension .450. Delivery times available on request.

Accessories:
Enclosure panel holder, internal, see page 918, for heavy installed equipment and high dynamic pressures.

Walls

Side panels
Side panel, plug-type
for TS
- Side panel, lockable with 2 options:
  - With lock
  - Internal latch
- Plug-&-play compatibility system – Insert side panel into the base, press upwards and rotate the two toggle locks – there is no faster way of finishing off an entire enclosure suite at the side.

Material:
Sheet steel, powder-coated

Colour:
RAL 7035/RAL 9005

Protection category:
IP 20/NEMA 1

Supply includes:
2 side panels with toggle locks.

Note:
These side panels must be notched centrally in conjunction with punched sections with mounting flange for the external level.

---

Lock
for side panel, plug-type
With security lock insert no. 3524 E, in exchange for the existing toggle locks.

Supply includes:
4 locks, 2 keys.

---

Internal latch
for side panel, plug-type
Additional security is achieved via the option of latching the side panel from the inside. The side panels on the frame section are screw-fastened from the inside with latching brackets.

Supply includes:
Assembly parts.

---

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Accessories:
TS punched section with mounting flange, 17 x 73 mm, notched, see page 994.
Internal latch DK 7824.510, see page 919.

<table>
<thead>
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1) Delivery times available on request.
Walls

Side panels

Cable management panel
for DK-TS
The ideal, universal routing aid for network enclosures where large quantities of cables and lines are managed. Cut-outs for the attachment of cable shunting rings and nylon loop fasteners. Cable ties are available from the accessories range. With bayed enclosures, the panel may also be used as a partition with cable management facilities.
By attaching to the inner level, cables may be secured inside and out, and may also be used when a single panel is fitted. The panel is secured to the inner mounting level of TS 8 enclosures using the assembly parts supplied. The cable management panel may be screwed to the outer mounting level on punched sections with mounting flanges.
Material: Sheet steel, powder-coated
Colour: RAL 7035
Supply includes: Assembly parts.

Side panel, plug-type
for FR(i)
The lockable side panel is simply plugged in at the side and secured via two security locks. The integral beading gives the side panels a special touch. Additional security is achieved via the option of latching the side panel from the inside. The side panels may be screw-fastened to the frame section from the inside using locking brackets FR 7856.700.
Material: Sheet steel, powder-coated
Colour: RAL 7035
Protection category: IP 20
Supply includes: Security lock 3524 E.

Side panels
for TE
To finish of individual racks or entire bayed suites of racks at the sides. The side panels are simply located and secured with the integral padlock. The super-lightweight design means that it is easily handled by one person.
Material: Sheet steel, powder-coated
Colour: RAL 7035
Protection category: IP 20
Supply includes: Security lock 3524 E.

For enclosures
<table>
<thead>
<tr>
<th>Width/depth mm</th>
<th>Height mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>2000</td>
<td>7824.560</td>
</tr>
<tr>
<td>800</td>
<td>2000</td>
<td>7824.580</td>
</tr>
<tr>
<td>900</td>
<td>2000</td>
<td>7824.590(1)</td>
</tr>
</tbody>
</table>

(1) Delivery times available on request.

Note:
Other sizes available on request.
German patent no. 100 07 470

Accessories:
Nylon loop fasteners, see page 1066.
Cable route, see page 1070.
Cable ties, see page 1066.

For enclosures
<table>
<thead>
<tr>
<th>Height mm</th>
<th>Depth mm</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
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<tr>
<td>2200</td>
<td>800</td>
<td>2</td>
</tr>
</tbody>
</table>

(1) Delivery times available on request.

Internal latch DK 7856.700, see page 919.
**Divider panels**

**Divider panel for TS**
For shielding individual enclosure cells. Thanks to the symmetry of the frame system, the divider panel can also be used at the rear. All-round, double fold for stability and to hold the seal. Notches in the corners and half-way up the sides permit the use of angular baying brackets and baying brackets, even with a divider panel fitted. For mounting on the outer mounting level. This leaves the inner level free for further population.

**Material:**
Sheet steel, 1.5 mm, zinc-plated

**Protection category:**
IP 54 to EN 60 529/09.2000

**Supply includes:**
Assembly parts.

**Accessories:**
Cover with door, see page 925.
Baying attachment, vertical TS 8800.470 for enclosure with fitted divider panel, see page 931.

**Note:**
The divider panel may also be fitted to the rear. This allows, e.g. frequency converters for heat dissipation to be installed in a divider panel with the cooling units facing outwards and protected/finished off with a cover (see page 925).

---

**Partition for TS**
For rack mounting, suspended between two TS 8 enclosures. With three Ø 40 mm holes in all 4 corner areas for the insertion of cable sections, conduits etc. Drilled holes may be sealed with the enclosed stepped collars. For cable entry, simply cut off at a suitable level to match the required cross-section.

**Material:**
Partition: Sheet steel, zinc-plated, passivated, Stepped collar: Plastic to UL 94-HB

**Supply includes:**
12 stepped collars Ø 40 mm.

---

### For enclosures

<table>
<thead>
<tr>
<th>Model No. TS</th>
<th>Height mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>8609.450</td>
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<td>500</td>
</tr>
<tr>
<td>8609.650</td>
<td>1600</td>
<td>500</td>
</tr>
<tr>
<td>8609.840</td>
<td>1800</td>
<td>400</td>
</tr>
<tr>
<td>8609.850</td>
<td>1800</td>
<td>500</td>
</tr>
<tr>
<td>8609.860</td>
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<td>600</td>
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<tr>
<td>8609.040</td>
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### For enclosures

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</thead>
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<tr>
<td>7831.726</td>
<td>2200</td>
<td>1200</td>
</tr>
</tbody>
</table>

**Note:**
Use baying connector TS 8800.490. Not for use in conjunction with a baying seal. Any existing seals must be removed prior to installation.

**Accessories:**
Baying clamp TS 8800.490, see page 929.
**The divider panel and module plate system**

More options:
The cut-outs of a divider panel are individually equipped with module plates for 16-pole or 24-pole connectors, with module plates for cable entry and with solid module plates.

**Faster assembly:**
Usually only part of the total number of connector cut-outs are used. Thanks to the new divider panel technique the cut-outs do not need to be covered individually. The solid module plate is used instead.
The benefits: Less plates, less screws, less assembly work.

---

**Divider panel for module panels TS**

With cut-outs for the installation of module plates for connectors or for cable entry, and also for the entry of busbar systems and other installed equipment. All-round, double fold for stability and to hold the seal. Thanks to the symmetry of the enclosure frame, divider panels may also be fitted at the rear, dimensions permitting. For mounting on the outer mounting level. This leaves the inner level free for further population.

**Material:**
Sheet steel, 2 mm, zinc-plated

**Supply includes:**
Assembly parts and multi-tooth screws M5 x 12 mm for mounting the module plates.

**Note:**
Notches in the corners and half-way up the sides permit the use of angular baying brackets and baying brackets, even with a divider panel fitted.

**Accessories:**
Module plates, see page 923 – 924.
Cover with door, see page 925.
Baying attachment TS 8800.470 for enclosure with fitted divider panel, see page 931.

---

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Depth mm</th>
<th>Number of cut-outs</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800</td>
<td>500</td>
<td>9</td>
<td>8609.100</td>
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<tr>
<td>1800</td>
<td>600</td>
<td>9</td>
<td>8609.110</td>
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<tr>
<td>2000</td>
<td>500</td>
<td>10</td>
<td>8609.120</td>
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<tr>
<td>2000</td>
<td>600</td>
<td>10</td>
<td>8609.130</td>
</tr>
</tbody>
</table>

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**Paint**

For touching up and repairing powder-coated and wet-painted surfaces, air-drying.

<table>
<thead>
<tr>
<th>Colour RAL</th>
<th>Touch-up pen 12 ml</th>
<th>Spray can 150 ml</th>
<th>Spray can 1000 ml</th>
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<tbody>
<tr>
<td>7022</td>
<td>–</td>
<td>2581.000</td>
<td>–</td>
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<tr>
<td>9005</td>
<td>2436.905</td>
<td>2440.905</td>
<td>–</td>
</tr>
</tbody>
</table>
**Module plates**

- **Material:** Sheet steel, 2 mm, zinc-plated
- **Supply includes:** Seal

### Module plates Design

<table>
<thead>
<tr>
<th>Design</th>
<th>Cut-outs</th>
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<tr>
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<td>1</td>
<td>8609.160</td>
</tr>
<tr>
<td>For 16-pole</td>
<td>4</td>
<td>1</td>
<td>8609.150</td>
</tr>
<tr>
<td>connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For 24-pole</td>
<td>4</td>
<td>1</td>
<td>8609.140</td>
</tr>
<tr>
<td>connectors</td>
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<tr>
<td>For cable entry</td>
<td>1</td>
<td>1</td>
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</tr>
<tr>
<td>grommets</td>
<td>4</td>
<td>1</td>
<td>8609.190</td>
</tr>
</tbody>
</table>

**solid**

For sealing unused cut-outs. Easily machined for individual cut-outs.

**for 16/24-pole connectors**

With cut-outs to accommodate connectors. In addition to mounting on divider panels, module plates may also be attached to the 25 mm pitch pattern of the enclosure and to the rails of the TS/PS system.

**for cable entry**

For the entry of pre-assembled cables. Sealed, routing is achieved via adjustable angle brackets with inserted foam cable clamp strip. Attachment bracket, punched, for cable clamping.

**for cable entry grommets**

For mounting on the divider panel for module panels TS. Slide the grommets into the cut-outs, slide the clamp plate with seal down over them, and screw-fasten.

**Accessories:**

- Adaptor, cover plate, see page 925.
- Connector gland for connector cut-outs, see page 1057.

**Accessories:**

- Cable tie for fast assembly SZ 2597.000, see page 1066.

**Also required:**

- Cable entry grommets, see page 1046 or connector grommets, see page 1046.
Module plates, divided
Now available in "half" versions for even more flexibility as the different versions can be combined with any of the others.

May optionally be installed in:
- TS divider panel for module plates, see page 922.
- Gland plate with sealing bar, see page 912.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts and seals.

Solid
For sealing unused cut-outs. Easily machined for individual cut-outs.

For 16/24-pole connectors
With cut-outs to accommodate connectors. In addition to mounting on divider panels, module plates may also be attached to the 25 mm pitch pattern of the enclosure and to the rails of the TS/PS system.

With cable grommet/sealed
For 10 – 65 mm cable diameters. The flexible grommet adapts to the cable’s bending radius. The sealed half can be exchanged for other versions (see above).

Accessories:
- Adaptor, cover plate, see page 925.
- Connector gland for connector cut-outs, see page 1057.
**Module plates**

**Adaptor**
for connector cut-outs
For using connectors with varying numbers of poles.
**Material:**
Sheet steel, zinc-plated, passivated
**Supply includes:**
Seal for adaptor and assembly parts.

**Cover plate**
for connector cut-outs
For unused cut-outs.
**Material:**
Sheet steel, zinc-plated, passivated
**Supply includes:**
Seal and assembly parts.

**Partition**
for DK-TS
For side partitioning of bayed TS server enclosures.
Up to 8 cable glands to the adjacent rack are possible, covered with blanking plates.
**Material:**
Sheet steel, zinc-plated, passivated

**Cover with door**
for TS
To protect and finish off connectors or other installed equipment. 200 mm wide cover, with opening at the top or bottom for cable entry including a cover plate for unused openings.
**Material:**
Sheet steel
Cover: 1.5 mm
Door: 2.0 mm
**Colour:**
7035 textured
**Supply includes:**
Cover, door with locking rod and double-bit lock insert, 1 cover plate for the top or bottom.
**Note:**
May also be fitted at the rear to extend the enclosure depth. To cover the resultant gap, we recommend asymmetrical side panels (see page 918). In this way, for example, frequency converters to dissipate heat may be installed in a divider panel (see page 921) with the heat sinks facing outwards and protected/concealed with a cover.

<table>
<thead>
<tr>
<th>For reduction</th>
<th>Packs of</th>
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</thead>
<tbody>
<tr>
<td>From 24 to 16 poles</td>
<td>5</td>
<td>2479.000</td>
</tr>
<tr>
<td>From 24 to 10 poles</td>
<td>5</td>
<td>2480.000</td>
</tr>
<tr>
<td>From 24 to 6 poles</td>
<td>5</td>
<td>2481.000</td>
</tr>
<tr>
<td>From 16 to 10 poles</td>
<td>5</td>
<td>2401.000</td>
</tr>
<tr>
<td>From 16 to 6 poles</td>
<td>5</td>
<td>2402.000</td>
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</table>

<table>
<thead>
<tr>
<th>For</th>
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<tbody>
<tr>
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<tr>
<td>16-pole cut-outs</td>
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</table>

For enclosures
Height mm | Depth mm | Model No. DK |
---|---|---|
2200 | 900 | 7831.715 |

For TS
Model No. TS
| Height mm | Depth mm | 8699.020 |
| 2000 | 500 |
| 2000 | 600 |

For primed version, please add extension .XX1 to the model no.
Delivery times available on request.

**Accessories:**
Lock inserts, version F see page 956.
Comfort handle, see page 947.
180° hinge, see page 961.
Baying system
for TS 8

Versatile door and side panel concept

Door with lock  Rear panel  Side panel  Hinged side panel  Side panel, asymmetrical  Climate control door  Climate control side panel

Adjacent door

Important:
- Red areas (side panels, hinged and unhinged) must always be opposite one another.
- Blue areas (doors/rear panels) must always be opposite one another.

The versatile door and side panel concept also applies to the following baying variants:

. . . infinite possibilities

TS 8 standard enclosure  TS 8 standard enclosure with modular climate control concept  TS 8 corner enclosure
Baying system

Baying at the installation site

Bayable on all sides
Whether around corners, forwards, backwards, to the left or right or even upwards if required, the baying possibilities are unlimited.

For baying at the installation site or for provisional siting in the workshop

1. Quick-fit baying clamps, one-piece
2. Quick-fit baying clamps, three-piece
3. Baying clamp, horizontal
4. Baying clamp, vertical for TS/TS
5. Baying clamp, vertical for TS/PS
6. Baying connector, external

Notes on the transport of bayed enclosures, see page 929.
Baying system

Baying at the installation site

**Quick-fit baying clamps, one-piece**

for TS/TS and FR(i)/FR(i)

Simply attach the screws, insert the quick-fit baying clamp, tap in with a hammer and lock.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>8800.500</td>
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</tbody>
</table>

**Note:**
Only for mounting on vertical enclosure sections of FR(i).

---

**Quick-fit baying clamps, three-piece**

for TS/TS

Simply locate, connect with the lock plate, and secure.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
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</tr>
</thead>
<tbody>
<tr>
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</table>

---

**Baying clamp, horizontal**

for TS/TS, TS/PS and FR(i)/FR(i)

For mounting on the horizontal enclosure sections.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
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<th>Packs of</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>8800.400</td>
</tr>
</tbody>
</table>

German patent no. 197 35 251
French patent no. 98 104 58
Jap. patent no. 2 965 975

---

**Baying clamp, vertical**

for TS/TS

For mounting on the vertical enclosure sections.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
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<th>Model No. TS</th>
</tr>
</thead>
<tbody>
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</table>

German patent no. 197 35 251
French patent no. 98 104 58
Jap. patent no. 2 965 975
Baying system

Baying at the installation site

### Baying clamp, vertical for TS/PS
For mounting on the vertical enclosure sections.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
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</tr>
</thead>
<tbody>
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</table>

German patent no. 198 01 185
US patent no. 6,435,759
European patent no. 104 8098
with validity for FR, GB, IT

### Baying connectors, external for TS/TS
For mounting on the vertical enclosure sections.

Simply position on the outside and screw-fasten either from the inside or outside.

**Material:**
Sheet steel, zinc-plated, passivated or stainless steel 1.4301 (AISI 304)

**Supply includes:**
Assembly parts.

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<tr>
<td>Stainless</td>
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<td>8700.000</td>
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</table>

German patent no. 197 37 668

### Note on the transport of bayed enclosures

Individual enclosures may be safely transported using the eyebolts included with the supply.
For symmetrical loads, the following maximum permissible loads apply:
- for 45° cable pull angle 4,800 N,
- for 60° cable pull angle 6,400 N,
- for 90° cable pull angle 13,600 N.

For the enclosure combination with angular baying brackets, quick-fit baying clamps and combination angles shown here, the load capacity with a cable pull angle of 60° is as follows:
- for the left-hand enclosure 7,000 N,
- for the central enclosure 14,000 N,
- for the right-hand enclosure 7,000 N.

The cable pull angle between the roof plate and the cable has a significant influence on the total permissible load.
The cable pull angle must not be less than 45°, and where possible, should be less than 60°.

**Note:**
The eyebolts must be aligned in the direction of the cable pull.
For larger baying combinations, we recommend the use of a transport base/plinth, see page 900.
Baying for transport

When transporting bayed enclosures

- Baying bracket for TS/TS
- Baying bracket for TS/TS and TS/PS

Note:
- In addition, the outer baying connector (see page 929), can be used.
- When transporting large, heavy enclosure combinations by crane, we additionally recommend the use of combination angles TS 4540.000, see page 931.

Also required:
For protection category IP 55: One connector/clamp is required half-way up the enclosure height, see page 928. Baying clamp, see page 928 – 929.

Notes on the transport of bayed enclosures, see page 929.

Angular baying brackets
for TS/TS
The robust connection when transporting bayed enclosure suites.

Screw-fastening may be optionally
- Horizontally and vertically with 8 screws
- Horizontally with 2 screws and M8 threaded blocks, vertically with 4 screws.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

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</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8800.430</td>
</tr>
</tbody>
</table>

Baying brackets
for TS/TS and TS/PS
For additional stabilisation, or in cases where:
- Mounting plate brackets
- Swing frames
- Busbar supports prevent the installation of angular baying brackets.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4582.500</td>
</tr>
</tbody>
</table>

Accessories:
For mounting on the vertical TS enclosure section: Snap-on nut M8, TS 8800.808, see page 1005.
Angular baying brackets
The alternative to baying bracket TS 4582.500 and for individual interior installations.

Material: Sheet steel, zinc-plated, passivated

Supply includes:
Screws M8 x 16 mm.

<table>
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<tr>
<th>Packs of</th>
<th>Model No. PS</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

Also required:
For mounting on:
Horizontal TS enclosure section cage nuts/threaded blocks M8, see page 1010, vertical TS enclosure section snap-on nuts M8, TS 8800.808, see page 1005.

Combination angle
For optimum distribution of tensile forces during transportation of bayed enclosures by crane.

Material: Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4540.000</td>
</tr>
</tbody>
</table>

Accessories:
Top baying cover, see page 932.

Notes on the transport of bayed enclosures, see page 929.

Baying attachment, vertical
for TS/TS with divider panel
Only suitable for mounting in conjunction with the angle brackets of the divider panel (included with the supply).

Material: Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Note: May also be used for side or wall attachment/fastening of enclosures. In such cases, additional holes must be drilled in the side or rear panel.

Baying attachment, vertical
for TS/TS
For baying two populated enclosures on the vertical enclosure section.
Simply locate into the vertical TS punchings, secure and connect both brackets by using the hex screws (supplied loose). Using the fastening bolts, the enclosure is pulled into a defined end position, with a height or side offset of up to ± 2 mm.

Material: Sheet steel 3 mm, zinc-plated, passivated.

Supply includes:
Assembly parts.

<table>
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</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Baying clamp, horizontal
for back-to-back mounting
Two-piece, for on-site assembly of enclosures with mounting plate in the rearmost installation position.

Material: Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8800.170</td>
</tr>
</tbody>
</table>

German patent no. 10 157 979
Baying cover, top
A cover with two end caps may additionally be clipped over the seal between the two enclosures. This prevents dirt and liquid from collecting on the baying seal.

Material:
Cover section: Sheet steel, spray-finished or stainless steel 1.4301 (AISI 304)
End caps: Plastic

Note:
May also be fitted in the width with enclosure suites bayed back-to-back.
May also be used in conjunction with dust guard trim, see page 970.

Baying connectors, external
for DK-TS/DK-TS with side panels
For retrospective baying of enclosures with screw-fastened or plug-type side panels.

Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
Assembly parts.

Compensating panel
for TS
The panel is screw-fastened to the outside of the enclosure frame and serves as an infill panel when baying 2000 mm high enclosures of varying depths. No seal between the enclosures.

Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
Assembly parts.

Baying kit
for FR(i)/FR(i)
For mounting on the vertical enclosure sections.

Material:
Sheet steel, zinc-plated, passivated
Supply includes:
Assembly parts.

Baying kit
for TE/TE
For connecting individual enclosures into bayed suites at the sides. The enclosures are connected between the base and roof frame.

Material:
Sheet steel, zinc-plated, passivated
Supply includes:
Assembly parts.

<table>
<thead>
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<th>For enclosure depth mm</th>
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<td>8800.480</td>
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<tr>
<td>900</td>
<td>1</td>
<td>–</td>
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<tr>
<td>1000</td>
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</table>

¹Delivery times available on request.

German patent no. 197 37 667
US patent no. 6,312,068
European patent no. 10 12 935
with validity for FR, IT

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<tbody>
<tr>
<td>4</td>
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</table>

Note:
Plug-type side panels only in conjunction with lock DK 7824.500, see page 919.

<table>
<thead>
<tr>
<th>Depth difference mm</th>
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¹Delivery times available on request.

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<tr>
<td>4</td>
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</table>
**Baying system**

**TS 8 corner enclosures**

The corner enclosure and the supplied components will accommodate the various baying options of the TS 8 frame on all outer surfaces.

Fitted with a rear panel and an asymmetrical side panel (see page 918, mounted on the l/h side), the corner enclosure also permits the option of baying in both the width and depth.

The gland plates are aligned parallel to the rear panel. In TS 8 enclosures with a square footprint, the gland plates may also be rotated through 90°. The baying system is identical to all other TS 8 enclosures.

**Material:**
Sheet steel, 1.5 mm

**Surface finish:**
Dipcoat primed, powder-coated in textured RAL 7035 on the outside
Gland plates: Zinc-plated

**Supply includes:**
Enclosure frame with roof, rear panel (on the longest side), asymmetrical side panel, gland plates (divided lengthwise).

---

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Model No.</th>
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<td>600</td>
<td>8806.300</td>
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</table>

Delivery times available on request.

---

**Accessories:**
TS base/plinth, see page 892.
Base/plinth infill panel, see page 897.

---

**Baying examples**

**TS 8 corner enclosures**

**Correct**

**Incorrect**

**Caution!**

B = Width
T = Depth
Glazed door
for TS
Instead of a sheet steel door or rear panel.
Design:
Frame:
Extruded aluminium section, die-cast zinc corner pieces, powder-coated in RAL 7035
Single-pane safety glass, 3 mm thick, printed mask on the inside
RAL 7015
Locking-rod with double-bit insert
180° hinges (4)
Visible area:
W – 140 mm, H – 160 mm.
Protection category:
IP 55 to EN 60 529/09.2000
German registered design no. M 98 03 844
IR reg. design no. DM/045 440 with validity for BE, FR, NL, HU, LU
UK reg. design no. 2 076 673
South Korean reg. design no. 46 300
Japanese reg. design no. 1 056 165
US design patent no. 418 608

Also required:
When mounting instead of the rear panel:
Lock components for frame TS 8800.040, see page 934.

Accessories:
Lock inserts, version F, see page 956.
Comfort handle, see page 947.

Handle adaptor
The handle adaptor compensates for the design chamfer in the door profile to enable installation of the comfort handle.
Material:
Plastic
Supply includes:
1 adaptor plate, 1 extension for drive, 2 assembly screws.

Lock components
for frame TS
For retrofitting a glazed door or sheet steel door in place of a rear panel.
Material:
Die-cast zinc
Supply includes:
Assembly screws.
### Door variants

#### Designer glass door, 180°

**For DK-TS**
- Facilitates monitoring of on-going processes.
- Door opening angle when bayed 180° - optimised design of escape routes.
- Rear all-round cable duct integrated inside the frame section.
- Concealed cable routing to the installed electronic equipment.
- Form-fit hinges integrated into the frame section.
- A high standard of security thanks to:
  - Four-point locking
  - Lock handle for semi-cylinder
  - Optional electronic lock and sensor systems

**Material:**
- Aluminium frame section, 3 mm single-pane safety glass

**Colour:**
- RAL 7035

**Supply includes:**
- Lock system with security lock insert no. 3524 E and assembly parts.

#### Cover section

**For cable duct, designer glazed door, 180°**

For optional sealing of the cable duct within the designer glazed door, 180°. The pack is comprised of various pieces which together are sufficient to seal the cable duct of a door with the dimensions H x W 2200 x 800. Other sizes can be achieved by cutting to length. Connection is toolless by simply clipping into the strip.

**Material:**
- Plastic, RAL 7035

**Supply includes:**
- 6 pieces of 1000 mm, for cutting to length and combining.

#### Mounting adaptor

**For designer glazed door, 180°**

For the attachment of:
- Comfort handle,
- Comfort handle with coded lock or
- Electromagnetic comfort handle

A mounting adaptor is required on the designer glazed door. This mounting adaptor allows installation of the comfort handle series by simply snapping into position instead of the existing handle system.

**Material:**
- Die-cast zinc

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<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Height mm</td>
</tr>
<tr>
<td>600</td>
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<tr>
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</tbody>
</table>

Accessories:
- Cover section for cable duct DK 7824.850, see page 935.
- Semi-cylinder, see page 957.
Door/locks

Door variants

Sheet steel door
for DK-TS
To replace existing doors. With 180° hinges
and swivel handle with security lock no. 3524 E,
in exchange for comfort handle.

Material:
Sheet steel
Colour:
RAL 7035
Protection category:
IP 55 to EN 60 529/09.2000
Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
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<td>2200</td>
</tr>
<tr>
<td>800</td>
<td>2200</td>
</tr>
</tbody>
</table>

Accessories:
Comfort handle, see page 947.
180° hinge for bayed TS enclosure suites with comfort handle, see page 962.

Sheet steel door, vented
for DK-TS
With 180° hinges and swivel handle with security
lock no. 3524 E, in exchange for comfort handle.
For optimum air throughput in network enclosures
with a high proportion of active components.
Slotted surface (SWG-6.7 hexagon) with air inlet
openings >78%.

Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Height mm</td>
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</tr>
<tr>
<td>800</td>
<td>2200</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Accessories:
Comfort handle, see page 947.
180° hinge for bayed TS enclosure suites with comfort handle, see page 962.

Glazed door, vented
for DK-TS
With 180° hinges and comfort handle with security
lock no. 3524 E. For optimum air throughput in
network enclosures with a low proportion of active
components.

Material:
Sheet steel, spray-finished
Viewing window of 3 mm single-pane safety glass,
side slotted surfaces (SWG-6.7 hexagon) for air
inlet.
Colour:
RAL 7035
Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Height mm</td>
</tr>
<tr>
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</tr>
<tr>
<td>600</td>
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<td>2200</td>
</tr>
<tr>
<td>800</td>
<td>2200</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Accessories:
180° hinge for bayed TS enclosure suites with comfort handle, see page 962.
Adaptor door
for DK-TS
With 180° hinges and comfort handle with security lock no. 3524 E. To extend the enclosure depth by 100 mm. This creates the necessary free space at the rear for retro-fitting deep-build active components or space for system-compatible cabling at the front. Retro-fitting with deeper components is therefore easily achieved whilst in operation. The adaptor door is vented across the surface. Slotted surface (Ø 5 mm), air inlet opening >60%.
Simple cable routing via brush strips top and bottom.
Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
Assembly parts.

Sheet steel door, vertically divided
for DK-TS
With 130° hinges and locking rod including comfort handle for semi-cylinder with security lock no. 3524 E. Thanks to the minimal rotation radius of the individual doors, the distance between individual bayed enclosure suites may be reduced. The extensive door perforations additionally support climate control of the installed equipment. Slotted surface with air inlet opening >78%.
Material:
Sheet steel
Protection category:
IP 55 to EN 60 529/09.2000 (unvented)
IP 20 to EN 60 529/09.2000 (vented)
Colour:
RAL 7035
Supply includes:
Assembly parts.

All-glass door, vertically divided
for DK-TS
With 180° hinges and locking rod including comfort handle with security lock no. 3524 E. Thanks to the minimal rotation radius of the individual doors, the distance between individual bayed enclosure suites may be reduced. When baying, an external 180° hinge is required.
Material:
5 mm single-pane safety glass, frame of aluminium frame elements.
Colour:
Frame elements, RAL 7035
Viewing windows tinted, parsol grey.
Supply includes:
Assembly parts.
Door/locks

Door variants

Lockable and adjacent door
for TS
For example, if two 400 mm doors instead of one 800 mm wide door are used to comply with escape routes.

Material:
Sheet steel
Surface finish:
Dipcoat-primed, powder-coated on the outside.
Supply includes:
2 doors including hinges and lock parts.

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Colour RAL</th>
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</tr>
<tr>
<td>800</td>
<td>2000</td>
</tr>
</tbody>
</table>

Note:
Enclosure without door (TS 8806.512), see page 149.

Accessories:
Lock system, see page 947.

Protective bar
for TS
As an alternative to a door, e.g. in sealed switch rooms. Prevents people from falling into the open enclosure frame. Easily removable for maintenance purposes.

For 1200 mm enclosure width; may be shortened or divided for other sizes.

Material:
Wood, spray-finished, RAL 3000

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<tr>
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<th>Length mm</th>
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<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Clearance between the enclosure frame (B3) mm</th>
<th>Length protective bar (L) mm</th>
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<tr>
<td>1200</td>
<td>1112</td>
<td>1090</td>
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</table>

(1) The protective bar TS 8801.010 (1090 mm) will need to be shortened.

Holder
for protective bars
For location into the vertical TS section. The protective bar is simply inserted.

Material:
Sheet steel, zinc-plated, passivated
Supply includes:
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
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</thead>
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<tr>
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Variable modular climate control concept
Instead of an enclosure door in a 600 mm/800 mm/1200 mm wide and 1800 mm/2000 mm high TS enclosure, section doors with integral cooling module may be retrofitted without major assembly work.

Possible alternative:
Modular climate control concept see page 634.
### Trim frame

**for TS**

To conceal the TS 8 front frame in enclosures without a door. Can be combined with large swing frame.

Possible application areas include, for example:
- Studio technology
- Electronic configuration

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

---

### Profile blanking frame

**for TS**

On request, all enclosures in the TS 8 series (see page 138) may be manufactured with a fitted profile blanking frame (design to match the TS glazed door) instead of door(s). For optimum access to installed equipment, trim frame hinged on the right, held by a mechanical snap fastener on the left.

**Material:**
Extruded aluminium section, with die-cast zinc corner pieces, powder-coated

**Colour:**
RAL 7035

**Order example:**
Baying system TS 8, WHD: 800 x 2000 x 600 mm
- Standard TS 8806.500
- with profile blanking frame TS 8806.550

---

### Interior door

**with mounting frame**

for compact enclosure AE IP 69K

For the installation of control and display components. Mounting frame, depth-adjustable for a distance between the outer surface and the inside of the outer door of 35 to 85 mm (80 mm with AE 1101.010/.110).

**Material:**
Sheet steel, 1.5 mm

**Colour:**
RAL 7035

**Supply includes:**
Mounting frame, door with cam lock and screwdriver insert, including assembly parts.
Modular front design for TS 8

**Modular front design**
for TS 8606.512,
WHD 600 x 2000 x 600 mm,
for TS 8806.512,
WHD 800 x 2000 x 600 mm
(see page 149)
and all other 600 and 800 mm wide TS 8 enclosures instead of a door or rear panel, insofar as the modular front is positioned in a suite between two enclosures with normal doors. If positioned as a free-standing enclosure or at the end of an enclosure suite, special side panels such as TS 8106.512 (see page 942) are required. The partial doors with and without viewing panels can be arbitrarily combined with cross members. A trim panel and a cross member are each required at the top and bottom. The requirements for your individual front design and the considerations which must be taken into account are illustrated on the sample configuration opposite.

**Protection category:**
With a completed enclosure IP 55 to EN 60 529/09.2000, complies with NEMA 12.

---

**Trim piece, hinged at the top**
for TS
For the installation of control and display components.

**Material:**
Sheet steel, 2 mm

**Colour:**
RAL 7035

**Supply includes:**
Hinges, cam locks with double-bit insert and assembly parts.

**Note:**
Not in combination with top-mounted module for TS (see page 971).

**Also required:**
1 Trim panels, height 100 mm or trim panel, hinged at the top, height 300 mm
2 Cross member

**Accessories:**
3 Partial door with viewing window, height 400 mm
4 Partial door without viewing window, height 400 mm
5 Partial door without viewing window, height 1000 mm

**Width**

<table>
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<tr>
<th>Width mm</th>
<th>Height mm</th>
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<tbody>
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<tr>
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</tbody>
</table>

**Rittal service:**
Combination with shortened door, enclosure with pre-fitted trim panel instead of door, cut-outs for operating and display components available on request.

---

**Accessories:**
Support stay for trim piece, hinged at the top, see page 942.
Lock inserts, version A, see page 956.

**Earthing bolt M8**

---

**Only for width 800 and 1200 mm**
2 Only for width 1200 mm
3 Usable interior area
4 Optional: Stay TS 8801.260
5 Maximum opening with support stay approx. 85°
6 Maximum opening without support stay approx. 190°
### Trim panels

**for TS**

Required as upper and lower height trim.

**Material:** Sheet steel, 2 mm, textured

**Colour:** RAL 7035

**Supply includes:** 2 trim panels, assembly parts.

### Cross member

**for TS**

For use as sealing member between:
- Trim panels
- Partial doors
- Trim piece, hinged at the top

**Material:** Sheet steel

**Colour:** RAL 7035

**Supply includes:** Assembly parts.

### Partial doors

**for TS**

Door can be optionally hinged on the right or left side.

In the case of doors without viewing panel (height 600 – 1000 mm) the installation of monitor frame SZ 2305.000 is possible.

Standard double-bit lock insert may be exchanged for lock inserts, type F, and from 600 mm height, for comfort handle.

**Material:** Sheet steel, 2 mm

**Colour:** RAL 7035

**Supply includes:** Hinges and lock.

**Also required:**

Cross member, see page 941.

**Accessories:**

Monitor frame SZ 2305.000, see page 945.

Lock inserts, type F, see page 956.

Comfort handle, see page 947.

### Modular front design for TS 8

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Model No. TS 600 mm width</th>
<th>Model No. TS 800 mm width</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>8801.510</td>
<td>8801.110</td>
</tr>
</tbody>
</table>

### Also required:

Cross member, see page 941.

---

**Solid**

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Model No. TS 600 mm width</th>
<th>Model No. TS 800 mm width</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>8801.520</td>
<td>8801.120</td>
</tr>
<tr>
<td>400</td>
<td>8801.540</td>
<td>8801.140</td>
</tr>
<tr>
<td>600</td>
<td>8801.560</td>
<td>8801.160</td>
</tr>
<tr>
<td>800</td>
<td>8801.580</td>
<td>8801.180</td>
</tr>
<tr>
<td>1000</td>
<td>8801.500</td>
<td>8801.100</td>
</tr>
</tbody>
</table>

**With 3 mm single-pane safety glass**

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Model No. TS 600 mm width</th>
<th>Model No. TS 800 mm width</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>8801.550</td>
<td>-</td>
</tr>
<tr>
<td>600</td>
<td>8801.570</td>
<td>8801.170</td>
</tr>
<tr>
<td>800</td>
<td>8801.590</td>
<td>-</td>
</tr>
</tbody>
</table>

**Accessories:**

1. Height – 2 mm
2. Usable interior area
3. M6 bolt only for width 600 mm
4. Perforated strip only for width 800 mm
**Door/locks**

**Modular front design for TS 8**

---

**Drawer**

for TS  
For mouse and keyboard with a maximum width of 500/700 mm.  
A high level of protection is retained, even with the flap open.  
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, plastic handles, type B and T handles, type B.  
**Material:**  
Sheet steel  
**Colour:**  
RAL 7035  
**Supply includes:**  
Flap and assembly parts.

---

**Desk section**

for TS  
For installing  
● Keyboard  
● Display and control elements with screw-fastened cover plates top and bottom.  
**Material:**  
Sheet steel  
**Colour:**  
RAL 7035  
**Supply includes:**  
Assembly parts.

---

**Side panels**

for modular front design  
for TS  
Attachment on the inside vertical enclosure frame member. The TS 8106.235 side panel retainers (page 917) could conflict with the partial door fasteners.  
**Material:**  
1.5 mm sheet steel  
**Surface finish:**  
Dipcoat-primed, powder-coated in textured RAL 7035 on the outside  
**Protection category:**  
IP 55 to EN 60 529/09.2000  
**Supply includes:**  
2 side panels, 16 retainers with automatic potential equalisation.  
**Note:**  
Can also be used in enclosures without modular front design!  
**Usable interior area**

---

**Support stay**

for trim panel, hinged at the top  
5 pitch pattern positions up to a maximum opening of approx. 95°.  
**Material:**  
Sheet steel, zinc-plated, passivated.

---

**Also required:**

Cross member, see page 941.

---

**Accessories:**

- Lock inserts, 27 mm, type A, see page 956.  
- Plastic handle, type B, see page 954.  
- T handles, type B, see page 955.

---

**Material:**  
Sheet steel  
**Colour:**  
RAL 7035  
**Supply includes:**  
Flap and assembly parts.

---

**Also required:**

Cross member, see page 941.

---

**Model No. TS**

<table>
<thead>
<tr>
<th>Height</th>
<th>600 mm width</th>
<th>800 mm width</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 mm</td>
<td>8801.715</td>
<td>8801.915</td>
</tr>
</tbody>
</table>

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**Model No. TS**

<table>
<thead>
<tr>
<th>Height</th>
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</tr>
</thead>
<tbody>
<tr>
<td>200 mm</td>
<td>8801.705</td>
</tr>
</tbody>
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**Model No. TS**

<table>
<thead>
<tr>
<th>Height</th>
<th>Depth</th>
<th>8106.512</th>
<th>8108.512</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
<tr>
<td>2000</td>
<td>800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Model No. TS**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>8801.260</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
**System windows**
To conceal display and operating instruments or cut-outs, and to protect against dirt and liquids as well as unauthorised access.

**Consisting of the following components:**

1. **Base frame:**
   - Easily screw-fastened to the door thanks to modified dimensions (tubular door frame may be used as a drilling template).
   - Readily height-adjustable.
   - Stabilises the door cut-out.
   - Conceals the cut edge.
   - The rain canopy
     - prevents dirt from landing on the seal,
     - protects the glass from being lifted out.
     - prevents the ingress of dirt and moisture when opening the window.

2. **Viewing window:**
   - Made from single-pane safety glass:
     - high level of resistance to solvents and scratches,
     - anti-static,
     - reduced risk of injury if broken.
   - Cam lock with double-bit insert, easily exchanged for lock inserts, type A, and semi-cylinders in the Ergoform-S lock system (not with FT 2735.500 and .560)
   - Hinge with 180° opening angle, easily inserted.

**Material:**
System windows:
Extruded aluminium sections with die-cast zinc corner pieces and single-pane safety glass.

**Surface finish:**
Base frame:
Powder-coated in RAL 7035.
Hinge and lock section:
Natural-anodised.

**Protection category:**
IP 54 to EN 60 529/09.2000

---

**Table: To fit TS, ES with width mm**

<table>
<thead>
<tr>
<th>To fit TS, ES with width mm</th>
<th>Window size mm</th>
<th>Model No. FT 30 section</th>
<th>Model No. FT 60 section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior</td>
<td>Internal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W (B) H b h</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 500</td>
<td>270 430</td>
<td>200 2735.500</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>370 300</td>
<td>300 2735.510</td>
<td>2736.510</td>
</tr>
<tr>
<td></td>
<td>470 440</td>
<td>2735.520</td>
<td>2736.520</td>
</tr>
<tr>
<td></td>
<td>570 500</td>
<td>2735.530</td>
<td>2736.530</td>
</tr>
<tr>
<td></td>
<td>670 600</td>
<td>2735.540</td>
<td>2736.540</td>
</tr>
<tr>
<td>800 700</td>
<td>270 630</td>
<td>200 2735.560</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>370 300</td>
<td>2735.550</td>
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<tr>
<td></td>
<td>470 440</td>
<td>2735.580</td>
<td>2736.580</td>
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<tr>
<td></td>
<td>570 500</td>
<td>2735.590</td>
<td>2736.590</td>
</tr>
<tr>
<td></td>
<td>670 600</td>
<td>2735.250</td>
<td>2736.500</td>
</tr>
<tr>
<td>Other sizes<strong>1)</strong></td>
<td></td>
<td>2735.509</td>
<td>2736.509</td>
</tr>
</tbody>
</table>

**Lock systems**
Standard double-bit lock insert may be exchanged for lock inserts 27 mm, type A, see page 956 and for Ergoform-S lock system (except H = 270 mm), see page 953.

**Example:**
System window (30 section) to fit door width 500 mm
with width W (B) = 400 mm x height H = 480 mm (b x h = 330 mm x 410 mm)
Model No. FT 2735.509/W (B) x H = 400 x 480 mm.

---

**Viewing area (W – 137) offset by 16.5 mm towards the hinge side.**

---

**Notes:**
1) Please also specify the external dimensions of the viewing window. Delivery times available on request.

---

**Rittal Catalogue 32/System accessories**

943
**Viewing window**

For mounting on
- AE instead of door
- Surfaces

**Material:**
- Frame: Aluminium, natural-anodised
- Glass panel: Acrylic

**Protection category:**
IP 54 to EN 60 529/09.2000

**Supply includes:**
Plastic handle with lock insert no. 3524 E.

<table>
<thead>
<tr>
<th>For use as door variant with</th>
<th>Width mm</th>
<th>Height mm</th>
<th>Model No. FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 1039.500</td>
<td>599</td>
<td>377</td>
<td>2730.000</td>
</tr>
<tr>
<td>AE 1339.500</td>
<td></td>
<td></td>
<td>2760.000</td>
</tr>
<tr>
<td>AE 1050.500</td>
<td>499</td>
<td>497</td>
<td>2733.000</td>
</tr>
<tr>
<td>AE 1010.500</td>
<td>599</td>
<td>597</td>
<td>2731.000</td>
</tr>
<tr>
<td>AE 1012.500</td>
<td>599</td>
<td>757</td>
<td>2732.000</td>
</tr>
<tr>
<td>AE 1010.500</td>
<td></td>
<td></td>
<td>2763.000</td>
</tr>
<tr>
<td>AE 1012.500</td>
<td></td>
<td></td>
<td>2761.000</td>
</tr>
<tr>
<td>AE 1010.500</td>
<td></td>
<td></td>
<td>2760.000</td>
</tr>
<tr>
<td>AE 1012.500</td>
<td></td>
<td></td>
<td>–</td>
</tr>
</tbody>
</table>

Max. installation depth: (depth − 4 mm)
Visible area: (width − 60 mm) x (height − 60 mm)

**Note:**
Other sizes available on request.

**Horizontally hinged FT stay**

A gas pressurised spring holds the viewing window securely open (top or side). When the viewing window is closed, the gas pressurised spring disappears into the frame section.

**Acrylic glazed cover**

With security lock, lock no. 3524 E

**Material:**
- Frame: Extruded aluminium sections with die-cast corner pieces
- Glass panel: Smoked acrylic

**Protection category:**
IP 54 to EN 60 529/09.2000

<table>
<thead>
<tr>
<th>Pack(s)</th>
<th>Model No. FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2772.000</td>
</tr>
</tbody>
</table>

**Acrylic glazed covers, 482.6 mm (19")**

<table>
<thead>
<tr>
<th>U</th>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm</th>
<th>Model No. FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>320</td>
<td>158</td>
<td>47.5</td>
<td>2780.000</td>
</tr>
<tr>
<td>3</td>
<td>534</td>
<td>158</td>
<td>47.5</td>
<td>2781.000</td>
</tr>
<tr>
<td>6</td>
<td>534</td>
<td>291.5</td>
<td>47.5</td>
<td>2782.000</td>
</tr>
<tr>
<td>9</td>
<td>534</td>
<td>425</td>
<td>47.5</td>
<td>2796.000</td>
</tr>
</tbody>
</table>

Max. installation depth: 43 mm
Visible area: (width − 40 mm) x (height − 20.5 mm)

**Metric acrylic glazed covers**

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm</th>
<th>Model No. FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>200</td>
<td>47.5</td>
<td>2784.000</td>
</tr>
<tr>
<td>400</td>
<td>400</td>
<td>47.5</td>
<td>2785.000</td>
</tr>
<tr>
<td>500</td>
<td>200</td>
<td>47.5</td>
<td>2786.000</td>
</tr>
<tr>
<td>500</td>
<td>400</td>
<td>47.5</td>
<td>2787.000</td>
</tr>
<tr>
<td>600</td>
<td>200</td>
<td>47.5</td>
<td>2788.000</td>
</tr>
<tr>
<td>600</td>
<td>400</td>
<td>47.5</td>
<td>2789.000</td>
</tr>
</tbody>
</table>

Max. installation depth: 43 mm
Visible area: (width − 40 mm) x (height − 20.5 mm)
### Viewing panels/operating panels

#### Viewing window

**Stainless steel**

Fitted as standard with internal 130° hinges and all-round seal. The double-bit lock insert may be exchanged for 27 mm lock inserts, type A, and Ergoform-S handle SZ 2452.000.

**Material:**
Stainless steel 1.4301 (AISI 304)

**Protection category:**
IP 54 to EN 60 529/09.2000

**Supply includes:**
Assembly parts.

#### Monitor frame

**For door width 600 and 800 mm**

For covering a door cut-out, for all standard monitors up to 482.6 mm (19”).

**Protection category:**
IP 54 to EN 60 529/09.2000

**Supply includes:**
Security glass pane.

#### Identification strips

For individual field identifiers on the door, including transparent cover and assembly parts.

**For labels:**
- **Width:** Enclosure width – 150 mm
- **Height:** 29 mm
- **Thickness:** 0.75 mm.

**Colour:**
RAL 7033

----

**Table:**

<table>
<thead>
<tr>
<th>Width (B)</th>
<th>Height</th>
<th>Depth</th>
<th>W (B1)</th>
<th>Model No. FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>522</td>
<td>600</td>
<td>38</td>
<td>408</td>
<td>2793.560</td>
</tr>
<tr>
<td>722</td>
<td>600</td>
<td>38</td>
<td>608</td>
<td>2793.760</td>
</tr>
</tbody>
</table>

**Note:**
Smaller sizes and viewing window for hygienic design in preparation.

**Accessories:**
Lock inserts, 27 mm, version A, see page 956. Ergoform-S handle SZ 2452.000, see page 953.

---
Operating panel
For mounting on:
- AE instead of door
- Surfaces
Frame construction with corner connectors on the inside, 3 mm aluminium plate secured from the inside and sealed against the frame
Material:
Aluminium, natural-anodised.
Protection category:
IP 54 to EN 60 529/09.2000
Supply includes:
Aluminium frame, display panel, hinges, brackets.

<table>
<thead>
<tr>
<th>Model No. FT</th>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2740.000(1)</td>
<td>199</td>
<td>297</td>
<td>34</td>
</tr>
<tr>
<td>2741.000</td>
<td>379</td>
<td>297</td>
<td>34</td>
</tr>
<tr>
<td>2742.000</td>
<td>379</td>
<td>377</td>
<td>34</td>
</tr>
<tr>
<td>2743.000</td>
<td>379</td>
<td>597</td>
<td>34</td>
</tr>
<tr>
<td>2744.000</td>
<td>499</td>
<td>497</td>
<td>34</td>
</tr>
<tr>
<td>2745.000</td>
<td>599</td>
<td>377</td>
<td>34</td>
</tr>
<tr>
<td>2746.000</td>
<td>599</td>
<td>597</td>
<td>34</td>
</tr>
</tbody>
</table>

(1) With AE, only for use on the rear panel

Area available for population:
(width – 70 mm) x (height – 70 mm)
Dimensions of aluminium plate:
(width – 54 mm) x (height – 54 mm)

Note:
Other sizes available on request.

Cam lock
May be retrofitted to the operating area or enclosure panel of operating panels. Standard double-bit lock insert may be exchanged for type C lock inserts and type C plastic handle.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2749.000</td>
</tr>
</tbody>
</table>

Accessories:
Lock inserts, type C, see page 956.
Plastic handle, type C, see page 954.

Viewing window
for operating panel
For the protection of display and control components. With a build height of max. 35 mm.
Material:
Frame: Aluminium, natural-anodised
Glass panel: Smoked acrylic.
Supply includes:
Lock insert no. 3524 E.
The Rittal comfort handle
As the handle does not take up any swing space, due to its folding mechanism, the door surface area may be maximised for installed equipment.

Material:
Die-cast zinc
Surface finish:
Powder-coated

German patent no. 198 01 721
German registered design no. M98 00 539
IR reg. design no. DM/045 065 with validity for BE, CH, ES, FR, IT, NL, HU, LU
Austrian design no. 32290
Czech design no. 28278
UK reg. design no. 2 075 910

Comfort handle
for lock inserts
Prepared for the installation of lock inserts, version F, see page 956, and TS lock and push-button inserts, see page 947.
Length: 295 mm.

Also required:
Handle adaptor for mounting on a TS glazed door, PC-TS bottom door, IW designer door, IW glazed door, see page 934.
Mounting adaptor for mounting on a designer glazed door 180°, see page 935.

Design | Model No. TS
---|---
RAL 7032 | 8611.010
RAL 7035 | 8611.020
RAL 8019 | 8611.250
RAL 9005 | 8611.350
Matt nickel-plated | 8611.330

Comfort handle
for padlock and lock inserts
With additional shackle (hole diameter 8 mm) for a padlock. Prepared for the installation of lock inserts, version F, see page 956, and TS lock and push-button inserts, see page 947.
Length: 295 mm.

Also required:
Handle adaptor for mounting on a TS glazed door, PC-TS bottom door, IW designer door, IW glazed door, see page 934.
Mounting adaptor for mounting on a designer glazed door 180°, see page 935.

Design | Model No. TS
---|---
RAL 7032 | 8611.030
RAL 7035 | 8611.290
RAL 8019 | 8611.260

Lock and push-button inserts
For installation in the comfort handles for lock inserts.

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security lock insert no. 3524 E</td>
<td>8611.180(1)</td>
</tr>
<tr>
<td>Push-button insert</td>
<td>8611.190</td>
</tr>
<tr>
<td>Lock and push-button insert, lock no. 12321; no other lock is possible</td>
<td>8611.200(1)</td>
</tr>
</tbody>
</table>

(1) with 2 keys
Lock systems

Comfort handle
With security lock insert E1
Only for use with VW, Audi, SEAT, SkodaAuto.
Supplied without key.
Length: 296 mm.
Other VW locks available on request.

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7032</td>
<td>8611.040</td>
</tr>
<tr>
<td>RAL 7035</td>
<td>8611.045</td>
</tr>
</tbody>
</table>

Also required:
Handle adaptor for mounting on a TS glazed door, PC-TS bottom door, IW designer door, IW glazed door, see page 934. Mounting adaptor for mounting on a designer glazed door 180°, see page 935.

Comfort handle
for semi-cylinder
Prepared for the installation of commercially available semi-cylinders, 40 or 45 mm total length, to DIN 18 252, see page 957, as well as SZ lock and push-button inserts, see page 948.
Length: 302 mm.

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7032</td>
<td>8611.060</td>
</tr>
<tr>
<td>RAL 7035</td>
<td>8611.070</td>
</tr>
<tr>
<td>RAL 8019</td>
<td>8611.270</td>
</tr>
<tr>
<td>RAL 9005</td>
<td>8611.360</td>
</tr>
<tr>
<td>Matt nickel-plated</td>
<td>8611.340</td>
</tr>
</tbody>
</table>

Also required:
Handle adaptor for mounting on a TS glazed door, PC-TS bottom door, IW designer door, IW glazed door, see page 934. Mounting adaptor for mounting on a designer glazed door 180°, see page 935.

Lock and push-button inserts
For installation in
● Comfort handle for semi-cylinders, see above,
● Ergoform-S standard, see page 953
● Folding lever handle for CM, see page 949

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security lock insert no. 3524 E</td>
<td>2467.000</td>
</tr>
<tr>
<td>Push-button insert</td>
<td>2468.000</td>
</tr>
<tr>
<td>Lock and push-button insert, lock no. 2123; no other lock is possible</td>
<td>2469.000</td>
</tr>
</tbody>
</table>

Possible alternative:
Semi-cylinder, see page 957.

Comfort handle
Prepared for ASSA lock system.
Length: 302 mm.

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7032</td>
<td>8611.050</td>
</tr>
<tr>
<td>RAL 7035</td>
<td>8611.280</td>
</tr>
</tbody>
</table>

Also required:
Handle adaptor for mounting on a TS glazed door, PC-TS bottom door, IW designer door, IW glazed door, see page 934. Mounting adaptor for mounting on a designer glazed door 180°, see page 935.
### Designer handle
**for DK-TS**
To be used in exchange for the existing handle system. Prepared for the installation of standard commercial semi-cylinders, cylinder length 30/10 mm or 35/10 mm, to DIN 18 252, as well as lock and push-button inserts.

- **Material:** Die-cast zinc
- **Surface finish:** Powder-coated
- **Colour:** RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7824.600</td>
</tr>
</tbody>
</table>

**Accessories:**
- SZ lock and push-button inserts, see page 948.
- Semi-cylinder, see page 957.

### Folding lever handle
**for CM**
As the handle does not take up any swing space, due to its folding mechanism, the door surface area may be maximised for installed equipment.

- **Colour:**
  - Enclosure: Similar to RAL 9005
  - Handle: Similar to RAL 9006

- **Dimensions:**
  - Length: 242 mm (with inserted trim panel)
  - Width: 50 mm
  - Depth: 17.5 mm

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5001.060</td>
</tr>
</tbody>
</table>

**Accessories:**
- Lock inserts, version F, see page 956.
- SZ lock and push-button inserts, see page 948.
- Semi-cylinder, see page 957.

### Folding lever handle
**for CM**
for lock inserts
Prepared for the installation of:
- Semi-cylinders with an overall length of 40 or 45 mm (to DIN 18 252)
- Lock inserts
- Lock and push-button inserts

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5001.062</td>
</tr>
</tbody>
</table>

**Accessories:**
- Lock inserts, version F, see page 956.
- SZ lock and push-button inserts, see page 948.
- Semi-cylinder, see page 957.

### Folding lever handle
**for CM**
for padlock and lock inserts
Prepared for the installation of:
- Semi-cylinders with an overall length of 40 or 45 mm (to DIN 18 252)
- Lock inserts
- Lock and push-button inserts

With additional shackle (hole diameter 8 mm) for a padlock.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5001.062</td>
</tr>
</tbody>
</table>

**Accessories:**
- Lock inserts, version F, see page 956.
- SZ lock and push-button inserts, see page 948.
- Semi-cylinder, see page 957.
## Doors/locks

### Lock systems

#### Folding lever handle

**Folding lever handle for CM**

- Prepared for KESO lock system.
- Packs of 1
- Model No. CM 5001.063

**Folding lever handle for CM**

- Prepared for ASSA lock system.
- Packs of 1
- Model No. CM 5001.064

**Folding lever handle**

- For CM
- With lock insert, lock E1
- Only for use with VW, Audi, SEAT, SkodaAuto.
- Supplied without key.
- Other VW locks available on request.
- Packs of 1
- Model No. CM 5001.061

#### Security handle

**Security handle with code**

- Flexible access opportunities with
  - Individual 3-digit code without key or
  - With the master key function via an additional semi-cylinder of 40 or 45 mm to DIN 18 252, irrespective of the code.
- Design with
  - Comfort handle TS, FR(i)
  - Ergof orm-S handle for TE
- Model No.
  - 7200.800
  - 7200.810

⚠️ Also required:

- Mounting adaptor for mounting on a designer glazed door 180°, see page 935.

➕ Accessories:

- SZ lock and push-button inserts, see page 948,
- Semi-cylinder, see page 957.
Adjacent door locking
for TS
For optimum operation of the adjacent door from the outside if the handle on the inside is difficult to access due to swing frames or 482.6 mm (19") installed equipment. Retrospective conversion of the adjacent door is easily achieved using the supplied drilling template. The handle on the inside is no longer required.

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

---

Swivel handle
for sheet steel door DK-TS
With lock insert, lock no. 3524 E. The use of semi-cylinders is not supported. Length: 150 mm.

**Note:**
When used in a bayed enclosure suite, the hinges must be on the same side.

---

Locking bar latch to CNOMO¹)
To fit all locking bars in TS doors and glazed doors with standard lock or comfort handle. The latch prevents the locking bars from moving when the door is open. For mounting on the bolt of the bar guide.

¹) CNOMO is a specification by the French automobile industry. For safety reasons, it must not be possible to lock the handle whilst the door is open.

---

Accessories:
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, version A, see page 956.

---

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8611.370</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7035</td>
<td>7829.300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>8611.210</td>
</tr>
</tbody>
</table>

Also required:
for CNOMO¹)
Lock inserts, version F, 6.5 mm triangular insert TS 8611.220, see page 956.
**Spring washer**

Upon dismantling the TS locking rods, the spring washers cannot be reused.

**Material:**
Spring steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>8800.070</td>
</tr>
</tbody>
</table>

**Assembly tool**

for spring washers

For simple pressing-on of the spring washers via inlet ring magnets.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8800.270</td>
</tr>
</tbody>
</table>

**Mini-comfort handle**

for use in all 3-part EL enclosures

Prepared for the installation of lock inserts and for the installation of commercially available 40 or 45 mm semi-cylinders, and of lock and push-button inserts.

**Material:**
Die-cast zinc

**Colour:**
RAL 7035

**Design**

<table>
<thead>
<tr>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>7705.110</td>
</tr>
<tr>
<td>7705.120</td>
</tr>
</tbody>
</table>

**Accessories:**

1) Lock inserts, version F, see page 956.
1) TS lock and push-button inserts, see page 947.
2) SZ lock and push-button inserts, see page 948.
2) Semi-cylinder, see page 957.
The Ergoform S lock system
The unlocked handle folds down forwards and is swivelled to open the lock.

Material:
Die-cast zinc

Surface finish:
Powder-coated

Ergoform standard
Prepared for the installation of semi-cylinders with a total length of 40 or 45 mm (to DIN 18 252), see page 957, all 27 mm lock inserts, version A, see page 956, as well as SZ lock and push-button inserts, see page 948.

To fit KS plastic enclosures. Prepared for the installation of semi-cylinders with a total length of 40 mm (to DIN 18 252), see page 957, all 27 mm lock inserts, version A, see page 956, as well as SZ lock and push-button inserts, see page 948.

Ergoform special
1 With security lock insert E1. Only for use with VW, Audi, SEAT, SkodaAuto. Supplied without key. Other locks available on request.

2 Prepared for ASSA lock system.

3 To fit all ES enclosures with CNOMO lock, 6.5 mm. Triangular lock insert. The handle can only be locked if the door is completely closed (French motor car industry). Not suitable for glazed doors.

Ergoform padlock handle system
for CS basic and modular enclosures
With an additional shackle for a padlock. Hole diameter of shackle: 9 mm. Prepared for the installation of 40 mm semi-cylinders (length: 10/30 mm), see page 957.

Design | Model No. SZ
---|---
RAL 7032 with brown handle | 2450.000
RAL 7035 with brown handle | 2450.010
Brown | 2451.000
Matt nickel-plated | 2452.000
RAL 7032 | 2454.000
RAL 7035 | 2435.000
RAL 7032(1) with brown handle and bracket | 2455.000
RAL 7035(1) with brown handle and bracket | 2455.010

Design | Model No. KS
---|---
RAL 7035 with brown handle | 1490.010

E1 | Model No. SZ
---|---
RAL 7035 with brown handle | 2456.500

ASSA | Model No. SZ
---|---
Completely brown | 2453.000(1)

CNOMO | Model No. SZ
---|---
RAL 7035 with brown handle | 2421.500

Packs of | Model No. CS
---|---
1 | 9785.030

1) Hole diameter = 7 mm for padlock

1) To fit plastic enclosures KS on request.
Plastic handles
With cylinder insert.
Lock no. 3524 E including assembly parts, seal and 2 keys.

Note:
The universal lock systems allows the installation of a suitable handle to suit almost any application or customer specification. The relevant product ordering page shows which handles can be fitted into each particular assembly.

### Version B
- **Colour**: RAL 9011
- **Model No. SZ**: 2576.000
- **Colour**: RAL 7030
- **Model No. SZ**: 2439.000

### Version B, but without lock insert.
- **Colour**: RAL 9011
- **Model No. SZ**: 2533.000

### Version C
- **Colour**: RAL 9011
- **Model No. SZ**: 2485.000

### Version C, but without lock insert.
- **Colour**: RAL 9011
- **Model No. SZ**: 2485.100

### Version E
- **Colour**: RAL 8019
- **Model No. KS**: 1484.000

### Version E, but without lock insert.
- **Colour**: RAL 8019
- **Model No. KS**: 1484.001

### Version G
- **Colour**: RAL 9011
- **Model No. SZ**: 2599.000
Lock systems

**T handles**

*Material:* Die-cast zinc, chrome-plated

**Supply includes:** Seal and 2 keys.

**Version B**

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>With cylinder insert,</td>
<td>2575.000</td>
</tr>
<tr>
<td>lock no. 3524 E</td>
<td></td>
</tr>
<tr>
<td>Without cylinder insert</td>
<td>2572.000</td>
</tr>
</tbody>
</table>

**Version C**

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>With cylinder insert,</td>
<td>2535.000</td>
</tr>
<tr>
<td>lock no. 3524 E</td>
<td></td>
</tr>
<tr>
<td>Without cylinder insert</td>
<td>2536.000</td>
</tr>
</tbody>
</table>

**Cam locks**

Housing made of die-cast zinc, nickel-plated

<table>
<thead>
<tr>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>With double-bit insert&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
<tr>
<td>With cylinder insert, lock no. 3524 E</td>
</tr>
</tbody>
</table>

<sup>1</sup> May be exchanged for version C lock inserts, see page 956.

Housing made of fibre-glass reinforced polyamide, also as a replacement for compact enclosures AE.

<table>
<thead>
<tr>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>With double-bit insert&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
<tr>
<td>With cylinder insert, lock no. 3524 E</td>
</tr>
</tbody>
</table>

<sup>1</sup> May be exchanged for version B lock inserts, see page 957 and 27 mm lock inserts, version A, see page 956.

Housing made of fibre-glass reinforced polyamide, also as a replacement for compact enclosures AE.

- With lock no. E1.
- Only for use with VW, SEAT, Audi, SkodaAuto.
- Supplied without key.
- Other locks available on request.

Made entirely from stainless steel 1.4404 (AISI 316L).
- For AE compact enclosures, stainless steel (with cam lock).

<table>
<thead>
<tr>
<th>Colour</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7032</td>
<td>2540.000</td>
</tr>
<tr>
<td>RAL 7035</td>
<td>2540.500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>With double-bit insert</td>
</tr>
</tbody>
</table>
Lock systems

Lock inserts

Note:
The universal lock systems allows the installation of a suitable handle to suit almost any application or customer specification. The relevant product ordering page shows which handles can be fitted into each particular assembly.

Version A
Material: Die-cast zinc

<table>
<thead>
<tr>
<th>Length 27 mm</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mm square</td>
<td>2460.000</td>
</tr>
<tr>
<td>8 mm square</td>
<td>2461.000</td>
</tr>
<tr>
<td>7 mm triangular</td>
<td>2462.000</td>
</tr>
<tr>
<td>8 mm triangular</td>
<td>2463.000</td>
</tr>
<tr>
<td>Screwdriver</td>
<td>2464.000</td>
</tr>
<tr>
<td>Daimler insert</td>
<td>2465.000</td>
</tr>
<tr>
<td>3 mm double-bit</td>
<td>2466.000</td>
</tr>
<tr>
<td>Fiat</td>
<td>2307.000</td>
</tr>
<tr>
<td>6.5 mm triangular (CNOMO)</td>
<td>2460.650</td>
</tr>
</tbody>
</table>

Version C
Material: Die-cast zinc

<table>
<thead>
<tr>
<th>Length 41 mm</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mm triangular</td>
<td>2527.000</td>
</tr>
<tr>
<td>8 mm triangular</td>
<td>2528.000</td>
</tr>
<tr>
<td>7 mm square</td>
<td>2523.000</td>
</tr>
<tr>
<td>8 mm square</td>
<td>2526.000</td>
</tr>
<tr>
<td>Daimler insert</td>
<td>2522.000</td>
</tr>
<tr>
<td>3 mm double-bit</td>
<td>2483.000</td>
</tr>
</tbody>
</table>

Version D
Material: Die-cast zinc

<table>
<thead>
<tr>
<th>Length 47 mm</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mm triangular</td>
<td>2555.000</td>
</tr>
<tr>
<td>8 mm triangular</td>
<td>2556.000</td>
</tr>
<tr>
<td>7 mm square</td>
<td>2557.000</td>
</tr>
<tr>
<td>8 mm square</td>
<td>2558.000</td>
</tr>
<tr>
<td>Daimler insert</td>
<td>2554.000</td>
</tr>
<tr>
<td>3 mm double-bit</td>
<td>2484.000</td>
</tr>
</tbody>
</table>

Version E
Material: Plastic

<table>
<thead>
<tr>
<th>Model No. KS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mm triangular</td>
</tr>
<tr>
<td>8 mm triangular</td>
</tr>
<tr>
<td>7 mm square</td>
</tr>
<tr>
<td>8 mm square</td>
</tr>
<tr>
<td>Screwdriver</td>
</tr>
<tr>
<td>Double-bit</td>
</tr>
</tbody>
</table>

Version F
Material: Die-cast zinc

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mm square</td>
<td>8611.100</td>
</tr>
<tr>
<td>8 mm square</td>
<td>8611.110</td>
</tr>
<tr>
<td>6.5 mm triangular (CNOMO)</td>
<td>8611.220</td>
</tr>
<tr>
<td>7 mm triangular</td>
<td>8611.120</td>
</tr>
<tr>
<td>8 mm triangular</td>
<td>8611.130</td>
</tr>
<tr>
<td>Screwdriver</td>
<td>8611.140</td>
</tr>
<tr>
<td>Daimler</td>
<td>8611.150</td>
</tr>
<tr>
<td>3 mm double-bit</td>
<td>8611.160</td>
</tr>
<tr>
<td>Fiat</td>
<td>8611.170</td>
</tr>
</tbody>
</table>
Cylinder inserts

Material:
Die-cast zinc

Version B
Lock no. 3524 E with 2 keys.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2571.000</td>
</tr>
</tbody>
</table>

Version C
Lock no. 3524 E with 2 keys.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2525.000</td>
</tr>
</tbody>
</table>

Semi-cylinder

to DIN 18 252
40 mm, alternative closure, for individual locks in handle systems with cylinder insert.
Supply includes:
3 keys.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>9785.040</td>
</tr>
</tbody>
</table>

Semi-cylinder lock

for compact enclosures AE
For retro-fitting to single-door enclosures with cam lock.
The cover plate is locked by semi-cylinders with a total length of 40/45 mm (to DIN 18 252). An additional cover protects the cylinder against dirt. The protection category of the enclosure is not impaired.
Supplied without semi-cylinder.

Material:
Die-cast zinc

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7035</td>
<td>2534.100</td>
</tr>
<tr>
<td>Nickel-plated (mat)</td>
<td>2534.500</td>
</tr>
</tbody>
</table>

Accessories:
Semi-cylinder, see page 957.

German patent no. 195 12 280
European patent no. 0778 913
with validity for GB, FR, IT
US patent no. 5,916,282
Jap. patent no. 3.088.465
Doors/locks

Lock systems

Lock cover
For padlocks or multiple locks
For retrospective mounting on all compact enclosures AE, of sheet steel and with cam lock.
Material:
Die-cast zinc, nickel-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2493.000</td>
</tr>
</tbody>
</table>

Multiple lock
for 6 cam locks
The ideal solution in cases where individual access for several persons is required for maintenance and repair purposes.
Material:
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2493.500</td>
</tr>
</tbody>
</table>

Lock cover
prepared for lead seal
For all enclosure types with Rittal-specific locks, such as AE, EB and AP.
Material:
Polyamide

<table>
<thead>
<tr>
<th>Colour</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7035</td>
<td>2</td>
<td>2476.000</td>
</tr>
</tbody>
</table>

German registered design no. M 92 07 062

Security lock
Fitted to doors, to protect against contact with live electrical equipment whilst the main switch is ON.
Function:
- Locks the door when the main switch is ON.
- Mains power (voltage) is only enabled whilst the door is closed.
- Monitoring of the lock magnet via an additional closing contact.
Supply includes:
Lock, actuator, angle bracket, assembly parts.

<table>
<thead>
<tr>
<th>Connection voltage for lock magnet</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>230 V AC 11 VA</td>
<td>2416.000</td>
</tr>
<tr>
<td>24 V DC 8 W</td>
<td>2418.000</td>
</tr>
<tr>
<td>120 V AC 8 VA</td>
<td>2419.000</td>
</tr>
</tbody>
</table>

Also required:
For twin-door enclosures (for the overlapping door, to indicate "enclosure door closed"), Rittal door-operated switch PS 4127.000, see page 1030.
### Enclosure keys

For lock inserts (one double-bit key is supplied with every enclosure).

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. SZ/QB</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double-bit key no. 5</td>
<td>2531.000</td>
<td></td>
</tr>
<tr>
<td>Security key no. 3524 E</td>
<td>2532.000</td>
<td></td>
</tr>
<tr>
<td>7 mm triangular</td>
<td>2545.000</td>
<td></td>
</tr>
<tr>
<td>8 mm triangular</td>
<td>2546.000</td>
<td></td>
</tr>
<tr>
<td>7 mm square</td>
<td>2547.000</td>
<td></td>
</tr>
<tr>
<td>8 mm square</td>
<td>2548.000</td>
<td></td>
</tr>
<tr>
<td>For HD lock insert</td>
<td>2549.600</td>
<td></td>
</tr>
<tr>
<td>Daimler key</td>
<td>2521.000</td>
<td></td>
</tr>
<tr>
<td>Fiat key</td>
<td>2308.000</td>
<td></td>
</tr>
<tr>
<td>Lock 12321</td>
<td>7526.050</td>
<td></td>
</tr>
</tbody>
</table>

1) Packs of 2

### Universal enclosure key

For inserts:
- Double-bit
- Rectangular 8 mm
- Triangular 8 mm

With integral slotted screwdriver.

### Universal key

For inserts:
- Double-bit
- Rectangular 6 mm
- Rectangular 7 – 8 mm
- Triangular 7 – 9 mm

With bit adaptor and reversible bit for:
- Multi-tooth size 25
- Philips-head (Ph 2)

### Quick-release fastener for QuickBox

The quick-release fastener provides optimum access, even when used in problem areas. To facilitate locking, the quick-release fastener is screw-fastened to the mounting bracket at the front. This enables the QuickBox to be locked even when the fasteners of the sides are opened, allowing the enclosure cover to be attached and removed easily.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. QB</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7502.220</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories:

Bit for HD lock insert (Model No. HD 2549.510), see page 301.

### Material:

Sheet steel, spray-finished

### Colour:

RAL 7035

### Supply includes:

2 mounting brackets, assembly parts and quick-release fasteners.
Doors/locks

Lock systems

Door latch for bayed suites

For extending the door locking of **commercially available main switches** to bayed suites TS. Adjacent door cannot be opened until the main door has been opened.

The main switch can be positioned anywhere in the suite; its function is independent from the door hinge position. Subsequent locking of the adjacent doors in the suite is possible; they are thus automatically included in locking operation.

### Operating mechanism

(Fitted in the enclosure with main switch and additionally in every fourth adjacent enclosure)

### Adjacent door locking

(installation in adjacent enclosure)

### Interconnecting rods

To extend locking from the main enclosure to the adjacent enclosures of a bayed suite. An interconnecting rod corresponding to the width of the enclosure is required for each adjacent enclosure.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>10</td>
<td>4916.000</td>
</tr>
<tr>
<td>800</td>
<td>10</td>
<td>4918.000</td>
</tr>
<tr>
<td>1200</td>
<td>10</td>
<td>4920.000</td>
</tr>
</tbody>
</table>

Isolator door locking (US version)

For safety locking of enclosures and bayed suites in accordance with US regulations, only in conjunction with the following **types of main switches**:  
- Allen Bradley 1494 V-H1 (actuating lever)  
- Square D 9422 A1  
- ITE Siemens Max-Flex series/FHOF (only available in the USA)  
- General Electric TDA Typ 1 and 2.  
- Moeller NZM-XSHGVR 12-NA

For assembly, a main door lock plus adjacent door locking are required, together with interconnecting rods to match the bayed enclosures.

**Caution!**

When configuring bayed suites, it must be noted that the isolator main enclosures can only be attached to the right side (US version).

### Main door latch

<table>
<thead>
<tr>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8611.310</td>
</tr>
</tbody>
</table>

Cut-out for main switch

---

Door locking for TS bayed suites (commercially available main switches)

### Operating mechanism, installation in enclosure with main switch

### Adjacent door locking, installation in adjacent enclosure

### Interconnecting rod

### Connection component (included in the supply of adjacent door locking item 2)

### Main door lock (for isolator door locking, USA version)

### Operating mechanism, installation in the main enclosure (included in the supply of the main door lock pos. 5)
### Hinges 130°

**for ES**
For retrofitting a sheet steel door instead of the rear panel.

**Material:**
Die-cast zinc

**Supply includes:**
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4190.000</td>
</tr>
</tbody>
</table>

### Hinges 130°

**for TS**
For retrofitting a sheet steel door instead of the rear panel.

**Material:**
Die-cast zinc

**Supply includes:**
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8800.020</td>
</tr>
</tbody>
</table>

**⚠️ Also required:**
Lock components for frame TS 8800.040, see page 934.

### Hinges 180°

**for TS**
For retrospective conversion of sheet steel doors with 130° hinges.

**One-person assembly:**
- Exchange the hinge parts on the frame side for 180° hinges (4 screws).
- Drill the door at the pre-marked points.
- Screw-fasten the hinge parts onto the door.
- Locate the door.
- Press in the captive hinge pins.

**Supply includes:**
Assembly screws.

**Note:**
Door assemblies such as the comfort handle may restrict the door opening angle. The hinge pins may only be actuated and the door removed with the door open. The hinge cannot be dismantled from the outside with the door closed (access protection).

**Material:**
Die-cast zinc

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7035</td>
<td>4</td>
<td>8800.190</td>
</tr>
<tr>
<td>RAL 7032</td>
<td>4</td>
<td>8800.030</td>
</tr>
<tr>
<td>RAL 8019</td>
<td>4</td>
<td>8800.230</td>
</tr>
<tr>
<td>RAL 9005</td>
<td>4</td>
<td>8800.950</td>
</tr>
<tr>
<td>Matt nickel-plated</td>
<td>4</td>
<td>8701.180</td>
</tr>
</tbody>
</table>

### for TS with high dynamic loads
Specifically for applications where dynamic stresses occur in addition to heavy door installations (up to 900 N).

**Material:**
Precision-cast/Die-cast zinc

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8800.710</td>
</tr>
</tbody>
</table>
Hinges

Hinges 180°
for TS bayed enclosure suites with comfort handle
In TS bayed enclosure suites with comfort handle for semi-cylinder, the following door opening angles may be achieved:
Sheet steel door: max. 180°
Glazed door: max. 140°

Material:
Die-cast zinc

Colour:
RAL 7035/RAL 9005

Supply includes:
Assembly screws.

<table>
<thead>
<tr>
<th>Version for</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RAL 7035</td>
</tr>
<tr>
<td>Sheet steel door</td>
<td>4</td>
<td>7824.520</td>
</tr>
<tr>
<td>Glazed door</td>
<td>4</td>
<td>7824.525</td>
</tr>
</tbody>
</table>

Note:
- The protection category of the enclosure may be reduced.
- Not for divided doors.
- Door hinge remains the same within a bayed enclosure suite.
- Not suitable for use with TS designer glazed doors.

Rear panel bracket
For:
- Premium Panel
- Premium Line KL, from height 200 mm

For fitting on the inside, so that there are no exterior surfaces where substances could accumulate and pose a potential threat to hygiene.
Holds the rear panel against the enclosure when it is flipped down; easily removed if required.

Material:
Stainless steel 1.4301 (AISI 304)

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>6682.000</td>
</tr>
</tbody>
</table>

Cover hinge
for KL
The cover hinge is simply screwed to the enclosure protection channel and to the edge fold.

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Material</th>
<th>Packs of</th>
<th>Model No. KL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Die-cast zinc</td>
<td>6</td>
<td>1592.000</td>
</tr>
<tr>
<td>Stainless steel 1.4404 (AISI 316L)</td>
<td>2</td>
<td>1592.010</td>
</tr>
</tbody>
</table>

Cover retainer
for KL
The cover retainer is easily fitted without drilling, and allows the covers to be opened upwards, even when the terminal box below is bayed.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. KL</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 pairs</td>
<td>1591.000</td>
</tr>
</tbody>
</table>
Hinges 180°
For retrospective conversion of standard doors with 130° hinges. Including assembly parts.

For ES, AP universal console, TP pedestals, TE
Material: Aluminium
Surface finish: Powder-coated in RAL 8019

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4189.000</td>
</tr>
</tbody>
</table>

For ES
Material: Stainless steel 1.4301 (AISI 304)

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4156.000</td>
</tr>
</tbody>
</table>

For AP one-piece console
Material: Sheet steel

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>2579.000</td>
</tr>
</tbody>
</table>

For AE
Material: Die-cast zinc

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2449.000</td>
</tr>
</tbody>
</table>

For CM
Material: Die-cast zinc
Colour: RAL 9011/9006

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>5001.000</td>
</tr>
</tbody>
</table>

Hinge pin remover
For safe and easy removal of hinge pins.

<table>
<thead>
<tr>
<th>For enclosure</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE/CM/FM</td>
<td>2432.000</td>
</tr>
</tbody>
</table>
**Door/locks**

**Door, internal**

---

### Support strips

For attachment of
- Cable trunking
- Cable conduit holders
- Contact hazard protection covers
- Equipment installed on the door
- Cable clamping and attachment

4.5 mm diameter hole on a 25 mm DIN pitch pattern.

**For TS, CM, ES, TP**

![Support strips for TS, CM, ES, TP](image)

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
- Packs of 20, including screws.

**Accessories:**
Screws and self-tapping screws M5, see page 1011.

<table>
<thead>
<tr>
<th>For door width mm</th>
<th>Length mm</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>290</td>
<td>4594.000</td>
</tr>
<tr>
<td>500</td>
<td>390</td>
<td>4309.000</td>
</tr>
<tr>
<td>600</td>
<td>490</td>
<td>4596.000</td>
</tr>
<tr>
<td>800</td>
<td>690</td>
<td>4598.000</td>
</tr>
<tr>
<td>900</td>
<td>790</td>
<td>4579.000</td>
</tr>
<tr>
<td>1000</td>
<td>890</td>
<td>4599.000</td>
</tr>
</tbody>
</table>

**For AE**

![Support strips for AE](image)

<table>
<thead>
<tr>
<th>For enclosures AE</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1007.500(1), 1013.500(2)</td>
<td>2325.000</td>
</tr>
<tr>
<td>1018.500(1), 1019.500(2)</td>
<td>2325.000</td>
</tr>
<tr>
<td>1050.500(1), 1057.500</td>
<td>2326.000</td>
</tr>
<tr>
<td>1100.500, 1110.500</td>
<td>2327.000</td>
</tr>
<tr>
<td>1114.500(1), 1130.500</td>
<td>2328.000</td>
</tr>
<tr>
<td>1213.500(1), 1350.500(1)</td>
<td>2328.000</td>
</tr>
<tr>
<td>1009.500(2), 1010.500(2)</td>
<td>2325.000</td>
</tr>
<tr>
<td>1012.500(2), 1039.500</td>
<td>2325.000</td>
</tr>
<tr>
<td>1054.500, 1058.500</td>
<td>2325.000</td>
</tr>
<tr>
<td>1060.500, 1076.500</td>
<td>2325.000</td>
</tr>
<tr>
<td>1090.500, 1260.500(1)</td>
<td>2325.000</td>
</tr>
<tr>
<td>1339.500, 1360.500</td>
<td>2325.000</td>
</tr>
<tr>
<td>1376.500</td>
<td>2325.000</td>
</tr>
<tr>
<td>1014.500(2), 1073.500</td>
<td>2327.000</td>
</tr>
<tr>
<td>1077.500</td>
<td>2327.000</td>
</tr>
<tr>
<td>1016.500(2), 1017.500(2)</td>
<td>2328.000</td>
</tr>
<tr>
<td>1055.500, 1180.500</td>
<td>2328.000</td>
</tr>
<tr>
<td>1280.500(1)</td>
<td>2328.000</td>
</tr>
</tbody>
</table>

1) For these AE models, the door rails should be cut to length.
2) Only in conjunction with perforated mounting strips (see page 965).

---

### Spacers

The universal assembly component for all cases where a distance from the mounting level is required. With self-tapping thread for diameter 4.5 mm. The following components may be attached to the rear using 5.5 x 13 mm screws:
- Top-hat/cross rails
- Contact hazard protection covers
- Master switch trim panels
- Cable clamp rails, etc.

**Material:**
Hexagonal steel (SW8)

**Surface finish:**
Zinc-plated, passivated

**Accessories:**
Screws 5.5 x 13 mm, see page 1011.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
- Packs of 20, including screws.

**Accessories:**
Screws and self-tapping screws M5, see page 1011.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>12</td>
<td>2311.225</td>
</tr>
<tr>
<td>50</td>
<td>12</td>
<td>2311.250</td>
</tr>
</tbody>
</table>
Perforated mounting strip
For AE stainless steel, AP universal console
For vertical mounting on the threaded bolts of the door, for attaching
● Support strips for AE, see page 964.
● Door stay SZ 2519.000, see page 967.
3.7 mm diameter hole on a 25 mm DIN pitch pattern.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Packs of 20, including nuts and serrated washers.

Utility lectern
For programming units etc. Prepared for mounting on the tubular door frame of TS, CM, ES, PC or on any sufficiently large surface. When required for servicing, it folds down quickly with a maximum support area, and after use is stowed between the tubular door frames in a space-saving design. Load capacity: max. 30 kg.

Material:
Sheet steel

Colour:
RAL 7035

Wiring plan lectern
Holds wiring plans during fault finding and maintenance work. The wiring plan lecterns can be bayed according to the door width. For mounting on the tubular door frame.

Material:
Utility lectern: Polypropylene
Mounting bracket: Die-cast zinc

Colour:
Similar to RAL 7035

Supply includes:
Wiring plan lectern (width 210 mm). Assembly parts.

CD/disk box
For fixing to all flat, clean surfaces with double-sided adhesive tape.

Capacity:
Max. 10 CDs/DVDs or 18 (3 1/2") disks.

Material:
Polyamide

Colour:
RAL 7033

---

To match AE | Length mm | Model No. SZ
---|---|---
1005.500, 1005.600, 1006.500, 1006.600, 1009.600 | 318 | 2310.038
1012.600, 1014.600 | 698 | 2310.076
1016.600, 1018.600 | 938 | 2310.100
1017.600, 1019.500, 1019.600 | 1138 | 2310.120

---

Support area | For door width mm | Model No. TS
---|---|---
413 | 400 | 600 | 4638.600
613 | 400 | 800 | 4638.800

---

For enclosures | Packs of | Model No. TS
---|---|---
TS, CM, ES, PC, TP | 1 | 4120.000

---

Packs of | Model No. SZ
---|---
1 | 2446.000
Plastic wiring plan pockets
for AE
For installation options, refer to table
● B = Screw-fastened to the perforated door strip on both sides
● E = Screw-fastened on one side, other side stuck with adhesive or stuck entirely with adhesive

Supply includes:
2 holders with double-sided adhesive tape, acrylic glazed pane, assembly parts.

Note:
The acrylic glazed pane may be shortened to any required size for shorter doors.

Supply includes:
2 holders with double-sided adhesive tape, acrylic glazed pane, assembly parts.

Note:
The acrylic glazed pane may be shortened to any required size for shorter doors.

<table>
<thead>
<tr>
<th>Model No. SZ</th>
<th>2514.500</th>
<th>2514.600</th>
<th>2514.800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable width mm</td>
<td>340</td>
<td>415</td>
<td>615</td>
</tr>
<tr>
<td>Usable depth mm</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Height of acrylic glazed pane mm</td>
<td>167</td>
<td>167</td>
<td>167</td>
</tr>
</tbody>
</table>

Installation options

<table>
<thead>
<tr>
<th>For Model No. AE</th>
<th>Width mm</th>
<th>B</th>
<th>E</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050.500</td>
<td>500</td>
<td>B</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1054.500</td>
<td>600</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1055.500</td>
<td>800</td>
<td>E</td>
<td>E</td>
<td>B</td>
</tr>
<tr>
<td>1057.500</td>
<td>500</td>
<td>B</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1058.500</td>
<td>600</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1060.500</td>
<td>600</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1073.500</td>
<td>760</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1076.500</td>
<td>600</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1077.500</td>
<td>760</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1090.500</td>
<td>600</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1100.500</td>
<td>1000</td>
<td>B</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1110.500</td>
<td>1000</td>
<td>B</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1114.500</td>
<td>1000</td>
<td>B¹</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1130.500</td>
<td>1000</td>
<td>B</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1180.500</td>
<td>800</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>1213.500</td>
<td>1000</td>
<td>B¹</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1260.500</td>
<td>600</td>
<td>E</td>
<td>B</td>
<td>–</td>
</tr>
<tr>
<td>1280.500</td>
<td>800</td>
<td>E</td>
<td>E</td>
<td>B</td>
</tr>
<tr>
<td>1350.500</td>
<td>500</td>
<td>B</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1360.500</td>
<td>600</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
<tr>
<td>1376.500</td>
<td>600</td>
<td>E</td>
<td>E</td>
<td>–</td>
</tr>
</tbody>
</table>

¹Prepared for the installation in the l/h side door; for installation in the r/h side door, the acrylic glazed pane can be shortened.

Plastic wiring plan pockets
For affixing to the inside surfaces of doors.

Material:
Polystyrene with self-adhesive fastening strips.

Colour:
Similar to RAL 7035

Wiring plan pockets with transparent pouch
With welded-on transparent pouch and self-adhesive backing.

For format | Model No. SZ
--- | ---
DIN A4 | 2510.000
DIN A3 | 2512.000
Door, internal

### Wiring plan pockets of sheet steel

For TS, CM, ES, PC, TP pedestal

For fastening to tubular door frames at any height.

**Colour:**
RAL 7035

**Supply includes:**
Assembly screws

<table>
<thead>
<tr>
<th>To fit door width mm</th>
<th>Clearance openings mm</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>H</td>
<td>D 90 mm</td>
</tr>
<tr>
<td>400</td>
<td>255</td>
<td>260</td>
</tr>
<tr>
<td>500</td>
<td>355</td>
<td>260</td>
</tr>
<tr>
<td>600</td>
<td>455</td>
<td>260</td>
</tr>
<tr>
<td>800</td>
<td>655</td>
<td>260</td>
</tr>
<tr>
<td>900</td>
<td>755</td>
<td>260</td>
</tr>
<tr>
<td>1000</td>
<td>855</td>
<td>260</td>
</tr>
</tbody>
</table>

### Door stay

To secure the door in the open position.

For Assembly Packs of Model No.

<table>
<thead>
<tr>
<th>For</th>
<th>Assembly</th>
<th>Packs of</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS, ES, PC, AP universal console</td>
<td>Bottom</td>
<td>5</td>
<td>4583.000</td>
</tr>
<tr>
<td>AP one-piece console</td>
<td>Top</td>
<td>5</td>
<td>2518.000</td>
</tr>
<tr>
<td>CM, TP</td>
<td>Top</td>
<td>2</td>
<td>2519.200</td>
</tr>
<tr>
<td>AE (except AE 1032.500 and AE 1035.500) and all AE stainless steel enclosures1)</td>
<td>Top</td>
<td>5</td>
<td>2519.000</td>
</tr>
<tr>
<td>AE IP 69K</td>
<td>Top</td>
<td>1</td>
<td>1101.800</td>
</tr>
</tbody>
</table>

1) With AE stainless steel, only in conjunction with perforated mounting strip, see page 965.

### Ride-up roller

For TS, ES, PC

Lifts the door with heavy installed equipment (e.g. cooling unit) as a closing aid. For attaching to the tubular door frame.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>4538.000</td>
</tr>
</tbody>
</table>

### Transport and mounting handle

For doors TS, ES

For secure attachment and dismantling of the door and for movement into the workshop. The matching hinge pin removal tool for 130° hinges is pre-integrated, and supplied loose for 180° hinges.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2415.100</td>
</tr>
</tbody>
</table>
Door/locks

Door, internal

Document clip, magnetic
For simple attachment of installation documentation as a reminder or for flexible accommodation of a wide range of documents, measurement records, test reports etc. May be attached to any magnetisable surface via a permanent magnet.

**Material:**
Plastic: Transparent
Grips: Black

**Supply includes:**
2 mounting clamps including permanent magnet.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7950.200</td>
</tr>
</tbody>
</table>

Alternate frame, magnetic
For individual marking or labelling of the existing network infrastructure. The magnetic surface facilitates flexible mounting on all magnetisable surfaces. Adhesive strips are supplied for non-magnetic surfaces. The maximum size of the labels is 130 x 50 mm.

**Material:**
Plastic

**Supply includes:**
Alternate frame, magnetic, labels, double-sided adhesive tape.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>7950.150</td>
</tr>
</tbody>
</table>
Rain canopies for AE, CM
Reliable protection for outside siting – with water run-off to the rear. Easily retro-fitted.

Supply includes:
Assembly parts.

Accessories:
- Condensate discharge, see page 916.
- Pressure relief valve, see page 916.
- Wall mounting brackets SZ 2503.0X0 and SZ 2508.0X0 may be used, see page 975.

Note:
For outdoor siting, we generally recommend a rain canopy above the enclosure or the gap between the door or screw-fastened rear panel and the enclosure, in order to protect against water and UV radiation. The tests of IP protection categories for water protection (2nd code number to EN 60 529/09.2000) cannot be compared with an enclosure sited outdoors or under similar conditions. Upon request, rain canopies of sheet steel, stainless steel or aluminium can also be produced for other enclosures.

for AE, sheet steel version
Material:
Sheet steel
Surface finish:
Powder-coated in textured RAL 7035

for AE, stainless steel version
Material:
Stainless steel 1.4301 (AISI 304)
Surface finish:
Brushed, grain 240

B1 = Enclosure width + 11 mm
T1 = Enclosure depth + 25 mm
T2 = Enclosure depth – 90 mm, from enclosure width 600 mm – enclosure depth 115 mm

for CM, sheet steel version
Benefits:
- Mounting via the two holes in the top of the CM
- At the front, with integrated ventilation holes at the top

Possible alternative:
Compact enclosures Hygienic Design, see page 299.
Roof/wall mounting

Roof

Dust guard trim
for AE, CM, EB, KL and BG
To protect against deposits on the upper edge of the door and between the enclosure and the door/lid. Cut the door protection strip to length according to the enclosure width. Drill the enclosure and mount the strip using the adhesive strips and screws.

Material: Plastic, UV-resistant

Colour: Similar to RAL 7024

<table>
<thead>
<tr>
<th>For enclosure</th>
<th>Length mm</th>
<th>A mm</th>
<th>Model No.</th>
<th>SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE</td>
<td>1200</td>
<td>25</td>
<td>2426.500</td>
<td></td>
</tr>
<tr>
<td>CM</td>
<td>1200</td>
<td>20</td>
<td>2426.500</td>
<td></td>
</tr>
<tr>
<td>KL, EB, BG</td>
<td>20.5</td>
<td></td>
<td>2426.500</td>
<td></td>
</tr>
</tbody>
</table>

Dust guard trim
for TS, ES
To protect against dust deposits on the upper edge of the door and between the door and upper horizontal enclosure section. The dust guard trim provides space to accommodate texts or company logos.

Colour: RAL 7035

Supply includes: Clear plastic strip for text labels (height 29.5 mm).

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Model No.</th>
<th>SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>2424.100</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>2425.100</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>2427.100</td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td>2426.100</td>
<td></td>
</tr>
</tbody>
</table>

Note:
Also suitable for use in conjunction with baying cover top, see page 932.
### Top mounting module

**for TS, FR(i)**

As a cable chamber for cable infeed from above or for power distribution with busbar systems across bayed enclosures. The TS cover plate is used as standard to finish off at the top. The enclosure height is increased by 200 mm with the top mounting module fitted. The top baying cover cannot be fitted. Installation accessories for top and bottom, see diagram and explanations below.

**Material:**
Sheet steel, 1.5 mm

**Surface finish:**
Spray-finished in textured RAL 7035

**Protection category:**
IP 55 to EN 60 529/09.2000

Complies with NEMA 12 (in conjunction with side panel for top mounting module, see page 971).

### Side panel

**for top mounting module**

To finish off the side of a top mounting module or bayed suite.

**Material:**
Sheet steel, 1.5 mm

**Surface finish:**
Spray-finished in textured RAL 7035

As a cable chamber for cable infeed from above or for power distribution with busbar systems across bayed enclosures. The TS cover plate is used as standard to finish off at the top. The enclosure height is increased by 200 mm with the top mounting module fitted. The top baying cover cannot be fitted. Installation accessories for top and bottom, see diagram and explanations below.

**Supply includes:**
2 side panels, 8 retainers with automatic potential equalisation.

### For enclosures

<table>
<thead>
<tr>
<th>Width (B) mm</th>
<th>Depth mm</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>600</td>
<td>8801.725</td>
</tr>
<tr>
<td>600</td>
<td>600</td>
<td>8801.735</td>
</tr>
<tr>
<td>800</td>
<td>600</td>
<td>8801.745</td>
</tr>
<tr>
<td>1000</td>
<td>600</td>
<td>8801.755</td>
</tr>
<tr>
<td>1200</td>
<td>600</td>
<td>8801.765</td>
</tr>
</tbody>
</table>

### Accessories:

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS punched rail 18 x 38 mm</td>
<td>996</td>
</tr>
<tr>
<td>PS punched rail 23 x 23 mm with angle bracket</td>
<td>998</td>
</tr>
<tr>
<td>PS punched rail 23 x 23 mm with support bracket</td>
<td>998</td>
</tr>
<tr>
<td>PS punched section without mounting flange 23 x 73 mm, with support bracket PS</td>
<td>998</td>
</tr>
<tr>
<td>PS punched section with mounting flange 23 x 73 mm</td>
<td>999</td>
</tr>
<tr>
<td>Support rail</td>
<td>1001</td>
</tr>
<tr>
<td>System support rails</td>
<td>1000</td>
</tr>
<tr>
<td>C rail 30/15 with support bracket or spacer</td>
<td>999</td>
</tr>
<tr>
<td>Cable clamp rail</td>
<td>1061</td>
</tr>
<tr>
<td>TS punched rail 25 x 38 mm</td>
<td>996</td>
</tr>
<tr>
<td>TS punched section without mounting flanges, 45 x 88 mm</td>
<td>995</td>
</tr>
</tbody>
</table>

### Supply includes:
1 frame module, 2 trim panels (front and rear), 8 holders with automatic potential equalisation, 4 tapped rods with eyebolts.

---

**Pack of:**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>8801.775</td>
</tr>
</tbody>
</table>
Roof/wall mounting

Roof

Roof plate
for cable entry, two-piece
for DK-TS, FR(i)
In exchange for the standard roof. Equipped with a sliding angular bracket in the rear section. Rubber cable clamp strip on both sides for attaching cable bundles and bunched cables. Thanks to the symmetrical design of the TS 8 frame, side cable entry can also be achieved by rotating the roof plate.
The two-piece design additionally allows easy retro-fitting, by simply removing the front part of the plate for retrospective cable entry.
For active ventilation, a fan mounting plate may be fitted in the front section of the enclosure (only with TS, not in conjunction with 482.6 mm (19") mounting frames). To this end, the roof plate must be raised by at least 20 mm using spacers.
Material:
Sheet steel
Colour:
RAL 7035

For enclosures

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>400</td>
<td>7826.6451</td>
</tr>
<tr>
<td>600</td>
<td>600</td>
<td>7826.665</td>
</tr>
<tr>
<td>600</td>
<td>800</td>
<td>7826.685</td>
</tr>
<tr>
<td>600</td>
<td>900</td>
<td>7826.695</td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
<td>7826.605</td>
</tr>
<tr>
<td>600</td>
<td>1200</td>
<td>7826.625</td>
</tr>
<tr>
<td>800</td>
<td>400</td>
<td>7826.845</td>
</tr>
<tr>
<td>800</td>
<td>600</td>
<td>7826.865</td>
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<tr>
<td>800</td>
<td>800</td>
<td>7826.885</td>
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<tr>
<td>800</td>
<td>900</td>
<td>7826.895</td>
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<tr>
<td>800</td>
<td>1000</td>
<td>7826.805</td>
</tr>
<tr>
<td>1200</td>
<td>400</td>
<td>7826.245</td>
</tr>
<tr>
<td>800</td>
<td>1200</td>
<td>7826.825</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Accessories:
Fan mounting plate, see page 703.
Spacers, see page 974.
Detailed drawing, available on the Internet.

Roof plate
for cable entry on all sides,
for DK-TS, FR(i)
The roof plate has sliding plates for cable entry on all four sides, and therefore allows individual selection of cable routing tailored to the specific requirements. After cable entry, the sliding plate is closed again as far as possible, and the rubber cable clamp strips supplied loose then seal the cable entry area.
Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
Assembly parts.

For enclosures

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>800</td>
<td>7826.588</td>
</tr>
<tr>
<td>800</td>
<td>900</td>
<td>7826.5891</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Detailed drawing, available on the Internet.

Cable management roof plate
for DK-TS, FR(i)
In exchange for the standard roof plate. Thanks to the rounded side cut-outs, large quantities of cables may be routed into the rack whilst preserving the bend radii. The roof has system punchings for the attachment of cables with nylon tape or cable ties.
Material:
Sheet steel
Colour:
RAL 7035

For enclosures

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>800</td>
<td>7826.884</td>
</tr>
<tr>
<td>800</td>
<td>900</td>
<td>7826.8941</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Other sizes available on request.

Note:
Combination with a 482.6 mm (19") mounting frame is not possible.

Detailed drawing, available on the Internet.
Roof plate, vented for DK-TS, FR(i)
In exchange for the standard roof.

**Variant 1:**
72 mm high roof plate, all-round vent slots, optionally with clamp strip for cable entry. The two-piece design with cable entry allows easy retro-fitting, by simply removing the front part of the plate. The cables are held in position via a guide at the side.

**Material:**
Sheet steel

**Colour:**
RAL 7035

---

For enclosures | Model No. DK
--- | ---

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>One-piece without cable entry</th>
<th>Two-piece with cable entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>600</td>
<td>7826.766</td>
<td>7826.669</td>
</tr>
<tr>
<td>600</td>
<td>800</td>
<td>7826.768</td>
<td>7826.689</td>
</tr>
<tr>
<td>600</td>
<td>900</td>
<td>7826.769(^1)</td>
<td>7826.699</td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
<td>7826.760(^1)</td>
<td>7826.699</td>
</tr>
<tr>
<td>800</td>
<td>600</td>
<td>7826.786</td>
<td>7826.689</td>
</tr>
<tr>
<td>800</td>
<td>800</td>
<td>7826.788</td>
<td>7826.689</td>
</tr>
<tr>
<td>800</td>
<td>900</td>
<td>7826.789(^1)</td>
<td>7826.699</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
<td>7826.790</td>
<td>7826.609</td>
</tr>
</tbody>
</table>

\(^1\)Delivery times available on request.

---

**Variant 2:**
Ventilation holes (Ø 5 mm) are incorporated all-round into the 97 mm high roof plate. In conjunction with the vented glazed and sheet steel door, the roof plate matches the door design to perfection.

**Material:**
Sheet steel

**Colour:**
RAL 7035

---

For enclosures | Model No. DK
--- | ---

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>600</td>
<td>7826.866</td>
</tr>
<tr>
<td>800</td>
<td>800</td>
<td>7826.886</td>
</tr>
<tr>
<td>800</td>
<td>900</td>
<td>7826.896(^1)</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
<td>7826.806(^1)</td>
</tr>
</tbody>
</table>

\(^1\)Delivery times available on request.

---

**Accessories:**
Fan mounting plate for active ventilation see page 703.

**Detailed drawing,** available on the Internet.

---

**Roof-mounted fan for DK-TS, FR(i)**
For the office sector, see page 702.

**Fan roof, modular, two-piece for DK-TS, FR(i)**
see page 705.

**Roof plates TS**
for TopTherm roof-mounted cooling units, roof-mounted fans and vent attachments TS, see page 715.

**Cooling components**
for the entire IE and IT sector, from page 628.
Roof/wall mounting

Roof

Roof mounting screw
For screw-fastening the roof plate instead of eye-bolts. With the TS 8, the contact washers for potential equalisation may be taken from the eye-bolts included with the supply of the enclosures.

Material:
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>4198.000</td>
</tr>
</tbody>
</table>

Spacers
for roof plate TS
To raise the TS 8 roof for ventilation purposes, in three different heights.
Not suitable for crane transportation!

Material:
Hexagonal sectional steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Packs of</th>
<th>Model No. SZ/DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>4</td>
<td>2422.000</td>
</tr>
<tr>
<td>20</td>
<td>4</td>
<td>2423.000</td>
</tr>
<tr>
<td>50</td>
<td>4</td>
<td>7967.000</td>
</tr>
</tbody>
</table>

Spacers
for cover plates TE
To assist passive ventilation spacers may be used to raise the cover plates.

Material:
Hexagonal sectional steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Packs of</th>
<th>Model No. TE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>4</td>
<td>7526.963</td>
</tr>
</tbody>
</table>

Note:
Spacers are already included with the supply of the TE enclosures.

Eyebolts
for CM
For crane transportation of enclosures, with reinforcement plate to be inserted underneath. Mounting via the two holes in the top of the CM.
Thread: M12

Supply includes:
Eyebolts, reinforcement plates.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2509.500</td>
</tr>
</tbody>
</table>

Eyebolts
for AE
For crane transportation of enclosures, with reinforcement plate to be inserted underneath.
Thread: M12

Supply includes:
Eyebolts, reinforcement plates.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2509.000</td>
</tr>
</tbody>
</table>
Wall mounting bracket

For the attachment of KL, EB, BG and EL enclosures as well as DK and FM wall-mounted distributors.

Supply includes:
Assembly parts for mounting on the enclosure.

Note:
For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets.

<table>
<thead>
<tr>
<th>Material</th>
<th>Wall distance mm</th>
<th>Packs of</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass, nickel-plated</td>
<td>8</td>
<td>4</td>
<td>1580.000</td>
</tr>
<tr>
<td>Sheet steel, zinc-plated, passivated</td>
<td>8</td>
<td>4</td>
<td>1590.000</td>
</tr>
<tr>
<td>Stainless steel 1.4301 (AISI 304)</td>
<td>8</td>
<td>4</td>
<td>1594.000</td>
</tr>
</tbody>
</table>

Wall mounting bracket

For the attachment of KL, EB, BG, AE, CM and EL enclosures, TP consoles as well as DK, FM wall-mounted distributors and small fibre-optic distributors.

Supply includes:
Assembly parts for mounting on the enclosure.

Note:
For hygiene reasons, and in view of the protection category, the stainless steel enclosures and TP consoles do not have any drilled holes for the wall mounting brackets.

Possible alternative:
Wall spacer bracket Hygienic Design, see page 301.

<table>
<thead>
<tr>
<th>Material</th>
<th>Wall distance (A) mm</th>
<th>Packs of</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheet steel, zinc-plated, passivated</td>
<td>40</td>
<td>1</td>
<td>2503.000</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>1</td>
<td>2508.010</td>
</tr>
<tr>
<td>Stainless steel 1.4301 (AISI 304)</td>
<td>10</td>
<td>1</td>
<td>2433.000</td>
</tr>
</tbody>
</table>

1) Without assembly parts.

Wall mounting bracket

For attachment to the wall, only possible from the outside of the enclosure.

Material:
Fibreglass-reinforced polyamide

Supply includes:
Assembly parts for mounting on the enclosure.

Colour | Packs of | Model No. KS/KE |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Similar to RAL 7035</td>
<td>4</td>
<td>1483.010</td>
</tr>
<tr>
<td>Similar to RAL 9011</td>
<td>4</td>
<td>9266.000</td>
</tr>
</tbody>
</table>

1) With graphite additive for Ex applications.
Roof/wall mounting

Wall mounting

Wall angle
For compact enclosures (additional holes required in the enclosure).

<table>
<thead>
<tr>
<th>Material</th>
<th>Colour</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheet steel</td>
<td>RAL 7035</td>
<td>1</td>
<td>2505.500</td>
</tr>
<tr>
<td>Stainless steel 1.4301 (AISI 304)</td>
<td>–</td>
<td>1</td>
<td>2583.000</td>
</tr>
</tbody>
</table>

Wall bracket
For wall attachment of TS and ES enclosures at the roof, e.g. with heavy components on the door or built-in swing frame.

Material:
Sheet steel, zinc-plated, passivated

Possible alternative:
With TS 8 inside the enclosure (without mounting plate), baying bracket TS 8800.470, see page 931.

Wall mounting bracket
for CS wall-mounted enclosures
For mounting on a wall or panel.

Material:
Stainless steel 1.4301 (AISI 304)

Pole clamp
For reliable, convenient fastening to round or square poles.

For pole diameter/size:
Ø from 40 to 190 mm
□ from 50 to 150 mm

Material:
Mounting angles, clamping section: Sheet steel, zinc-plated, passivated
Clamping strap: Stainless steel 1.4301 (AISI 304)

For KL, EB, BG, AE, KS
Supply includes:
2 mounting angles, 600 mm long,
4 clamping sections,
2 clamping straps,
4 clamping brackets,
4 screws and nuts M8 for attachment to the enclosure.

For CS wall-mounted enclosures
Supply includes:
4 clamping sections,
2 clamping straps,
4 clamping brackets.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
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<table>
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<tbody>
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<td>1 set</td>
<td>9765.125</td>
</tr>
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</table>
**Enclosure connectors**

**adjustable**
Between Command Panels, terminal boxes, compact enclosures and horizontal or vertical surfaces. Pre-mount the connector halves on both sides, screw together and secure with a locking screw, and/or adjust the angle of rotation.

**Rotation range:**
±105° with 7.5° stepped increments.

**Material:**
Die-cast zinc, powder-coated

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts for both sides.

---

**Frame connector, adjustable**
for Comfort Panel
Between the operating and keyboard housing and horizontal or vertical surfaces.

**Rotation range:**
Adjustable via teeth in 8° increments, see drawing.

**Material:**
Die-cast zinc, powder-coated

**Colour:**
RAL 7024

**Supply includes:**
Assembly parts and clamping levers for both sides.

---

**Wall mounting bracket**
vertically hinged
Between the Compact Panel and horizontal or vertical surfaces.

**Rotation range:**
180° adjustable on a 7.2° pitch pattern.

**Material:**
Wall mounting bracket: Sheet steel
Knurled screw: Steel with plastic knurled handle

**Supply includes:**
Locking screw and assembly parts for mounting on the Compact Panel.
Mounting plates

**Mounting plates for KL**
For component installation outside of the enclosure. Assembly screws included as accessories with the enclosure.

**Material:**
Sheet steel, 2 mm, zinc-plated, passivated

**For size** | **For Model No. KL** | **Dimensions in mm** | **Model No. KL**
--- | --- | --- | ---
150 x 150 | 1500.510, 1514.510, 1521.010 | 135 125 – | 1560.700
200 x 150 | 1528.510, 1529.510 | 185 125 – | 1575.700
300 x 150 | 1501.510, 1515.510, 1522.010, 1530.510 | 285 125 – | 1561.700
400 x 150 | 1589.510 | 385 125 – | 1576.700
200 x 200 | 1502.510, 1516.510, 1523.010 | 185 175 50 | 1562.700
300 x 200 | 1503.510, 1517.510, 1524.010, 1531.510 | 285 175 50 | 1563.700
400 x 200 | 1504.510, 1518.510, 1525.010, 1532.510 | 385 175 50 | 1564.700
500 x 200 | 1505.510, 1533.510 | 485 175 50 | 1565.700
600 x 200 | 1506.510, 1519.510, 1534.510 | 585 175 50 | 1566.700
800 x 200 | 1527.510, 1542.510 | 785 175 50 | 1574.700
300 x 300 | 1507.510, 1526.010, 1535.510 | 285 275 50 | 1567.700
400 x 300 | 1508.510, 1536.510 | 385 275 50 | 1568.700
500 x 300 | 1509.510, 1537.510 | 485 275 50 | 1569.700
600 x 300 | 1510.510, 1538.510 | 585 275 50 | 1570.700
400 x 400 | 1511.510, 1539.510 | 385 375 62.5 | 1571.700
600 x 400 | 1512.510, 1540.510 | 585 375 62.5 | 1572.700
800 x 400 | 1513.510, 1541.510 | 785 375 62.5 | 1573.700

**Mounting plate for Premium Line KL**
For installing at a distance from the rear panel.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Spacer bolts and assembly parts.

**For KL enclosures** | **W (B) mm** | **H mm** | **Packs of** | **Model No. KL**
--- | --- | --- | --- | ---
1024.010 1024.020 | 100 100 | 1 | 1024.910
1024.030 | 250 150 | 1 | 1024.920
1024.040 | 350 250 | 1 | 1024.930

**Mounting plate attachment**

**Spacer bolts**
M5 x 15
Mounting plates

Mounting plate attachment
For additional clamping and to reduce potential vibration of the mounting plate. Select according to mounting position, installation type and enclosure.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

For TS
Installation options:
● Side
● Rear, flush with enclosure frame

Advantage:
No impairment to the mounting surface, but mounting is only possible from the enclosure rear.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Packs of 10
Model No. TS 8800.630

Accessories:
Mounting plate infill, see page 981.

For TS
Installation options:
● Side
● Rear, flush with enclosure frame

Advantage:
No impairment to the mounting surface, but mounting is only possible from the enclosure rear.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Packs of 10
Model No. TS 8800.610

Also required:
Punched section with mounting flange 17 x 73 mm for the inner mounting flange, see page 993 (with Fig. 3).

For TS
Installation options:
● Side
● Rear, flush with enclosure frame

Advantage:
No impairment to the mounting surface, but mounting is only possible from the enclosure rear.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Packs of 10
Model No. TS 8800.090

Accessories:
Mounting plate in a set forward position, either attached or screw-fastened (not shown).

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Packs of 10
Model No. TS 8800.050

For TS
Installation options:
● Side
● Rear, flush with enclosure frame

Slide over the plate at the side and secure with screws. Additionally, the mounting plate may be drilled and screw-fastened at the rear C-edge.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.
Mounting plate attachment
For additional clamping and to reduce potential vibration of the mounting plate. Select according to mounting position, installation type and enclosure.

For TS, ES
Installation options:
● All-round
● Set forward on a 25 mm pitch pattern
Slide in between the bar and plate from below or above or from the side, and secure with screws.

For TS, ES
Installation options:
● On the top and bottom of the mounting plate (with ES all-round)
● Rear, flush with enclosure frame
Screw in the clip behind the plate and secure with screws.

Installation kit
For mounting plates TS, back-to-back
Thanks to a minimum distance between the two mounting plates, a maximum installation depth is achieved for installed equipment on both sides.

Material:
Sheet steel, zinc-plated, passivated

Note:
Build height front and rear with central installation = (enclosure depth minus 48 mm) : 2
For example:
TS 8806.521 = depth 600 mm
Build depth = 2 x 276 mm

Self-tapping screws
Order information may be found on page 1011.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>4593.000</td>
</tr>
</tbody>
</table>

Also required:
Support strip (with TS for inner level), see page 997 or punched section with mounting flange (with TS for inner level), see page 993 or punched rails and punched sections, see page 998.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Packs of</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>8806.280</td>
</tr>
</tbody>
</table>

Rittal service:
Enclosures with 2 mounting plates (mounted in the centre unless otherwise specified) and door(s) on both sides may be ordered as complete units.
Model No.: TS 8xxx.521
Sealing frame for through-panel mounting
of the heat sinks of frequency converters

Where the ambient air is cool and clean, through-panel mounting is a very efficient way of dissipating a significant proportion of the heat losses from the enclosure.

Applications:
- In modern drive technology for through-panel mounting the heat sinks of frequency converters, line reactors, braking resistors or other components with external cooling sections
- For recessed installation of the main switch
- For protected mounting of command panels

Installation: Between a cut-out in the rear panel of the enclosure and the mounting plate. Different sizes of sealing frame are used depending on the number of frequency converters.

Function principle:
The heat sinks of frequency converters suitable for through-panel mounting are effectively relocated outside the enclosure. The majority of the heat loss can then be dissipated without affecting the interior climate.

The sealing frame is screw-fastened to the wall or door using studs. On the other side, the seal presses against the rear of the set-forward mounting plate or a partial mounting plate for the master switch.

Material:
Sheet steel, spray-finished in RAL 7035

Protection category:
IP 54 (if mounted correctly)

Supply includes:
Seals and assembly parts.

<table>
<thead>
<tr>
<th>Model No. SZ</th>
<th>For installing in enclosure width/depth mm</th>
<th>External dimensions of sealing frame mm</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>2390.000</td>
<td>600 465 x 635 x 75</td>
<td>1</td>
<td></td>
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<tr>
<td>2390.010</td>
<td>600 465 x 635 x 100</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2390.020</td>
<td>800 665 x 635 x 75</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2390.030</td>
<td>800 665 x 635 x 100</td>
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<td></td>
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<td>2390.040</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>2390.060</td>
<td>1200 1065 x 635 x 75</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2390.070</td>
<td>1200 1065 x 635 x 100</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Mounting plate infill
for TS
For a continuous mounting surface in bayed suites where the mounting plate is set forward.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Model No. TS</th>
<th>For enclosure height mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4590.700</td>
<td>1800</td>
</tr>
<tr>
<td>4591.700</td>
<td>2000</td>
</tr>
<tr>
<td>4592.700</td>
<td>2200</td>
</tr>
</tbody>
</table>
**Mounting plates**

**Mounting plate slide block**

*for CM*

In this way, populated mounting plates slide easily into the mounting position for installation and/or clip-fastening.

**Benefits:**
- Installation without drilling
- Simply screw-fasten to the existing holes in the mounting plate
- May be reused, unscrew to detach

**Material:**
Polyamide

**Colour:**
Similar to RAL 9011

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5001.070</td>
</tr>
</tbody>
</table>

**Slide rails**

*for insertion of mounting plate into TS enclosure*

Slides in from the side.
- Attachment of the mounting plate to the slide rails via captive nuts and screws.
- Mounting of the slide rails directly on the enclosure frame, depth-adjustable on a 25 mm pitch pattern.
- Possible mounting depth T 6 – 25 mm (see page 1184).

**Material:**
Sheet steel

**Surface finish:**
Zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>2</td>
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<tr>
<td>800</td>
<td>2</td>
<td>8802.280</td>
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<tr>
<td>1000</td>
<td>2</td>
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<tr>
<td>1200</td>
<td>2</td>
<td>8882.220</td>
</tr>
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</table>

**Rittal service:**

To order TS enclosures (see page 138 – 147) with fitted slide rails and wide mounting plate (overall width B1 + 2 mm, see page 1184), please add the extension .570 to the Model No.

Delivery times on request.

**Mounting plate adjustment bracket**

*for KS*

Infinitely adjustable.

Other equipment can also be installed in this way, instead of the mounting plate.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

- **Enclosure width:**
  - 76 mm (KS 1481.000)
  - 104 mm (KS 1491.000)

- **Enclosure height:**
  - 150 mm
**Mounting plate attachment**

**for CM**

For heavy dynamic loads

For example, if the accompanying enclosures (crane systems, etc.) have to make a direct connection with the wall/support mounting plates as well as an additional connection between the mounting plate and the enclosure in stand-alone versions, i.e. on a base/plinth.

Tested as per DIN EN 60 721 severity 4M4, with a weight of 150 kg evenly distributed over the mounting plate.

Simply screw-fasten to the existing holes in the mounting plate to pre-assemble for:

- **Wall-mounted from the inside**
  Direct using a bracket and wall/support-mounted enclosure.

- **Wall-mounted from the outside**
  Screws for wall mounting brackets (see page 975) can easily be screwed into the plate nuts from the outside.

**Material:**

Sheet steel

**Surface finish:**

Zinc-plated, passivated

**Supply includes:**

Assembly parts.

---

**Cross-brace for mounting plates**

**for TS, ES**

Additional horizontal rigidity for vibration resistance and/or stabilisation of wide mounting plates. This brace may also be used as an attachment aid for heavy components.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

- 2 sections,
- 4 clamps,
- 4 grub screws M10 x 16 mm.

---

**Transport handles for mounting plates**

**for TS, ES**

May be used at any given position in the side C-fold.

Benefits include:

- Can be used for people of different heights
- Optimised force transmission
- Easy handling

---

### Mounting plates

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CM</th>
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</table>

### Cross-brace for mounting plates

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<tr>
<td>1200</td>
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Other widths available on request.

### Transport handles for mounting plates

<table>
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<tbody>
<tr>
<td>2</td>
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</tbody>
</table>
Partial mounting plates
for TS, Toptec CR

For:
- Universal interior installation, also in conjunction with punched sections with mounting flanges and support strips. Defective assemblies are quickly and easily replaced.
- Additional mounting levels.

Partial mounting plates are fastened directly onto the vertical enclosure sections via the inner mounting level using the assembly parts supplied loose. In this mounting position (in both the width and the depth) they form one level with TS punched sections with mounting flanges 17 x 73 mm and TS support strips for the inner mounting level.

Material:
Sheet steel, 2.5 mm, zinc-plated, passivated

Supply includes:
Assembly parts.

Accessories:
- TS punched section with mounting flange 17 x 73 mm for the outer mounting level, see page 993.
- TS support strip, see page 997.
- Hinge attachment, see page 985.
- Self-tapping screws, SZ 2487.000, see page 1011.

Table: For installation in

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Enclosure depth (side) mm</th>
<th>Size</th>
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<td></td>
<td>1100</td>
<td>500</td>
<td>1 8614.260</td>
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</table>

(1) Also suitable for installing in:
- PC enclosures based on TS behind the lower front door
- IW enclosures, height 900 and 1000 mm

When installing around corners due to collision between the assembly components:
1. At least 75 mm (adjustable on a 25 mm pitch pattern).

Maximum space utilisation:
2. 1 mm (adjustable on a 25 mm pitch pattern).

Set forward installation position:
Quickly and easily achieved with four TS punched sections with mounting flanges 17 x 73 mm for the outer mounting level, see page 993.

Partial installation:
Partial utilisation of the enclosure depth or width is also possible. In this example, using a PS punched section without mounting flange 23 x 73 mm, see page 998.

Continuously flush:
In bayed enclosures, the partial mounting plate is in the rearmost position flush with the standard mounting plate. This facilitates continuous component mounting.
Hinge attachment
for partial mounting plate TS

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Examples
In the highest or lowest position
Front
Set back

In a central position
Front
Set back

Side installation

Partial mounting plates
for ES, CS Basic and modular enclosures
For additional mounting levels.

Material:
Sheet steel 2.5 mm, zinc-plated

Supply includes:
Assembly parts.

Also required:
Depending on the installation position
Installation kit for swing frame, small, for enclosure width
600 mm, Model No. SR 2377.860,
800 mm, Model No. SR 2377.880,
see page 1080.

PS punched section without mounting flange
23 x 73 mm according to the enclosure depth,
see page 998.

Support brackets TS 8800.330,
see page 1007.

Side installation:
In conjunction with hinge, for side panel,
see page 918, for an enclosure depth of 600 or
800 mm, side installation is identical to installation
parallel to the front.

Partial mounting plates
for ES, CS Basic and modular enclosures
For additional mounting levels.

Material:
Sheet steel 2.5 mm, zinc-plated

Supply includes:
Assembly parts.

Also required:
PS punched section with mounting flange
23 x 73 mm,
see page 999.
Self-tapping screws, SZ 2487.000,
see page 1011.
Interior installation

Mounting plates

Partial mounting plates, locatable into rails
for TP
For installation in:
● Console and desk unit on the interior installation system rails
● Punched sections with mounting flanges or support strips fitted to the side of the pedestal in the depth
● Other enclosures mounted on rails with 25 mm pitch pattern punchings
For easy mounting on pre-fitted assembly screws. Can be bayed using the side screws.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Packs of</th>
<th>Model No. TP</th>
</tr>
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</tr>
<tr>
<td>700</td>
<td>435</td>
<td>1</td>
<td>6730.340</td>
</tr>
</tbody>
</table>

For console/desk unit
Max. partial mounting plate installation

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Packs of</th>
<th>Model No. TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1 x TP</td>
<td>6730.330</td>
</tr>
<tr>
<td>800</td>
<td>1 x TP</td>
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<td>6730.340</td>
</tr>
<tr>
<td>1600</td>
<td>3 x TP</td>
<td>6730.330</td>
</tr>
</tbody>
</table>

Support rail, locatable
for TS, CM, PC-TS, TP
To fit:
● Internal mounting behind the mounting compartment, small, of the PC enclosure,
● Mounting on the vertical TS enclosure section,
● Mounting in CM and TP on a rail for internal installation.
Integral 25 mm pitch pattern of holes to accommodate:
– Mounting plate, small
– PS punched section without mounting flange via support brackets PS as a second mounting level if due to an installed:
– Mounting plate infill
– Cable duct, vertical
no punched sections or other assemblies can be mounted in the depth.
Static load: Max. 15 kg

Material:
Sheet steel 2.0 mm, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>8612.200</td>
</tr>
</tbody>
</table>

Accessories:
PS punched section without mounting flange, see page 998.

Mounting plate, small
For external mounting on:
● Support rail TS, locatable, depth-adjustable on a 25 mm pitch pattern,
● Punched sections with mounting flanges, attached to the outer mounting level.

Material:
Sheet steel 1.5 mm, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
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<tbody>
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<tr>
<td>800</td>
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</tbody>
</table>

Accessories:
TS punched section with mounting flange, see page 993.
Self-tapping screws, SZ 2487.000, see page 1011.
Mounting plates

Mounting plate
for TS, 400 mm wide
depth-adjustable on a 25 mm pitch pattern,
Material:
Sheet steel, 3 mm, zinc-plated, passivated
Supply includes:
Assembly parts.

Accessories:
TS 18 x 38 mm punched rail, used as mounting plate slide rail, see page 996.
TS width divider, for installation in wider enclosures, see page 909.

<table>
<thead>
<tr>
<th>For enclosure height mm</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800</td>
<td>8614.180</td>
</tr>
<tr>
<td>2000</td>
<td>8614.200</td>
</tr>
</tbody>
</table>

Mounting plates
for Toptec CR, CS Basic and modular enclosures
For the configuration of mounting levels.
The mounting plates are depth-adjustable on a 25 mm pitch pattern.
Material:
Aluminium, 3 mm
Supply includes:
Assembly parts.

Note:
For an enclosure width of 1200 mm partial installation with one or two 600 mm wide mounting plates is possible.

Accessories:
Mounting kit for Toptec CR, see page 987.

<table>
<thead>
<tr>
<th>For enclosure</th>
<th>F</th>
<th>G</th>
<th>Model No. CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>Height mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>800</td>
<td>499</td>
<td>696</td>
</tr>
<tr>
<td>600</td>
<td>1000</td>
<td>499</td>
<td>896</td>
</tr>
<tr>
<td>600</td>
<td>1200</td>
<td>499</td>
<td>1096</td>
</tr>
<tr>
<td>600</td>
<td>1400</td>
<td>499</td>
<td>1296</td>
</tr>
<tr>
<td>800</td>
<td>800</td>
<td>699</td>
<td>696</td>
</tr>
<tr>
<td>800</td>
<td>1000</td>
<td>699</td>
<td>896</td>
</tr>
<tr>
<td>800</td>
<td>1200</td>
<td>699</td>
<td>1096</td>
</tr>
<tr>
<td>800</td>
<td>1400</td>
<td>699</td>
<td>1296</td>
</tr>
<tr>
<td>800</td>
<td>1600</td>
<td>699</td>
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</tr>
<tr>
<td>1200</td>
<td>800</td>
<td>1099</td>
<td>696</td>
</tr>
<tr>
<td>1200</td>
<td>1200</td>
<td>1099</td>
<td>1096</td>
</tr>
<tr>
<td>1200</td>
<td>1400</td>
<td>1099</td>
<td>1296</td>
</tr>
</tbody>
</table>

(1) Delivery times available on request.

Mounting kit
for Toptec CR
For the attachment of mounting plates or swing frames in the enclosure depth.
Material:
Sheet steel, zinc-plated, passivated
Supply includes:
1 set =
2 punched rails and 2 mounting brackets, assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>9765.155</td>
</tr>
</tbody>
</table>

Rittal Catalogue 32/System accessories

987
**Interior installation**

**Installation examples TS 8 enclosure system**

**Overview of TS installation systems**

**Clearance width**
Depending on attachment, the following values apply to the clearance between the mounting levels:
- Outer mounting level = Enclosure width and depth minus 42 mm
- Inner mounting level = Enclosure width and depth minus 88 mm

**Cover installation**

Installation with:
- PS punched section with mounting flange
- PS punched section without mounting flange
- TS punched rail in three mounting variants
- TS punched rails
- TS punched sections without mounting flanges
- TS punched sections with mounting flanges

**TS 8 rails**
for the outer level

- TS punched sections with mounting flanges
- TS mounting bar
- TS punched rail
  Benefits:
  - Largest clearance width
  - May be installed directly, on one level all round

**TS 8 rails, PS rail**
for the inner level

- TS punched sections with mounting flanges
- TS mounting bar
- PS punched section without mounting flange, with support bracket TS
  Benefits:
  - Use of a second level
  - Height-offset mounting all-round

**With adaptor rail**
for PS compatibility

On one level all round with:
- PS punched section without mounting flange, with support bracket PS
- PS punched rail with angle bracket, mounting bracket or support bracket PS

**With adaptor rail**
for PS compatibility

Height-offset in the width and depth with:
- PS punched section with mounting flange
- PS punched rail with mounting bracket
- TS punched rail

**Base installation**

Installation with:
- Cable clamp rails
- C rails 30/15 with bracket/spacer
- System support rails
- Support rail
- TS punched rails
Interior installation

Installation examples TS 8 enclosure system

Cover installation

Punched sections and rails may be mounted on the horizontal enclosure sections in both the width and depth.

Base installation

Punched sections and rails may be mounted on the horizontal enclosure sections in both the width and depth.
Interior installation

Installation examples TS 8 enclosure system

Attachment may be made at any point in the TS 8 enclosure space. Not only with horizontal rail installations directly between the TS sections, but by combining vertical and horizontal rails, any given mounting level in the width, height and depth may be achieved.

Vertical mounting levels – PS compatible

The basis for a second mounting level across the entire enclosure height is quickly achieved, e.g. with two PS punched sections without mounting flanges 23 x 73 mm 9. Between these two sections, configuration may be achieved with PS punched rails 10, 11 and 13, with PS punched sections without mounting flanges 9 and PS punched sections with mounting flanges 12. When using the adaptor rail for PS compatibility 8, installation is easily achieved across a suitable sub-height, or with suitable enclosure dimensions, across a sub-width or sub-depth.

Installation accessories (Consecutive numbering in accordance with diagram on page 989)

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>993</td>
<td>TS punched section with mounting flange 23 x 73 mm for the inner level</td>
</tr>
<tr>
<td>998</td>
<td>PS punched section without mounting flange 23 x 73 mm with support bracket TS (alternatively with one or two punched rails 23 x 23 mm)</td>
</tr>
<tr>
<td>997</td>
<td>Adaptor rail for PS compatibility</td>
</tr>
<tr>
<td>998</td>
<td>PS punched section without mounting flange 23 x 73 mm, with support bracket PS</td>
</tr>
<tr>
<td>998</td>
<td>PS punched rail 23 x 23 mm with angle bracket</td>
</tr>
<tr>
<td>998</td>
<td>PS punched rails 23 x 23 mm with support bracket PS (alternatively with one or two punched rails 23 x 23 mm)</td>
</tr>
<tr>
<td>999</td>
<td>PS punched section with mounting flange, 23 x 73 mm</td>
</tr>
<tr>
<td>998</td>
<td>PS punched rail 23 x 23 mm with support bracket</td>
</tr>
</tbody>
</table>

If PS punched rails or PS punched sections without mounting flanges are installed vertically on roof or base frames, a PS rail is also required for horizontal sub-division.
**Vertical outer mounting level**

Optimum space utilisation and super-fast assembly by mounting the TS punched section with mounting flange directly onto the outer level of the TS 8 vertical section. Simply snap into position and secure!

**Installation accessories**
(Consecutive numbering in accordance with diagram on page 989)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TS punched section with mounting flange 17 x 73 mm for the outer level</td>
<td>993</td>
</tr>
<tr>
<td>2</td>
<td>TS support strip for the outer level</td>
<td>997</td>
</tr>
<tr>
<td>3</td>
<td>TS punched rail 18 x 38 mm for the ● outer level ● horizontal enclosure sections ● adaptor rail for PS compatibility</td>
<td>996</td>
</tr>
<tr>
<td>4</td>
<td>TS punched section with mounting flange 17 x 73 mm for the inner level</td>
<td>993</td>
</tr>
</tbody>
</table>

1) Two TS punched rails 18 x 38 mm are included in the supply of enclosures with a mounting plate. After installing the mounting plate, the TS punched rail may be inserted, as shown here.

---

**Vertical inner mounting level**

Separate utilisation of the inner level of the TS 8 vertical section, irrespective of the outer level, creates additional opportunities. Even in one enclosure, all installation systems may complement one another perfectly for brand new, customer-specific solutions. Endless possibilities! Simply snap into position, secure, and voilà! Super-fast assembly by mounting the TS punched section with mounting flange directly onto the inner level of the TS 8 vertical section.

**Installation accessories**
(Consecutive numbering in accordance with diagram on page 989)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TS punched section with mounting flange 17 x 73 mm for the outer level</td>
<td>993</td>
</tr>
<tr>
<td>4</td>
<td>TS punched section with mounting flange 17 x 23 mm for the inner level</td>
<td>993</td>
</tr>
<tr>
<td>5</td>
<td>TS support strip for the inner level</td>
<td>997</td>
</tr>
<tr>
<td>9</td>
<td>PS punched section without mounting flange 23 x 73 mm, with support bracket PS</td>
<td>998</td>
</tr>
</tbody>
</table>

German patent no. 196 47 802
### Rail systems

**Rails for interior installation**

For mounting on the existing threaded bolts. With TS system punchings on three sides.

**Material:** Sheet steel, zinc-plated, passivated

**Supply includes:** Assembly parts.

### Installation accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>For CM and TP pedestal</th>
<th>For depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>8612.130</td>
<td>8612.140</td>
<td>8612.150</td>
</tr>
<tr>
<td>8612.060</td>
<td>8612.080</td>
<td>8612.000</td>
</tr>
<tr>
<td>8612.020</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For CM and TP pedestal</th>
<th>For width mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>8612.130</td>
<td>8612.140</td>
</tr>
<tr>
<td>8612.150</td>
<td>4694.000</td>
</tr>
<tr>
<td>–</td>
<td>8612.240</td>
</tr>
<tr>
<td>–</td>
<td>4695.000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For TP console and desk unit (except cover for height 650 mm)</th>
<th>May be installed in depth or height</th>
</tr>
</thead>
<tbody>
<tr>
<td>8612.140</td>
<td>993</td>
</tr>
<tr>
<td>4694.000</td>
<td>997</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For TP console (only cover for height 650 mm)</th>
<th>May be installed in the height</th>
</tr>
</thead>
<tbody>
<tr>
<td>8612.140</td>
<td>993</td>
</tr>
<tr>
<td>4694.000</td>
<td>997</td>
</tr>
</tbody>
</table>

### Compact system enclosures CM/TP pedestal

For TP console and desk unit (cover or rear panel/base)
**TS punched section with mounting flange, 17 x 73 mm**

Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate into the TS punchings and secure.

**Installation options:**
- On the vertical TS enclosure section
  - On the outer mounting level, all-round, at the same height
  - On the inner mounting level, all-round, height-offset
- In CM via rail for interior installation
  - In the depth, for outer mounting level
  - In the width, for inner mounting level

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

**German patent no. 196 47 802**

⚠️ **Also required:**
For installation in CM, TP:
- Rail for interior installation, see page 992.

**Accessories:**
- Screws, see page 1011.
- Cable tie for quick assembly SZ 2597.000, see page 1066.

**Attachment TS**
for TS punched section with mounting flange, 17 x 73 mm

**Benefits:**
- For attaching the TS punched section with mounting flange where installed equipment, such as mounting plates, blocks access to the screw fastening.
- May also be screw-fastened onto the punched section with mounting flange or enclosure frame and used as a support for contact hazard protection covers of master switch trim panels.

**Material:**
Sheet steel

**Surface finish:**
Zinc-plated, passivated

---

### For the outer mounting level

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>4</td>
<td>8612.130</td>
</tr>
<tr>
<td>400</td>
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<td>1000</td>
<td>4</td>
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</tr>
<tr>
<td>1200</td>
<td>4</td>
<td>8612.120</td>
</tr>
</tbody>
</table>

⚠️ **Note:**
In conjunction with plug-in side panels, notched punched sections are required.

### For the inner mounting level

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
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<tr>
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<td>8612.040</td>
</tr>
<tr>
<td>500</td>
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<tr>
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</tr>
<tr>
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<td>4</td>
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<tr>
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<td>8612.090</td>
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<td>4</td>
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---

### Attachment TS

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>8612.010</td>
</tr>
</tbody>
</table>

---

**Rittal Catalogue 32/System accessories**

993
Interior installation

Rail systems

**TS punched section with mounting flange, 17 x 73 mm**

notched version for DK-TS, FR(i)

For enclosures with plug-in side panels.
Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate into the TS punchings and secure.

**Installation options:**
- On the vertical TS enclosure section
- On the outer mounting level, all-round, at the same height

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

German patent no. 196 47 802

For the outer mounting level

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>4</td>
<td>7828.064</td>
</tr>
<tr>
<td>800</td>
<td>4</td>
<td>7828.084</td>
</tr>
<tr>
<td>900</td>
<td>4</td>
<td>7828.094</td>
</tr>
<tr>
<td>1000</td>
<td>4</td>
<td>7828.104</td>
</tr>
<tr>
<td>1200</td>
<td>4</td>
<td>7828.124</td>
</tr>
</tbody>
</table>

**Accessories:**

Screws, see page 1011.
Cable tie for quick assembly SZ 2597.000, see page 1066.

**For the inner mounting level**

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>900</td>
<td>4</td>
<td>7828.095</td>
</tr>
<tr>
<td>1000</td>
<td>4</td>
<td>7828.105</td>
</tr>
<tr>
<td>1200</td>
<td>4</td>
<td>7828.125</td>
</tr>
</tbody>
</table>

**TS punched section with mounting flange, 17 x 73 mm**

with slot fastening for DK-TS, FR(i)

The slot fastening facilitates fully depth-variable attachment of installation components or system accessories. In this way, any required 482.6 mm (19") distance between levels may be implemented in the field of server integration.

The sections are simply suspended from the inner TS mounting level and secured.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
1 set =
4 punched sections with mounting flange including mounting accessories for rack mounts and mounting angles.

**For the inner mounting level**

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>900</td>
<td>4</td>
<td>7828.095</td>
</tr>
<tr>
<td>1000</td>
<td>4</td>
<td>7828.105</td>
</tr>
<tr>
<td>1200</td>
<td>4</td>
<td>7828.125</td>
</tr>
</tbody>
</table>

**TS punched section with mounting flange, 17 x 73 mm**

depth-variable for mounting frames

DK-TS, FR(i), TE

For designing flexible interior installation, and/or to accommodate additional built-in components.

The punched sections with mounting flanges may be located in the enclosure depth between two mounting frames. An additional screw fastening secures the unit.

The depth variability of the rails facilitates flexible adaptation of their length to the existing attachment distance between the two 482.6 mm (19") mounting frames. An additional punched section centre piece may be slid flexibly along the rail in the depth and secured to slots. This facilitates flexible attachment at any point between the mounting frames in the enclosure depth.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
2 variable punched sections with mounting flanges, including one sliding centre part each, including assembly parts.

<table>
<thead>
<tr>
<th>Length mm&lt;sup&gt;1)&lt;/sup&gt;</th>
<th>Packs of</th>
<th>Model No. TE</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 – 470&lt;sup&gt;2)&lt;/sup&gt;</td>
<td>2</td>
<td>7000.676</td>
</tr>
<tr>
<td>530 – 700&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>2</td>
<td>7000.678</td>
</tr>
</tbody>
</table>

<sup>1)</sup>Distance between 19" levels = length + 120 mm
<sup>2)</sup>L < 420 mm, without centre piece
**TS punched section with mounting flange 23 x 73 mm**

The alternative to the TS punched section with mounting flange 17 x 73 mm, see page 993, with punchings for captive nuts/threaded blocks instead of the slotted holes top and bottom. Simply locate and secure.

**Installation options:**
- On the vertical TS enclosure section

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

### For the inner mounting level

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>4</td>
<td>8612.550</td>
</tr>
<tr>
<td>600</td>
<td>4</td>
<td>8612.560</td>
</tr>
<tr>
<td>800</td>
<td>4</td>
<td>8612.580</td>
</tr>
<tr>
<td>1000</td>
<td>4</td>
<td>8612.590</td>
</tr>
<tr>
<td>1200</td>
<td>4</td>
<td>8612.520</td>
</tr>
</tbody>
</table>

**Accessories:**
Screws, see page 1011. Threaded blocks, captive nuts, see page 1010.

**TS punched section without mounting flange 45 x 88 mm**

Heavy top-mounted equipment mounted directly on the internal surfaces (e.g. roof) is supported. Mounted on the side or rear, the enclosure can then be screw-fastened securely to the machine. The twin profile with 11 rows of holes offers numerous additional opportunities for interior installation.

**Installation options:**
- On the vertical and horizontal TS enclosure section

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

### For enclosure width/depth mm

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>2</td>
<td>8612.650</td>
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<tr>
<td>600</td>
<td>2</td>
<td>8612.660</td>
</tr>
<tr>
<td>800</td>
<td>2</td>
<td>8612.680</td>
</tr>
</tbody>
</table>

**Side punchings**

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>398</td>
<td>375</td>
<td>350</td>
</tr>
<tr>
<td>600</td>
<td>498</td>
<td>475</td>
<td>450</td>
</tr>
<tr>
<td>800</td>
<td>698</td>
<td>675</td>
<td>650</td>
</tr>
</tbody>
</table>
TS punched rail 25 x 38 mm
For heavy installations, with attachment holes.

Installation options:
- On the vertical TS enclosure section
- With 9 mm round holes on a 25 mm pitch pattern on all sides, for mounting:
  - Support rails, see page 1001
  - System support rails, see page 1000
  - C rails 30/15, see page 999
  - Cable clamp rails (right angle section), see page 1061
  - Own assemblies

Material:
Sheet steel 3.0 mm, zinc-plated, passivated

Supply includes:
Assembly screws.

TS punched rail 18 x 38 mm
Simply locate and secure with a screw. The location system makes assembly and dismantling easier. It only needs to be secured on one side, but may be secured on both sides if required.

Installation options:
- On the vertical TS enclosure section
- On the outer mounting level
- On the horizontal TS enclosure section

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly screws.

Note:
In enclosures with a mounting plate, 2 punched rails are already included with the supply.

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>2</td>
<td>8612.740</td>
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<td>600</td>
<td>2</td>
<td>8612.760</td>
</tr>
<tr>
<td>800</td>
<td>2</td>
<td>8612.780</td>
</tr>
</tbody>
</table>

Also required:
Snap-on nut M8, TS 8800.808, see page 1005.

Note:
In conjunction with the snap-on nut, particularly well-suited for dynamic connections.

German patent no. 197 37 673
European patent no. 0 940 067
with validity for FR, GB, IT, SE
US patent no. 6,145,943
Chinese patent no. ZL 971 995 32.X
Australian patent no. 725 979

Accessories:
Screws, see page 1011.
Cable tie for quick assembly SZ 2597.000, see page 1066.
Cable clamps, see page 1064.
TS support strips

**Installation options:**
- On the vertical and horizontal TS enclosure section
  - On the outer mounting level, all-round, at the same height
  - On the inner mounting level, all-round, height-offset
- On the tubular door frame TS, ES
- On the perforated door strip CM, TP
- On the ES system punchings, in the enclosure depth

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

---

**For the outer mounting level**

<table>
<thead>
<tr>
<th>Model No. TS</th>
<th>Length mm</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>8800.125</td>
<td>300</td>
<td>20</td>
</tr>
<tr>
<td>4694.000</td>
<td>400</td>
<td>20</td>
</tr>
<tr>
<td>4695.000</td>
<td>500</td>
<td>20</td>
</tr>
<tr>
<td>4696.000</td>
<td>600</td>
<td>20</td>
</tr>
<tr>
<td>4697.000</td>
<td>800</td>
<td>20</td>
</tr>
</tbody>
</table>

---

**For the inner mounting level and for mounting on doors**

<table>
<thead>
<tr>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4594.000</td>
</tr>
<tr>
<td>4595.000</td>
</tr>
<tr>
<td>4596.000</td>
</tr>
<tr>
<td>8800.130</td>
</tr>
<tr>
<td>4598.000</td>
</tr>
<tr>
<td>4579.000</td>
</tr>
<tr>
<td>4599.000</td>
</tr>
</tbody>
</table>

---

**TS assembly block**

Installation in the vertical TS enclosure sections for mounting PS-compatible individual components.

**Material:**
Die-cast zinc

**Supply includes:**
Assembly screws.

---

**For the outer mounting level**

<table>
<thead>
<tr>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8800.310</td>
</tr>
</tbody>
</table>

---

**Accessories:**

Snap-on nut, see page 1005.

---

**Adaptor rail**

**for PS compatibility**

Installation in the vertical TS enclosure sections (across the entire enclosure height or in subsections) to create compatibility with:
- PS punched rail, 23 x 23 mm
- PS punched section without mounting flange, 23 x 73 mm
- PS punched section with mounting flange, 23 x 73 mm

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

**German patent no. 19 647 781**
**European patent no. 0 939 990**
with validity for FR, GB, IT, SE
**US patent no. 6,206,494**
**Australian patent no. 727 880**
**Chinese patent no. ZL 971 997 31.4**

---

**For the outer mounting level**

<table>
<thead>
<tr>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8800.380</td>
</tr>
<tr>
<td>8800.300</td>
</tr>
<tr>
<td>8800.320</td>
</tr>
</tbody>
</table>

---

**Accessories:**

Snap-on nut, see page 1005.

---

**Possible alternative:**

Snap-on nut, see page 1005.
PS punched rails
23 x 23 mm
for TS, ES

Installation options:
● On the vertical enclosure section
  – Directly via support brackets TS
  – Via adaptor rail for PS compatibility in conjunction with angle brackets, mounting brackets or support brackets PS
● On the horizontal enclosure section
  – Directly via angle brackets, mounting brackets or support brackets PS

Material:
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Length mm</th>
<th>For WHD mm</th>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>295</td>
<td>400</td>
<td>12</td>
<td>4169.000</td>
</tr>
<tr>
<td>395</td>
<td>500</td>
<td>12</td>
<td>4170.000</td>
</tr>
<tr>
<td>495</td>
<td>600</td>
<td>12</td>
<td>4171.000</td>
</tr>
<tr>
<td>695</td>
<td>800</td>
<td>12</td>
<td>4172.000</td>
</tr>
<tr>
<td>895</td>
<td>1000</td>
<td>12</td>
<td>4173.000</td>
</tr>
<tr>
<td>1095</td>
<td>1200</td>
<td>6</td>
<td>4174.000</td>
</tr>
<tr>
<td>1295</td>
<td>1400</td>
<td>6</td>
<td>4393.000</td>
</tr>
<tr>
<td>1495</td>
<td>1600</td>
<td>6</td>
<td>4175.000</td>
</tr>
<tr>
<td>1695</td>
<td>1800</td>
<td>6</td>
<td>4176.000</td>
</tr>
<tr>
<td>1895</td>
<td>2000</td>
<td>6</td>
<td>4177.000</td>
</tr>
<tr>
<td>2095</td>
<td>2200</td>
<td>6</td>
<td>4178.000</td>
</tr>
</tbody>
</table>

Also required:
U nuts, see page 1010.
Mounting brackets TS/PS, see page 1006 or angle brackets, support brackets TS/PS, see page 1007.

Accessories:
Cable attachment, see page 1066.
Screws, see page 1011.
Cable tie for quick assembly SZ 2597.000, see page 1066.

PS punched section without mounting flange
23 x 73 mm
for TS, ES

Installation options:
● On the vertical enclosure section
  – Directly via support brackets TS
  – Via adaptor rail for PS compatibility in conjunction with support brackets PS
● On the horizontal enclosure section
  – Directly via support brackets PS

Material:
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Length mm</th>
<th>For WHD mm</th>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>295</td>
<td>400</td>
<td>4</td>
<td>4374.000</td>
</tr>
<tr>
<td>395</td>
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<td>495</td>
<td>600</td>
<td>4</td>
<td>4376.000</td>
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<tr>
<td>695</td>
<td>800</td>
<td>4</td>
<td>4377.000</td>
</tr>
<tr>
<td>895</td>
<td>1000</td>
<td>4</td>
<td>4382.000</td>
</tr>
<tr>
<td>1095</td>
<td>1200</td>
<td>4</td>
<td>4378.000</td>
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<tr>
<td>1295</td>
<td>1400</td>
<td>4</td>
<td>4379.000</td>
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<td>1495</td>
<td>1600</td>
<td>4</td>
<td>4380.000</td>
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<td>1695</td>
<td>1800</td>
<td>4</td>
<td>4381.000</td>
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<tr>
<td>2095</td>
<td>2200</td>
<td>4</td>
<td>4383.000</td>
</tr>
</tbody>
</table>

Also required:
Support brackets PS/TS, see page 1007.

Accessories:
Screws, see page 1011.
Cable tie for quick assembly SZ 2597.000, see page 1066.
U nuts, see page 1010.
**PS punched section with mounting flange 23 x 73 mm**

For TS, ES
Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate into the system punchings and secure.

**Installation options:**
- On the vertical TS enclosure section
- On the horizontal TS enclosure section
- On the ES system punchings, in the enclosure depth

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

---

**C rails 30/15**

to EN 60 715

for TS, ES

**Installation options:**
- On the vertical TS enclosure section
  - Via snap-on nut TS 8800.808 (Fig. left)
  - Via adaptor rail for PS compatibility
- On the horizontal TS enclosure section (Fig. right)
- On the ES system punchings

**Material:**
Sheet steel, zinc-plated, passivated

---

**Rail systems**

**Possible alternative:**
Rail for EMC shielding bracket and strain relief, see page 1031.

---

**Installation in enclosure width/depth**

<table>
<thead>
<tr>
<th>Pack of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>8800.640</td>
</tr>
<tr>
<td>500</td>
<td>8800.650</td>
</tr>
<tr>
<td>600</td>
<td>4364.000</td>
</tr>
<tr>
<td>800</td>
<td>4365.000</td>
</tr>
<tr>
<td>1000</td>
<td>4373.000</td>
</tr>
<tr>
<td>1200</td>
<td>4367.000</td>
</tr>
</tbody>
</table>

**Installation in enclosure depth**

<table>
<thead>
<tr>
<th>Pack of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>4369.000</td>
</tr>
<tr>
<td>500</td>
<td>4370.000</td>
</tr>
<tr>
<td>600</td>
<td>4371.000</td>
</tr>
<tr>
<td>800</td>
<td>4372.000</td>
</tr>
</tbody>
</table>

---

**Accessories:**
- Cable clamps, see page 1064.
- Support bracket or spacer, see page 1008.
- Quick-assembly block, see page 1008.
- Snap-on nut M8, TS 8800.808, see page 1005.
- Adaptor rail, see page 997.

---

**Also required:**
Adaptor rail for PS compatibility (when mounting on the vertical enclosure section), see page 997.
**C rails**

**for DK-TS, CR Toptec**

For direct mounting on the vertical enclosure section.

Thanks to the universally designed attachment piece, the C rails may optionally be attached to the inner or outer level of the TS 8 frame.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>298</td>
<td>4</td>
<td>7828.040</td>
</tr>
<tr>
<td>500</td>
<td>398</td>
<td>4</td>
<td>7828.050</td>
</tr>
<tr>
<td>600</td>
<td>498</td>
<td>4</td>
<td>7828.060</td>
</tr>
<tr>
<td>800</td>
<td>698</td>
<td>4</td>
<td>7828.080</td>
</tr>
<tr>
<td>900</td>
<td>798</td>
<td>4</td>
<td>7828.090</td>
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<tr>
<td>1000</td>
<td>898</td>
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<td>7828.100</td>
</tr>
<tr>
<td>1200</td>
<td>1098</td>
<td>4</td>
<td>7828.120</td>
</tr>
</tbody>
</table>

**Accessories:**

Cable clamps, see page 1064.

---

**C rails**

**for DK-TS**

**Installation options:**

- On the horizontal enclosure sections
- On the vertical TS enclosure section via adaptor rail for PS compatibility

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>284</td>
<td>6</td>
<td>7091.000</td>
</tr>
<tr>
<td>500</td>
<td>384</td>
<td>6</td>
<td>7092.000</td>
</tr>
<tr>
<td>600</td>
<td>484</td>
<td>6</td>
<td>7095.000</td>
</tr>
<tr>
<td>800</td>
<td>684</td>
<td>6</td>
<td>7096.000</td>
</tr>
<tr>
<td>1000</td>
<td>894</td>
<td>6</td>
<td>7100.000</td>
</tr>
<tr>
<td>1200</td>
<td>1094</td>
<td>6</td>
<td>7102.000</td>
</tr>
</tbody>
</table>

**Also required:**

Adaptor rail for PS compatibility (when mounting on the vertical enclosure section), see page 997.

**Accessories:**

Cable clamps, see page 1064.

---

**System support rails**

For heavy installed equipment such as transformers. T-head screw and slot in the support rail for any mounting position.

**Installation options:**

- On the vertical TS enclosure section
  - Via snap-on nut TS 8800.808 (Fig. left)
  - Via adaptor rail for PS compatibility
  - Offset in the height, via TS punched rail 25 x 38 mm (Fig. right)
- On the horizontal TS enclosure section
  - In the width
  - In the depth (without mounting plate)
- On the ES system punchings, in the enclosure depth

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

2 system support rails (45 x 25 mm), 4 T-head screws M12 x 60 mm, and assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>2</td>
<td>4361.000</td>
</tr>
<tr>
<td>800</td>
<td>2</td>
<td>4362.000</td>
</tr>
<tr>
<td>1000</td>
<td>2</td>
<td>4347.000</td>
</tr>
<tr>
<td>1200</td>
<td>2</td>
<td>4363.000</td>
</tr>
</tbody>
</table>

**Accessories:**

Width divider e.g. for the installation of 2 system support rails (for 600 mm width) in 1200 mm wide enclosures, see page 909.

Snap-on nut M8, TS 8800.808, see page 1005.

Adaptor rail, see page 997.

TS punched rail 25 x 38 mm, see page 996.
Support rails
for TS, ES
For heavy installations. Particularly suitable for the installation of base isolators.

Installation options:
● On the vertical TS enclosure section
  – Via snap-on nut TS 8800.808 (Fig. left)
  – Via adaptor rail for PS compatibility
  – Offset in the height, via TS punched rail 25 x 38 mm (Fig. right)
● On the horizontal TS enclosure section
  – In the width
  – In the depth
● On the ES system punchings, in the enclosure depth

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width/depth mm</th>
<th>Packs of</th>
<th>Model No. PS slotted</th>
<th>Model No. TS unslotted</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>4</td>
<td>4394.000</td>
<td>4394.500</td>
</tr>
<tr>
<td>500</td>
<td>4</td>
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<td>4395.500</td>
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<tr>
<td>600</td>
<td>4</td>
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</tr>
<tr>
<td>800</td>
<td>4</td>
<td>4398.000</td>
<td>4398.500</td>
</tr>
</tbody>
</table>

Accessories:
Snap-on nut MB, TS 8800.808, see page 1005.
Adaptor rail, see page 997.
TS punched rail 25 x 38 mm, see page 996.

Support rail 65 x 42 mm
for TS, ES
Benefits:
● For heavy assemblies up to 5000 N per support rail.
Permissible static load: 10 000 N per enclosure

Material:
Steel

Surface finish:
Zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>2</td>
<td>8612.960</td>
</tr>
<tr>
<td>800</td>
<td>2</td>
<td>8612.980</td>
</tr>
</tbody>
</table>

Bracket, locatable
for shelves
Simply locate into the vertical TS section. May be additionally secured with screws. Support surface for shelves: 200 mm.

Material:
Sheet steel

Colour:
RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 pairs</td>
<td>6902.690</td>
</tr>
</tbody>
</table>
Support rails TS 35/15

to EN 60 715

for TS, ES

Mounting on the TS vertical section via snap-on nuts M8. TS 8800.808, see page 1005, assembly block see page 997 or adaptor rail, see page 997.

<table>
<thead>
<tr>
<th>Design</th>
<th>Support rails length mm</th>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>455</td>
<td>6</td>
<td>4933.000</td>
</tr>
<tr>
<td>600</td>
<td>555</td>
<td>6</td>
<td>4934.000</td>
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<tr>
<td>800</td>
<td>755</td>
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<td>4935.000</td>
</tr>
<tr>
<td>1200</td>
<td>1155</td>
<td>6</td>
<td>4937.000</td>
</tr>
</tbody>
</table>

Support rails TS 35/7.5

and TS 35/15

to EN 60 715

for KL, AE

Length sized to the enclosure width

<table>
<thead>
<tr>
<th>Design</th>
<th>Support rails length mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>137</td>
<td>10</td>
<td>2314.000</td>
</tr>
<tr>
<td>200</td>
<td>187</td>
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<td>400</td>
<td>387</td>
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<tr>
<td>600</td>
<td>587</td>
<td>10</td>
<td>2319.000</td>
</tr>
</tbody>
</table>

Support rails
to EN 60 715

Fixed length 2 m

Mounting clip

for support rails

For fast, secure attachment of:
● Cable trunking
● Mounting plates
● Mounting angles

on support rail TS 35/7.5 and TS 35/15 to EN 50 022.

Simply pre-assemble the mounting clip on the part to be installed, then snap into position on the support rail.

German patent no. 195 44 083

European patent no. 0 776 077

with validity for ES, FR, IT, SE

<table>
<thead>
<tr>
<th>Design</th>
<th>Length</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS 35/15</td>
<td>2 m</td>
<td>6</td>
<td>2313.150</td>
</tr>
<tr>
<td>TS 35/7.5</td>
<td>2 m</td>
<td>6</td>
<td>2313.750</td>
</tr>
</tbody>
</table>

C rails

for EL

For infinite adjustment of the mounting angles in the depth.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For centre part depth mm</th>
<th>Packs of</th>
<th>Model No. EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>216</td>
<td>4</td>
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</tr>
<tr>
<td>316</td>
<td>4</td>
<td>2239.000</td>
</tr>
<tr>
<td>416</td>
<td>4</td>
<td>2237.000</td>
</tr>
</tbody>
</table>

Accessories:
Cable clamps, see page 1064.
### Mounting plates

**Locatable**

- on the vertical TS enclosure section
- TS punched section with mounting flange, 17 x 73 mm
- at the rear on the TE 482.6 mm (19"") mounting frame

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8612.400</td>
</tr>
</tbody>
</table>

### Mounting plates

**Screw-fastened, large**

On all enclosures and mounting parts with system punchings on a 25 mm pitch pattern.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8612.410</td>
</tr>
</tbody>
</table>

### Mounting plates

**Screw-fastened, small**

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4532.000</td>
</tr>
</tbody>
</table>

### Mounting bracket

Screw-fastened on all enclosures and mounting parts with system punchings on a 25 mm pitch pattern.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4597.000</td>
</tr>
</tbody>
</table>

**Accessories:**
Screws, see page 1011.
Cable tie for quick assembly SZ 2597.000, see page 1066.
**Interior installation**

**Rail systems**

**Mounting bracket for interior installation**

For installing punched sections with mounting flanges and support strips in:
- CP horizontal/vertical Quickline Panel
- CP horizontal/vertical Comfort Panel from 74 mm installation depth

or for installing in:
- CP Optipanel from an installation depth of 100 mm
- CP VIP 6000 from an installation depth of 155 mm

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6205.100</td>
</tr>
</tbody>
</table>

**System adaptor for FR(i)**

By using the system adaptor, the principle of two TS & attachment levels within this enclosure system is easily achieved. This supports the integration of all rail systems which are attached to the outer enclosure level, and therefore offers a diverse choice of installation options. The inner attachment level may be emulated by simply rotating the system adaptor, and therefore creates the requirements for perfect cable management and completely flexible interior installation. Rail systems attached between the front and rear frame section must be 200 mm shorter than the external enclosure dimensions.

1. Installation position, outer level
2. Installation position, inner level

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

---

**Quickline panel**

<table>
<thead>
<tr>
<th>Punching sections with mounting flanges</th>
<th>CP 6690.500</th>
<th>CP 6691.500</th>
<th>Comfort Panel Front plate width 482.6 mm (19&quot;)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal</td>
<td>8612.160</td>
<td>8612.160</td>
<td></td>
<td>8612.150</td>
</tr>
<tr>
<td>Vertical</td>
<td>–</td>
<td>8612.150</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Packing**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. FR(i)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>7856.760</td>
</tr>
</tbody>
</table>

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.
Snap-on nut TS

Metric thread for vertical TS enclosure section.
To install, insert into slot and clip into position. 
The snap-on nut is then secure. By tightening the
screw, it is securely tightened against the section,
and potential equalisation is automatically cre-
ated.

Installation options:
- On the vertical TS enclosure section
  - with metric thread M6 or M8
  - the alternative to metal screws
  - particularly well-suited for dynamically loaded
    connections

Material:
Precision-cast stainless steel

<table>
<thead>
<tr>
<th>Thread</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>20</td>
<td>8800.806</td>
</tr>
<tr>
<td>M8</td>
<td>20</td>
<td>8800.808</td>
</tr>
</tbody>
</table>

German patent no. 101 49 599

Accessories:
Multi-tooth screw M6 x 12 or M8 x 12, see page 1011.

Adaptor bracket TS

For external mounting of
- System lights
- Cable duct
  on the vertical TS enclosure section.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>8800.360</td>
</tr>
</tbody>
</table>
Interior installation

Assembly components

Mounting bracket TS
Offers variable mounting opportunities for the mounting angle 23 x 23 mm.
E.g. for supporting external surfaces or creating an additional internal level.

Material:
Die-cast zinc

Supply includes:
24 screws 5.5 x 13 mm.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>8800.370</td>
</tr>
</tbody>
</table>

Accessories:

U nuts (recommendation: M6), see page 1010.

Installation options:

1. Support of the external surfaces with two mounting options:
   - Without mounting plate (photo)
   - With mounting plate (drawing)

2. Two installation options for the inner mounting level:
   - If there is no divider panel fitted.

3. With a divider panel fitted, and without or with a mounting plate in a set forward position.

Mounting bracket PS
For variable attachment of punched rails 23 x 23 mm.

Installation options:

- Optionally flush with:
  - Outer enclosure edge or
  - Enclosure clearance width
- On the vertical TS enclosure section via
  - Adaptor rail for PS compatibility, see page 997
- On the horizontal TS enclosure section
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm.

Material:
Die-cast zinc

Supply includes:
1 set =
1 mounting bracket,
1 screw M6 x 12 mm,
1 cage nut M6.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>4182.000</td>
</tr>
</tbody>
</table>

Also required:

U nuts for punched rails (recommended: M6), see page 1010.
Multi-tooth screws M6 x 12 mm, see page 1011.
Assembly components

**Angle bracket PS**

For quick attachment of punched rails 23 x 23 mm.

**Installation options:**
- On the vertical TS enclosure section via Adaptor rail for PS compatibility, see page 997
- On the horizontal TS enclosure section
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
- 1 angle bracket, left
- 1 angle bracket, right
- 2 metal screws 5.5 x 13 mm.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 sets</td>
<td>4181.000</td>
</tr>
</tbody>
</table>

Also required:
- U nuts for punched rails (recommended: M6), see page 1010.
- Multi-tooth screws M6 x 12 mm, see page 1011.

**Support bracket TS**

For the attachment of punched sections without mounting flange 23 x 73 mm or punched rails 23 x 23 mm.

**Installation options:**
- On the vertical and horizontal TS enclosure section
  - on a 25 mm pitch pattern
  - in 2 mm increments.

**Material:**
Die-cast zinc

**Supply includes:**
- 1 support bracket
- 1 stay
- 3 metal screws 5.5 x 13 mm.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 sets</td>
<td>8800.330</td>
</tr>
</tbody>
</table>

German patent no. 199 37 892

Also required:
- U nuts for punched rails (recommended: M6), see page 1010.
- Multi-tooth screws M6 x 12 mm, see page 1011.

**Support bracket PS**

For the attachment of punched sections without mounting flange 23 x 73 mm or punched rails 23 x 23 mm.

**Installation options:**
- On the vertical TS enclosure section via Snap-on nut TS 8800.806, see page 1005, or Adaptor rail for PS compatibility, see page 997
- On the horizontal TS enclosure section
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm.

**Material:**
Die-cast zinc

**Supply includes:**
- 1 support bracket
- 2 countersunk screws
- 2 serrated lock washers.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 sets</td>
<td>4183.000</td>
</tr>
</tbody>
</table>

Also required:
- U nuts for punched rails (recommended: M6), see page 1010.
- Multi-tooth screws M6 x 12 mm, see page 1011.
Adaptor rail for PS compatibility (when mounting on the vertical enclosure section), see page 997.
Bracket/spacer  
For fastening C rails, punched rails or cable clamp rails (angle section). On the sides, to accommodate square sections or tubes (Ø 20 mm). Attachment points with M8 thread.

**Installation options:**
* On the vertical TS enclosure section via
  - Snap-on nut TS 8800.808, see page 1005, or
  - Adaptor rail for PS compatibility, see page 997
* On the horizontal TS enclosure section
* On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

**Material:**
Die-cast zinc

**Supply includes:**
1 set =
1 bracket/spacer,  
2 screws M8 x 16 mm,  
2 spring lock washers,  
2 cage nuts M8,  
2 serrated lock washers,  
2 metal screws.

---

Quick-assembly block  
For a variety of installation options.

**Installation options:**
* On the vertical TS enclosure section via
  - Snap-on nut TS 8800.808, see page 1005, or
  - Adaptor rail for PS compatibility, see page 997
* On the horizontal TS enclosure section
* On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

**Material:**
Die-cast zinc

**Supply includes:**
12 quick-assembly blocks,  
12 threaded blocks M8,  
24 screws M8 x 12 mm,  
24 square nuts M8.

---

Angle piece  
For assembling punched rails and mounting surfaces with a 45° incline.

**Installation options:**
* On the vertical TS enclosure section via
  - Snap-on nut TS 8800.806, see page 1005, or
  - Adaptor rail for PS compatibility, see page 997
* On the horizontal TS enclosure section
* On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

**Material:**
Angle pieces: Die-cast zinc  
Insulating pieces: Plastic

**Supply includes:**
1 set =
1 angle piece,  
1 insulating piece,  
1 insulating screw and  
2 assembly screws,  
1 threaded block M6.
Assembly components

Interior installation

Universal bracket
For installing
• Enclosure lights in
  – Compact enclosures AE
  – Console systems AP
• Door-operated switches in
  – Compact enclosures AE
  – TopConsole system TP
  – Console systems AP
• Cable conduit holders SZ 2593.000 and
  SZ 2591.000 in
  – Compact enclosures AE
  – Console systems AP
• Support rails for terminals in
  – Operating housings and command panel
  housings with door.
Mounting screws are concealed when the door is closed. Existing holes for mounting blocks or hinges may be used with AE.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>2373.000</td>
</tr>
</tbody>
</table>

Rail mounting bracket
For individual rail mounting.

Material:
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>Rail mounting bracket</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
<td>20</td>
<td>2365.000</td>
</tr>
<tr>
<td>Inclined</td>
<td>20</td>
<td>2366.000</td>
</tr>
</tbody>
</table>

Mounting block
for AE
As an accessory for additional interior installation, e.g. mounting of cable ties, PS punched rails, top hat rails and C rails (e.g. for a second pair of mounting angles).

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>2574.000</td>
</tr>
</tbody>
</table>
**U nuts**

For the following items:
- Punched rail 23 x 23 mm
- Punched section without mounting flange, 23 x 73 mm
- Punched section without mounting flange, 45 x 88 mm
- Punched section with mounting flange, 23 x 73 mm

For mounting punched rails and punched sections without mounting flanges on angle brackets, mounting brackets and support brackets, we recommend U nuts with M6 thread (PS 4179.000).

**Accessories:**

- Multi-tooth screws M6 x 12 mm, (for PS 4179.000), see page 1011.

---

**Cage nuts/threaded blocks**

**Installation options:**

- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm, such as:
  - TS enclosure section
    - vertical, via adaptor rail for PS compatibility
    - horizontal, direct
  - ES enclosure body, all-round
  - Punched rail 23 x 23 mm
  - Punched section without mounting flange, 23 x 73 mm
  - Punched section without mounting flange, 45 x 88 mm
  - Punched section with mounting flange, 23 x 73 mm

**Possible alternative:**

- On the vertical TS enclosure section TS snap-on nuts, see page 1005.

**Cage nuts**

The compression spring, designed as an insertion aid, ensures reliable mechanical and electrical connection in the system punchings.

**Thread Packs of Model No. TS**

<table>
<thead>
<tr>
<th>Thread</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>50</td>
<td>4164.000</td>
</tr>
<tr>
<td>M8</td>
<td>50</td>
<td>4165.000</td>
</tr>
</tbody>
</table>

**Threaded blocks**

With snap-off insertion aid, die-cast zinc.

**Thread Packs of Model No. TS**

<table>
<thead>
<tr>
<th>Thread</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>50</td>
<td>4162.000</td>
</tr>
<tr>
<td>M8</td>
<td>50</td>
<td>4163.000</td>
</tr>
</tbody>
</table>

**Cage nuts**

The nuts are inserted from the same side as screw-fastening takes place. Consequently, attachment points in the same height or width may also be used around corners.

The spring cage also ensures electrical connection in the system punchings.

**German patent no. 198 60 434**
## Assembly components

### Spring nut M5
For
- Comfort Panel from an installation depth of 74 mm
- Optipanel from an installation depth of 100 mm
- VIP 6000 from an installation depth of 185 mm
- Compact Panel

The spring ensures reliable protection against unintentional displacement.

Further interior installation, e.g. with mounting bracket PS 4597.000 (see page 1003) or mounting bracket CP 6205.100 (see page 1004).

**Material:**
- Sheet steel, zinc-plated, passivated

---

### Threaded inserts M6
For KS
For securing installed equipment to the moulded bosses in the door and in the enclosure rear panel.

Screw length available for insertion: 8 mm.

---

### Multi-tooth screws
M6 x 12 to fit:
- Snap-on nuts (TS 8800.806)
- U nuts for punched rails (PS 4179.000)
- Cage nuts (PS 4164.000)
- Threaded blocks (TS 4162.000)

M6 x 12 to fit:
- Snap-on nuts (TS 8800.808)

**Type of screw**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Packets of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6 x 12</td>
<td>300</td>
<td>2504.500</td>
</tr>
<tr>
<td>M6 x 12</td>
<td>300</td>
<td>2504.800</td>
</tr>
</tbody>
</table>

**Metal multi-tooth screws**
For the round holes 4.5 mm diameter in the enclosure section, punched rails and punched sections without mounting flanges.

**Self-tapping screws**
For the round holes 4.5 mm diameter in the enclosure section, punched rails and punched sections without mounting flanges.

---

### Self-tapping screws
Mark, drill and tighten in a single operation using electric or pneumatic tools.

For metal thickness: 0.8 – 3 mm
Length: 16 mm
Usable length: 9.5 mm
Width across flats: 8 mm
Assembly components

TS adaptor for wiring systems

Adaptor rail for the Lütze LSC wiring system.
Supply includes:
1 set =
6 adaptor rails,
24 spring lock washers,
24 metal screws 5.5 x 13 mm.

Note:
Mounting parts for the LCS wiring system not included with the supply.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>8800.140</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>8800.150</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>8800.160</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>8800.180</td>
<td></td>
</tr>
</tbody>
</table>

Installation kit for the Moeller MR 25 wiring system.
Supply includes:
1 set =
2 baying clamps,
4 mounting rails,
assembly parts.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>8800.240</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>8800.250</td>
<td></td>
</tr>
</tbody>
</table>

Kit
for separate frame TS
Every TS 8 frame is easily converted to a rack suitable for dismantling. To this end, the frame sections in the roof and base frame are separated, optionally in the width or depth. The four connection components are inserted into the frame section and screw-fastened. The external dimensions of the frame remain unchanged.
Supply includes:
Assembly parts.

Note:
The maximum achievable IP protection category is restricted by separation of the frame.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>7829.400</td>
</tr>
</tbody>
</table>
Component shelves for frame attachment

**Component shelf for frame attachment**

Enclosure width 600 mm on the enclosure frame or between two 482.6 mm (19") mounting angles

Maximum depth of component shelves with enclosure frame attachment = enclosure depth minus 100 mm.

**Technical specifications:**

Mounting bolts or mounting rails may be installed on a 25 mm pitch pattern in the enclosure depth. Mounting hole for handles provided.

**Load capacity:**

50 kg/100 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Supply includes:**

Assembly parts.

1. Fastening bolts
2. Mounting rails
3. Installation kit
4. Telescopic slides

**Load capacity kg**

<table>
<thead>
<tr>
<th>Component shelf depth mm</th>
<th>50</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>700</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

**Component shelf height mm**

<table>
<thead>
<tr>
<th>Model No. DK, slotted</th>
<th>7164.035</th>
<th>7165.035</th>
<th>7166.035</th>
<th>7166.735</th>
<th>7464.035</th>
<th>7465.035</th>
<th>7466.035</th>
<th>7466.735</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No. DK, unslotted</td>
<td>7264.035</td>
<td>7265.035</td>
<td>7266.035</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mounting on a 600 mm wide enclosure frame, installation A, for TS, FR(i)**

**Also required:**

TS punched section with mounting flange, 17 x 73 mm, as installation kit for component shelves, see page 1023.

For FR(i) plus system adaptor, see page 1004.

**Also required:**

For TS punched sections with mounting flanges, see page 1025.

For FR(i) system adaptor and TS punched sections with mounting flanges, see page 1025.

**Accessories:**

Telescopic slides, see page 1025

Handles for component shelves, see page 1025

**Mounting on the 482.6 mm (19") mounting frame**, installation B, for TE, TS, FR(i)

Distance between 482.6 mm (19") levels, minimal

<table>
<thead>
<tr>
<th>495</th>
<th>595</th>
<th>695</th>
<th>895</th>
<th>495</th>
<th>595</th>
<th>695</th>
<th>895</th>
</tr>
</thead>
</table>

**Also required:**

TS punched section with mounting flange 17 x 73 mm as installation kit in the enclosure depth between the 482.6 mm (19") mounting frames

| 8612.040 | 8612.050 | 8612.060 | 8612.080 | 8612.040 | 8612.050 | 8612.060 | 8612.080 |

**Note:**

Not suitable for combination with telescopic slides.

Rittal Catalogue 32/System accessories
Component shelves for frame attachment

**Component shelf for frame attachment**

**Enclosure width 800 mm**

For TS, FR(i)

For installation in enclosures without 482.6 mm (19") accommodation.

Maximum depth of component shelves with enclosure frame attachment = enclosure depth minus 100 mm.

**Technical specifications:**

Mounting bolts or mounting rails may be installed on a 25 mm pitch pattern in the enclosure depth. Mounting hole for handles provided.

**Load capacity:**

50 kg/100 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Supply includes:**

Assembly parts.

1 Fastening bolts
2 Mounting rails
3 Installation kit
4 Telescopic slides

<table>
<thead>
<tr>
<th>Load capacity kg</th>
<th>50</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component shelf depth mm</td>
<td>400</td>
<td>500</td>
</tr>
<tr>
<td>Component shelf height mm</td>
<td>29</td>
<td>45</td>
</tr>
</tbody>
</table>

Model No. DK, slotted 7184.035 7185.035 7186.035 7186.735 7484.035 7485.035 7486.035 7486.735

**Also required:**

TS punched section with mounting flange, 17 x 73 mm, as installation kit for component shelves, see page 1023.

For FR(i) plus system adaptor, see page 1004.

**Also required:**

For TS

TS punched sections with mounting flanges 17 x 73 mm as installation kit for enclosure depth mm

600 8612.060
800 8612.080
900 8612.090
1000 8612.000

For FR(i)

System adaptor 7856.760
600 8612.140
800 8612.160
1000 8612.180
1200 8612.100

**Accessories:**

Telescopic slides, see page 1025 7061.000 7081.000 7161.000 7161.700 7064.000 7065.000 7066.000 7067.000

Handles for component shelves, see page 1025 3636.010
Component shelves for frame attachment

### Component shelf, static installation
#### for TS
Locate the mounting pieces in the frame and attach the component shelf. Attachment in the TS enclosure section offers the greatest possible support surface.

**Dimensions:**
- Height: 25 mm
- Width: Enclosure width minus 44 mm
- Depth: Enclosure depth minus 44 mm

**Load capacity:**
75 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

**For enclosures**
<table>
<thead>
<tr>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
</tr>
<tr>
<td>600 600</td>
</tr>
<tr>
<td>600 800</td>
</tr>
<tr>
<td>600 1000</td>
</tr>
</tbody>
</table>

**Accessories:**
Fastening bolts for slotted component shelves DK 7115.000, see page 1026.

#### for PC-ES
For direct mounting on the enclosure frame. Simply locate into the 4 screws, tighten, and voilà!

**Load capacity:**
40 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

**For enclosures**
<table>
<thead>
<tr>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
</tr>
<tr>
<td>600 650</td>
</tr>
<tr>
<td>600 850</td>
</tr>
</tbody>
</table>

#### for TS, PC-TS, IW prepared for fan expansion kit
For direct mounting on the vertical TS enclosure section. Simply located into 4 pre-fitted screws and secure.

**Load capacity:**
40 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7015

**Supply includes:**
Assembly parts.

**For enclosures**
<table>
<thead>
<tr>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
</tr>
<tr>
<td>600 600</td>
</tr>
<tr>
<td>600 800</td>
</tr>
</tbody>
</table>

**Accessories:**
Fan expansion kit DK 7980.000, see page 703.

---

1) Delivery times available on request.

Note:
Combined use with vertically divided doors is not possible. Not suitable for combination with telescopic slides.
Component shelves for frame attachment

Component shelf, pull-out
for TS, PC-TS, IW
For direct mounting on the vertical TS enclosure section.
Load capacity:
40 kg surface load, static
Material:
Sheet steel
Colour:
RAL 7015
Supply includes:
2 telescopic slides.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Width mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>600</td>
<td>465</td>
<td>545</td>
</tr>
<tr>
<td>600</td>
<td>800</td>
<td>465</td>
<td>745</td>
</tr>
<tr>
<td>690</td>
<td>2.96</td>
<td>690</td>
<td>2.98</td>
</tr>
</tbody>
</table>

For enclosures 1) Support area
Model No. IW
6902.960 2)
6902.980

1) For enclosures without a mounting plate.
2) May also be installed in 800 mm deep enclosures based on TS (pull-out rear attachment).

Also required:
When installing more than one pull-out component shelf/drawer tray, we recommend that for reasons of work safety to DIN EN 349 a drawer extension lock should be used, see page 1026.

Drawer tray
pull-out
For enclosures with TS frame construction in series IW, PC-TS.
Width 600 mm and depth 600 – 800 mm.
Individual sub-division is possible via the use of cross members.
Tray height: 83 mm
Load capacity:
40 kg surface load, static
Material:
Sheet steel
Colour:
RAL 7035
Supply includes:
2 telescopic slides.
Note:
Suitable for installation in all enclosures, without mounting plate, with W x D 600 x 600/800 mm based on TS (rear attachment of telescopic slides extendible).
When sub-dividing the drawer tray, one cross member is always needed for the entire width (IW 6902.710).

Also required:
When installing more than one pull-out component shelf/drawer tray, we recommend that for reasons of work safety to DIN EN 349 a drawer extension lock should be used, see page 1026.

Accessories:
Cross member, see page 1016.

Cross members
for drawer tray
For individual sub-division.
Material:
Aluminium, 3 mm
Colour:
RAL 7035
Supply includes:
Plastic holder.

<table>
<thead>
<tr>
<th>For sub-division in</th>
<th>Packs of</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>the full width</td>
<td>4</td>
<td>6902.710</td>
</tr>
<tr>
<td>half the width</td>
<td>6</td>
<td>6902.720</td>
</tr>
</tbody>
</table>

Note:
When sub-dividing the drawer tray, one cross member is always needed for the entire width (IW 6902.710).
Component shelves for attachment to the 482.6 mm (19\"") frame

**Component shelf, 482.6 mm (19\") installation**

Enclosures with two 482.6 mm (19\") mounting levels for TE, TS, FR(i), 19\" system punchings

Depending on their depth, the component shelves have several attachment points, so the distance between the 482.6 mm (19\") mounting angles is variable within certain limits. Each component shelf secured in this way can be retrospectively upgraded to full withdrawal using telescopic slides. For this purpose, the telescopic slides are screw-fastened in place of the spacers.

**Load capacity:**

50 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035/RAL 9005

**Supply includes:**

Assembly parts.

**Note:**

For installation in one 482.6 mm (19\") level:

In conjunction with 3 U side parts, mounting on only one 482.6 mm (19\") level is possible. 30 kg surface load, static.

**Accessories:**

- Telescopic slides, see page 1025.
- Cable support, hinged, see page 1025.
- Side parts 3 U, see page 1024.

**Possible alternative:**

Component shelf, heavy duty, for 482.6 mm (19\") population, see page 1018 – 1019.

<table>
<thead>
<tr>
<th>Component shelf width mm</th>
<th>409</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component shelf depth mm</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>400</td>
</tr>
<tr>
<td>400</td>
<td>500</td>
</tr>
<tr>
<td>500</td>
<td>600</td>
</tr>
<tr>
<td>600</td>
<td>700</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distance between levels (X)</th>
<th>298</th>
<th>348/398</th>
<th>348/448/498</th>
<th>448/548/598</th>
<th>548/648/698</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No. DK RAL 7035</td>
<td>7143.035</td>
<td>7144.035</td>
<td>7145.035</td>
<td>7145.635</td>
<td>7145.735</td>
</tr>
<tr>
<td>Model No. DK RAL 9005</td>
<td>–</td>
<td>–</td>
<td>7145.005</td>
<td>7145.605</td>
<td>7145.705</td>
</tr>
</tbody>
</table>

**Also required:**

- Adaptor for L-shaped mounting angles TS, see page 1023.
- Installation kit, depth-variable, for installation on mounting frames and L-shaped mounting angles, see page 1023.

**For TS:**

Note for installation in network enclosures based on TS, cracked mounting angle:

The component shelves are mounted on the sides of the 482.6 mm (19\") cracked mounting angle with spacers on a U pitch pattern.

**For TS:**

Note for installation in network enclosures based on TS, L-shaped mounting angle:

If L-shaped mounting angles are used, adaptor DK 7827.300 is required.

<table>
<thead>
<tr>
<th>Spacers</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telescopic slides</td>
<td>2</td>
</tr>
<tr>
<td>Adaptor</td>
<td>3</td>
</tr>
<tr>
<td>Installation kit, depth-variable</td>
<td>4</td>
</tr>
<tr>
<td>Distance between levels</td>
<td>X</td>
</tr>
</tbody>
</table>

**For TE, TS, FR(i), 19\" system punchings:**

Note for installation between two mounting frames or L-shaped mounting angles:

May be mounted directly on the 482.6 mm (19\") system punchings using the depth-variable installation kit.

**For TS, FR(i):**

Note for installation between mounting angles and mounting frames:

May be mounted directly on the 482.6 mm (19\") system punchings using the depth-variable installation kit.
Component shelves for attachment to the 482.6 mm (19”) frame

**Component shelf, static installation**

on the 482.6 mm (19”) mounting angles for TE, TS, FR(i)

The component shelf is attached directly to the front and rear 482.6 mm (19”) mounting angles.

**Load capacity:**
30 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Distance between 19” levels (X) (mm)</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>511</td>
<td>22</td>
<td>413</td>
<td>495</td>
<td>7000.620</td>
</tr>
</tbody>
</table>

**Note:**
Not suitable for combination with telescopic slides.

---

**Component shelf, heavy duty**

for network enclosures TS with cranked mounting angles

For static installation between two 482.6 mm (19”) mounting levels. The component shelf is located directly onto the cranked mounting angles.

**Zinc-plated version:**

**Load capacity:**
75 kg surface load, static

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Distance between levels (X) (mm)</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>452.5</td>
<td>20</td>
<td>478</td>
<td>498</td>
<td>7828.950</td>
</tr>
<tr>
<td>452.5</td>
<td>20</td>
<td>578</td>
<td>598</td>
<td>7828.960</td>
</tr>
<tr>
<td>452.5</td>
<td>20</td>
<td>678</td>
<td>698</td>
<td>7828.970</td>
</tr>
</tbody>
</table>

**Spray-finished version:**

**Load capacity:**
100 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Distance between levels (X) (mm)</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>453</td>
<td>44</td>
<td>470</td>
<td>498</td>
<td>7145.535</td>
</tr>
</tbody>
</table>

**Note:**
Not suitable for combination with telescopic slides.

---

Possible alternative:
Component shelf, heavy duty, for 482.6 mm (19”) population, may be combined with telescopic slides, see page 1019.
Component shelves for attachment to the 482.6 mm (19") frame/system punchings

**Component shelf, heavy duty**

**for network enclosures TS**

With L-shaped mounting angles

For static installation between two 482.6 mm (19") mounting levels.

The component shelf is located directly onto the L-shaped mounting angles.

**Load capacity:**

75 kg surface load, static

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

**Load capacity:**

100 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035/RAL 9005

**Supply includes:**

Assembly parts.

---

**Component shelf 2 U**

482.6 mm (19")

for TE, TS, FR(i), 19" system punchings

Suitable for installation in all enclosures with only one 482.6 mm (19") recess and all swing frames with flange mounting, 482.6 mm (19").

**Load capacity:**

25 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Supply includes:**

Assembly parts.

---

**Component shelf**

482.6 mm (19")

for TE, TS, FR(i)

**Dimensions**

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm</th>
<th>Distance between levels (X) mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>507.5</td>
<td>20</td>
<td>480</td>
<td>496</td>
<td>7828.951</td>
</tr>
<tr>
<td>507.5</td>
<td>20</td>
<td>580</td>
<td>598</td>
<td>7828.961</td>
</tr>
<tr>
<td>507.5</td>
<td>20</td>
<td>680</td>
<td>698</td>
<td>7828.971</td>
</tr>
</tbody>
</table>

**Note:**

Not suitable for combination with telescopic slides.

**Possible alternative:**

Component shelf, heavy duty, for 482.6 mm (19") population, may be combined with telescopic slides, see page 1019.

---

**Component shelf**

482.6 mm (19")

for TE, TS, FR(i)

**Dimensions**

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm RAL 7035 RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td>409</td>
<td>45</td>
<td>500</td>
</tr>
<tr>
<td>409</td>
<td>45</td>
<td>700</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

---

**Also required:**

Installation kit, depth-variable DK 7063.890, see page 1023.

**Accessories:**

Telescopic slides (100 kg) for 482.6 mm (19") component shelf, see page 1025.

---

**Component shelf**

482.6 mm (19")

for TE, TS, FR(i), 19" system punchings

Suitable for installation in all enclosures with only one 482.6 mm (19") recess and all swing frames with flange mounting, 482.6 mm (19").

**Load capacity:**

25 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Supply includes:**

Assembly parts.

---

**Accessories:**

Telescopic slides for component shelf, see page 1025.

Handles, see page 1025.
Component shelves for attachment to the 482.6 mm (19”) system punchings

**Component shelf 1 U, depth-variable**
482.6 mm (19”)
for TE, TS, FR(i), 19” system punchings
For mounting between the front and rear 482.6 mm (19”) levels. The component shelf is infinitely depth-adjustable from 488 mm to 750 mm.

**Load capacity:**
50 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Distance between levels mm</th>
<th>Model No. VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>488 – 750</td>
<td>3861.580</td>
</tr>
</tbody>
</table>

**Note:**
Not suitable for combination with telescopic slides.

**Component shelf ½ U, depth-variable**
482.6 mm (19”)
for TE, TS, FR(i), 19” system punchings
This space-saving component shelf is screw-fastened to the front and rear 482.6 mm (19”) mounting angles. It is infinitely depth-adjustable and may be fitted independently from the enclosure.

**Load capacity:**
50 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Distance between levels mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 – 600</td>
<td>7063.710</td>
</tr>
<tr>
<td>600 – 900</td>
<td>7063.720</td>
</tr>
</tbody>
</table>

**Note:**
Not suitable for combination with telescopic slides.

**Component shelf, complete set, pull-out**
for TE
Tailored to the distance between levels in enclosures as per their supplied state of 495 mm, this complete set contains a vented component shelf, telescopic slides and a mounting kit for direct attachment.
The mounting kit also offers depth-variable attachment within 200 mm with a 25 mm pitch pattern.

**Load capacity:**
50 kg, static

**Material:**
Base: Sheet steel, spray-finished in RAL 7035
Mounting kit/telescopic slides: Zinc-plated, passivated

**Supply includes:**
1 component shelf, telescopic slides and mounting kit.

<table>
<thead>
<tr>
<th>Base depth mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>1 set</td>
<td>7000.625</td>
</tr>
</tbody>
</table>

**Accessories:**
Handles for component shelf, see page 1025.
Component shelves for attachment to the 482.6 mm (19") system punchings

### Component shelf 1 U, static installation

**482.6 mm (19")/535 mm (metric)**

for TE, TS, FR(i), 19" system punchings

The ideal support surface for small active components such as modems or mini-hubs in 482.6 mm (19") or metric levels.

**Load capacity:**

10 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Note:**

Not suitable for combination with telescopic slides.

<table>
<thead>
<tr>
<th>Component shelf depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>140</td>
<td>7119.140</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Also required:

- Captive nuts, see page 1010.
- Screws, see page 1011.

### Component shelf 1 U, static installation

**42 HP (1/2 19")**

The ideal support surface for small active components such as modems or mini-hubs.

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Note:**

Not suitable for combination with telescopic slides.

<table>
<thead>
<tr>
<th>Component shelf depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>140</td>
<td>7502.600</td>
</tr>
</tbody>
</table>

Also required:

- Captive nuts, see page 1010.
- Screws, see page 1011.

### Component shelf 2 U, static installation

**482.6 mm (19")/535 mm (metric)**

for 482.6 mm (19")/metric system punchings

If only one 482.6 mm (19") or metric mounting level is available for mounting a component shelf, this variant offers a particularly cost-effective solution.

**Load capacity:**

25 kg surface load, static

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Note:**

Not suitable for combination with telescopic slides.

<table>
<thead>
<tr>
<th>Component shelf depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>7119.250</td>
</tr>
<tr>
<td>400</td>
<td>7119.400</td>
</tr>
</tbody>
</table>

Also required:

- Captive nuts, see page 1010.
- Screws, see page 1011.
Component shelves for attachment to the 482.6 mm (19”) system punchings

Utility table
for location in the 482.6 mm (19”) level
for 482.6 mm (19”) system punchings
The utility table may be attached directly between the 482.6 mm (19”) mounting angles without any additional assembly work. The utility table has a height of 3 U and a support area of 450 x 295 mm; it can be used as a support for measuring devices or splicing equipment during maintenance and wiring work.

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Support surface mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>450 x 295</td>
<td>7183.100</td>
</tr>
</tbody>
</table>

Note:
Installation in enclosures with a TS trim frame is not possible.

Shelf
for AE with pull-out frame
The vented shelf is inserted into the pull-out frame of wall-mounted distributor DK 7644.000 and may additionally be screw-fastened. In this way, an additional support surface can be created with very little effort. Cage nuts may be clipped into the punchings of the frame, even after the shelf has been inserted.

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>430</td>
<td>195</td>
<td>7644.400</td>
</tr>
</tbody>
</table>

Delivery times available on request.
**TS punched section with mounting flange, 17 x 73 mm**

as installation kit for component shelves

Simply locate and secure. One pack is sufficient for 2 component shelves.

**Load capacity:**

100 kg surface load, static

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

<table>
<thead>
<tr>
<th>Installation in enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>4</td>
<td>8612.050</td>
</tr>
<tr>
<td>600</td>
<td>4</td>
<td>8612.060</td>
</tr>
<tr>
<td>800</td>
<td>4</td>
<td>8612.080</td>
</tr>
<tr>
<td>900</td>
<td>4</td>
<td>8612.090</td>
</tr>
<tr>
<td>1000</td>
<td>4</td>
<td>8612.000</td>
</tr>
<tr>
<td>1200</td>
<td>4</td>
<td>8612.020</td>
</tr>
</tbody>
</table>

**Installation kit, depth-variable**

for 482.6 mm (19") component shelf

In conjunction with

- L-shaped mounting angles or
- Mounting frame 482.6 mm (19")

Infinitely adjustable to the spacing between the two pairs of 482.6 mm (19") mounting angles. Suitable for all 482.6 mm (19") component shelves in 409 mm width.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

1 set = 2 mounting rails including assembly parts.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Load capacity</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>390 – 590</td>
<td>50 kg</td>
<td>7063.858</td>
</tr>
<tr>
<td>590 – 790</td>
<td>50 kg</td>
<td>7063.860</td>
</tr>
<tr>
<td>706.5 – 1006.5</td>
<td>100 kg</td>
<td>7063.890</td>
</tr>
</tbody>
</table>

**Adaptor for L-shaped mounting angles**

for TS network enclosures

For mounting component shelves and slide rails on L-shaped mounting angles.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>7827.300</td>
</tr>
</tbody>
</table>
Installation kits for component shelves

**Side parts 3 U**

_for static installation of component shelves, 482.6 mm (19")_

For the attachment of component shelves to a single pair of 482.6 mm (19") mounting angles. The component shelves are screw-fastened to the 3 U side part. Either one or two component shelves may be secured.

**Load capacity:**
30 kg surface load, static

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
2 side parts.

**Note:**
Not suitable for combination with telescopic slides.

<table>
<thead>
<tr>
<th>Depth of side parts mm</th>
<th>For component shelves DK</th>
<th>Component shelf depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>7143.035</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>7144.035</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>7145.035</td>
<td>500</td>
<td>7147.035</td>
</tr>
</tbody>
</table>

**Accessories:**
Component shelves, 482.6 mm (19"), see page 1017.

---

**Installation kit**

_for component shelves and drawers, 482.6 mm (19") installation in TS, ES_

For installation between the front and rear adaptor sections or adaptor pieces, 482.6 mm (19") in 600 mm wide enclosures.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>For enclosure system</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TS</td>
</tr>
<tr>
<td>500</td>
<td>1 set</td>
<td>8800.550</td>
</tr>
<tr>
<td>600</td>
<td>1 set</td>
<td>8800.560</td>
</tr>
<tr>
<td>800</td>
<td>1 set</td>
<td>8800.580</td>
</tr>
</tbody>
</table>

Max. depth of component shelves = enclosure depth minus 100 mm.

**Also required:**

Mounting angles, 482.6 mm (19"), see page 1089.
Adaptor pieces, 482.6 mm (19"), see page 1090.
**Telescopic slides**

*for component shelves*

Fixed component shelves are easily retro-converted to full withdrawal. For this purpose, the existing fastening bolts or mounting rails (heavy-duty version) are exchanged for the telescopic slides.

**Technical specifications:**

For installation and locking on a 25 mm pitch pattern in the enclosure depth.

**Load capacity:**

50 kg/100 kg per set

**Material:**

Sheet steel, zinc-plated, passivated

**Table:**

<table>
<thead>
<tr>
<th>For component shelf depth mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>2</td>
<td>7051.000</td>
</tr>
<tr>
<td>400</td>
<td>2</td>
<td>7061.000</td>
</tr>
<tr>
<td>500</td>
<td>2</td>
<td>7081.000</td>
</tr>
<tr>
<td>600</td>
<td>2</td>
<td>7161.000</td>
</tr>
<tr>
<td>700</td>
<td>2</td>
<td>7161.700</td>
</tr>
</tbody>
</table>

**Cable support**

*hinged, with clamp*

For secure routing of connection cables from the component shelf to the clamping point. The attachment may be released on both sides thanks to clamps.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

**Table:**

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 600</td>
<td>7163.300</td>
</tr>
<tr>
<td>&gt; 600</td>
<td>7163.350</td>
</tr>
</tbody>
</table>

**Cable support**

*hinged, with anti-kink device and clamp*

For secure routing of connection cables from the component shelf to the clamping point. Kink-free cable routing in the central part via mobile chain links. The attachment may be released on both sides, thanks to clamps.

**Material:**

Sheet steel, zinc-plated, passivated

Centre part: Plastic

**Supply includes:**

Assembly parts.

**Table:**

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 600</td>
<td>7163.560</td>
</tr>
<tr>
<td>&gt; 600</td>
<td>7163.565</td>
</tr>
</tbody>
</table>

**Handles**

*for pull-out component shelves*

The component shelves are prepared for the attachment of handles.

**Material:**

Die-cast zinc

**Surface finish:**

Spray-finished, silver-grey

**Supply includes:**

Assembly parts.

**Table:**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3636.010</td>
</tr>
</tbody>
</table>
Interior installation

Accessories for component shelves

**Fastening bolts**

*for slotted component shelves*

For non-slip attachment of your components. The bolts are screwed into the slots of the component shelf support surface. Consequently, they are infinitely adjustable and can be adapted to suit any appliance.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>7115.000</td>
</tr>
</tbody>
</table>

**Monitor shelf mounting kit**

*for ES*

For inclined installation of a component shelf in the enclosure when used as a monitor shelf.

**Supply includes:**
- 2 holders for inclined installation,
- 2 wire clamps for monitor base,
- 2 fastening bolts for positioning the monitor base.

<table>
<thead>
<tr>
<th>Monitor shelf mounting kit</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2306.000</td>
</tr>
</tbody>
</table>

**Drawer extension lock**

*for 600 mm wide enclosures based on TS 8*

To increase work safety. In conjunction with the stay, prevents simultaneous extension of up to 5 drawer trays or pull-out component shelves and thereby ensures stability.

**Material:**
- Sheet steel, zinc-plated, passivated

**Supply includes:**
- PS punched section with mounting flange
  - 23 x 73 mm (to match the enclosure height)
  - and assembly parts.

<table>
<thead>
<tr>
<th>For enclosure height mm</th>
<th>Packs of</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>900</td>
<td>1 set</td>
<td>6902.730</td>
</tr>
<tr>
<td>1000</td>
<td>1 set</td>
<td>6902.740</td>
</tr>
</tbody>
</table>

**Note:**

When installing more than one extendible component shelf/drawer tray, we recommend using the drawer extension lock for work safety reasons. For installation in taller enclosures, one PS punched section with mounting flange 23 x 73 mm (to match the enclosure height) is required.

**Accessories:**

Stay for drawer extension lock.

<table>
<thead>
<tr>
<th>For</th>
<th>Packs of</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawers</td>
<td>5</td>
<td>6902.750</td>
</tr>
<tr>
<td>Component shelves</td>
<td>5</td>
<td>6902.760</td>
</tr>
</tbody>
</table>
Compact light
Narrower – Faster – Brighter
● Narrower: Around 50 % less height and depth and also around 75 % less volume than conventional lights.
● Faster: Universal fast attachment via clips, screws, or powerful magnets (optional). Simply slide in at the side or rear, fit the light, and it’s done!
● Brighter: Up to 75 % greater luminous efficiency from the lamp at the same output helps to cut electricity costs.
● Door-operated switch can also be connected via a 2-pole connection.
● Cable routing on the back of the light enables deflection, e. g. when mounted vertically in a TS 8.

Material:
Body: PC-ABS (halogen-free)
Light cover: Polycarbonate (halogen-free)
Colour: Similar to RAL 7035
Protection category: IP 20

Supply includes:
Compact light with clip and screw mounting kits, including assembly parts.

Accessories:
Mounting kit magnet, see below.
Door-operated switch with connection cable, see below.

Model No. SZ  4140.010  4140.020  4140.110  4140.120
Rated voltage  100 – 240 V AC ±10 % at 50 – 60 Hz  24 V DC ±10 %
Wattage  8  14  8  14
Protection category  II (all-insulated)
Width (B1) mm  455  705  455  705
Mounting distance (B2) mm Clip/magnet  400  650  400  650
Mounting distance (B3) mm  475  725  475  725
Connection cable  3 m (open end)
Cover colour  Yellow
Rated current (A)
- at 230 V AC  0.045 – 0.088  0.073 – 0.127  –  –
- at 110 V AC  0.083 – 0.149  0.149 – 0.216  –  –
- at 24 V DC  –  0.35  –  0.57
Light  Fluorescent lamp T5
Operating unit  Wide-range electronic ballast  Electronic ballast
Switches  Integral, on/off/door-operated switch mode
Light cover  Transparent, grooved on the inside
ENEC 24  ■  ■  ■  ■

Mounting kit magnet
For reliable adhesion on all sheet steel surfaces.

Packs of  Model No. SZ
2  4140.000

Door operated switch
With connection cable
Colour: Yellow
System lights

With assembly parts for mounting:
- On the enclosure profile:
  For TS, horizontally (directly), or vertically in conjunction with an adaptor angle
- Directly onto rail systems with 25 mm system punchings
- In AE, CM and TP using universal bracket SZ 2373.000.

Light:
Universal white

Protection category:
IP 20 to EN 60 529/09.2000

<table>
<thead>
<tr>
<th>Components</th>
<th>Standard light</th>
<th>Courtesy light</th>
<th>Universal light</th>
<th>System light</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sockets and connectors for:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Power supply</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- Through-wiring</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- Door-operated switch: Facility for connecting/Integral</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Jack for normally open contact</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motion sensor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interference suppression via:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Radio interference suppression capacitor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Full-electronic ballast</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional manual switching with rocker or slide switch</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Light cover</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light cone adjustment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual voltage supply 100/110 – 240 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Also required:
Connection accessories, see page 1030.

Accessories:
Adaptor bracket, see page 1005.
Universal bracket, see page 1009.

Standard light

Technical specifications | Socket Width mm | Height mm | Depth mm | Model No. SZ | Approvals |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>14 kW, 230 V, 50 Hz</td>
<td>Yes</td>
<td>452</td>
<td>117</td>
<td>4138.140</td>
<td>ENEC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4138.150</td>
<td></td>
</tr>
<tr>
<td>18 kW, 230 V, 50 Hz</td>
<td>Yes</td>
<td>682</td>
<td>117</td>
<td>4139.180</td>
<td>ENEC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4139.190</td>
<td></td>
</tr>
<tr>
<td>30 kW, 230 V, 50 Hz</td>
<td>Yes</td>
<td>987</td>
<td>117</td>
<td>4138.300</td>
<td>ENEC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4138.350</td>
<td></td>
</tr>
</tbody>
</table>

Courtesy light

Technical specifications | Socket Width mm | Height mm | Depth mm | Model No. SZ | Approvals |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>14 W, 100 – 240 V, 50/60 Hz</td>
<td>Yes</td>
<td>452</td>
<td>117</td>
<td>4139.140</td>
<td>ENEC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4139.150</td>
<td></td>
</tr>
<tr>
<td>18 W, 100 – 240 V, 50/60 Hz</td>
<td>Yes</td>
<td>682</td>
<td>117</td>
<td>4139.180</td>
<td>ENEC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4139.190</td>
<td></td>
</tr>
<tr>
<td>30 W, 100 – 240 V, 50/60 Hz</td>
<td>Yes</td>
<td>987</td>
<td>117</td>
<td>4139.300</td>
<td>ENEC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4139.350</td>
<td></td>
</tr>
</tbody>
</table>

With fluorescent lamp, socket G13, length 375/604/908 mm

1) With door-operated switch
System lights

Universal light with integral motion sensor

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Socket</th>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No.</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 W, 110 – 240 V, 50/60 Hz</td>
<td>Yes</td>
<td>345</td>
<td>95</td>
<td>55</td>
<td>4155.100</td>
<td>VDE</td>
</tr>
<tr>
<td>No</td>
<td>345</td>
<td>95</td>
<td>55</td>
<td></td>
<td>4155.000</td>
<td>VDE</td>
</tr>
<tr>
<td>No</td>
<td>345</td>
<td>95</td>
<td>55</td>
<td></td>
<td>4155.500</td>
<td>UL</td>
</tr>
</tbody>
</table>

With compact fluorescent lamp, TC-DEL 26 W, base G24q-3, length 174 mm

System light with filament tube (Linestra)

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Socket</th>
<th>W mm</th>
<th>H mm</th>
<th>D mm</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 W, 230 V AC/DC</td>
<td>No</td>
<td>380</td>
<td>59</td>
<td>41</td>
<td>4103.350</td>
</tr>
<tr>
<td>60 W, 230 V AC/DC</td>
<td>No</td>
<td>580</td>
<td>59</td>
<td>41</td>
<td>4103.600</td>
</tr>
</tbody>
</table>

With filament tube.
1) Base 35 S14s, length 300 mm
2) Base 60 S14s, length 500 mm

Enclosure light, 48 V DC

Specifically designed for use in telecommunication when built-in equipment may require a battery back-up. For mounting on the 25 mm system punchings.

Technical specifications:
14 W, 48 V DC, rated current: 0.38 A

Enclosure light, 48 V DC

With connection cable

Robust light. For attachment vertically or horizontally in the frame section via spring brackets, or may be used as a direct light source during maintenance work by inserting the plastic swivel hook. Impact-resistant lamp housing of PMMA (polymethylmethacrylate) protection category II.

Protection category:
IP 64

Supply includes:
2 spring brackets and assembly parts.

Light 1 U

Complete ready-to-connect light for installation in the 482.6 mm (19") mounting angles. The slot attachment additionally allows it to be fastened to the 25 mm system punchings.

Technical specifications:
8 W, 230 V, 50 Hz
With mains switch and 2.5 m connection cable with fitted earthing-pin plug.

Material:
Aluminium, anodised, plastic
Connection accessories

The following components can be used for time-saving and simple installation of the lights:

---

**Connection cable**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Length (mm)</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>4315.100</td>
<td>3000</td>
<td>5</td>
</tr>
<tr>
<td>4315.110</td>
<td>3000</td>
<td>1</td>
</tr>
<tr>
<td>4315.150</td>
<td>600</td>
<td>1</td>
</tr>
<tr>
<td>4315.400</td>
<td>600</td>
<td>5</td>
</tr>
<tr>
<td>4315.410</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>4315.420</td>
<td>4000</td>
<td>1</td>
</tr>
</tbody>
</table>

**Accessories:**

Cable ties for quick assembly, see page 1066.

---

**Door-operated switch**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Length (mm)</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>4315.500</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>4315.300</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>4127.000</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

---

**Door-operated switch with toggle**

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>230 V AC, 6 A, 24 V DC, 10 A</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**Connection component with circuit-breaker 10 A**

<table>
<thead>
<tr>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

---

**For self-assembly**

<table>
<thead>
<tr>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>
**Rail**

for EMC shielding bracket and strain relief

Combined rail for strain relief and EMC contacting of inserted cables.

Mounting options:
- On the horizontal/vertical TS, PC, ES enclosure section
- On a mounting plate

May also be fitted without a retaining bracket. Additional contacting on the left or right of the rail via existing holes (9 mm diameter).

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

---

**EMC shielding bracket**

Diameter changes are compensated in full by the spring of the EMC shielding bracket. Attachment without the use of tools: Press the EMC shielding bracket against the cable shield and clip into the rail.

**Material:**
Sheet steel, zinc-plated, passivated

---

**Cable clamps**

Simply locate into the bottom of the rail and tighten the pressure plate for strain relief.

**Material:**
Sheet steel, zinc-plated, passivated

---

### Mounting position

- **Retaining bracket**
- **Rail**

---

### Also required:

- EMC shielding bracket, see below 1031.
- Cable clamps for strain relief, see page 1031.

### Accessories:

- Earth straps, see page 1034.
- Earthing strap, see page 1034.
EMC gland plates
For shielded cables with a maximum diameter of 20 mm. Combined EMC/IP seal provides low-resistance contact between cable shield and gland plate. For all 400, 500, 600 and 800 mm deep enclosure in conjunction with standard gland plates.
Supply includes: 1 gland plate with twin hammer-head punching, 1 sliding gland plate, 2 IP/EMC gaskets.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1 set</td>
<td>8800.660</td>
</tr>
<tr>
<td>800</td>
<td>1 set</td>
<td>8800.680</td>
</tr>
<tr>
<td>1000</td>
<td>1 set</td>
<td>8800.600(1)</td>
</tr>
<tr>
<td>1200</td>
<td>1 set</td>
<td>8800.620(1)</td>
</tr>
</tbody>
</table>

(1) For one enclosure half only

EMC cable glands
The cable sheathing may optionally be interrupted at the contact point or removed completely inside the enclosure. The cable shield in the enclosure is retained. The supplied lock nut cuts automatically into the paint when screwed down, thus creating a conductive connection.
Protection category: IP 68 to EN 60 529/09.2000 IP 69K to DIN 40 050-9
Possible alternative: Cable gland Hygienic Design, see page 1056.

<table>
<thead>
<tr>
<th>Size</th>
<th>Cable diameter mm</th>
<th>Minimum(1) shield diameter mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M16</td>
<td>4.5 – 10</td>
<td>3</td>
<td>5</td>
<td>2843.160</td>
</tr>
<tr>
<td>M20</td>
<td>6 – 12</td>
<td>5</td>
<td>5</td>
<td>2843.200</td>
</tr>
<tr>
<td>M25</td>
<td>11 – 17</td>
<td>8</td>
<td>5</td>
<td>2843.250</td>
</tr>
<tr>
<td>M32</td>
<td>15 – 21</td>
<td>10</td>
<td>1</td>
<td>2843.320</td>
</tr>
<tr>
<td>M40</td>
<td>19 – 28</td>
<td>15</td>
<td>1</td>
<td>2843.400</td>
</tr>
<tr>
<td>M50</td>
<td>27 – 38</td>
<td>19</td>
<td>1</td>
<td>2843.500</td>
</tr>
<tr>
<td>M63</td>
<td>34 – 44</td>
<td>30</td>
<td>1</td>
<td>2843.630</td>
</tr>
</tbody>
</table>

(1) Minimum shield diameter = cable diameter minus cable sheathing

Metal cable ties
For 360° contact of shielded cables on the EMC gland plate. The cable ties are not toothed, thereby eliminating the risk of damage to insulation and braided screens.
Material: Stainless steel, anti-magnetic and rust-proof

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Width mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>4.6</td>
<td>50</td>
<td>2598.125</td>
</tr>
<tr>
<td>200</td>
<td>4.6</td>
<td>50</td>
<td>2598.200</td>
</tr>
</tbody>
</table>

Tightening tool
For simple tightening of the metal cable ties.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2585.000</td>
</tr>
</tbody>
</table>

Cable glands, metric

Cable glands, PG

<table>
<thead>
<tr>
<th>PG size</th>
<th>Cable diameter mm</th>
<th>Minimum(1) shield diameter mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>4 – 8</td>
<td>3</td>
<td>5</td>
<td>2411.090</td>
</tr>
<tr>
<td>11</td>
<td>5 – 10</td>
<td>4</td>
<td>5</td>
<td>2411.110</td>
</tr>
<tr>
<td>13.5</td>
<td>6 – 12</td>
<td>5</td>
<td>5</td>
<td>2411.140</td>
</tr>
<tr>
<td>16</td>
<td>10 – 14</td>
<td>8</td>
<td>5</td>
<td>2411.160</td>
</tr>
<tr>
<td>21</td>
<td>13 – 18</td>
<td>10</td>
<td>1</td>
<td>2411.210</td>
</tr>
<tr>
<td>29</td>
<td>18 – 25</td>
<td>15</td>
<td>1</td>
<td>2411.290</td>
</tr>
</tbody>
</table>

(1) Minimum shield diameter = cable diameter minus cable sheathing

German patent no. 196 04 219

1032

Rittal Catalogue 32/System accessories
**EMC shield bus**
Made of yellow passivated steel strip, 75 mm² cross section, for cable shield contact.

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Rail length mm</th>
<th>Connections</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>375</td>
<td>10</td>
<td>1</td>
<td>2413.375</td>
</tr>
<tr>
<td>550</td>
<td>16</td>
<td>1</td>
<td>2413.550</td>
</tr>
</tbody>
</table>

**EMC earth clamps**
The clamps may be used directly on the consumer or operating equipment on the mounting plate for cable shield contact.

Material:
Sheet steel, zinc-plated, passivated.

<table>
<thead>
<tr>
<th>Size mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>50</td>
<td>2367.040</td>
</tr>
<tr>
<td>6</td>
<td>50</td>
<td>2367.060</td>
</tr>
<tr>
<td>8</td>
<td>50</td>
<td>2367.080</td>
</tr>
<tr>
<td>12</td>
<td>50</td>
<td>2367.120</td>
</tr>
<tr>
<td>16</td>
<td>50</td>
<td>2367.160</td>
</tr>
<tr>
<td>20</td>
<td>25</td>
<td>2367.200</td>
</tr>
</tbody>
</table>

1) 2 assembly brackets

**EMC baying seal**
For baying enclosure systems. Seal with all-round, electrically conductive sheathing.

**EMC divider panel seal**
This seal ensures optimum contact in bayed EMC enclosure systems and when using a zinc-plated divider panel.

Material:
PU foam with electrically conductive sheathing.

Supply includes:
1 roll (12.7 x 12.7 x 5300 mm).

**Contact cutter**
The contact cutter enables EMC-compatible preparation of the contact point e.g. for earth ing straps. Plastic-bound abrasive with guide pin for round system punchings. With location point for drill, grinder etc.

**Contact paint**
Contact paint prevents the corrosion of conductive, unprotected contact points.

Contents:
12 ml
Earthing

**Earth straps**
For configuring a reliable earthing connection with perfect contact.
- With ring terminals in M6 and M8 to match the earthing screw
- Length-optimised and ready to install

<table>
<thead>
<tr>
<th>Cases</th>
<th>Connection options</th>
<th>Door/lid</th>
<th>Cases</th>
<th>Mounting plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL</td>
<td>M6</td>
<td>M6</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>EB/BG/IN 1510.280</td>
<td>M6</td>
<td>M6/M8(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AE/IN 1076.290</td>
<td>M6</td>
<td>M6/M8(2)</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>KE/KEL</td>
<td>M8</td>
<td>M8</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>AP/CM/TP</td>
<td>M6</td>
<td>M8</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>ES/TS</td>
<td>M8</td>
<td>M8</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>M8</td>
<td>M8</td>
<td>M8</td>
<td></td>
</tr>
</tbody>
</table>

(1) M6 with BG 1050.900
(2) M6 with AE 1032.XXX/AE 1035.XXX

**Earthing strap**
Tin-plated copper, in various lengths and cross-sections with press-fitted contact rings. Earthing straps counteract the current displacement effect at high frequencies, whilst at the same time offering highly flexible connection opportunities.

<table>
<thead>
<tr>
<th>For</th>
<th>Cross-section mm²</th>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>10</td>
<td>200</td>
<td>10</td>
<td>2412.210</td>
</tr>
<tr>
<td>M8</td>
<td>16</td>
<td>200</td>
<td>10</td>
<td>2412.216</td>
</tr>
<tr>
<td>M8</td>
<td>25</td>
<td>200</td>
<td>10</td>
<td>2412.225</td>
</tr>
<tr>
<td>M6</td>
<td>10</td>
<td>300</td>
<td>10</td>
<td>2412.310</td>
</tr>
<tr>
<td>M8</td>
<td>16</td>
<td>300</td>
<td>10</td>
<td>2412.316</td>
</tr>
<tr>
<td>M8</td>
<td>25</td>
<td>300</td>
<td>10</td>
<td>2412.325</td>
</tr>
</tbody>
</table>

**Assembly parts**
For fastening the earth straps and earthing braids to:
- Horizontal TS enclosure sections
- RS rail system
- ES system punchings

<table>
<thead>
<tr>
<th>Size</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>10 sets</td>
<td>2570.000</td>
</tr>
<tr>
<td>M8</td>
<td>10 sets</td>
<td>2559.000</td>
</tr>
</tbody>
</table>

**Contact washers**
Toothed contact washers facilitate secure PE conductor connection. As a result, there is no need to manually strip paint in the connection area.

<table>
<thead>
<tr>
<th>Size</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>100</td>
<td>2343.000</td>
</tr>
<tr>
<td>M6</td>
<td>100</td>
<td>2334.000</td>
</tr>
<tr>
<td>M8</td>
<td>100</td>
<td>2335.000</td>
</tr>
</tbody>
</table>

**Earthing plate**
For installation in:
- Comfort Panel
- VIP 6000
- Optipanel
- TS
- ES
One earthing cable can be screw-fastened to the threaded bolt and can be distributed to up to 8 components via 6.3 mm flat-pin connectors.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2570.500</td>
</tr>
</tbody>
</table>

**Supply includes:**
Assembly parts.
Central earthing point

For connecting
- Earth straps
- Earthing braids
to the vertical and horizontal enclosure profile.
The connection bracket is connected to the enclo-
sure frame with 2 screws and is securely con-
tacted.
Earth connection is carried out via the threaded
bolt M8 x 20 mm.

Material:
Sheet steel, zinc-plated, passivated.

Supply includes:
1 central earthing point
2 screws 5.5 x 13 mm,
2 serrated washers,
1 nut M8,
1 contact washer M8,
1 washer.

Potential equalisation star

for 8 mm earthing bolt
The earthing connector is used for simple
potential equalisation on an 8 mm earthing bolt,
or in conjunction with central earthing point
DK 7829.200. Up to five flat connectors (6.3 mm)
may be contacted on one earthing point.

Supply includes:
10 earthing connectors, including assembly parts.

Complete earthing kit

for DK-TS
To DIN EN 60 950/VDE 0805, Ø 4 mm², I_{max.} 40 A.
For system-compatible earthing of all enclosure
parts on the enclosure frame according to VDE.
The earth conductors are pre-assembled ready
for connection with connectors and cut to the right
length.

Supply includes:
Central earthing point and assembly parts.

Complete earthing kit

for TE
To DIN EN 60 950/VDE 0805, Ø 4 mm², I_{max.} 40 A.
For system-compatible earthing of all enclosure
parts on the enclosure frame according to VDE.
The earth conductors are pre-assembled ready
for connection with connectors and cut to the right
length.

Supply includes:
Assembly parts.

Earthing kit KE

For producing the required external potential
equalisation for painted series enclosures
- KL
- AE
- TS
For applications in Unit Group II, Category 3,
in compliance with Directive 94/9 EU –
Appendix VIII, internal production control.

Supply includes:
Packs of 5
Earthing

**Earthing kit for KL**
Consisting of all the screws, nuts, contact washers and earthing strip needed to earth the cover; length 250 mm, cross-section 4 mm².

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. KL</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>2570.100</td>
</tr>
</tbody>
</table>

**Earthing kit for TC Rack**
To DIN EN 60 950/VDE 0805, I_max. 40 A.
For star earthing. With the pre-assembled earth conductors, star potential equalisation is easily integrated.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7277.000</td>
</tr>
</tbody>
</table>

**Supply includes:**
Earthing leads 6 mm², assembly parts for earthing leads, earth rail.

**Earthing kit for QuickBox**
Earth straps in the appropriate lengths to match the enclosure depth are included in the earthing kit, for earthing all enclosure panels on the wall mounting part. The earth strap is a fast-on connector which is quickly disconnected and conveniently accessible when the door is open. In this way, the enclosure cover can be removed completely.

<table>
<thead>
<tr>
<th>For enclosure depth</th>
<th>Packs of</th>
<th>Model No. QB</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300/400</td>
<td>1 set</td>
<td>7502.240</td>
</tr>
<tr>
<td>500/600</td>
<td>1 set</td>
<td>7502.260</td>
</tr>
</tbody>
</table>

**Supply includes:**
5 earth leads 1.5 mm², 4 cable retention clips, assembly parts.

**PE busbar**
695 mm long PE busbar with pre-fitted screws, including terminal clamps up to 6 mm² (fine wire conductors), 10 mm² (single wire or multi-wire conductors) and main terminal clamp up to 35 mm².

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2364.000</td>
</tr>
</tbody>
</table>

**Earth rail, horizontal for TS, FR(i)**
Potential equalisation rail
Current carrying capacity approx. 200 A.

**Supply includes:**
Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm, 20 connection points with M5 screws, 2 earth connections 25 mm², 2 isolators, including assembly parts.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>1</td>
<td>7113.000</td>
</tr>
</tbody>
</table>

**Earthing kit, pre-assembled for DK-TS**
For star earthing. With the pre-assembled earth conductors on a potential equalisation rail, star potential equalisation is easily integrated into network enclosures.

**Supply includes:**
Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, earthing leads 6 mm², 2 isolators, incl. assembly parts.

<table>
<thead>
<tr>
<th>For TS enclosures</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to W x H x D mm</td>
<td>1 set</td>
<td>7829.100</td>
</tr>
<tr>
<td>800 x 2000 x 800</td>
<td>1 set</td>
<td>7829.110</td>
</tr>
<tr>
<td>800 x 2200 x 1000</td>
<td>1 set</td>
<td>7829.110</td>
</tr>
</tbody>
</table>
Earthing

**Earth rail, vertical**
for network enclosures
Easily fitted to the 25 mm DIN pitch pattern of distributors or to the 482.6 mm (19") mounting angles. The supplied earth conductors facilitate star earthing of the cable clamp straps in the patch panels. The earth terminals are fully adjustable. Current carrying capacity of rail approx. 200 A.

**Supply includes:**
Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm,
16 conductor connection clamps with 2.5 – 16 mm²,
15 earthing leads 6 mm², L = 500 mm, including assembly parts.

<table>
<thead>
<tr>
<th>For enclosure height mm</th>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>600</td>
<td>1 set</td>
<td>7541.000</td>
</tr>
<tr>
<td>1000</td>
<td>800</td>
<td>1 set</td>
<td>7542.000</td>
</tr>
<tr>
<td>1200</td>
<td>1000</td>
<td>1 set</td>
<td>7543.000</td>
</tr>
<tr>
<td>1400</td>
<td>1200</td>
<td>1 set</td>
<td>7544.000</td>
</tr>
<tr>
<td>1600</td>
<td>1400</td>
<td>1 set</td>
<td>7545.000</td>
</tr>
<tr>
<td>1800</td>
<td>1600</td>
<td>1 set</td>
<td>7546.000</td>
</tr>
<tr>
<td>2000</td>
<td>1800</td>
<td>1 set</td>
<td>7547.000</td>
</tr>
<tr>
<td>2200</td>
<td>2000</td>
<td>1 set</td>
<td>7548.000</td>
</tr>
</tbody>
</table>

**Expansion kit**
for earth rail, vertical
For system-compatible expansion of the star earthing on the vertical potential equalisation rail.

**Supply includes:**
Earthing leads 6 mm², pre-configured, with ring terminals and wire end ferrules, L = 500 mm, with earth terminals 2.5 – 16 mm², including assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>7549.000</td>
</tr>
</tbody>
</table>

**ESD connection point**
During maintenance or conversion work on the enclosure, dangerously high potential differences can occur. To protect sensitive electronic components, this standardised connection point (push-button) provides potential equalisation. The connection point is directly conductively connected to the enclosure frame via two screws.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7752.950</td>
</tr>
</tbody>
</table>
The socket strips in the aluminium channel are available in various lengths with different functional elements. Special attention has been devoted to practical, universal fastening: Variable attachment facilities have been created with an angle bracket which may be inserted in four positions. Hence, for example, the 482 mm long socket strip may optionally be mounted on 482.6 mm (19”) mounting angles, the 482.6 mm (19”) mounting frame, on the enclosure frame, or in the rear section of the wall-mounted distributor.

Without additional mounting accessories, the socket strip may be inserted into all sections with a 25 mm pitch pattern. This makes selection much easier, as well as providing additional flexibility and saving on warehousing. Provision has also been made for cable routing of the infeed, and when mounting in the 482.6 mm (19”) section there is adequate space to route the infeed between the socket strip and the mounting angle without kinks. The arrangement of the sockets at a 45° angle allows unrestricted use of angular connectors.

Technical specifications:
- Rated voltage: 250 V
- Rated current: 10/16 A
- Connection cable: 2 m long H05VV-F3G1.5 with wall connector
- Material: Aluminium section natural-anodised, socket inserts polycarbonate
- Supply includes: Socket strip, two mounting brackets, assembly parts.

Standards:
- Sockets: DIN VDE 0620-1 (VDE 0620-1: 2005-04)
- Sockets B/F: UTE NFC 61-303, CEE 7/NV
- EMC interference suppression filter: DIN EN 60 939-2 (VDE 0565 part 3-1, 2006/5), DIN VDE 0620-1 (VDE 0620-1: 2005-04)

Detailed drawing, see page 1039.

<table>
<thead>
<tr>
<th>Design</th>
<th>Number of sockets</th>
<th>Attachment</th>
<th>Length (T1) mm</th>
<th>Mounting dimension (T2) mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without rocker switch</td>
<td>3</td>
<td>#</td>
<td>262.6</td>
<td>232.5</td>
<td>7240.110</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.210</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>#</td>
<td>658.6</td>
<td>628.5</td>
<td>7240.310</td>
</tr>
<tr>
<td>With rocker switch</td>
<td>3</td>
<td>#</td>
<td>306.6</td>
<td>276.5</td>
<td>7240.120</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.220</td>
</tr>
<tr>
<td>Overvoltage protection and interference suppression filter</td>
<td>5</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.230</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>#</td>
<td>658.6</td>
<td>628.5</td>
<td>7240.330</td>
</tr>
<tr>
<td>Overvoltage protection and interference suppression filter, with RJ 10 connector for connection to the CMC</td>
<td>9</td>
<td>#</td>
<td>812.6</td>
<td>782.5</td>
<td>7200.630</td>
</tr>
<tr>
<td>Miniature circuit-breaker</td>
<td>5</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.240</td>
</tr>
<tr>
<td>Master-Slave</td>
<td>1 + 3</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.250</td>
</tr>
<tr>
<td>UPS strip</td>
<td>7</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.260</td>
</tr>
<tr>
<td>RCCB</td>
<td>5</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.280</td>
</tr>
<tr>
<td>RCCB and line protection</td>
<td>5</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.290</td>
</tr>
<tr>
<td>For IEC 320 connectors 10 A</td>
<td>12</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.200</td>
</tr>
<tr>
<td>For IEC 320 connectors with IEC 320 input, 10 A</td>
<td>9</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.201</td>
</tr>
<tr>
<td>For IEC 320 connectors with overvoltage protection and interference suppressor filter, 10 A</td>
<td>6</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.205</td>
</tr>
<tr>
<td>With 2 circuits</td>
<td>6 + 6</td>
<td>#</td>
<td>720.6</td>
<td>690.5</td>
<td>7240.370</td>
</tr>
<tr>
<td>B/F sockets (Belgium, France)</td>
<td>7</td>
<td>#</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.510</td>
</tr>
<tr>
<td>B/F sockets (Belgium, France)</td>
<td>12</td>
<td>#</td>
<td>658.6</td>
<td>628.5</td>
<td>7240.512</td>
</tr>
</tbody>
</table>

1) Variable attachment distance within a range of 25 mm, the distance given is hole centre – hole centre of mounting bracket.
Technical properties depending on variant:

**Rocker switch**
Illuminated, 2-pole switch. The safety bars prevent accidental contact.

**Master/Slave**
2-pole electronic automatic switching unit. The operating point may be set from 9 W to 35 W. Equipment which switches to energy-saving or stand-by mode when switched on cannot be used as the master device. In the ON state, the master device must draw 9 W, and must not draw more than 35 W in the OFF state.

**Overvoltage protection and interference suppression filter**
The connected equipment is protected from voltage peaks in the mains and spikes.

The EMC interference suppression filter provides protection from high-frequency interference voltage from both directions – the mains and the connected equipment. The green ready light is extinguished in the event of disconnection or malfunctions. Connected equipment remains disconnected.

**Overvoltage protection device (SPD), type 3**
Maximum continuous voltage Uc: 280 V AC
Rated current IL: 16 A
Maximum overvoltage protection on the mains side:
LS:B16A or 16AgL/gG
Protection level Up: 1.5 kV
Combined surge Uco (L-N): 5 kV
Combined surge Uco (L/N-PE): 10 kV
Rated discharge current In (L-N): 5 kA
Rated discharge current In (L/N-PE): 15 kA
Arrester disconnector: Permanently disconnects SPD and equipment from the mains.
Status display: Green ready light is extinguished upon disconnection.

**Overvoltage protection and interference suppression filter, with RJ 10 connector for CMC connection**
With the relay message contact, undervoltage and failures caused by overvoltage can be reported in the network via the CMC via SNMP trap.
Relay alarm output: RJ 10 jack
Load capacity of relay: 50 V DC, 100 mA

**Circuit-breaker**
Protects cables from short-circuit and overload. 2-pole switching (thermal/magnetic).
Tripping characteristic B, to DIN VDE 0641/A4/1188, 16 A/250 V–.

**UPS strip**
With red socket strip inserts. These indicate the items of equipment protected by a UPS.
Connection cable with IEC 320 connector.
Cable: H05VV-F3G1.0/rated current: 10 A.

**2 circuits**
Two circuits with two separate connection cables, 2.5 m.

**FI protection**
For personal protection. With residual current circuit-breaker ΔIn 30 mA to DIN VDE 0664 part 1/85.

**RCBO protection**
A combination of personal, overload and short-circuit protection. With residual-current circuit-breaker ΔIn 30 mA to DIN VDE 0664 part 1/85 and residual-current circuit-breaker to DIN VDE 0641/A 4/11.88 16 A/250 V–.

**Version B/F (Belgium/France)**
With 7 or 12 sockets to CEE 7-V UTE, with child-proof system.

**IEC 320 connector**
Standard E IEC 320,
Built-in IEC 320 socket
Standard F IEC 320,
DIN standard for both: up to 70°C,
DIN EN 60 320-2-2: 1999-09,
DIN EN 60 320-1: 2002-06,
DIN EN 60 320-1: 2001,
connection cable, 2 metres or IEC 320 input in the connector panel.
Cable: H05VV-F3G1.0/rated current: 10 A.
**Socket strips**

**With C13/19 sockets**

For further details, see page 1038.

<table>
<thead>
<tr>
<th>Design</th>
<th>Number of sockets</th>
<th>Attachment</th>
<th>Length mm</th>
<th>Mounting dimension mm&lt;sup&gt;1)&lt;/sup&gt;</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>C13 IEC 320 socket&lt;sup&gt;3)&lt;/sup&gt;</td>
<td>15</td>
<td>■</td>
<td>592.6</td>
<td>562.5</td>
<td>7240.130</td>
</tr>
<tr>
<td>C13 IEC 320 socket&lt;sup&gt;3)&lt;/sup&gt; with RC protection</td>
<td>15</td>
<td>■</td>
<td>724.6</td>
<td>694.5</td>
<td>7240.140</td>
</tr>
<tr>
<td>C13 IEC 320 socket&lt;sup&gt;3)&lt;/sup&gt; with 2&lt;sup&gt;2)&lt;/sup&gt; infeeds</td>
<td>9 + 9</td>
<td>■</td>
<td>764.6</td>
<td>734.5</td>
<td>7240.150</td>
</tr>
<tr>
<td>C19 IEC 320 socket&lt;sup&gt;4)&lt;/sup&gt;</td>
<td>6</td>
<td>■ ■ ■</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.160</td>
</tr>
<tr>
<td>C19 IEC 320 socket&lt;sup&gt;4)&lt;/sup&gt; with overvoltage protection device</td>
<td>4</td>
<td>■ ■ ■</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.170</td>
</tr>
<tr>
<td>C19 IEC 320 socket&lt;sup&gt;4)&lt;/sup&gt; with RC protection</td>
<td>4</td>
<td>■ ■ ■</td>
<td>482.6</td>
<td>452.5</td>
<td>7240.180</td>
</tr>
<tr>
<td>C19 IEC 320 socket&lt;sup&gt;4)&lt;/sup&gt; with 2&lt;sup&gt;3)&lt;/sup&gt; infeeds</td>
<td>3 + 3</td>
<td>■ ■ ■</td>
<td>478.6</td>
<td>448.5</td>
<td>7240.190</td>
</tr>
</tbody>
</table>

All socket strips may also be ordered with a Wieland GST infeed.

1) Variable attachment distance within a range of 25 mm, the distance given is hole centre – hole centre of mounting bracket.

2) In order to make allowance for the higher output density e.g. in an IT environment, the socket strips are equipped with 2 independent infeeds. This means it is possible to supply 2 x 16 A/250 V with one socket strip.

3) With IEC 320 socket to standard F EN 60 320-2-2

4) With IEC 320 socket to standard J EN 60 320-2-2

---

**Trendline**

B 7.7

Page 1040

Rittal Catalogue 32/System accessories
Socket strips 230 V

Technical specifications:
Rated voltage 250 V AC, max. load
CH 10 A, GB 13 A.

Material:
Plastic, halogen-free
Connection cable, 2 m long, without connector
H05VV-F3G1 (CH)
H05VV-F3G1.5 (GB)
Unrestricted use, even of angular connectors, by arranging the plug-in contacts in a long row.

<table>
<thead>
<tr>
<th>Number of sockets</th>
<th>Length mm</th>
<th>Model No. DK UK version</th>
<th>Model No. DK CH version</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>470 (1)</td>
<td>7404.000</td>
<td>7604.000 (2)</td>
</tr>
<tr>
<td>12</td>
<td>740</td>
<td>7408.510</td>
<td>7608.510 (2)</td>
</tr>
<tr>
<td>18</td>
<td>1153</td>
<td>7412.510 (2)</td>
<td>—</td>
</tr>
</tbody>
</table>

(1) The socket strips can be mounted horizontally at the rear of the DK wall-mounted distributor based on EL/AE.
(2) Extended delivery times.

Socket strip TE

8-way socket strip for earthing-pin plug/version D. The strip is made of plastic and may be mounted vertically on the TE frame or in the rear 482.6 mm (19") section. In the 482.6 mm (19") section, more than 2 U of space is required. The sockets are arranged at an angle of 45° so that angular connectors are also easily used. The socket strip is supplied with a 2 m connection cable. The connection cable is attached in a terminal raceway in the strip. The terminal slot is equipped with a separate cover, so that this connection point can always be quickly and easily accessed. Replacement of the connection cable is likewise simple. Furthermore, the socket strip has external terminals for separate earthing.

Technical specifications:
Rated voltage: 230 Volt AC
Rated current: Max. 10/16 A
Connection cable: Length 2 m, H05VV-F3G1, 1.5 mm², without connectors, with wire end ferrules

<table>
<thead>
<tr>
<th>Socket strip TE</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-way, earthing-pin</td>
<td>7000.630</td>
</tr>
</tbody>
</table>

Socket strip, 482.6 mm (19") with optional locking of the cable outlets
The socket strip is constructed from an aluminum channel and is 482.6 mm (19") wide and 1 U high, and may be integrated into all standard 482.6 mm (19") mounting frames. Special attention has been devoted to practical, universal fastening. The universal mounting bracket creates variable mounting opportunities. For example, the 439 mm long socket strip may optionally be mounted on the 482.6 mm (19") mounting angle or on the punched section with mounting flange and enclosure frame.

Additionally, a locking option for the outgoing cables to the equipment has now been integrated. This protects the cables from unintentional loosening, which in turn increases the security and availability of applications.

Technical specifications:
Mains voltage: 250 V
Rated current: 10/16 A
Connection cable: 1.5 m

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x C13</td>
<td>7240.600</td>
</tr>
</tbody>
</table>

Accessories:
PSM cable lock, see page 790.
Socket strips

**Socket strips with ammeter**
The socket strip with ammeter measures the active power of the connected equipment. The two variants “earthing pin contact” and “IEC 320 socket C13” provide the most commonly used plug-in contacts in data centres. The 482.6 mm (19") long socket strip may optionally be mounted on the 482.6 mm (19") mounting angles, on the 482.6 mm (19") mounting frame, on the enclosure frame or in the rear section of wall-mounted distributors. The installation bracket may be mounted in four different positions for variable mounting. Without additional mounting accessories, the socket strip may be inserted into all sections with a 25 mm pitch pattern.

<table>
<thead>
<tr>
<th>Design</th>
<th>Number of sockets</th>
<th>Attachment</th>
<th>Length mm</th>
<th>Mounting dimension mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthing-pin socket</td>
<td>6</td>
<td>Frame</td>
<td>482.6</td>
<td>464.1</td>
<td>7240.300</td>
</tr>
<tr>
<td>C13 IEC 320 socket</td>
<td>8</td>
<td>Wall-mounted distributor, horizontal</td>
<td>482.6</td>
<td>464.1</td>
<td>7240.305</td>
</tr>
</tbody>
</table>

1) Variable attachment distance within a range of 5 mm, the distance given is hole centre – hole centre of mounting bracket.

**Junction box with multi-functional bracket**
The angle bracket can be installed in all network enclosures in a system-compatible design. The junction box serves as a transfer point for the power supply to all equipment (fans, lamps and socket strips). As well as being used as a junction box or interchange point, the bracket may also accommodate the thermostat (SK 3110.000) or the hygrostat (SK 3118.000) thanks to its integral holes.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7280.035</td>
</tr>
</tbody>
</table>

**Socket**

- For mounting on support rails TS 35/7.5 and TS 35/15 to EN 60 715
- Screw terminals uniformly from one side
- Enclosure width 45 mm

**Technical specifications:**
Rated voltage: 250 V AC
Rated current (DC/AC): 10 A/16 A

**Material:**
Polyamide

**Colour:**
Grey

**Standards:**
DIN VDE 0620-1
DIN 49 440-1

---

Material:
Aluminium section: Natural-anodised
Socket inserts: Polycarbonate

Supply includes:
Socket strip with two mounting brackets including assembly parts,
1.5 m connection cable with open ends.

Technical specifications:
Mains voltage: 250 V
Rated current: 10/16 A, C13 earthing-pin
Connection cable: 1.5 m
### Service socket

**for enclosure frame attachment**  
Integration of a service socket within a separate supply circuit, independently of the IT network and UPS.  
Simple installation via an angle bracket for attaching to the enclosure frame.  

**Material:**  
- Angle bracket: Sheet steel, zinc-plated, passivated.  
- Socket: Plastic  

**Supply includes:**  
- Angle bracket, damp-proof socket (IP 44), including assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7280.100</td>
</tr>
</tbody>
</table>

### Socket strip

**with three sockets, overvoltage protection and interference suppression filter**  
For connecting  
- PC  
- Monitor  
- Printer  

Attached to the horizontal or vertical TS enclosure section using the supplied mounting bracket.  
Socket inserts rotated through 45°. Connection socket for power infeed.

**Technical specifications:**  
- Rated voltage: 230 V AC  
- Rated current: 16 A  
- Sockets: DIN VDE 0620-1  
- Overvoltage protection for low voltage: DIN EN 61 643-11 (VDE 0660 part 6-11)  
- EMC interference suppression filter: EN 133 200

**Material:**  
- Extruded aluminium section natural-anodised,  
- socket inserts polycarbonate

**Supply includes:**  
- Two mounting brackets and assembly parts.

<table>
<thead>
<tr>
<th>Number of sockets</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>6446.500</td>
</tr>
</tbody>
</table>

⚠️ **Also required:**  
- Connection cable for infeed, see page 1030.

### Socket strip IW

For mounting on IW worktops or other surfaces via integrated wire clamps or by screw-fastening from above.  
Connection of worktop light IW 6903.080 via the connector integrated into the socket strip at the side.

**Material/Surface finish:**  
- Extruded aluminium section, natural-anodised,  
- socket strips and side section cover black plastic

**Supply includes:**  
- Assembly parts.

**Technical specifications:**  
- Rated voltage: 230 V AC  
- Rated current: 16 A  
- Connection cable: 2.5 m long H05VV-F 3G1.5 mm²

<table>
<thead>
<tr>
<th>Dimensions in mm</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>340 x 88 x 72</td>
<td>6902.040</td>
</tr>
</tbody>
</table>

**Design:**  
- 3 earthing-pin sockets, rotated 35°,  
- 1 rocker switch for power supply to sockets,  
- 1 jack on the left-hand side for through-wiring connection cable (e.g. for connecting a worktop light IW 6903.080, see page 189) with 1 rocker switch for power supply to jack.

**Accessories:**  
- Through-wiring connection cable, see page 1030.  
- Workstation light IW 6903.080, see page 189.
Energy-Box, 482.6 mm (19\")

**Technical specifications:**
A depth-variable top hat rail for installed equipment to DIN 43 880, sizes 1 – 3 (e.g. to accommodate built-in sockets, miniature circuit-breakers etc.). Cable clamping at the rear, one N and one PE rail on an insulated plinth. Plastic cover including extension cover (UL 94-V0), maximum accommodation of 22 installed devices (width 18 mm). Maximum accommodation capacity = 22 HP (22 x 18 mm = 396 mm).

**Colour:**
RAL 7035

**Supply includes:**
Energy-Box with plastic blanking covers.

**Note:**
Individual population with circuit-breakers at the factory available on request.

German patent no. 42 00 836

---

Energy-Box, 482.6 mm (19\”), pull-out

This Energy-Box is designed to accommodate both DC and AC components. The pull-out component front affords optimum access to the wiring space from above and below.

Connection clamps for DC current:
- 2 clamps 35 mm²,
- 9 clamps 16 mm² (per rail)

for AC current:
- 1 clamp 16 mm² (PE or N),
- 20 clamps 4 mm² (per rail)

**Technical specifications:**
Depth-adjustable top hat rail for snap-in attachment of installed equipment to DIN 43 880 in sizes 1 – 3 (e.g. to accommodate built-in sockets, miniature circuit-breakers etc. or entire installation assemblies such as the ABB “smissline” system). Cable clamping at the rear, two power distribution rails with connection clamps on isolated base/plinth. Plastic cover including extension cover, maximum accommodation of 22 items of installed equipment (width 18 mm). Maximum accommodation capacity = 22 HP (22 x 18 mm = 396 mm). Depth: 220 mm.
Cable entry plates

For
- Cable entry grommets
- Connector grommets instead of segments of the standard divided gland plates.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

For installation in TS and PC enclosures based on TS

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Cut-outs per plate</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>5</td>
<td>2</td>
<td>8800.060</td>
</tr>
<tr>
<td>800</td>
<td>8</td>
<td>2</td>
<td>8800.080</td>
</tr>
<tr>
<td>850</td>
<td>9</td>
<td>2</td>
<td>8800.085</td>
</tr>
<tr>
<td>1000</td>
<td>4</td>
<td>4</td>
<td>8800.100</td>
</tr>
<tr>
<td>1200</td>
<td>6</td>
<td>4</td>
<td>8800.120</td>
</tr>
</tbody>
</table>

For installation in CM enclosures and TP TopConsole system

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Cut-outs per plate</th>
<th>Packs of</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>5</td>
<td>1</td>
<td>5001.226</td>
</tr>
<tr>
<td>800</td>
<td>8</td>
<td>1</td>
<td>5001.227</td>
</tr>
<tr>
<td>1000</td>
<td>4</td>
<td>1</td>
<td>5001.228</td>
</tr>
<tr>
<td>1200</td>
<td>6</td>
<td>1</td>
<td>5001.229</td>
</tr>
<tr>
<td>1600</td>
<td>8</td>
<td>1</td>
<td>5001.237</td>
</tr>
</tbody>
</table>

For installation in ES, PC enclosures based on ES and in AP universal console, CS basic enclosure

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Cut-outs per plate</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>5</td>
<td>2</td>
<td>4320.700</td>
</tr>
<tr>
<td>800</td>
<td>8</td>
<td>2</td>
<td>4321.700</td>
</tr>
<tr>
<td>1000</td>
<td>10</td>
<td>2</td>
<td>4323.700</td>
</tr>
<tr>
<td>1200(1)</td>
<td>6</td>
<td>4</td>
<td>4325.700</td>
</tr>
</tbody>
</table>

(1) Including compensating plate
(2) For CS basic enclosures, two TS 4320.700 are required.

For TS stainless steel

Material:
Stainless steel 1.4301 (AISI 304)

For installation in TS, stainless steel

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Cut-outs per plate</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>5</td>
<td>2</td>
<td>8700.600</td>
</tr>
<tr>
<td>800</td>
<td>8</td>
<td>2</td>
<td>8700.800</td>
</tr>
<tr>
<td>1200</td>
<td>6</td>
<td>4</td>
<td>8700.120</td>
</tr>
</tbody>
</table>

Accessories:

Cable entry grommets, see page 1046.

Three examples from a wide range of possibilities

The diagrams show three TS examples for the positioning of cable entry plates instead of segments of the three-piece gland plates supplied as standard. This facilitates positioning to fit the mounting plate.

Thanks to the enclosure symmetry, where dimensions permit, cable entry plates may also be inserted in the enclosure depth, right and left, analogous to the gland plates.
Cable entry grommets
In conjunction with the cable entry plate, simple and fast sealing of cables inserted in the base area of enclosures.

Material:
Body: Polypropylene
Cover: Thermoplastic elastomer

Protection category:
IP 55 subject to correct mounting.

Cables per grommet | Max. Ø mm | Packs of | Model No. PS
--- | --- | --- | ---
8 | 13 | 25 | 4316.000
3 | 21 | 25 | 4317.000
1 | 47 | 25 | 4318.000

German patent no. 42 07 281
European patent no. 0560119
with validity for FR, GB, IT, NL
Japan. patent no. 2533052
US patent no. 5,422,436

Connector grommets
Suitable for cable diameters from 8 to 36 mm.

Material:
Outer cover: Polypropylene covered with thermoplastic elastomer
Seal: Cellular rubber

Protection category:
IP 55 subject to correct mounting.

Packs of Model No. PS
--- | ---
10 | 4311.000

German patent no. 44 05 328
Italian patent no. 0 127 3503
French patent no. 2 716 583

Section for cable entry, centre
for TS, CM, TP, FR(i)
For top-mounting on gland plates. A superior alternative to the foam rubber cable clamp strip, thanks to:
● Easier mounting
● Full-surface support
● High level of sealing of cables inserted into the enclosure

Material:
Extruded aluminium section, seal PU foam, cross-section: 30 x 25 mm

Protection category:
IP 55 subject to correct mounting.

Note:
1 set is sufficient for one base opening up to an enclosure width of 800 mm. From an enclosure width of 1000 mm, two base openings are provided. 2 sets per enclosure may be fitted.

For enclosure width mm | Packs of | Model No. TS
--- | --- | ---
600 | 1 set | 8802.060
800 | 1 set | 8802.080
1000 | 2 sets | 8802.100
1200 | 2 sets | 8802.120
1600 | 2 sets | 8802.160

Accessories:
Cable clamp rail (right angle section), see page 1061.
C rail, see page 999.

Y = Mounting plate depth-adjustable on a 25 mm pitch pattern (final pitch 30 mm).
Section for cable entry, rear
for TS, CM, TP, FR(i)
Unlike the section for cable entry, centre, the rear section is mounted directly onto the base opening. In this way, when installing the mounting plate in the rearmost position (TS) or with CM, the cables may be routed directly on a cable clamping rail with no large radii. In conjunction with the cable clamp rail, optimum adjustment between the cable entry and mounting plate can be achieved.

Material:
Extruded aluminium section, seal PU foam, cross-section: 30 x 25 mm

Protection category:
IP 55 subject to correct mounting.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1 set</td>
<td>8802.065</td>
</tr>
<tr>
<td>800</td>
<td>1 set</td>
<td>8802.085</td>
</tr>
<tr>
<td>1000</td>
<td>2 sets</td>
<td>8802.105</td>
</tr>
<tr>
<td>1200</td>
<td>2 sets</td>
<td>8802.125</td>
</tr>
<tr>
<td>1600</td>
<td>2 sets</td>
<td>8802.165</td>
</tr>
</tbody>
</table>

Note:
1 set is sufficient for one base opening up to an enclosure width of 800 mm.
From an enclosure width of 1000 mm, two base openings are provided. 2 sets per enclosure may be fitted.

Accessories:
Cable clamp rail, see page 1062.

Foam rubber cable clamp strip
For sealing the cable entry between the gland plates. Particularly suitable for identical cable cross-sections.

Material:
PU foam, cross-section: 30 x 30 mm

Protection category:
IP 55 subject to correct mounting.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 m</td>
<td>2573.000</td>
</tr>
</tbody>
</table>

EMC gland plates
see page 1032.
### Gland plates

#### Plastic cable gland plates

With pre-punched PG holes for cable glands. Used for sealing standard gland plates. Temperature range: suitable for use from –40°C to +70°C.

**Colour:** RAL 7035

**Note:** The applicable size can be taken from the respective product ordering page.

#### Gland plates

Temperature range: suitable for use from –40°C to +70°C.

**Material:** ABS

**Colour:** RAL 7035

**Note:** The applicable size can be taken from the respective product ordering page.

---

**Table**

<table>
<thead>
<tr>
<th>Size</th>
<th>Packs of</th>
<th>Model No. S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>2560.000</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>2561.000</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>2562.000</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>2563.000</td>
</tr>
</tbody>
</table>

To order the version with knockouts for metric cable glands, please add extension .010 to the model no.
Plastic gland plates
with membranes
Simply pierce the plastic with a sharp object, and pull through the cable.

Material:
Plastic to UL 94-V2

Colour:
Similar to RAL 7035

Protection category:
IP 65 with careful cable entry.

Note:
The applicable size can be taken from the respective product ordering page.

<table>
<thead>
<tr>
<th>Size</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>2561.500</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>2562.500</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>2563.500</td>
</tr>
</tbody>
</table>

Metal gland plates
Pre-punched
Simply knock out the holes for the cable glands using a screwdriver.

Material:
Sheet steel

Colour:
RAL 7035

Protection category:
IP 66 when mounting in the usual bottom position.

Note:
The applicable size can be taken from the respective product ordering page.

<table>
<thead>
<tr>
<th>Size</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1581.100</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>2561.100</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>2562.100</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>2563.100</td>
</tr>
</tbody>
</table>

Number of cable entries

<table>
<thead>
<tr>
<th>Diameter mm</th>
<th>Number of cable entries for Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12</td>
<td>1581.100</td>
</tr>
<tr>
<td>M16</td>
<td>2561.100</td>
</tr>
<tr>
<td>M20</td>
<td>2562.100</td>
</tr>
<tr>
<td>M25</td>
<td>2563.100</td>
</tr>
<tr>
<td>M32</td>
<td></td>
</tr>
<tr>
<td>M40</td>
<td></td>
</tr>
</tbody>
</table>

Accessories:
Cable glands made from polyamide or brass, see page 1054.
Gland plates

Metal gland plates
As a spare/replacement part for gland plates supplied loose as standard, or for first-time installation of RiLAN industrial distributors.

Material:
Sheet steel

Colour:
RAL 7035

Protection category:
IP 66 when mounting in the usual bottom position.

Note:
The applicable size can be taken from the respective product ordering page.

<table>
<thead>
<tr>
<th>Size</th>
<th>Design</th>
<th>Packs of</th>
<th>Model No. SZ/IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solid</td>
<td>1</td>
<td>2560.400</td>
</tr>
<tr>
<td>3</td>
<td>Solid</td>
<td>1</td>
<td>2561.400</td>
</tr>
<tr>
<td>4</td>
<td>Solid</td>
<td>1</td>
<td>2562.400</td>
</tr>
<tr>
<td>5</td>
<td>Pre-punched 27 x M20</td>
<td>1</td>
<td>2203.010</td>
</tr>
<tr>
<td></td>
<td>With 27 cable glands M20</td>
<td>1</td>
<td>2203.020</td>
</tr>
<tr>
<td>6</td>
<td>Pre-punched 27 x M20</td>
<td>1</td>
<td>2207.010</td>
</tr>
<tr>
<td></td>
<td>With 27 cable glands M20</td>
<td>1</td>
<td>2207.020</td>
</tr>
</tbody>
</table>

1) Any cable glands that are not required must be sealed with sealing bungs SZ 2411.532 (see page 1055).
Gland plates

**Metal gland plate with grommets**

**Design:**
4 inserts each with 8 grommets for cable diameters up to 13 mm.

**Material:**
- Gland plate: Sheet steel, zinc-plated, passivated,
- Cable entry grommet: Polypropylene,
- Cover: Thermoplastic elastomer.

**Note:**
The applicable size can be taken from the respective product ordering page.

**Protection category:**
IP 54 to EN 60 529/09.2000 when mounted in the usual position, bottom.

**Size** | **Dimensions** | **Packs of** | **Model No. IN**
---|---|---|---
5 | 534 x 149 mm | 1 | 2203.030

---

**Metal gland plates**

**Material:**
Sheet steel, spray-finished

**Colour:**
RAL 7035

**Note:**
The applicable size can be taken from the respective product ordering page.

**KL 1158.500**

**KL 1158.530**

---

**Module plates for individual cable entry**

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Design</th>
<th>Material</th>
<th>Packs of</th>
<th><strong>Model No. BG</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>With connector grommet for 2 cables with connectors up to d = 8.5 mm</td>
<td>Module plate: Sheet steel, zinc-plated, passivated Connector gland (For details, see SZ 2400.300, page 1057)</td>
<td>1</td>
<td>1158.900</td>
</tr>
<tr>
<td>2</td>
<td>Punched for metric cable gland</td>
<td>Solid</td>
<td>10</td>
<td>1158.910 1158.930</td>
</tr>
<tr>
<td>3</td>
<td>For direct, IP-protected insertion of sensor/actuator cables</td>
<td>Plastic module plate with strain relief and flexible sealing membrane, including stoppers for any unused openings</td>
<td>1</td>
<td>1158.940 1158.950</td>
</tr>
</tbody>
</table>

To fit 0:
1) 2 cables from 6.8 to 8.8 mm and 2 cables from 7.8 to 10.7 mm
2) 8 cables from 3.8 to 6.3 mm
## Gland plates

### Gland plate

**solid, for QuickBox**
To conceal the cable entry openings. In exchange for the brush strip at the top and bottom that is used as standard.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. QB</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7502.310</td>
</tr>
</tbody>
</table>

### Gland plate

**for metric cable glands, for EL**
Folded gland plate with foamed-in seal and pre-punched, knock-out holes for metric cable glands M12, M20, M25, M32, M40.

**Material:**
1.5 mm sheet steel

**Colour:**
RAL 7035

**Protection category:**
IP 55 to EN 60 529/09.2000

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7705.235</td>
</tr>
</tbody>
</table>

### Gland plate

**solid, for EL**
Folded gland plate for the base box, with foamed-in seal.

**Material:**
1.5 mm sheet steel

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2235.135</td>
</tr>
</tbody>
</table>

### Gland plate

**with brush insert, for EL**
Folded gland plate with foamed-in seal and plastic brush inserts for simple cable entry.

**Material:**
1.5 mm sheet steel

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7705.035</td>
</tr>
</tbody>
</table>
**Gland plates**

**Gland plate**
for PG segments, for EL
Folded gland plate with foamed-in seal and cut-outs for PG segments.

**Material:**
1.5 mm sheet steel

**Colour:**
RAL 7035

---

**PG segments**
for EL
Plastic segments with pre-punched, knock-out holes for cable glands. Suitable for retrospective screw-fastening to gland plate EL 2235.005.

**Material:**
ABS, self-extinguishing to UL 94-V0

**Colour:**
RAL 7035

---

**Brush strip**
For individual installation of enclosure panels, gland plates and panels. Cut-outs for cable routing at any given positions in the side panel, rear panel, doors, roof and gland plate may be finished off attractively by simply attaching the brush strip.

**Technical specifications:**
- Bristle length: 30 mm
- Plastic sheathing: 18 mm
- Surface available for top-mounting: 10 mm
- Maximum cut-out height: 38 mm

**Material:**
Brush strip: Plastic, UL 94-V0

**Supply includes:**
1 brush strip each, 1 m in length, right-hand and left-hand version.

---

**Brush strip, super-airtight**
For individual installation of enclosure panels, gland plates and panels. These special brush strips may be used to create airtight entries for cable sections and conductors. These brush strips arranged in an offset configuration ensure good sealing from the routed cables even with large quantities of cables. In this way, unwanted system losses may be reduced to a minimum.

**Material:**
Brush strip: Plastic, UL 94-V0

**Supply includes:**
1 brush strip each, 1 m in length, right-hand and left-hand version.

**Technical specifications:**
- For metal thickness: 1.5 – 2 mm
- Bristle length: 51 mm
- Plastic sheathing: 14 mm
- Surface available for top-mounting: 11.5 mm
- Maximum cut-out width: 88 – 90 mm
Cable management

Cable gland

**Cable gland, brass**

**Benefits:**
- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage.
- Clamping membranes for even tightening and strain relief which protects the cables.
- Insulation via plastic insert.
- Optimum seal on the connection thread, thanks to O-ring.
- The lock nut cuts automatically into the spray-finish, thereby creating a conductive connection.

**Top-hat nut**
- Neoprene seal
- Plastic insert
- O-ring
- Lock nut

**Possible alternative:**
Cable gland Hygienic Design, see page 1056.

**Material:**
Nickel-plated brass, neoprene seal

**Protection category:**
IP 68 (5 bar, 30 min.) to EN 60 529/09.2000
IP 69K to DIN 40 050-9

**Approval:**
VDE tested to EN 50 262

**Accessories:**
Sealing bungs, see page 1055.
Multi-seal inserts, see page 1055.

<table>
<thead>
<tr>
<th>Size</th>
<th>Cable diameter mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12 x 1.5</td>
<td>3 – 6.5</td>
<td>15</td>
<td>2411.800</td>
</tr>
<tr>
<td>M16 x 1.5</td>
<td>4.5 – 10</td>
<td>15</td>
<td>2411.810</td>
</tr>
<tr>
<td>M20 x 1.5</td>
<td>6 – 12</td>
<td>10</td>
<td>2411.820</td>
</tr>
<tr>
<td>M25 x 1.5</td>
<td>11 – 17</td>
<td>10</td>
<td>2411.830</td>
</tr>
<tr>
<td>M32 x 1.5</td>
<td>15 – 21</td>
<td>5</td>
<td>2411.840</td>
</tr>
<tr>
<td>M40 x 1.5</td>
<td>19 – 28</td>
<td>4</td>
<td>2411.850</td>
</tr>
<tr>
<td>M50 x 1.5</td>
<td>27 – 38</td>
<td>2</td>
<td>2411.860</td>
</tr>
<tr>
<td>M63 x 1.5</td>
<td>34 – 44</td>
<td>1</td>
<td>2411.870</td>
</tr>
</tbody>
</table>

**Cable gland, polyamide**

**Benefits:**
- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage.
- Clamping membranes for even tightening and strain relief which protects the cables.
- Spray-moulded sealing lip ensures an optimum seal against the enclosure.
- Trapezoid thread for secure screw-fastening of the cap nut.

**Cap nut**
- Neoprene seal
- Trapezoid thread
- Sealing lip
- Lock nut

**Material:**
Polyamide 6, neoprene seal

**Colour:**
RAL 7035

**Protection category:**
IP 68 (5 bar, 30 min.) to EN 60 529/09.2000
IP 69K to DIN 40 050-9 (except SZ 2411.660 and SZ 2411.670)

**Approval:**
VDE tested to EN 50 262
CSA for USA and Canada

**Accessories:**
Polyamide reducers, see page 1055.
Sealing bungs, see page 1055.
Multi-seal inserts, see page 1055.
Polyamide reducers for polyamide cable glands
For adapting metric cable glands to larger diameter holes or threads.

**Advantage:**
Reducer and locking nut are sold together in a single pack; this saves additional ordering and storage.

**Material:**
Polyamide 6 GF30

**Colour:**
RAL 7035

**Note:**
Polyamide cable gland, see page 1054.

Sealing bung for cable glands M20 x 1.5
For use in all situations where preinstalled cable glands M20 x 1.5 must be kept free for future installations but properly sealed. Simply loosen the cap nut, mount the sealing bung, and retighten.

**Material:**
Polyamide 6

**Colour:**
RAL 7035

Multi-seal inserts
For the secure entry of several individual cables into a single cable gland.

**Material:**
Neoprene

<table>
<thead>
<tr>
<th>Size</th>
<th>Cable diameter mm</th>
<th>Number of cables</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>25</td>
<td>2411.500</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>25</td>
<td>2411.501</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>25</td>
<td>2411.502</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>25</td>
<td>2411.503</td>
<td></td>
</tr>
<tr>
<td>M25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>25</td>
<td>2411.504</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>6</td>
<td>25</td>
<td>2411.505</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>25</td>
<td>2411.506</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3</td>
<td>25</td>
<td>2411.507</td>
<td></td>
</tr>
<tr>
<td>M32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>25</td>
<td>2411.508</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>9</td>
<td>25</td>
<td>2411.509</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>25</td>
<td>2411.510</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>25</td>
<td>2411.511</td>
<td></td>
</tr>
</tbody>
</table>

Stoppers
For the reliable sealing of unused cable entries. Simply insert into the multi-seal inserts instead of a cable, and clamp via the cable gland. Length 14 mm.

**Material:**
Polyamide 6

<table>
<thead>
<tr>
<th>Diameter mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>25</td>
<td>2411.520</td>
</tr>
<tr>
<td>4</td>
<td>25</td>
<td>2411.521</td>
</tr>
<tr>
<td>5</td>
<td>25</td>
<td>2411.522</td>
</tr>
<tr>
<td>6</td>
<td>25</td>
<td>2411.523</td>
</tr>
</tbody>
</table>
Stainless steel cable gland, Hygienic Design
Suitable for use in the following areas
- Manufacturing and packaging of foodstuffs etc.
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

Benefits:
- Smooth, solid exterior surfaces effectively prevent the depositing of harmful micro-organisms. All threads are beneath the cap nut.
- Much easier, therefore cheaper, cleaning compared with conventional stainless steel cable glands.
- Reliable strain relief, thanks to duplicate cable attachment.
- Resistant to high-pressure cleaning (protection category IP 69K).

Material:
Cap nut: Stainless steel 1.4305 (AISI 303)
External seals: Made from FDA-approved material

Protection category:
IP 68 (5 bar, 30 min.) to EN 60 529/09.2000
IP 69K to DIN 40 050-9

Stainless steel lock nut
To fit the stainless steel Hygienic Design cable glands.
Material:
Stainless steel 1.4305 (AISI 303)

Assembly tool
for cable gland, stainless steel Hygienic Design
For attaching a stainless steel Hygienic Design cable gland to an external thread or via locking nuts. This can be achieved either from the inside or from the outside using an Allen key.

Supply includes:
1 set = adaptor for sizes from M12 – M25.

Size Packs of Model No. HD
M12 x 1.5 10 2410.290
M16 x 1.5 10 2410.290
M20 x 1.5 10 2410.290
M25 x 1.5 10 2410.290
**Connector gland**

**for connector cut-outs (24-pole)**

For the entry of 2 pre-assembled cables in the connector cut-out, without dismantling the connector.

For cable diameter from 8 – 36 mm.

**Material:**

Plastic

**Clamp terminals:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

1 set = 2 half-shells, including seals, with fastening clamp.

---

**Connector gland**

For pre-assembled cables with connectors.

- For material thickness of up to 4 mm.
- Strain relief of the pre-assembled cables can be achieved with cable ties.

**Material:**

Plastic

**Colour:**

RAL 9005

**Protection category:**

IP 65 subject to correct mounting.

**Supply includes:**

Assembly parts.

---

**Adaptor plate**

**for connector entry**

To fit

- IW worktop, prepared for turntable or enclosure attachment
- Operating housing with mounting cut-out CPL, round
- Surfaces
  - With 4 studs M6 x 45 mm.

**Material:**

Sheet steel, zinc-plated, passivated.

**Supply includes:**

Seal and assembly parts.
Cable management

Cable gland

Cable gland module
CP-L, Ø 130 mm
Use of the support arm cut-out CP-L, round, with enclosures mounted on the wall, for sealed cable entry. May also be mounted retrospectively with the cables already inserted.
Fitted with T-heads for cable clamping. Particularly well-suited to cables with identical cross-sections.
Material:
Sheet steel, zinc-plated, passivated.
Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6052.500</td>
</tr>
</tbody>
</table>

Double-membrane gland
for wall thicknesses from 1.5 to 4.5 mm
A high protection category can be achieved with cable entry, thanks to the double seal.
Material:
Plastic to UL 94-HB
Protection category:
IP 66 with careful cable entry.

<table>
<thead>
<tr>
<th>For hole</th>
<th>Sealing range mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M16</td>
<td>5 – 9</td>
<td>50</td>
<td>2898.160</td>
</tr>
<tr>
<td>M20</td>
<td>7 – 12</td>
<td>50</td>
<td>2898.200</td>
</tr>
<tr>
<td>M25</td>
<td>9 – 16</td>
<td>50</td>
<td>2898.250</td>
</tr>
<tr>
<td>M32</td>
<td>14 – 21</td>
<td>25</td>
<td>2898.320</td>
</tr>
</tbody>
</table>

Stepped collar
for wall thicknesses from 1.5 to 4.5 mm
For cable entry, simply cut off at the required level to match the cable diameter.
Material:
Plastic to UL 94-HB
Protection category:
IP 54 with careful cable entry.

<table>
<thead>
<tr>
<th>For hole</th>
<th>Sealing range mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>M20</td>
<td>5 – 16</td>
<td>100</td>
<td>2899.200</td>
</tr>
<tr>
<td>M25</td>
<td>5 – 21</td>
<td>50</td>
<td>2899.250</td>
</tr>
<tr>
<td>M32</td>
<td>13 – 26.5</td>
<td>25</td>
<td>2899.320</td>
</tr>
<tr>
<td>M40</td>
<td>13 – 34</td>
<td>20</td>
<td>2899.400</td>
</tr>
</tbody>
</table>

Edge protector
For covering sharp edges of cut-outs. Provides protection from injuries and prevents damage to inserted cables. The edge protector is suitable for material thicknesses of approx. 1.0 – 2.0 mm, and may be cut to length individually.
Material:
Plastic PVC
Colour:
Black

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 m</td>
<td>7072.100</td>
</tr>
</tbody>
</table>
Cable management

Cable routing

Cable duct
for vertical TS section
For direct mounting on the vertical enclosure section.

Width 50 mm
For assembly on a vertical enclosure section in the area of the side panel.

Width 100 mm
For assembly on two bayed enclosure profiles in the baying area. Baying brackets and baying clamps which have already been fitted can be covered over with the cable duct.

The nominal break points of the members are also oriented towards combination with the cable ducts for mounting plates; in addition a further nominal break at the level of the mounting plate enables direct insertion into the cable duct.

The cable duct fastening points are co-ordinated with the TS system hole pattern; elaborate drilling, as in the case of DIN ducts, is dispensed with.

Technical specifications:
Depth: 80 mm
Length:
- 1600 mm (for enclosure height 1800 mm)
- 1800 mm (for enclosure height 2000 mm)
can be shortened for other enclosure sizes.
Member width: 5.5 mm
Slot width: 4.5 mm
Material:
Hard PVC, flame-resistant, self-extinguishing, temperature-resistant to +60°C
Colour:
Similar to RAL 7030
Supply includes:
1 set = 1 cable duct with cover.

Accessories:
Plastic rivet for attachment, see page 1060.
Aluminium rivet for attachment, see page 1061.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1600</td>
<td>8 sets</td>
<td>8800.570</td>
</tr>
<tr>
<td>50</td>
<td>1800</td>
<td>8 sets</td>
<td>8800.520</td>
</tr>
<tr>
<td>100</td>
<td>1600</td>
<td>4 sets</td>
<td>8800.540</td>
</tr>
<tr>
<td>100</td>
<td>1800</td>
<td>4 sets</td>
<td>8800.510</td>
</tr>
</tbody>
</table>

1  TS 8800.570/TS 8800.520
2  TS 8800.540/TS 8800.510
Cable management

Cable routing

Cable duct
for mounting plate

- To fit the cable ducts for vertical TS sections. If the TS mounting plate is installed in the rearmost position, the horizontally mounted cable ducts are flush with the vertical ones.
- For external mounting on surfaces.

Technical specifications:
Depth 80 mm

Length:
- Sized to the width of the TS, ES and TP mounting plates
- 2000 mm

Bar width: 5.5 mm
Slot width: 4.5 mm

Material:
Hard PVC, flame-resistant, self-extinguishing, temperature-resistant to +60°C

Colour:
Similar to RAL 7030

Supply includes:
1 set = 1 cable duct with cover.

Accessories:
Plastic rivet for attachment, see page 1060.

For enclosure width mm 600 800 1000 1200
Length (L) mm 499 699 899 1099
Fixed length 2000 mm 8800.730 8800.735 8800.740 8800.745 8800.750

For packing width mm 30 40 60 80 100
Length (L) mm 24 sets 20 sets 18 sets 12 sets 12 sets
Fixed length 2000 mm 8800.530 8800.535 8800.540 8800.545 8800.550

Plastic rivet
Easily mounted with a standard commercially available blind rivet tool.
For fastening the cable ducts in the
- TS system hole pattern
- Drilled hole Ø 4.0 mm

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>8800.530</td>
</tr>
</tbody>
</table>
Cable management

Cable routing

Aluminium rivet
For secure assembly of cable ducts in conformity with the relevant standards. Also suitable for mounting support rails and punched rails. Simple mounting using hand-held rivet tool TS 8800.532.
To fit:
- TS system punchings
- Drilled hole Ø 4.5 mm.

Hand-held rivet tool
for aluminium rivets
Reaches even poorly accessible rivet points in narrow or deep cable trunking. In conformity with the standard, the aluminium rivets are made without burrs, sharp edges or rough surfaces.

Cable clamp rails
Right angle section
for TS, ES, PC, AP universal console, base/plinths
For strain relief with cable entry. Depth-variable mounting on a 25 mm pitch pattern on the horizontal enclosure section or in side base/plinth trim panels with assembly bolts.
Material:
Sheet steel, zinc-plated, passivated
Supply includes:
Assembly parts.

Cable clamps
for cable clamp rails
For fastening the cables to the cable clamp rails.
Material:
Sheet steel, zinc-plated, passivated
Supply includes:
Plastic insert.

Possible alternative:
Rail for EMC shielding bracket and strain relief, see page 1031.
Cable management

Cable routing

Cable clamp rails

**C section**

*For TS, CM, TP*

For strain relief with cable entry. The length of the cable clamp rail is tailored to the width of the mounting plate. The mounting bracket included with the supply supports three different installation situations on the mounting plate:

1. straight, at a distance of 23 mm from the mounting plate
2. straight, at a distance of 10 mm from the mounting plate
3. tilted, towards the mounting plate

**Material:**

Sheet steel

**Surface finish:**

Zinc-plated, passivated

**Supply includes:**

Two mounting brackets and assembly screws.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Length mm</th>
<th>Model No. CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>499</td>
<td>5001.080</td>
</tr>
<tr>
<td>800</td>
<td>699</td>
<td>5001.081</td>
</tr>
<tr>
<td>1000</td>
<td>899</td>
<td>5001.082</td>
</tr>
<tr>
<td>1200</td>
<td>1099</td>
<td>5001.083</td>
</tr>
<tr>
<td>1600</td>
<td>1499</td>
<td>5001.084¹</td>
</tr>
</tbody>
</table>

¹ Including 3 mounting brackets.

**Accessories:**

Cable clamps for C rails, see page 1064.

---

Cable clamping bracket

For installing in the operating housing with mounting cut-out CP-L and CP-XL.

Cable clamping optionally via:

- Cable clamps
- Cable tie SZ 2597.000
- Commercially available cable ties.

Bracket height = 25 mm with fitted C rail 40 mm.

**Material:**

Sheet steel, zinc-plated, passivated.

**Supply includes:**

C rail and screws.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>6052.000</td>
</tr>
</tbody>
</table>

**Accessories:**

Cable clamps, see page 1064.

Cable ties, see page 1066.

---

C rails

may be found under rail systems from page 999.
Cable clamp rails

see page 1068.

Combination rails

for QuickBox

For cable clamping and routing. Cables and leads can be fastened to the hammer heads top and bottom with cable ties. In addition, the C section of the combination rail will accommodate cable clamps with inserts. For producing a contacting connection, the anodised coating of the rail must be broken.

Material:
Aluminium, anodised

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. QB</th>
</tr>
</thead>
<tbody>
<tr>
<td>300/400</td>
<td>200</td>
<td>6</td>
<td>7502.302</td>
</tr>
<tr>
<td>500/600</td>
<td>400</td>
<td>6</td>
<td>7502.304</td>
</tr>
</tbody>
</table>

Cascade cable routing

for frame attachment
for DK-TS, FR(i)

Professional cable routing system for cascading of cables in several levels of the enclosure depth. The cables are attached to the C rail by means of clamps. Suitable for installation on the inner enclosure level.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
6 mounting brackets and 3 C rails, including assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>3</td>
<td>7831.570</td>
</tr>
<tr>
<td>800</td>
<td>3</td>
<td>7831.571</td>
</tr>
</tbody>
</table>

Accessories:

TS punched section with mounting flange for the inner mounting level, see page 993.
PS punched section without mounting flange for vertical mounting in the enclosure frame, see page 998.
Cable clamps, see page 1064.
Cable management

Cable routing

Cable clamps
for C rails
For attaching the cables to the C rails.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Plastic insert.

<table>
<thead>
<tr>
<th>For cable diameter mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 – 14</td>
<td>25</td>
<td>7077.000</td>
</tr>
<tr>
<td>12 – 18</td>
<td>25</td>
<td>7078.000</td>
</tr>
<tr>
<td>18 – 22</td>
<td>25</td>
<td>7097.000</td>
</tr>
<tr>
<td>22 – 26</td>
<td>25</td>
<td>7097.220</td>
</tr>
<tr>
<td>26 – 30</td>
<td>25</td>
<td>7097.260</td>
</tr>
<tr>
<td>30 – 34</td>
<td>25</td>
<td>7097.300</td>
</tr>
<tr>
<td>34 – 38</td>
<td>25</td>
<td>7097.340</td>
</tr>
<tr>
<td>38 – 42</td>
<td>25</td>
<td>7098.000</td>
</tr>
<tr>
<td>42 – 56</td>
<td>25</td>
<td>7098.100</td>
</tr>
<tr>
<td>56 – 64</td>
<td>25</td>
<td>7099.000</td>
</tr>
</tbody>
</table>

Accessories:

C rails, see from page 999.

Cable conduit and
cable conduit holder
For secure cable routing e.g. from the enclosure or mounting plate to the door.

Attachment facility for standard commercially available cable ties is provided on the cable conduit holder, so that cables may be attached upon entry to/exit from the cable conduit.

Material:
Cable conduit: Polyethylene
Cable conduit holder: Polyamide

<table>
<thead>
<tr>
<th>Internal Ø mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>25 m</td>
<td>2595.000</td>
</tr>
<tr>
<td>29</td>
<td>25 m</td>
<td>2589.000</td>
</tr>
<tr>
<td>36</td>
<td>25 m</td>
<td>2596.000</td>
</tr>
<tr>
<td>48</td>
<td>25 m</td>
<td>2590.000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For cable conduit Ø mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>20</td>
<td>2593.000(1)</td>
</tr>
<tr>
<td>29</td>
<td>20</td>
<td>2591.000(1)</td>
</tr>
<tr>
<td>36</td>
<td>20</td>
<td>2594.000</td>
</tr>
<tr>
<td>48</td>
<td>20</td>
<td>2592.000</td>
</tr>
</tbody>
</table>

(1) Installation in compact enclosures AE with universal bracket SZ 2373.000, see page 1009.
Cable conduit

The stable, robust corrugated tubes ensure secure cable routing between the machine and control console or enclosure.

The split version offers the following benefits:

- Problem-free retrospective installation
- Simple insertion of pre-assembled cables
- Faster insertion of cables, particularly with long sections

**Material:**
Polyamide, self-extinguishing to UL 94

<table>
<thead>
<tr>
<th>Nominal width</th>
<th>Ø interior in mm</th>
<th>Design</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>46</td>
<td>Solid</td>
<td>2589.140</td>
</tr>
<tr>
<td>50</td>
<td>43</td>
<td>Split</td>
<td>2589.150</td>
</tr>
<tr>
<td>29</td>
<td>27</td>
<td>Solid</td>
<td>2589.100</td>
</tr>
</tbody>
</table>

Packs of 25 m

Connection accessories
for cable conduit

Versions with a nominal width of 29 mm are easily inserted into a through-hole. There is no need for an internal thread or lock nut.

**Material:**
Polyamide, self-extinguishing to UL 94

Supply includes:
SZ 2589.160/SZ 2589.170: 2 connection glands, 2 hex nuts.
SZ 2589.110/SZ 2589.120: 2 plug-in connections.

<table>
<thead>
<tr>
<th>Nominal width</th>
<th>Design</th>
<th>Straight</th>
<th>Bracket</th>
<th>Mounting hole Ø in mm</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>Screwed cable gland</td>
<td>■</td>
<td></td>
<td>51</td>
<td>2</td>
<td>2589.160</td>
</tr>
<tr>
<td>50</td>
<td>Screwed cable gland</td>
<td>■</td>
<td></td>
<td>51</td>
<td>2</td>
<td>2589.170</td>
</tr>
<tr>
<td>29</td>
<td>Plug-in connection</td>
<td>■</td>
<td></td>
<td>37</td>
<td>2</td>
<td>2589.110</td>
</tr>
<tr>
<td>29</td>
<td>Plug-in connection</td>
<td>■</td>
<td></td>
<td>37</td>
<td>2</td>
<td>2589.120</td>
</tr>
</tbody>
</table>

Holder
for cable conduit

**Material:**
Polyamide, self-extinguishing to UL 94

Supply includes:
Support

**Note:**
Attachment using screws M6 or alternatively screws Ø 5.5 mm, see page 1011.

<table>
<thead>
<tr>
<th>Nominal width</th>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>10</td>
<td>2589.180</td>
</tr>
<tr>
<td>29</td>
<td>10</td>
<td>2589.130</td>
</tr>
</tbody>
</table>

Mounting on pedestal CP 6141.100, see page 290

Mounting on Compact Panel CP 6340.000 – .420, see page 231
Cable routing

**Cable fastening**

For professional, secure fastening of cables and conduits.

For fastening:

- Slide into the mounting rail 23 x 23 mm,
- Screw-fasten onto the round punchings of the enclosures, as well as all punched rails and punched sections.

As the fastening attachments are bayable, several fastening attachments, even those of different sizes, can be assembled using just 2 screws.

**Material:** Polyamide

<table>
<thead>
<tr>
<th>For cable diameter from – to mm</th>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 – 9</td>
<td>50</td>
<td>4319.090</td>
</tr>
<tr>
<td>9 – 12</td>
<td>50</td>
<td>4319.120</td>
</tr>
<tr>
<td>12 – 16</td>
<td>50</td>
<td>4319.160</td>
</tr>
<tr>
<td>16 – 20</td>
<td>50</td>
<td>4319.200</td>
</tr>
</tbody>
</table>

⚠️ **Also required:**

Posidrive raised countersunk screw M5 x 12 mm, SZ 2488.000, for screw-fastening to the round system punchings, see page 1011.

**Accessories:**

Punched rail 23 x 23 mm, see page 998.

---

**Cable ties**

The super-fast solution for fastening cables to the enclosure profile or mounting system parts. Simply clip into the round system punchings.

**Nylon loop**

With the nylon loop, secured cables are easily released, allowing individual cables to be added or removed. Ideal for sensitive data cables (fiberoptic/Cu), as it avoids indentations on the cable sheathing.

In addition, the nylon loop may be screw-fastened to the round system punchings or attached using a quick-release fastener.

**Colour:** Black

**Supply includes:** Nylon loop and quick-release fastener.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Length mm</th>
<th>Max. cable diameter mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>130</td>
<td>30</td>
<td>10</td>
<td>7072.220</td>
</tr>
<tr>
<td>20</td>
<td>200</td>
<td>50</td>
<td>10</td>
<td>7072.230</td>
</tr>
<tr>
<td>20</td>
<td>300</td>
<td>90</td>
<td>10</td>
<td>7072.240</td>
</tr>
</tbody>
</table>

⚠️ **Also required:**

Screw SZ 2486.500 for screw-fastening to the round system punchings, see page 1011.

---

**Nylon loop**

For tidy cable routing. Supplied on a reel for cutting to the required length.

Unlike cable ties,

- protects the cable sheathing
- easily reopened
- reusable

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Width mm</th>
<th>Packs of</th>
<th>Model No. IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000</td>
<td>16</td>
<td>1</td>
<td>2203.400</td>
</tr>
</tbody>
</table>
Cable management

Cable routing

**Nylon loop cable holder**
self-adhesive
Suitable for universal use in all network enclosures and server racks, wall-mounted enclosures, mounting plates and gland plates.

**Material:**
Woven polyamide 6.6

**Colour:**
Black

<table>
<thead>
<tr>
<th>Size length x width mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 x 16</td>
<td>10</td>
<td>7111.350</td>
</tr>
</tbody>
</table>

**Cable tie fastener**
for round system punchings and VIP 6000
For all commercially available cable ties up to a tie width of 4.8 mm.
Simply insert into the round system punchings or into the screw channel, and secure by hammering down the split rivet.

**Material:**
Polyamide 6.6

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>6059.000</td>
</tr>
</tbody>
</table>

**Cable tie fastener**
for Comfort Panel, Optipanel and Compact Panel
For secure cable routing of all standard commercially available cable ties up to a tie width of 4.0 mm.
Secured in the T channel by rotating through 45°.

**Material:**
Polyamide 6.6

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>6059.500</td>
</tr>
</tbody>
</table>

**Snap-in cable routing**
for clipping into the system punchings.
Cable routing suitable for universal use, for toolless, fast assembly, in two variants:
For locking:
- User-friendly opening for cable management via locating points
- For cable diameters 14 – 19 mm
- For system punchings 6.2 mm
For twisting:
- User-friendly opening for cable management
- For cable diameters 10.2 – 12.7 mm
- For system punchings 4.7 mm

**Material:**
Polyamide 6.6, self-extinguishing to UL 94 V2

**Colour:**
Natural

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>For locking</td>
<td>10</td>
<td>7111.300</td>
</tr>
<tr>
<td>for system punchings 6.2 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For twisting</td>
<td>10</td>
<td>7111.310</td>
</tr>
<tr>
<td>for system punchings 4.7 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Cable management

Cable routing

Cable clamp rails
for TS and 482.6 mm (19") mounting frames

The cables may be attached to the cable clamp rails with cable ties or nylon tapes. The cable clamp rails are simply located onto the frame section and may additionally be secured with a screw.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Accessories:
Cable ties, see page 1066.
Nylon loop, see page 1066.

<table>
<thead>
<tr>
<th>For the inner mounting level</th>
</tr>
</thead>
<tbody>
<tr>
<td>For enclosures</td>
</tr>
<tr>
<td>Width mm</td>
</tr>
<tr>
<td>600</td>
</tr>
<tr>
<td>800</td>
</tr>
<tr>
<td>900</td>
</tr>
<tr>
<td>1000</td>
</tr>
<tr>
<td>1200</td>
</tr>
</tbody>
</table>

Cable clamp rails, depth-variable
for TS and 482.6 mm (19") mounting frames

For strain relief of the routed cables. The cables may be attached to the cable clamp rails with cable ties or nylon tapes. The cable clamp rails may be located directly on a 482.6 mm (19") mounting frame horizontally at the rear or in the enclosure depth between two mounting frames. An additional screw-fastening secures the unit.

The depth variability of the rails facilitates flexible adaptation of their length to the existing attachment distance between the two 482.6 mm (19") mounting frames.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Accessories:
Cable ties, see page 1066.
Nylon loop, see page 1066.

<table>
<thead>
<tr>
<th>For the outer mounting level</th>
</tr>
</thead>
<tbody>
<tr>
<td>For enclosures</td>
</tr>
<tr>
<td>Width mm</td>
</tr>
<tr>
<td>600</td>
</tr>
<tr>
<td>800</td>
</tr>
<tr>
<td>900</td>
</tr>
<tr>
<td>1000</td>
</tr>
<tr>
<td>1200</td>
</tr>
</tbody>
</table>

Cable clamp, variable
for enclosure-independent mounting

Variable attachment of 450 to 800 mm for flexible cable clamping in two variants.

Supports attachment to punched sections with and without mounting flanges and direct screw-fastening onto mounting plates and other flat surfaces.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Accessories:
Cable ties, see page 1066.
Nylon loop, see page 1066.

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>C rail</td>
<td>1</td>
<td>7016.140</td>
</tr>
<tr>
<td>T-head rail</td>
<td>1</td>
<td>7016.150</td>
</tr>
</tbody>
</table>
Cable routing

**Shunting ring, plastic**
For flexible cable routing, in two materials and three size variants.
Option of mounting to the 482.6 mm (19”) enclosure and swing frame profile of the data distributor, to the system strips of FM distribution enclosures, to all patch panels, to the Rittal Data Rack and all components on a 25 mm DIN pitch pattern.

**Polyamide version:**
Infinitely variable mounting thanks to a longitudinal slot. The shunting ring DK 7218.035 may also be used on 1 U patch panels.

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Material</th>
<th>Dimensions mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyamide</td>
<td>70 x 44</td>
<td>10</td>
<td>7218.035</td>
</tr>
<tr>
<td>Polyamide</td>
<td>105 x 70</td>
<td>10</td>
<td>7219.035</td>
</tr>
<tr>
<td>Polycarbonate</td>
<td>95 x 50</td>
<td>10</td>
<td>7228.035</td>
</tr>
</tbody>
</table>

*German patent no. 44 13 124*

**Polycarbonate version:**
Variable mounting. With 45° attachment the cable shunting ring may be attached to a 1 U panel.

**Colour:**
RAL 7035

Possible alternative:
Cable management panel, 1 U, see page 1076.

**Cable shunting ring**
For flexible, system-compatible cable routing at the side of the 482.6 mm (19”) mounting frame.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Dimensions mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 x 85</td>
<td>10</td>
<td>7111.900</td>
</tr>
<tr>
<td>125 x 65</td>
<td>10</td>
<td>7111.000</td>
</tr>
<tr>
<td>85 x 43</td>
<td>10</td>
<td>7112.000</td>
</tr>
</tbody>
</table>

**Shunting ring**
To accommodate large quantities of cables. Shunting ring for side attachment to 482.6 mm (19”) sections and mounting frames in 800 mm wide network enclosures. The ring is attached asymmetrically providing approx. 110 mm free space in front of the 482.6 mm (19”) level. In this way, even large quantities of cables can be efficiently managed.

**Material:**
Round steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Dimensions mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>330 x 90/70</td>
<td>4</td>
<td>7220.600</td>
</tr>
</tbody>
</table>
Cable management

Cable routing

**Cable clamp straps**

for patch panels
To provide strain relief of incoming or outgoing data cables. Optionally available with spring brackets for accommodating and contacting the cable screen. Connection to the patch panel is by means of bolts on the panel itself.

**Material:**
Sheet steel 2 mm, zinc-plated, passivated

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Design</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without cable screen contact</td>
<td>7610.000</td>
</tr>
<tr>
<td>With spring clips for contacting the cable screen</td>
<td>7611.000</td>
</tr>
</tbody>
</table>

**System supports for cable routes**

for TS, FR(i)
The depth-variable support system may be attached to all 800 – 1200 mm deep enclosures and all FR(i) enclosures with external screw-fastening of the roof plate. The integral system punchings, for screws or captive nuts, support the attachment of most common cable route systems.

**Material:**
Sheet steel

**Surface finish:**
Powder-coated, RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7831.472</td>
</tr>
</tbody>
</table>

**Accessories:**

Metal multi-tooth screws 5.5 x 13 mm, SZ 2486.500, see page 1011.
Captive nuts M6, TS 8800.340, see page 1010.

**Cable route on the mounting frame**
The mounting kit facilitates rear, side attachment of a cable tray to mounting frames inside enclosure systems TE 7000, TS and FR(i). This allows the integration of vertical cable management independently of the enclosure frame.

**Material:**
Sheet steel

**Surface finish:**
Zinc-plated, passivated

**Supply includes:**
1 cable route 100 mm wide, 1700 mm high, including mounting kit.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7000.685</td>
</tr>
</tbody>
</table>
Fibre-optic shunting rings
The inner body is grooved, and fibre-optic shunting or jumper cables can be inserted into these. A rubber ring holds different fibre-optic cables with diameters of up to 4.5 mm. Strain relief and bending radius are ensured.
Length: 120 mm.
Material: Dual compound plastic
Colour: Outside: RAL 7035
Inner body: Black
Supply includes: 2 shunting rings, 2 rubber rings, baying kit, including assembly parts.
Assembly: The supplied mounting brackets are suitable for universal use; the fibre-optic cables can be routed to the patch panel in all directions in various mounting positions:
1. At the side, directly on the patch panel
2. In front of the patch panel
3. At the side next to the patch panel
4. Behind the patch panel

German patent no. 196 48 489
German patent no. 196 48 490

Possible alternative:
Fibre-optic cable management panel, 1 U, see page 1078.

Cable route
For TS
For cable routing between two 482.6 mm (19") mounting angles in bayed enclosure suites (enclosure width 800 mm, mounting angles fitted centrally). Suitable for L-shaped and cranked mounting angles.
Material: Sheet steel
Colour: RAL 7035
Supply includes: Assembly parts.

Surplus cable holder
For fastening at the rear area of the enclosure, or at the side of network enclosures. The surplus cable holder can be attached to all depth stays or to punched sections and rails with a 25 mm pitch pattern – mounting dimension 150 mm. Units may also be fastened to each other.
Material: Sheet steel
Colour: RAL 7035
Cable management

Cable routing

Cable management duct
for TS
For side cable routing. The cable management duct is attached to 482.6 mm (19") mounting angles at the sides of the 800 mm wide TS network enclosure. For this purpose, the mounting angles must be mounted on installation brackets. Thanks to the removable front trim panel equipped with quick-release fasteners, cables can also be retrospectively removed or added.

Dimensions:
W x D: 95 x 94 mm
Material: Sheet steel, spray-finished
Colour: RAL 7035
Supply includes: Assembly parts.

<table>
<thead>
<tr>
<th>U</th>
<th>For enclosure height mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>1600</td>
<td>7827.333</td>
</tr>
<tr>
<td>36</td>
<td>1800</td>
<td>7827.338</td>
</tr>
<tr>
<td>40</td>
<td>2000</td>
<td>7827.342</td>
</tr>
<tr>
<td>45</td>
<td>2200</td>
<td>7827.347</td>
</tr>
</tbody>
</table>

Also required:
Installation brackets TS for mounting angles, see page 1096.

Cable routing components
for FR (i)
For snap-fastening into the vertical frame channel.

Type 1:
With horizontal bar for attaching the cables in the frame channel.

Type 2:
Additionally with semi-circular bead for kink-free cable entry and exit.

Material: Polycarbonate
Colour: RAL 7035

<table>
<thead>
<tr>
<th>Type</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>7218.100</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td>7218.105</td>
</tr>
</tbody>
</table>

Extension kit
horizontal cable management
for FR(i)
Allows the enclosure frame to be extended in the depth by approximately 100 mm. The space thereby acquired may be used for horizontal cable management between bayed enclosures.

Material: Sheet steel, zinc-plated, passivated
Supply includes: 1 set = 8 spacer supports, including assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. FR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7856.740</td>
</tr>
</tbody>
</table>

Note:
Combination of the extension kit with divided doors is not possible.

Trim panels

<table>
<thead>
<tr>
<th>Enclosure height mm</th>
<th>Packs of</th>
<th>Model No. FR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>2</td>
<td>7856.743</td>
</tr>
<tr>
<td>2200</td>
<td>2</td>
<td>7856.746</td>
</tr>
</tbody>
</table>

Note:
Upon request, trim panels may be inserted on the outer sides of the bayed enclosure suites to protect the enclosures against unauthorised access.
Mounting/cable management panel
for QuickBox 3 U, 6 U with vertical 482.6 mm (19") level
For structured cable routing or for mounting small components or distributors (such as hubs, switches etc.). The cable management panel is easily fitted in the front of the rear panel from the front.
Material: Sheet steel, zinc-plated, passivated
Supply includes: Assembly parts.

<table>
<thead>
<tr>
<th>Model No. QB</th>
<th>Width mm</th>
<th>Length mm</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>7502.270</td>
<td>485</td>
<td>450</td>
<td>1</td>
</tr>
</tbody>
</table>

Accessories:
Nylon loop, see page 1066.
Cable ties, see page 1066.

Cable route
Universal cable tray. Ideal for large quantities of cable.
Material: Sheet steel, zinc-plated, passivated
Supply includes: Assembly parts.

<table>
<thead>
<tr>
<th>Model No. DK</th>
<th>Width mm</th>
<th>Length mm</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>7858.150</td>
<td>150</td>
<td>1700</td>
<td>1</td>
</tr>
<tr>
<td>7858.152</td>
<td>200</td>
<td>1700</td>
<td>1</td>
</tr>
<tr>
<td>7858.154</td>
<td>300</td>
<td>1700</td>
<td>1</td>
</tr>
</tbody>
</table>

Accessories:
Punched section with mounting flange, see page 993.
Nylon loop, see page 1066.
Cable ties, see page 1066.

Cable glands
for fibre-optic technology
The standard sizes PG 7 and PG 13.5 have a slotted inner seal. This allows super-easy cable entry. Ideal for routing break-out cables, as this eliminates unnecessary bending of the fibre-optic cables.
Material: Cable gland: Brass, nickle-plated
Inner seal: Soft PVC insert

<table>
<thead>
<tr>
<th>Model No. DK</th>
<th>Fibre-optic cable gland</th>
<th>Cable diameter mm</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>7455.010³)</td>
<td>PG 7</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>7455.030</td>
<td>PG 13.5</td>
<td>2 x 3</td>
<td>12</td>
</tr>
</tbody>
</table>
³)Delivery times available on request.
Cable routing 482.6 mm (19")

**Cable routing bars**
For structured routing of entire cable bundles, the cable bars may be secured to a variety of different positions inside the enclosure.

**Material:**
Support: Sheet steel,
Cable routing bars, connection combs: Plastic

**Colour:**
RAL 9005

**Supply includes:**
Cable routing bars and connection combs.

---

**482.6 mm (19") attachment**
For horizontal cable routing within the distributor level.
Thanks to their open mounting holes, they can also be retrospectively slotted onto the 482.6 mm (19") system punchings of the mounting level at any time and secured with the existing mounting screws of the installed components.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>No. of connection combs</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
<td>7111.224</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
<td>7111.214</td>
</tr>
</tbody>
</table>

---

**All-round attachment for universal use**
For vertical and horizontal cable routing inside the enclosure or within the distributor level.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>No. of connection combs</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
<td>7111.222</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
<td>7111.212</td>
</tr>
</tbody>
</table>

---

**Cranked attachment**
For mounting angles and mounting frames.
Horizontal, U-based cable routing to the distributor level.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>No. of connection combs</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
<td>7111.220</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
<td>7111.210</td>
</tr>
</tbody>
</table>

---

**Connection comb**
For connecting individual cable routing bars into complete systems (included with the supply).
Cable management

Cable routing 482.6 mm (19")

Distributor clip

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

1. Distributor clip
   For structured cable routing of entire cable bundles, the distributor clip may be secured to a variety of different positions inside the enclosure. It may be used for both horizontal and vertical distribution of the cables.

2. Distributor clip, horizontal
   For mounting angles and mounting frames. Distribution of cables among the various height units of the patch level.

Cable deflector

for 482.6 mm (19") mounting angles

For kink-free routing of fibre-optic cables from the 482.6 mm (19") level around the mounting angle. The open 482.6 mm (19") attachment facilitates screw-fastening together with the patch panel. The cable deflector may additionally be screw-fastened to the side edge fold.

**Material:**
Sheet steel, RAL 7035

**Supply includes:**
1 set =
4 cable deflectors, right,
4 cable deflectors, left,
including assembly parts for screw fastening at the sides.

Drawer 482.6 mm (19")

to accommodate excess cable length

The 1 U drawer offers a convenient opportunity for storing excess length in an organised, compact and secure way within the 482.6 mm (19") levels.

- With brush strip at the front for cable entry
- T-head rail in the rear section for cable clamping
- Ring-shaped kink-free routing of the conductors on adjustable elements in the interior
- May be fitted between two 482.6 mm (19") levels at a distance of 435 – 750 mm
- Independent from the enclosure system, both on L-shaped and cranked mounting angles and mounting frames

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7063.200</td>
</tr>
<tr>
<td>2</td>
<td>7063.201</td>
</tr>
</tbody>
</table>

Material:
Sheet steel

Colour:
RAL 7035

**Supply includes:**
Assembly parts.

**Accessories:**
Nylon loop DK 7072.220/DK 7072.230, see page 1066.

---

### Cable Routing Table

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1 set</td>
<td>7111.460</td>
</tr>
<tr>
<td>800</td>
<td>1 set</td>
<td>7111.480</td>
</tr>
</tbody>
</table>

---

### Distributor Clip Specifications

#### Model No.

- **Model No. DK 7111.252**
- **Model No. DK 7111.250**

---

**Model No. DK 7111.252**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7063.200</td>
</tr>
<tr>
<td>2</td>
<td>7063.201</td>
</tr>
</tbody>
</table>

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**Model No. DK 7111.250**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>7063.200</td>
</tr>
<tr>
<td>2</td>
<td>7063.201</td>
</tr>
</tbody>
</table>

---

**Model No. DK 7111.460**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7063.200</td>
</tr>
<tr>
<td>2</td>
<td>7063.201</td>
</tr>
</tbody>
</table>

---

**Model No. DK 7111.480**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7063.200</td>
</tr>
<tr>
<td>2</td>
<td>7063.201</td>
</tr>
</tbody>
</table>

---

**Model No. DK 7063.200**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Distance between levels mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>435 – 750</td>
<td>7063.200</td>
</tr>
</tbody>
</table>
Cable management panel

482.6 mm (19"

For horizontal management of the patch cables with 5 cable shunting rings, supplied loose.

**Material:**
Panel: Sheet steel
Ring: Polyamide

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Ring size mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>70 x 44</td>
<td>7159.035</td>
</tr>
</tbody>
</table>

**Material:**
Panel: Sheet steel
Ring: Polycarbonate

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Ring size mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>95 x 50</td>
<td>7255.035</td>
</tr>
</tbody>
</table>

**Material:**
Panel: Sheet steel
Ring: Sheet steel, zinc-plated, passivated

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Ring size mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>105 x 43</td>
<td>7257.035</td>
</tr>
<tr>
<td>2</td>
<td>125 x 85</td>
<td>7257.100</td>
</tr>
</tbody>
</table>

**Material:**
Panel: Sheet steel
Ring: Sheet steel, zinc-plated, passivated

**Colour:**
RAL 9005

<table>
<thead>
<tr>
<th>U</th>
<th>Ring size mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>105 x 43</td>
<td>7257.005</td>
</tr>
<tr>
<td>2</td>
<td>125 x 85</td>
<td>7257.1051</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

**Note:**
The indicated dimensions are external dimensions.

Cable management panel, 2 U

482.6 mm (19"

The cable routing chamber has cut-outs from above, into which the patch cables can be inserted. The cable management panel is equipped with a flap and quick-release fasteners at the front, for optimum access to the cables. From the rear, the cables can be inserted via a cut-out with brush strips. With accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

**Material:**
Sheet steel

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>85</td>
<td>7158.035</td>
</tr>
</tbody>
</table>

**Accessories:**
Cable clamp strap, see page 1070.
Cable routing 482.6 mm (19”)

### Cable routing channel
482.6 mm (19”)
To hold the patching cables.
**Material:**
Sheet steel
**Colour:**
RAL 7035

### Cable management panel, 2 U
To accommodate fibre-optic and copper cables. Fibres from the patch panels are placed into the tray via openings and may be distributed at the sides. Rounded openings protect the cable sheathing.
**Material:**
Sheet steel
**Colour:**
RAL 7035

### Cable management duct, horizontal
482.6 mm (19”)
The duct facilitates concealed, simple cable routing of large quantities of cables to equipment within the 482.6 mm (19”) attachment level. Large cut-outs ensure convenient, kink-free cable routing to the cables top and bottom. For simple handling, the entire front panel may be removed via quick-release fasteners. After attaching the cables, these are held in position via nylon ties, whilst the duct may be resealed.
**Material:**
Sheet steel
**Colour:**
RAL 7035
**Supply includes:**
5 nylon loops.

### Cable tray, 2 U
For side routing and distribution of fibre-optic and copper cables. In this way, cables inserted into the roof area may be routed at the side of the mounting angles in the upper section of the rack. Depth 85 mm.
**Material:**
Sheet steel
**Colour:**
RAL 7035

---

<table>
<thead>
<tr>
<th>U</th>
<th>Depth mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>7149.135</td>
</tr>
<tr>
<td>3</td>
<td>100</td>
<td>7149.035</td>
</tr>
</tbody>
</table>

Other versions available on request.

<table>
<thead>
<tr>
<th>U</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7269.135</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7158.100</td>
</tr>
<tr>
<td>3</td>
<td>7158.150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7269.235</td>
</tr>
</tbody>
</table>
Cable management

Cable routing 482.6 mm (19”)

Fibre-optic cable management panel, 1 U

482.6 mm (19”)
The four fibre-optic cable shunting rings integrated into the front permit optimum management of up to 48 fibres.

Material:
Panel: Sheet steel
Ring: 2 K plastic

Colour:
Panel: RAL 7035
Cable shunting ring external: RAL 7035, black interior

Possible alternative:
Fibre-optic support guide DK 7116.500, see page 1071.

Cable entry panel

482.6 mm (19”)
Cut-out 390 x 40 mm (2 U) or 390 x 20 mm (1 U) with brush insert. With accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

Material:
Sheet steel

Colour:
RAL 7035

Accessories:
Cable clamp strap, see page 1070.

Cable routing across the 482.6 mm (19”) mounting level

There is a choice of five different cable clamping systems for system-compatible cable routing in 482.6 mm (19”) systems with one or two pairs of mounting angles:

C rail
for fastening across all 482.6 mm (19”) mounting angles.

Cable clamp rails
for fastening across all 482.6 mm (19”) mounting angles, for cable ties.

Cable clamp straps for swing frames, large, and Data Rack
The cable clamp straps are mounted on frame at the rear, whilst the cables are clamped 250 mm behind the 482.6 mm (19”) mounting angles.

Cable clamp straps for DK-TS mounting angles
with side lugs for suspending from the cranked 482.6 mm (19”) mounting angles. Cable clamping is via cable ties.

Material:
Sheet steel, zinc-plated, passivated

Also required:
With L-shaped TS mounting angles, adaptor DK 7827.300 is additionally required, see page 1023.
**Swing frames**

**Swing frame, small**

For 600 mm and 800 mm wide TS enclosures

For mounting 482.6 mm (19”) equipment.

The front installation situation, at the top or bottom of the enclosure frame, is achieved with the installation kit. The installation accessories required for other installation variants are described separately (see page 1080). With 800 mm wide enclosures, central or side-offset installation is possible.

**Technical specifications:**

Torsionally stiff frame, welded from rectangular tube and triple folded support section.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Cam with double-bit lock insert and parts for attaching to the installation kit.

---

**Accessories:**

PS punched section without mounting frame, see page 998.

TS support bracket, see page 1007.

Lock inserts, version D, see page 956.

---

**Installation depth** $T_{\text{max.}}$ mm with dimension D$^{1)}$ of at least 45 mm

<table>
<thead>
<tr>
<th>Height units</th>
<th>3 U</th>
<th>6 U</th>
<th>9 U</th>
<th>12 U</th>
<th>15 U</th>
<th>18 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No. SR</td>
<td>2377.030</td>
<td>2377.060</td>
<td>2377.090</td>
<td>2377.120</td>
<td>2377.150</td>
<td>2377.180</td>
</tr>
<tr>
<td>H1 mm</td>
<td>275</td>
<td>408</td>
<td>541</td>
<td>675</td>
<td>808</td>
<td>941</td>
</tr>
<tr>
<td>H2 mm</td>
<td>217</td>
<td>350</td>
<td>483</td>
<td>617</td>
<td>750</td>
<td>883</td>
</tr>
<tr>
<td>H3 mm</td>
<td>137</td>
<td>270</td>
<td>403</td>
<td>537</td>
<td>670</td>
<td>803</td>
</tr>
</tbody>
</table>

---

**Panel depth**

- **Central**
  - Enclosure width mm: 600
  - $T_{\text{max.}} = 185$
  - Enclosure width mm: 800
  - $T_{\text{max.}} = 185$
  - Enclosure width mm: 800
  - $T_{\text{max.}} = 185$

**Central offset**

- Enclosure width mm: 400
  - $T_{\text{max.}} = 310$
  - Enclosure width mm: 500
  - $T_{\text{max.}} = 410$
  - Enclosure width mm: 600
  - $T_{\text{max.}} = 500$
  - Enclosure width mm: 700
  - $T_{\text{max.}} = 570$

---

$^{1)}$ D = Distance from the inner edge of the door to the front edge of the swing frame may be installed deeper on a 25 mm pitch pattern.
482.6 mm (19”) installation

Swing frames

5 examples for TS
Partial installation with 600 and 800 mm wide enclosures, each in the uppermost or lowest position.

Also required:
Depending on the installation position:
1. Installation kit for swing frame, small.
2. PS punched sections without mounting flanges 23 x 73 mm to match the enclosure depth in conjunction with 4 support brackets TS 8800.330 (two are included with the supply of the installation kit)

Note:
Height compensation between the 25 mm pitch pattern of holes in the enclosure and the height units of the swing frame is achieved by the support brackets TS (two are included with the supply of the installation kit).

Partial installation, centre
in 600 and 800 mm wide enclosures.

Side installation
With an enclosure depth of 600 or 800 mm, side installation of a small swing frame is identical to installation parallel to the front. For access to the swing frame we recommend the hinges for the TS side panel, see page 918.

Installation kit
for swing frame, small, or hinge attachment for partial mounting plate in TS 8.
Material:
Cross member: Sheet steel, clear-chromated
Support bracket TS: Die-cast zinc
Supply includes:
2 cross members, including assembly parts.

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Model No. SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>2377.860</td>
</tr>
<tr>
<td>800</td>
<td>2377.880</td>
</tr>
</tbody>
</table>

Accessories:
Depending on the installation position (see above):
Support brackets TS 8800.330, see page 1007,
and PS punched sections without mounting flanges to match the enclosure depth, see page 998.

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>Packs of</th>
<th>Model No. SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1 set</td>
<td>2377.460</td>
</tr>
</tbody>
</table>

Accessories:
Depending on the installation position:
Support brackets PS 4183.000, see page 1007,
and PS punched sections without mounting flanges in accordance with the enclosure depth, see page 998.
Swing frame, large
without trim panel
for TS, ES, CM, AP universal console
For mounting 482.6 mm (19") equipment.
The installation accessories required for other installation variants are described separately
(see page 1082).

Technical specifications:
Torsionally stiff frame, welded from rectangular tube and triple folded support section.
Material:
Sheet steel, zinc-plated, passivated

Supply includes:
2 cams with double-bit lock insert and parts for attaching to the installation kit.

Note:
If the enclosure height is not fully utilised by the swing frame, additional mounting accessories –
see page 1082 – will be required.

Also required:
Installation kit for swing frame, large,
see page 1082.

Accessories:
Depending on the installation position:
TS punched section with mounting flange,
23 x 73 mm,
see page 995.

TS punched rail 18 x 38 mm,
see page 996.

PS punched section with mounting flange,
see page 999.

Width divider,
see page 909.

Lock inserts, version D,
see page 956.

<table>
<thead>
<tr>
<th>Height units</th>
<th>22 U</th>
<th>31 U</th>
<th>36 U</th>
<th>40 U</th>
<th>45 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No. SR</td>
<td>2322.700</td>
<td>2331.700</td>
<td>2336.700</td>
<td>2340.700</td>
<td>2345.700</td>
</tr>
<tr>
<td>For enclosure height mm (or higher)</td>
<td>1200</td>
<td>1600</td>
<td>1800</td>
<td>2000</td>
<td>2200</td>
</tr>
<tr>
<td>H1 mm</td>
<td>1061.5</td>
<td>1461.5</td>
<td>1684.5</td>
<td>1861.5</td>
<td>2084.0</td>
</tr>
<tr>
<td>H2 mm</td>
<td>981.5</td>
<td>1381.5</td>
<td>1604.0</td>
<td>1781.5</td>
<td>2004.0</td>
</tr>
</tbody>
</table>

Installation depth T max. = mm with dimension D\(^1\) of at least 49 mm

<table>
<thead>
<tr>
<th>Enclosure width mm</th>
<th>600</th>
<th>1200</th>
<th>1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>central</td>
<td>left or right</td>
<td>left and right</td>
</tr>
<tr>
<td>Enclosure depth mm</td>
<td>T max.</td>
<td>T max.</td>
<td>T max.</td>
</tr>
<tr>
<td>400</td>
<td>185</td>
<td>295</td>
<td>295</td>
</tr>
<tr>
<td>500</td>
<td>185</td>
<td>395</td>
<td>395</td>
</tr>
<tr>
<td>600</td>
<td>185</td>
<td>495</td>
<td>495</td>
</tr>
<tr>
<td>800</td>
<td>185</td>
<td>695</td>
<td>695</td>
</tr>
</tbody>
</table>

\(^1\) D = Distance from the inner edge of the door to the front edge of the swing frame may be installed deeper on a 25 mm pitch pattern.

Cut-out “X”
**482.6 mm (19”) installation**

**Swing frames**

**13 examples for TS**

- **Full installation**
  - 600 mm front
  - 1200 mm front
  - 1200 mm front with width divider

- **Partial installation, top**
  - 600 mm front
  - 600 mm set back
  - 1200 mm front
  - 1200 mm set back with width divider

- **Partial installation, centre**
  - 600 mm front
  - 600 mm set back
  - 1200 mm front
  - 1200 mm set back

**Also required:**

Depending on the installation position:
- Installation kit for 600 mm wide enclosures
- Installation kit for 1200 mm wide enclosures
- TS punched section with mounting flange 23 x 73 mm for the inner mounting level in the respective enclosure depth, for installation in ES = PS punched sections with mounting flanges
- PS punched section without mounting flange in the respective enclosure depth in conjunction with support bracket PS
- TS punched rail 18 x 38 mm in the corresponding enclosure depth

- Width divider (left-hand or right-hand angle)

**Notes:**
- Height compensation between the 25 mm pitch pattern of holes in the enclosure and the height units of the swing frame is achieved by the upper installation kit.
- Partial installation at the bottom matches partial installation at the top.
- CM only supports full installation at the front.

**Side installation**

With an enclosure depth of 600 mm, side installation of a large swing frame is identical to installation parallel to the front.

For access to the swing frame we recommend the hinges for the TS side panel, see page 918.

**Installation kits**

**for swing frame, large without trim panel**

With 800 mm wide enclosures, the swing frame may also be installed in the centre or offset to the side.

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Supply includes:**

Parts for attaching to the enclosure.

**Swing frame stay,**

see page 1085.

**Installation kits for swing frame, large without trim panel**

<table>
<thead>
<tr>
<th>For enclosures</th>
<th>Hinge design</th>
<th>Load capacity</th>
<th>For enclosure width mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS</td>
<td>130°</td>
<td>600</td>
<td>800</td>
</tr>
<tr>
<td>CM</td>
<td></td>
<td>&lt; 800 N</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 1500 N</td>
<td>1996.835</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 1500 N</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 1500 N</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 1200 N</td>
<td>1997.235</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 1200 N</td>
<td>–</td>
</tr>
</tbody>
</table>

1) Installation only possible with the mounting plate slide rail dismantled.
2) Maximum load 800 N with the TS mounting plate slide rail dismantled.
Swing frame, large

with trim panel
for TS, ES, CM
For mounting 482.6 mm (19") equipment.
The installation accessories required for other installation variants are described separately (see page 1084).

Technical specifications:
Torsionally stiff frame, welded from rectangular tube and six-folded support section. The side trim panels are screw-fastened to the frame. The right-hand trim panel has a handle strip at the side and is equipped with a locking rod system.

Material:
Sheet steel
Surface finish:
Frame, zinc-plated
Trim panels spray-finished

Colour:
RAL 7035

Supply includes:
Locking rod system with double-bit lock insert and parts for attaching to the installation kit.

Technically, a height of at least 49 mm with 130° hinge, 95 mm with 180° hinge

<table>
<thead>
<tr>
<th>Model No. SR</th>
<th>22 U</th>
<th>31 U</th>
<th>36 U</th>
<th>40 U</th>
<th>45 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1 mm</td>
<td>1061.5</td>
<td>1461.5</td>
<td>1684.5</td>
<td>1861.5</td>
<td>2084.0</td>
</tr>
<tr>
<td>H2 mm</td>
<td>981.5</td>
<td>1381.5</td>
<td>1604.0</td>
<td>1781.5</td>
<td>2004.0</td>
</tr>
</tbody>
</table>

Installation depth T max. = mm with dimension D1) of at least 49 mm with 130° hinge, 95 mm with 180° hinge

| Enclosure width mm | 800 |

Possible installation variants for swing frames, see page 1084.

Note:
If the enclosure height is not fully utilised by the swing frame, additional mounting accessories – see page 1084 – will be required.

For two-door enclosures with height 1800 and 2200 mm the next-smallest swing frame must be installed, due to collision with the lock.

Also required:
Installation kit for swing frame, large, see page 1084.

TS punched section with mounting flange, 23 x 73 mm; see page 995.
PS punched section with mounting flange, see page 999.
Lock inserts, version A, see page 956.
Ergoform-S lock system, see page 953.

Material:
Sheet steel
Surface finish:
Frame, zinc-plated
Trim panels spray-finished

Colour:
RAL 7035

Installation kit for swing frame, large, see page 1084.

Accesories:
TS punched section with mounting flange, 23 x 73 mm; see page 995.
PS punched section with mounting flange, see page 999.
Lock inserts, version A, see page 956.
Ergoform-S lock system, see page 953.

Height units

<table>
<thead>
<tr>
<th>22 U</th>
<th>31 U</th>
<th>36 U</th>
<th>40 U</th>
<th>45 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim panel</td>
<td>side</td>
<td>central</td>
<td>side</td>
<td>central</td>
</tr>
<tr>
<td>For enclosure height mm (or higher)</td>
<td>1200</td>
<td>1600</td>
<td>1800</td>
<td>2000</td>
</tr>
<tr>
<td>H1 mm</td>
<td>1061.5</td>
<td>1461.5</td>
<td>1684.5</td>
<td>1861.5</td>
</tr>
<tr>
<td>H2 mm</td>
<td>981.5</td>
<td>1381.5</td>
<td>1604.0</td>
<td>1781.5</td>
</tr>
</tbody>
</table>

1) D = Distance from the inner edge of the door to the front edge of the swing frame may be installed deeper on a 25 mm pitch pattern.

Accessories:
TS punched section with mounting flange, 23 x 73 mm; see page 995.
PS punched section with mounting flange, see page 999.
Lock inserts, version A, see page 956.
Ergoform-S lock system, see page 953.

Installation kit for swing frame, large, see page 1084.

<table>
<thead>
<tr>
<th>Hinge</th>
<th>side</th>
<th>central</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure depth mm</td>
<td>T max.</td>
<td>T max.</td>
</tr>
<tr>
<td>400</td>
<td>295</td>
<td>252</td>
</tr>
<tr>
<td>500</td>
<td>395</td>
<td>352</td>
</tr>
<tr>
<td>600</td>
<td>470</td>
<td>428</td>
</tr>
<tr>
<td>800</td>
<td>470</td>
<td>428</td>
</tr>
</tbody>
</table>

Equipment at sides
Cut-out “X”
Equipment in centre
482.6 mm (19") installation

Swing frames

7 examples for TS

Full installation

Partial installation, top

Partial installation, centre

Also required:
Depending on the installation position:
1. Installation kit for 800 mm wide enclosures
2. TS punched section with mounting flange 23 x 73 mm for the inner mounting level corresponding to the enclosure depth, for installation in ES = PS punched sections with mounting flanges

Notes:
● Height compensation between the 25 mm pitch pattern of holes in the enclosure and the height units of the swing frame is achieved by the upper installation kit.
● Partial installation at the bottom matches partial installation at the top.
● CM only supports full installation at the front.

Side installation
With an enclosure depth of 800 mm, side installation of a large swing frame is identical to installation parallel to the front. For access to the swing frame we recommend the hinges for the TS side panel, see page 918.

Installation kits
for swing frame, large with trim panel

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
Parts for attaching to the enclosure.

Installation kits for swing frame, large with trim panel

<table>
<thead>
<tr>
<th>Hinge design</th>
<th>Load capacity</th>
<th>For enclosure width 800 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>130°</td>
<td>&lt; 800 N</td>
<td>1986.500</td>
</tr>
<tr>
<td></td>
<td>&lt; 1500 N(1)</td>
<td>1995.235</td>
</tr>
<tr>
<td></td>
<td>&lt; 1500 N(1)</td>
<td>1995.835</td>
</tr>
<tr>
<td>180°</td>
<td>&lt; 800 N</td>
<td>1986.500 + 1978.200</td>
</tr>
<tr>
<td></td>
<td>&lt; 1200 N(2)</td>
<td>1997.235</td>
</tr>
<tr>
<td></td>
<td>&lt; 1200 N(2)</td>
<td>1997.835</td>
</tr>
</tbody>
</table>

(1) Installation only possible with the mounting plate slide rail dismantled.
(2) Maximum load 800 N with the TS mounting plate slide rail dismantled.

Accessories:
Swing frame stay, see page 1085.
Swing frames

Swing frame, 482.6 mm (19")

Heavy-duty version for 800 mm wide enclosures, based on TS 8

The swing frame facilitates the accommodation of a wide range of 482.6 mm (19") components up to a weight load of 350 kg. By swinging the frame outwards, access can be gained to the rear of the equipment and its cabling at any time. The maximum opening angle is 130°.

At the side, the swing frame has a trim panel with integral handle strip and two-point locking bar. A semi-cylinder lock can be achieved by using the Ergoform-S handle system.

Several openings in the trim panel permit convenient cable routing from the rear of the swing frame in the front section. The openings may also be optionally top-mounted with standard commercially available plastic cable ducts.

An additional vertical row of holes integrated into the trim panel facilitates vertical and horizontal cable routing via cable shunting rings.

Installation is only possible in the form of full enclosure installation. The installation position may be varied in the enclosure depth.

Load capacity:
350 kg

Material:
Swing frame: Sheet steel, zinc-plated, passivated
Trim panel and installation kit: Sheet steel, spray-finished in RAL 7035

Supply includes:
Locking rod with double-bit lock insert, heavy-duty installation kit and assembly parts.

Note:
Max. installation depth of the equipment \( T_{\text{max.}} \), see page 1083 (swing frame, large, with side trim panel).

Swing frame stay

Holds the swing frame in the open position.

For mounting on:
Swing frame, large
● SR 1979.200, at the top of the enclosure
● SR 1980.200, at the bottom of the enclosure (with safety stop at 160°)

For mounting on:
Swing frame, small
● SR 1979.200, may be mounted at the top or bottom of the installation kit.

Slide rails

To support heavy slide-in electronic equipment, 482.6 mm (19") in the swing frame.

Material:
Sheet steel, zinc-plated, passivated

<table>
<thead>
<tr>
<th>For slide-in equipment with max. installation depth</th>
<th>Packs of</th>
<th>Model No. SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>( T_{\text{max.}} &lt; 190 \text{ mm} )</td>
<td>10</td>
<td>1962.200</td>
</tr>
<tr>
<td>( T_{\text{max.}} &gt; 190 \text{ mm} )</td>
<td>10</td>
<td>1963.200</td>
</tr>
</tbody>
</table>
### Pull-out frame, 482.6 mm (19”) for TS

For the installation of a pull-out 482.6 mm (19”) front. For 600 and 800 mm wide TS enclosures, from a depth of 800 mm.

- **Overall depth:** 525 mm
- **Extension piece:** 500 mm
- **Distance:** 300 mm

**Load capacity:** 50 kg.

**Colour:** RAL 7035

**Supply includes:**
- Telescopic slides and assembly parts.
- German patent no. 39 07 471

### TS punched sections with mounting flanges as installation kit

**for pull-out frame**

Installation in enclosure width 600 mm.

The installation kit comprises 4 TS punched sections with mounting flanges 17 x 73 mm.

**Material:**
- Sheet steel, zinc-plated, passivated

**Supply includes:**
- Assembly parts.

### Depth stays as installation kit

**for pull-out frame**

Installation in enclosure width 800 mm.

The installation kit consists of 4 depth stays.

**Material:**
- Sheet steel, zinc-plated, passivated

---

<table>
<thead>
<tr>
<th>For U</th>
<th>Height mm</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>637</td>
<td>7124.035</td>
</tr>
<tr>
<td>18</td>
<td>903</td>
<td>7125.035①</td>
</tr>
<tr>
<td>21</td>
<td>1037</td>
<td>7126.035①</td>
</tr>
</tbody>
</table>

① Delivery times available on request.

---

**Also required:**

Installation kit according to the enclosure width.

- **As installation kit for enclosure width 600 mm:**
  - TS punched section with mounting flange, 17 x 73 mm,
  - see page 1086.

- **As installation kit for enclosure width 800 mm:**
  - Support strips,
  - see page 1086.

**Note:**

The slide rail DK 7963.310 (see page 1098) can be mounted directly in the pull-out frame to support heavy equipment.
Vario swing frames
for ES, width 800 mm
For the installation of 482.6 mm (19") equipment.

Technical specifications:
Torsionally stiff frame, welded from rectangular tube and triple-folded support section. Firmly linked extension panels on the left and right.

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
Double-bit lock insert and assembly parts.

For 800 mm wide enclosures

<table>
<thead>
<tr>
<th>Height units</th>
<th>6 U</th>
<th>12 U</th>
<th>18 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1 mm</td>
<td>350</td>
<td>616.5</td>
<td>883</td>
</tr>
<tr>
<td>H2 mm</td>
<td>270</td>
<td>536.5</td>
<td>803</td>
</tr>
<tr>
<td>Max. installation depth</td>
<td>400 mm</td>
<td>305 mm</td>
<td></td>
</tr>
<tr>
<td>with enclosure depth</td>
<td>500 mm</td>
<td>405 mm</td>
<td></td>
</tr>
<tr>
<td>Dimension D mm</td>
<td>41.5 – 59.5 – 77.5 – 116.5 – 141.5 – 159.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Installation examples
Mounting accessories according to the installation position (swing frame in topmost position)

Also required:
Depending on the installation position:
1) PS punched section with mounting flange for enclosure width 800 mm, see page 999.
2) PS punched section with mounting flange in accordance with the enclosure depth, see page 999.
482.6 mm (19\") installation

Swing frames

**Compact swing frame**

*for AE, AP one-piece console*

For mounting slide-in electronic equipment, 482.6 mm (19\"), across the entire height.

**Technical specifications:**
Torsionally stiff frame, welded from rectangular tube and triple-folded support section.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Double-bit lock insert and assembly parts.

---

**For AE**

<table>
<thead>
<tr>
<th>Enclosure</th>
<th>Height units</th>
<th>6 U</th>
<th>11 U</th>
<th>14 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No. SR</td>
<td>2026.200</td>
<td>2027.200</td>
<td>2034.200</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Max. installation depth (T max.) mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>For enclosure height mm</td>
<td>380</td>
<td>600</td>
</tr>
<tr>
<td>H1 (mm)</td>
<td>320</td>
<td>542</td>
</tr>
<tr>
<td>H2 (mm)</td>
<td>270</td>
<td>492</td>
</tr>
<tr>
<td>600</td>
<td>210</td>
<td>145</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>350</td>
<td>265</td>
</tr>
<tr>
<td>760</td>
<td>210</td>
<td>145</td>
</tr>
<tr>
<td>760</td>
<td>300</td>
<td>235</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**For AP one-piece console**

<table>
<thead>
<tr>
<th>Height units</th>
<th>11 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No. SR</td>
<td>2027.200</td>
</tr>
<tr>
<td>H1 mm</td>
<td>542</td>
</tr>
<tr>
<td>H2 mm</td>
<td>492</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For AP one-piece consoles</th>
<th>Max. installation depth (T max.) mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2668.500</td>
<td>315</td>
</tr>
<tr>
<td>2672.500</td>
<td>315</td>
</tr>
<tr>
<td>2684.500</td>
<td>295&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
<tr>
<td>2686.500</td>
<td>295&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>1</sup> When fitting 2 swing frames.

---

**Accessories:**
41 mm lock insert, version C, see page 956.
# 482.6 mm (19") installation

## Mounting angles

### Mounting angles, 482.6 mm (19")

For TS, ES

For the installation of subracks and other equipment.

Mounting angles are easily shortened for partial assemblies.

**Supply includes:**

- Assembly parts.

### Accessories:

- Infill panels, see page 1090.
- Captive nuts, see page 1010.
- Assembly screws, see page 1011.
- Slide rails with one-sided mounting, see page 1097.
- Slide rails with two-sided mounting, see page 1097.
- Installation kit for drawers, see page 1102.
- Installation kit for component shelves, see page 1024.

### Assembly examples of TS:

#### Drawing 1

Mounting angle or adaptor piece fitted in the foremost installation position, directly on the vertical section.

When installing slide rails with two-sided mounting (see page 1097), the same mounting angles or adaptor pieces must also be mounted on the vertical section at the rear.

#### Drawing 2

#### Drawing 3

Mounting on two vertically installed PS punched sections permits fully flexible use of the enclosure depths.

#### Drawing 4

Greater distance from the door is achieved by mounting on adaptor rails for PS compatibility. In this position, the slide rails can be fitted with one-sided mounting.

<table>
<thead>
<tr>
<th>For enclosure height mm</th>
<th>Packs of</th>
<th>For enclosure system</th>
<th>For enclosure system</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Extruded aluminium section</td>
<td>Extruded aluminium section</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td></td>
<td>U</td>
</tr>
<tr>
<td>1600</td>
<td>4</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>1800</td>
<td>4</td>
<td>38</td>
<td>37</td>
</tr>
<tr>
<td>2000</td>
<td>4</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>2200</td>
<td>4</td>
<td>47</td>
<td>46</td>
</tr>
<tr>
<td>For PC enclosure 1)</td>
<td>4</td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

1) For the rear of electronic enclosures, see page 1090.

2) Behind bottom door.

---

[2] Adaptor rail
[3] TS sheet steel door
[4] TS glazed door
[5] Punched section without mounting flange
482.6 mm (19”) installation

Mounting angles

Adaptor pieces, 482.6 mm (19")
for TS, ES
The “1 U” sub-section of mounting angles.
For the installation of individual subracks and other equipment.
Supply includes:
Assembly parts.
Note:
Assembly examples, see page 1089.

Mounting angles, 482.6 mm (19”)
for rear installation in TS electronic enclosures
For installing subracks at the front and back, and for attaching the slide rails TS 8613.150, TS 8613.160 and TS 8613.180 (see page 1097).
Assembly is carried out on the inner mounting level.
The outer mounting level can, e.g. still be used for cable routing on depth-mounted TS punched sections with mounting flange.
Material:
Extruded aluminium section
Supply includes:
Assembly parts.
Note:
Design similar to mounting angles, 482.6 mm (19") (see page 1089), but asymmetrical height, suitable for TS electronic enclosure.

Infill panels, 482.6 mm (19”), horizontal
for TS electronic enclosure
To infill between installed 482.6 mm (19") equipment positioned in the full enclosure height and the enclosure clearance height.
Material:
Extruded aluminium section
Supply includes:
Assembly parts.

Aluminium cross rail
for TS electronic enclosure
for sub-division of the front.
Material:
Extruded aluminium section
Colour:
RAL 7035

<table>
<thead>
<tr>
<th>For</th>
<th>U</th>
<th>Packs of</th>
<th>Model No. TS</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS</td>
<td>1</td>
<td>4</td>
<td>8613.010</td>
<td>–</td>
</tr>
<tr>
<td>ES</td>
<td>1</td>
<td>8</td>
<td>–</td>
<td>4547.000</td>
</tr>
</tbody>
</table>

Accessories:
Captive nuts, see page 1010.
Assembly screws, see page 1011.
Slide rails with two-sided mounting, siehe Seite 1097.
Installation kit for drawers, see page 1102.
Installation kit for component shelves, see page 1024.

Possible alternative:
Adaptor pieces, 482.6 mm (19”), see page 1090.
Mounting angles

**Explanation of the mounting dimensions in interior installations**

- **Cranked section**
- **L-shaped section**

A = Clearance width  
B = Mounting dimension  
C = External dimension of the rack-mounted equipment or of the front panels

<table>
<thead>
<tr>
<th>Installation width</th>
<th>A mm</th>
<th>B mm</th>
<th>C mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>$19''$</td>
<td>450</td>
<td>465</td>
<td>482.6</td>
</tr>
<tr>
<td>$21''$</td>
<td>500</td>
<td>515</td>
<td>533.4</td>
</tr>
<tr>
<td>$23''$</td>
<td>552</td>
<td>567</td>
<td>584.2</td>
</tr>
<tr>
<td>$24''$</td>
<td>577</td>
<td>592</td>
<td>609.6</td>
</tr>
<tr>
<td>$10''39 HP$</td>
<td>221.4</td>
<td>236</td>
<td>254</td>
</tr>
<tr>
<td>$9.5''$</td>
<td>208.7</td>
<td>223.3</td>
<td>241.3</td>
</tr>
<tr>
<td>$18 SU$</td>
<td>450</td>
<td>465</td>
<td>485</td>
</tr>
<tr>
<td>$20 SU$</td>
<td>500</td>
<td>515</td>
<td>535</td>
</tr>
</tbody>
</table>

**Mounting angles, 482.6 mm (19'')**

for TS, FR(i), Toptec CR

Available in two versions:

- **Cranked**
  The integral U markings in the front facilitate systematic assembly within the 482.6 mm (19'') attachment level.

- **L-shaped**
  The L-shaped mounting angles accommodate the installation kits of server systems. The integral U markings in the front facilitate systematic assembly within the 482.6 mm (19'') attachment level.

**Technical specifications:**

2 mm sheet steel, with integral 482.6 mm (19'') punchings (EIA standard) and side round and square holes. Zinc-plated, passivated for conductive connection of the 482.6 mm (19'') installed equipment.

**Supply includes:**

- Assembly parts.

Explaination of the mounting dimensions in interior installations, see page 1091.

<table>
<thead>
<tr>
<th>Full installation rack height mm</th>
<th>U Packs</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>11 2</td>
<td>7827.061</td>
</tr>
<tr>
<td>800</td>
<td>15 2</td>
<td>7827.080</td>
</tr>
<tr>
<td>1000</td>
<td>20 2</td>
<td>7827.100</td>
</tr>
<tr>
<td>1200</td>
<td>24 2</td>
<td>7827.120</td>
</tr>
<tr>
<td>1400</td>
<td>29 2</td>
<td>7827.140</td>
</tr>
<tr>
<td>1600</td>
<td>33 2</td>
<td>7827.160</td>
</tr>
<tr>
<td>1800</td>
<td>38 2</td>
<td>7827.180</td>
</tr>
<tr>
<td>2000</td>
<td>42 2</td>
<td>7827.200</td>
</tr>
<tr>
<td>2200</td>
<td>47 2</td>
<td>7827.220</td>
</tr>
</tbody>
</table>

**Note:**

The mounting angles can also be used to accommodate 21'', 23'' and 24'' attachment dimensions.

**Note FR(i):**

Only full installation is possible in conjunction with the TS installation bracket (DK 7827.480), see page 1096.

**Also required:**

Punched sections with mounting flanges or depth stays for TS as installation kit for mounting angles, see page 1095 – 1096.

For L-shaped mounting angle variant:

for mounting slide rails or component shelves:

Adaptor DK 7827.300, see page 1023.
482.6 mm (19”) installation

**Mounting angles**

**Mounting angles, 482.6 mm (19”)**

<table>
<thead>
<tr>
<th>Enclosure height mm</th>
<th>Usable U with full installation</th>
<th>Packs of</th>
<th>Model No. FR(i)</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>11</td>
<td>2</td>
<td>7856.800</td>
</tr>
<tr>
<td>1200</td>
<td>24</td>
<td>2</td>
<td>7856.803</td>
</tr>
<tr>
<td>1800</td>
<td>38</td>
<td>2</td>
<td>7856.806(1)</td>
</tr>
<tr>
<td>2000</td>
<td>42</td>
<td>2</td>
<td>7856.809</td>
</tr>
<tr>
<td>2200</td>
<td>47</td>
<td>2</td>
<td>7856.812(1)</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

For FR(i), width 600 mm
For the installation of 482.6 mm (19”) components in the foremost mounting position. The mounting angle may be rotated through 180°, so as to create additional free space for cable routing in the front section. Side openings allow the hollow section of the enclosure frame to continue being used for cable routing.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

**Explanation of the mounting dimensions in interior installations,** see page 1091.

---

**Mounting angles, 482.6 mm (19”)**

**For FlatBox**

L-shaped bracket as 2nd attachment level.

**Material:**
Sheet steel

**Supply includes:**
Assembly parts for fast, toolless assembly.

---

**Mounting angles, 482.6 mm (19”)**

**For QuickBox**
For the installation of 482.6 mm (19”) rack-mounted equipment.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

**Explanation of the mounting dimensions in interior installations,** see page 1091.

---

**Mounting angles, 482.6 mm (19”)**

**For DK-EL**
This mounting angle kit allows you to integrate a second 482.6 mm (19”) level into EL enclosures.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

**Explanation of the mounting dimensions in interior installations,** see page 1091.
Mounting angles

T-slot mounting angles, 482.6 mm (19”)/metric
for TS, FR(i), Toptec CR, CS basic and modular enclosures
With integral T-slot for U nuts. Holes on a U pitch pattern are integrated into the rear section of the T-slot. Round and square holes on a 25 mm DIN 43 660 pitch pattern of holes are provided for side attachment. The mounting angle may optionally be integrated using PS metric or 482.6 mm (19”) depth stays.

Material:
Extruded aluminium section, pickled

Supply includes:
Assembly parts.

Note:
In 600 mm wide enclosures, mounting angles may be alternatively depth-mounted on TS punched sections with mounting flanges.

Explanation of the mounting dimensions in interior installations, see page 1091.

<table>
<thead>
<tr>
<th>Full installation rack height mm</th>
<th>U</th>
<th>SU</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>15</td>
<td>20</td>
<td>2</td>
<td>7001.150</td>
</tr>
<tr>
<td>1000</td>
<td>20</td>
<td>35</td>
<td>2</td>
<td>7001.200</td>
</tr>
<tr>
<td>1200</td>
<td>24</td>
<td>42</td>
<td>2</td>
<td>7001.240</td>
</tr>
<tr>
<td>1400</td>
<td>29</td>
<td>51</td>
<td>2</td>
<td>7001.290</td>
</tr>
<tr>
<td>1600</td>
<td>33</td>
<td>58</td>
<td>2</td>
<td>7001.330</td>
</tr>
<tr>
<td>1800</td>
<td>38</td>
<td>67</td>
<td>2</td>
<td>7001.380</td>
</tr>
<tr>
<td>2000</td>
<td>42</td>
<td>74</td>
<td>2</td>
<td>7001.420</td>
</tr>
<tr>
<td>2200</td>
<td>47</td>
<td>83</td>
<td>2</td>
<td>7001.470</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Also required:
TS punched section with mounting flange as installation kit for mounting angles, see page 1095, or depth stay for PS, see page 1093.

Accessories:
Spring nuts with screws, see page 1104.

Mounting angles, 482.6 mm (19”)
for CS basic and modular enclosures
For mounting 482.6 mm (19”) components in Outdoor enclosures. The mounting angles are depth-adjustable on a 25 mm pitch pattern. An installation bracket is required to attach the mounting angles.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Explanation of the mounting dimensions in interior installations, see page 1091.

<table>
<thead>
<tr>
<th>Enclosure height mm</th>
<th>U</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>15</td>
<td>2</td>
<td>7685.000</td>
</tr>
<tr>
<td>1200</td>
<td>24</td>
<td>2</td>
<td>7688.000</td>
</tr>
<tr>
<td>1400</td>
<td>29</td>
<td>2</td>
<td>7689.000</td>
</tr>
<tr>
<td>1600</td>
<td>33</td>
<td>2</td>
<td>7690.000</td>
</tr>
</tbody>
</table>

Also required:
Depth stay for PS, see page 1093.

Depth stay for PS
for TS, FR(i)
● T-slot mounting angles
● Mounting angles

Material:
Sheet steel, zinc-plated, passivated

Note:
Only full installation with FR(i).
Mounting angles

Mounting frame, 482.6 mm (19”)
for TS, FR(i), CS basic and modular enclosures

The welded 482.6 mm (19”) mounting frame may be attached with complete depth variability and is used to structure the front and rear 482.6 mm (19”) level. The mounting frame has the same system punchings as the TS 8 enclosure section at the sides and rear, and therefore supports the mounting of various TS 8 system accessories such as cable clamp rails, cable shunting rings etc.

Load capacity:
Up to 1000 kg static load, with even load distribution on two 482.6 mm (19”) mounting frames, with full installation.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Note:
A combination of 482.6 mm (19”) mounting frame plus fan mounting plate is not possible. For active ventilation, we recommend use with modular fan roof.

Explanation of the mounting dimensions in interior installations, see page 1091.

Adhesive measurement strip, 482.6 mm (19”)

Of stable aluminium foil, guarantees simple processing and durability. With numerical labelling on an imperial pitch pattern for clear identification of the various height units. The double-sided labelling allows the counting direction to be freely selected, up to a maximum of 56 U. In this way, clear documentation of the various mounting parts is easily achieved.

Material:
Aluminium foil

Mounting angles, metric
for TS

The L-shaped mounting angles accommodate metric assemblies and components. Depending on the installation kit, mounting dimensions 465 mm and 515 mm can be configured.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Explanation of the mounting dimensions in interior installations, see page 1091.

Accessories:

Captive nuts, see page 1105.
Assembly screws, see page 1011.
Cable clamp rails TS, see page 1068.
C rails, see page 1000.
Component shelves, see page 1013 and page 1017.
Fan roof, modular, see page 705.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>U</th>
<th>Model No. FR(i)</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>600</td>
<td>11</td>
<td>7856.710</td>
</tr>
<tr>
<td>600</td>
<td>1200</td>
<td>24</td>
<td>7856.713</td>
</tr>
<tr>
<td>600</td>
<td>1800</td>
<td>38</td>
<td>7856.716</td>
</tr>
<tr>
<td>600</td>
<td>2000</td>
<td>42</td>
<td>7856.719</td>
</tr>
<tr>
<td>600</td>
<td>2200</td>
<td>47</td>
<td>7856.722</td>
</tr>
<tr>
<td>800</td>
<td>1200</td>
<td>24</td>
<td>7856.725</td>
</tr>
<tr>
<td>800</td>
<td>1800</td>
<td>38</td>
<td>7856.728</td>
</tr>
<tr>
<td>800</td>
<td>2000</td>
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<td>7856.731</td>
</tr>
<tr>
<td>800</td>
<td>2200</td>
<td>47</td>
<td>7856.734</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Labelling range U</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 56</td>
<td>1</td>
<td>7956.100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full installation rack height mm</th>
<th>SU</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>–</td>
<td>17</td>
<td>2</td>
<td>7831.611</td>
</tr>
<tr>
<td>1000</td>
<td>37</td>
<td>2</td>
<td>7831.621</td>
</tr>
<tr>
<td>1200</td>
<td>43</td>
<td>2</td>
<td>7794.420</td>
</tr>
<tr>
<td>1600</td>
<td>59</td>
<td>2</td>
<td>7794.740</td>
</tr>
<tr>
<td>2000</td>
<td>76</td>
<td>2</td>
<td>7831.631</td>
</tr>
<tr>
<td>2200</td>
<td>84</td>
<td>2</td>
<td>7831.641</td>
</tr>
</tbody>
</table>

Also required:
Punched sections with mounting flanges or depth stays for TS as installation kit for mounting angles, see page 1095 – 1096.
**Mounting angles additional fastening attachment**

for 800 mm wide TS network enclosures

The additional fastening attachment counteracts bending of the mounting angles mounted on installation brackets in case of unevenly distributed loads. It is attached directly to 482.6 mm (19") mounting angles and to the punched section with mounting flange fitted in the depth (inner mounting level).

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

---

**TS punched section with mounting flange as installation kit**

for

- Mounting angles, 482.6 mm (19")
- Mounting angles, metric, Mounting dimension 465 mm

Installation in enclosure width 600 mm

The installation kit consists of 4 TS punched sections with mounting flange 17 x 73 mm to accommodate mounting angles. One pack is sufficient for installing one or two 482.6 mm (19") attachment levels. For exceptionally heavy installed equipment, we recommend the installation of additional punched sections.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.

---

**Depth stays as installation kit**

for mounting angles, 482.6 mm (19")

Installation in enclosure width 800 mm

One installation kit consists of 4 depth stays to accommodate mounting angles. One pack is sufficient for installing one or two 482.6 mm (19") attachment levels. For exceptionally heavy installed equipment, we recommend the installation of an additional depth stay in the centre. The front cut-out makes cable routing easier with full configuration.

**Material:**
Sheet steel, zinc-plated, passivated

**Supply includes:**
Assembly parts.
482.6 mm (19”) installation

Installation kits for mounting angles

**Depth stays for TS**

*for mounting angles in TS, FR(ii), 482.6 mm (19”)*

Installation in enclosure width 800 mm

Depth stays are screw-fastened to the enclosure frame in the enclosure width. The mounting angle is attached to the depth stay at the top and bottom. The depth stay ensures optimum clearance at the sides for cable routing. For partial enclosure configuration, the depth stays may be attached to the TS punched sections with mounting flanges 17 x 73 mm on the outer attachment level of the enclosure frame. Fully depth-variable attachment is facilitated by the attachment slots. Either cranked or L-shaped mounting angles may be used.

**Material:**

Sheet steel, zinc-plated, passivated (DK 7827.480)

Sheet steel, spray-finished in RAL 7035 (DK 7827.490)

**Supply includes:**

Assembly parts.

---

**Depth stays as installation kit**

*for Toptec CR*

Installation in enclosure width 800 mm

One installation kit consists of 4 depth stays to accommodate mounting angles. One pack is sufficient for installing one or two 482.6 mm (19”) attachment levels. The installation kit is secured to the inner mounting level.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

---

**Depth stays as installation kit**

*for mounting angles, 482.6 mm (19”), mounting dimensions 23” and 24”*

Installation in enclosure width 800 mm

When using depth stays in 800 mm wide enclosures, attachment spacings of 23” and 24” are achieved. Either cranked or L-shaped, 482.6 mm (19”) mounting angles may be used.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

---

**Accessories:**

For partial installation, TS punched section with mounting flange, see page 993 – 994. Mounting angles, cranked or L-shaped, see page 1091.

---

**Packaging information:**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>side</td>
<td>7827.480</td>
</tr>
<tr>
<td>central</td>
<td>7827.490</td>
</tr>
</tbody>
</table>

**Depth stays as installation kit**

*for mounting angles, 482.6 mm (19”), mounting dimensions 23” and 24”*

Installation in enclosure width 800 mm

When using depth stays in 800 mm wide enclosures, attachment spacings of 23” and 24” are achieved. Either cranked or L-shaped, 482.6 mm (19”) mounting angles may be used.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

---

**Accessories:**

For frame size 600 x 600 mm you will need: TS punched section with mounting flange as installation kit, Model No. TS 8612.060, see page 1095.

---

**Delivery times available on request.**

---

**For enclosures**

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Depth mm</th>
<th>Packs</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>600</td>
<td>4</td>
<td>7794.580</td>
</tr>
</tbody>
</table>

**Note:**

For frame size 600 x 600 mm you will need: TS punched section with mounting flange as installation kit, Model No. TS 8612.060, see page 1095.
Slide rails
for TS mounting angles
With one-sided mounting on the 482.6 mm (19")
mounting angles.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>185</td>
<td>10</td>
<td>4530.000</td>
</tr>
<tr>
<td>270</td>
<td>10</td>
<td>4531.000</td>
</tr>
</tbody>
</table>

⚠️ Also required:
Mounting angles, 482.6 mm (19”),
see page 1089.

Slide rails
for TS mounting angles
With two-sided mounting between the 482.6 mm
(19") front and rear mounting angles or 482.6 mm
(19") adaptor pieces.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. TS</th>
<th>Model No. PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>10</td>
<td>8613.150</td>
<td>–</td>
</tr>
<tr>
<td>600</td>
<td>10</td>
<td>8613.160</td>
<td>4546.000</td>
</tr>
<tr>
<td>800</td>
<td>10</td>
<td>8613.180</td>
<td>4549.000</td>
</tr>
</tbody>
</table>

⚠️ Also required:
Mounting angles, 482.6 mm (19”),
see page 1089.
Adaptor pieces, 482.6 mm (19”),
see page 1090.

Slide rails, heavy-duty
for TS, FR(i), TE
With L-shaped mounting angles or 482.6 mm
(19") mounting frame and a clearance between
levels of 740 mm.
Easily and quickly installed thanks to locating
brackets for the rear level.

Load capacity:
100 kg static load

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Distance between 19&quot; levels mm</th>
<th>Contact surface Width mm</th>
<th>Depth mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>740</td>
<td>50</td>
<td>734</td>
<td>2</td>
<td>7663.740</td>
</tr>
</tbody>
</table>
Slide rails

Slide rails, heavy-duty
for TS network enclosures with two 482.6 mm (19") levels
To support heavy installed equipment. The slide rails are simply located into the cranked mounting angles and secured with screws. The combined use with additional depth stays or, in case of 80 mm wide enclosures, with the additional fastening attachment counteracts possible bending of the mounting angles in case of unevenly distributed loads.

Load capacity: 80 kg, static load
Material: Sheet steel, zinc-plated, passivated
Supply includes: Assembly parts.
Note: Not suitable for use in 482.6 mm (19") mounting frames.

<table>
<thead>
<tr>
<th>Distance between 19&quot; levels mm</th>
<th>Contact surface Width mm</th>
<th>Depth mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>298</td>
<td>55</td>
<td>261</td>
<td>2</td>
<td>7492.300</td>
</tr>
<tr>
<td>398</td>
<td>55</td>
<td>361</td>
<td>2</td>
<td>7492.400</td>
</tr>
<tr>
<td>498</td>
<td>55</td>
<td>461</td>
<td>2</td>
<td>7492.500</td>
</tr>
<tr>
<td>598</td>
<td>55</td>
<td>561</td>
<td>2</td>
<td>7492.060</td>
</tr>
<tr>
<td>698</td>
<td>55</td>
<td>661</td>
<td>2</td>
<td>7492.070</td>
</tr>
</tbody>
</table>

Also required:
For fastening to L-shaped TS mounting angles: Adaptor DK 7827.300, see page 1023.

Possible alternative:
For mounting on the front and rear mounting angles: Slide rail SR 1962.200, see page 1085.

Slide rails, depth-variable, 1 U
for server and network enclosures with two 482.6 mm (19") mounting levels and L-shaped mounting angles
The slide rail is pulled out to the required length and secured between the front and rear mounting level. Rear location lugs and front screw-fastening enable convenient one-man assembly. The mounting component to be integrated is inserted horizontally onto the slide rail and optionally secured to the mounting level via its attachment slots.

Load capacity: 80 kg/150 kg, static load
Material: Sheet steel, zinc-plated, passivated
Supply includes: Assembly parts.
Note: The super-slimline design of the slide rail allows it to be used in most integration cases for 482.6 mm (19") mounting components. Because it is secured to the standardised mounting level, it is manufacturer-independent. The slide rail slightly reduces the installation space below the slide rail so that the U below it is only available for limited use.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Load capacity kg</th>
<th>Contact surface Width mm</th>
<th>Depth mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>390 – 600</td>
<td>80</td>
<td>50</td>
<td>2</td>
<td>7063.882</td>
<td></td>
</tr>
<tr>
<td>590 – 930</td>
<td>80</td>
<td>50</td>
<td>2</td>
<td>7063.883</td>
<td></td>
</tr>
<tr>
<td>590 – 930</td>
<td>150</td>
<td>25</td>
<td>2</td>
<td>7063.884</td>
<td></td>
</tr>
</tbody>
</table>

Slide rails for FR(i), TE and 482.6 mm (19") mounting frames
For mounting between a front and a rear pair of mounting angles. The slide rails can be used to support heavy 482.6 mm (19") components.

Load capacity: 80 kg, static load
Material: Sheet steel, zinc-plated, passivated
Supply includes: Assembly parts.

<table>
<thead>
<tr>
<th>Distance between 19&quot; levels mm</th>
<th>Contact surface Width mm</th>
<th>Depth mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>395</td>
<td>85</td>
<td>324</td>
<td>2</td>
<td>7963.310</td>
</tr>
<tr>
<td>495</td>
<td>85</td>
<td>424</td>
<td>2</td>
<td>7963.410</td>
</tr>
<tr>
<td>595</td>
<td>85</td>
<td>524</td>
<td>2</td>
<td>7963.510</td>
</tr>
<tr>
<td>695</td>
<td>85</td>
<td>624</td>
<td>2</td>
<td>7963.610</td>
</tr>
<tr>
<td>795</td>
<td>85</td>
<td>724</td>
<td>2</td>
<td>7963.710</td>
</tr>
</tbody>
</table>
**Slide rails/server integration**

---

**Slide rails**

*for EL*

For the installation of heavy slide-in equipment.

**Material:**

Sheet steel, zinc-plated, passivated

---

**Universal server installation kit, 482.6 mm (19")**

*for TS, FR(i)*

The universal server installation kit is ideally suited for integrating most standard server types into Rittal enclosures with L-shaped mounting angles and a minimum enclosure depth of 900 mm. The installation kit is specially designed to ensure free access to the 482.6 mm (19") level, for securing the individual servers in the retracted position using the screws (M5) provided.

**Load capacity:**

80 kg, static load

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

---

**Critical!**

Also required:

Mounting adaptor depending on the server type. For FR(i) and enclosures with two 482.6 mm (19") mounting frames:

Installation kit DK 7063.102, see page 1099.

---

**Mounting adaptor**

The adaptors (additionally required) allow servers to be secured to the universal installation kit using the original installation kits supplied by the server manufacturers. The adaptor should be chosen according to the server type being installed. This specific mounting adaptor allows problem-free configuration of combined systems and facilitates flexible use of the individual enclosures in future.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

1 set of mounting adaptors, sufficient for integration of an individual server, including assembly parts.

---

**Installation kit**

*for FR(i) and 482.6 mm (19") mounting frames*

This installation kit makes it possible to mount the universal server installation kit DK 7063.100 both in FR(i) server racks and on two 482.6 mm (19") mounting frames.

**Material:**

Sheet steel, zinc-plated, passivated

---

### Slide rails/server integration

<table>
<thead>
<tr>
<th>For centre part depth mm</th>
<th>Packs of</th>
<th>Model No. EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>216</td>
<td>10</td>
<td>2240.000</td>
</tr>
<tr>
<td>316</td>
<td>10</td>
<td>2250.000</td>
</tr>
<tr>
<td>416</td>
<td>10</td>
<td>2260.000</td>
</tr>
</tbody>
</table>

### Universal server installation kit, 482.6 mm (19")

<table>
<thead>
<tr>
<th>For</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>all common server types</td>
<td>1 set</td>
<td>7063.100</td>
</tr>
</tbody>
</table>

**Load capacity:**

80 kg, static load

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.
482.6 mm (19”) installation

482.6 mm (19”)/metric installation

Blanking plate, 482.6 mm (19”)

For the installation in electronic enclosures or housings.

Material: Aluminium, natural-anodised

<table>
<thead>
<tr>
<th>U</th>
<th>Packs of</th>
<th>Model No. VC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>3746.000</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>3747.000</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3748.000</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>3749.000</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3</td>
<td>1936.200</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>1935.200</td>
</tr>
<tr>
<td>8</td>
<td>3</td>
<td>1937.200</td>
</tr>
<tr>
<td>9</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Blanking plate, horizontally hinged

For the installation in electronic enclosures or housings.

Material: 3 mm aluminium, natural-anodised

Hinge: Die-cast zinc, zinc-plated

Supply includes:

Assembly parts.

<table>
<thead>
<tr>
<th>Width</th>
<th>U</th>
<th>Packs of</th>
<th>Model No. EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 mm (19”)</td>
<td>3</td>
<td>1</td>
<td>1944.000</td>
</tr>
<tr>
<td>482.6 mm (19”)</td>
<td>6</td>
<td>1</td>
<td>1945.000</td>
</tr>
</tbody>
</table>

Blanking plate, vertically hinged

For the installation in electronic enclosures or housings.

Material: 3 mm aluminium, natural-anodised

Hinge: Die-cast zinc, zinc-plated

Supply includes:

Assembly parts.

Hinge

for blanking plates

Material: Die-cast zinc, zinc-plated

Supply includes:

Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1950.000</td>
</tr>
</tbody>
</table>

German patent no. 40 04 264

Ventilation front panels

For venting enclosures and cases.

Material: Aluminium, natural-anodised

<table>
<thead>
<tr>
<th>Width</th>
<th>U</th>
<th>Packs of</th>
<th>Model No. EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 mm (19”)</td>
<td>1</td>
<td>3</td>
<td>2231.000</td>
</tr>
<tr>
<td>482.6 mm (19”)</td>
<td>2</td>
<td>3</td>
<td>2232.000</td>
</tr>
<tr>
<td>482.6 mm (19”)</td>
<td>3</td>
<td>3</td>
<td>2233.000</td>
</tr>
</tbody>
</table>
### Infill panel, hinged

**for 800 mm wide TS network enclosures**

To cover the side cable chamber. The infill panel is attached to the vertical enclosure frame at the front. The generous curved design will conceal even large quantities of cables, and facilitates combined use with large-scale shunting rings DK 7220.600.

The infill panel has a hinged design and allows easy access to the cabling level by simply swinging it out. Locating points keep the panel in its open and closed state.

With an offset 482.6 mm (19") mounting level the panel may likewise be offset in the enclosure depth and secured to TS punched sections with mounting flange on the inner mounting level.

For mounting the 482.6 mm (19") attachment level in front-most mounting position, version with straight trim panel.

**Material:**
Sheet steel, spray-finished in RAL 7035

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>For installation height U</th>
<th>Packs of</th>
<th>Model No. TS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Trim panel curved</td>
</tr>
<tr>
<td>33</td>
<td>2</td>
<td>7827.530</td>
</tr>
<tr>
<td>38</td>
<td>2</td>
<td>7827.532</td>
</tr>
<tr>
<td>42</td>
<td>2</td>
<td>7827.534</td>
</tr>
<tr>
<td>47</td>
<td>2</td>
<td>7827.536</td>
</tr>
</tbody>
</table>

\(^{(1)}\) Delivery times available on request.

### Accessories:

- **TS punched section with mounting flange**
  17 x 73 mm for the inner mounting level, see page 993 – 994.
- **PS punched section without mounting flange**, 23 x 73 mm, see page 998.

### Note:

The installation of depth stays, e.g. DK 7827.600/800 is not possible.

### Brush strip, vertical

**for TS, TE**

Within the network distributor, this serves as a flexible infill panel which stylishly conceals the cable management area to the side of the 482.6 mm (19") mounting level. The brush strip facilitates convenient cable routing from the side and rear distributor area to the front connection level. The clearance required in front of the mounting level is at least 75 mm.

Within the TS, the brush strip is mounted at the side on the vertical frame section, on horizontal or vertical punched sections. It may also be mounted directly on the mounting level of the TS or TE 7000. For direct mounting on the 482.6 mm (19") mounting frame of the TS or TE, the brush strip should be cut to length accordingly.

**Material:**
Aluminium section with brush strip:
Plastic, UL 94-V0

**Supply includes:**
1 set = 4 brush strips, length 950 mm each.

<table>
<thead>
<tr>
<th>For enclosure height mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>1 set</td>
<td>7827.544</td>
</tr>
</tbody>
</table>
482.6 mm (19”) installation

482.6 mm (19’’)/metric installation

**Drawer, 2 U, 3 U**

*for a 482.6 mm (19”) attachment level*

For front attachment to mounting angles, 482.6 mm (19”). With cover and telescopic slides to accommodate assignment lists, operating manuals and small parts. The small version of the 2 U variant is also suitable for mounting inside a swing frame.

**Material:**
- Sheet steel

**Colour:**
- RAL 7035

**Supply includes:**
- Fully assembled, including assembly parts.

**Drawer for 482.6 mm (19’’)**

*with shelf*

For keyboards, operating manuals etc. The perforated plate in the base helps air to circulate in the enclosure. Load capacity 50 kg. The 1 U drawer can be installed rotated through 180°, allowing it to be used as a utility table.

**Material:**
- Drawer: Aluminium, anodised
- Telescopic slides: Sheet steel, zinc-plated, passivated

**Supply includes:**
- Telescopic slides.

**Installation kit**

*for component shelves and drawers,*

*with 482.6 mm (19”) installation in TS, ES*

For installation between the front and rear adaptor sections or adaptor pieces, 482.6 mm (19”) in 600 mm wide enclosures.

**Material:**
- Sheet steel, zinc-plated, passivated

**Supply includes:**
- Assembly parts.

**Installation kit, depth-variable**

*for 482.6 mm (19”) component shelves and drawers*

Depending on the distance between the two 482.6 mm (19”) mounting levels, the installation kit is screw-fastened in the depth between the cranked or L-shaped mounting angles.

**Material:**
- Sheet steel, zinc-plated, passivated

**Supply includes:**
- Assembly parts.

---

**Height** | **Clearance openings** | **Installation depth** | **Model No.**
---|---|---|---
2 U | 411 | 244 | 250 | 7282.135
2 U | 411 | 419 | 427 | 7282.035
3 U | 411 | 419 | 427 | 7283.035

**U** | **Model No. PS**
---|---
1 | 4541.000
3 | 4542.000

*Also required:*

Installation kit, corresponding to the chosen enclosure system or depth-variable installation kit, see page 1102.

**For enclosure depth mm** | **Packs of** | **For enclosure system**
---|---|---
500 | 1 set | Model No. TS Model No. ES
600 | 1 set | 8800.580
800 | 1 set | 8800.550

*Also required:*

Mounting angles, 482.6 mm (19”), or adaptor pieces, 482.6 mm (19”), see page 1090.

**Distance between 19” levels mm** | **Packs of** | **Model No. DK**
---|---|---
550 – 850 | 2 | 7063.850

German patent no. 197 10 023
482.6 mm (19”) installation

Adaptor, 3 U
Depth offset 100 mm
This adaptor is used to recess 482.6 mm (19”) mounting of equipment inside enclosures with 19” installation in the foremost position, such as server or electronic enclosures. In this way, sufficient space can be gained in front of the mounting equipment to integrate patch panels or switches, whilst at the same time exploiting the maximum enclosure depth.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7246.400</td>
</tr>
</tbody>
</table>

Mounting kit, 2 U
for 482.6 mm (19”) equipment
Facilitates fast, simple integration of additional 2 U mounting space within an enclosure by attaching to the enclosure frame or to the existing mounting angles at the sides. The flexible slot fastening of the brackets means that the distance between the two installation brackets may be freely selected, so that other 482.6 mm (19”) attachment dimensions may be implemented. The second row of holes is used for the optional configuration of additional mounting surfaces.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7246.420</td>
</tr>
</tbody>
</table>

Adaptor, metric to 482.6 mm (19”), 21”/19”
With this adaptor, 482.6 mm (19”) assemblies may be fastened to metric (535 mm) mounting angles, or combined systems may be configured.

Material:
Extruded aluminium section

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>SU</th>
<th>U</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>2</td>
<td>7246.010</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
<td>2</td>
<td>7246.030</td>
</tr>
<tr>
<td>11</td>
<td>6</td>
<td>2</td>
<td>7246.060</td>
</tr>
</tbody>
</table>
482.6 mm (19”) installation

482.6 mm (19’’)/metric installation

Adaptor kit 3 U

for 800 mm wide TS enclosures

For fastening individual 482.6 mm (19”) components, or as an additional mounting facility at the rear of the enclosure. The mounting level in the adaptor angle can be adjusted by 100 mm in the depth, leaving sufficient space for baying where patch panels or splicing boxes are used.

Material:
Sheet steel

Colour:
RAL 7035

<table>
<thead>
<tr>
<th>Height</th>
<th>Mounting position</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 U</td>
<td>central</td>
<td>7246.100</td>
</tr>
</tbody>
</table>

⚠️ Also required:
Adaptor rail, see page 997 or assembly block, see page 997.

Mounting frame 54 U

for TS, FR(i)

The mounting frame allows configuration of a side-offset 482.6 mm (19”) level with 42 U useful installation space plus the additional integration of a further 12 U for vertical installation. The additional side extension is divided into three installation levels arranged on top of one another, each with 4 U. The mounting frame may be installed at either the front or rear.

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
12 U mounting trim at the side.

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Additional vertical installation area</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>2000</td>
<td>12 U</td>
<td>7827.554</td>
</tr>
</tbody>
</table>

Delivery times available on request.

⚠️ Also required:
Mounting angles, 482.6 mm (19”), see page 1091.

Spring nuts with screws

M6 x 10 mm for T-slot mounting angle

The spring nuts ensure flexible, secure mounting of accessory components on the T-slot of the FR(i) frame and on the T-slot mounting angles.

Supply includes:
50 spring nuts,
50 screws, 10 mm, self-locking.

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phillips-head, M6</td>
<td>50</td>
<td>7006.990</td>
</tr>
</tbody>
</table>
Assembly screws
M5 x 16 mm/M6 x 16 mm
For electronic equipment, 482.6 mm (19") installed components and blanking plates.
Supply includes:
Plastic washers.

Multi-tooth screws
M5 x 16 mm/M6 x 16 mm
For optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.
Supply includes:
Plastic washers.

Captive nuts M5/M6
For the attachment of rack-mounted electronic equipment, 482.6 mm (19") installed equipment and blanking plates to mounting angles, 482.6 mm (19").
For use with metal thickness from 0.8 – 2.0 mm. In areas of narrow tolerance, captive nuts for metal thicknesses of 1.2 – 1.5 mm should be used. Optionally with or without contact of the installed equipment to the 482.6 mm (19") section/enclosure.

Cage nut – front mounting, 482.6 mm (19")
The cage nut consists of an expanding nut which is simply inserted into the square attachment hole at the front and then secured with the assembly screw. When tightening the screw, the cage expands and thus secures the required components. Clamping range from 1.2 – 4.5 mm. Multi-tooth screw head, bit size T 30.
Material:
Sheet steel
Patch panels for copper technology

Patch panels
With slots, prepared for cable clamping with cable ties SZ 2597.000.

Design:
Suitable for direct attachment on mounting plates and, by using mounting clip SZ 2309.000, also on support rails.

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.

Accessories:
Mounting clip SZ 2309.000, see page 1002.
Cable tie SZ 2597.000, see page 1066.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Usable modules</th>
<th>Packs of</th>
<th>Model No.</th>
<th>IN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 slot</td>
<td>2 slots</td>
<td>8 slots</td>
</tr>
<tr>
<td>ADC KRONE</td>
<td>RJ 45 KM8 STP</td>
<td>1</td>
<td>2203.260</td>
<td>2203.270</td>
</tr>
<tr>
<td>BTR</td>
<td>RJ 45 E-DAT module 8 (8) Cat. 6</td>
<td>1</td>
<td>2203.200</td>
<td>2203.210</td>
</tr>
<tr>
<td>Corning Cable Systems</td>
<td>RJ 45 FutureCom™ S250 module</td>
<td>1</td>
<td>2203.220</td>
<td>2203.230</td>
</tr>
<tr>
<td>Dätwyler</td>
<td>RJ 45 unilair® module MS 1/8 Cat. 6</td>
<td>1</td>
<td>2203.220</td>
<td>2203.230</td>
</tr>
<tr>
<td>Reichle &amp; De-Massari (R&amp;M)</td>
<td>RJ 45 connection module Cat. 5e and Cat. 6, fibre-optic couplings SC-RJ and E2000™ Compact (via module recess)</td>
<td>1</td>
<td>2203.110</td>
<td>2203.120</td>
</tr>
<tr>
<td>Tyco Electronics Corporation (AMP NETCONNECT)</td>
<td>RJ 45 SL series (Toolless Jacks, 110Connect Jacks, AMP-TWIST6S Jacks)</td>
<td>1</td>
<td>2203.240</td>
<td>2203.250</td>
</tr>
</tbody>
</table>

FutureCom is a brand name of Corning Cable Systems Brands, Inc. unilair is a registered trademark of Dätwyler Kabel+Systeme. AMP NETCONNECT and AMP-TWIST are brand names of Tyco Electronics Corporation.

Top-hat rail module
Top-hat rail module with mounting clip for top-hat rails to DIN 50 002, robust metal housing, with strain relief.
Cat. 6, 2 x RJ 45, System Corning Future Com S 250 (cables are attached without the use of tools).

<table>
<thead>
<tr>
<th>Design</th>
<th>Cat. Packs of</th>
<th>Model No.</th>
<th>DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x Corning Future Com S 250</td>
<td>6</td>
<td>3</td>
<td>7870.614</td>
</tr>
</tbody>
</table>

Data distributors
LSA-plus system

<table>
<thead>
<tr>
<th>1 U (&quot;1/2 19&quot;) 42 HP</th>
<th>8 x RJ 45 jacks, shielded, cover with quick-release fastener, with strain relief and earth connection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 U (&quot;19&quot;) 84 HP</td>
<td>24 x RJ 45 jacks, shielded, cover with quick-release fastener, with strain relief and earth connection.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Design</th>
<th>HP</th>
<th>Cat. Packs of</th>
<th>Model No.</th>
<th>DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 ports, UTP, RJ 45/LSA, including 8 patch cables 0.25 m, yellow</td>
<td>42</td>
<td>6</td>
<td>1</td>
<td>7870.822</td>
</tr>
<tr>
<td>24 ports, STP, RJ 45/LSA, including 12 patch cables 0.6 m, yellow</td>
<td>84</td>
<td>6</td>
<td>1</td>
<td>7870.830</td>
</tr>
</tbody>
</table>
**Patch panels for copper technology**

### For shielded RJ 45 modular jacks

To accommodate screened RJ 45 jacks. Cut-outs and rear of patch panels electrically conductive to contact the fitted jacks with the patch panel and the zinc-plated, passivated 482.6 mm (19") mounting angles. With accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

**Material:**
Sheet steel, zinc-plated, passivated

**Colour:**
Front: RAL 7035,
Rear: Zinc-plated, passivated

<table>
<thead>
<tr>
<th>U</th>
<th>Number of locations</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16</td>
<td>7394.035</td>
</tr>
<tr>
<td>2</td>
<td>32</td>
<td>7395.035</td>
</tr>
</tbody>
</table>

Other versions available on request.

**Accessories:**
Cable clamp strap DK 7610.000 or DK 7611.000, see page 1070.

---

### For 24 V interfaces

For the installation of 16 sub-D (trapezoid) jacks and connectors. With accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Accessories:**
Cable clamp strap DK 7610.000 or DK 7611.000, see page 1070.

---

### To accommodate BNC jacks (version E)

With accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

**Material:**
Sheet steel

**Colour:**
RAL 7035

---

### To accommodate the AT & T Connector System 110

For the attachment of 2 wiring blocks each with 100 paired wires and accommodation facility for 2 cable holders (backboards). With rear accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
12 quick-release fasteners for wiring blocks and cable holders.

<table>
<thead>
<tr>
<th>U</th>
<th>Paired wires</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>200</td>
<td>7049.035</td>
</tr>
</tbody>
</table>

Other versions available on request.

**Accessories:**
Cable clamp strap DK 7610.000 or DK 7611.000, see page 1070.
Module panel, 482.6 mm (19")
3 U/84 HP

To accommodate various partial front plates and hence for individual assembly of a patch panel with any given combination of data connectors and couplings. The useful width is 84 HP.

Material:
Aluminium

Colour:
RAL 7035

Supply includes:
Two 482.6 mm (19") flanges,
2 horizontal rails
including 2 tapped strips.

<table>
<thead>
<tr>
<th>Pack of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7330.035</td>
</tr>
</tbody>
</table>

⚠️ Also required:
Partial front plates, see page 1108.

Partial front plates

To accommodate various data connectors and couplings in the module panel DK 7330.035.

Material:
Sheet steel

Colour:
RAL 7035

<table>
<thead>
<tr>
<th>For socket/coupling</th>
<th>Number of locations</th>
<th>HP</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>7334.035</td>
</tr>
<tr>
<td>BNC-E</td>
<td>4</td>
<td>6</td>
<td>2</td>
<td>7339.035</td>
</tr>
<tr>
<td>D-Sub 9-pole</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>7342.035</td>
</tr>
<tr>
<td>D-Sub 15-pole</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>7343.035</td>
</tr>
<tr>
<td>D-Sub 25-pole</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>7344.035</td>
</tr>
<tr>
<td>RJ 11 – 45</td>
<td>4</td>
<td>8</td>
<td>2</td>
<td>7346.035</td>
</tr>
<tr>
<td>Filter panel</td>
<td>–</td>
<td>4</td>
<td>2</td>
<td>7355.035</td>
</tr>
<tr>
<td>Filter panel</td>
<td>–</td>
<td>6</td>
<td>2</td>
<td>7356.035</td>
</tr>
<tr>
<td>Filter panel</td>
<td>–</td>
<td>8</td>
<td>2</td>
<td>7357.035</td>
</tr>
<tr>
<td>Filter panel</td>
<td>–</td>
<td>24</td>
<td>1</td>
<td>7359.035</td>
</tr>
</tbody>
</table>

Other versions available on request.
1) Extended delivery times.

Note:
For drawings of the cut-outs, see page 1107, 1109.
Patch panels for fibre-optic technology

To accommodate E-2000, E-2000 duplex or SC fibre-optic couplings
For 1 U with accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

Material: Sheet steel
Colour: RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Number of locations single/duplex</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16/8</td>
<td>7433.035</td>
</tr>
</tbody>
</table>

Other versions available on request.

Accessories:
Cable clamp strap DK 7610.000 or DK 7611.000, see page 1070.

To accommodate SC duplex fibre-optic couplings
With accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

Material: Sheet steel
Colour: RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Number of locations</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12</td>
<td>7154.035</td>
</tr>
<tr>
<td>2</td>
<td>24</td>
<td>7155.035</td>
</tr>
</tbody>
</table>

Accessories:
Cable clamp strap DK 7610.000 or DK 7611.000, see page 1070.

To accommodate ST fibre-optic couplings
With accommodation facility for cable clamp straps DK 7610.000 or DK 7611.000.

Material: Sheet steel
Colour: RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Number of locations</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16</td>
<td>7437.035</td>
</tr>
<tr>
<td>2</td>
<td>24</td>
<td>7137.535</td>
</tr>
<tr>
<td>2</td>
<td>32</td>
<td>7637.035</td>
</tr>
</tbody>
</table>

1) Extended delivery times. Other versions available on request.

Accessories:
Cable clamp strap DK 7610.000 or DK 7611.000, see page 1070.

Panel 1 U, 482.6 mm (19")
with solid tray
For the storage of fibre-optic coupling covers or assembly parts.
Depth: 100 mm

Material: Sheet steel
Colour: RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7300.335</td>
</tr>
</tbody>
</table>
### 482.6 mm (19”) installation

#### Patch panels

#### Blanking panel, 482.6 mm (19”)

As an extension cover or for population as required.

**Material:**
Sheet steel

<table>
<thead>
<tr>
<th>U</th>
<th>Installation height mm</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>RAL 7035</td>
</tr>
<tr>
<td>1</td>
<td>44</td>
<td>2</td>
<td>7151.035</td>
</tr>
<tr>
<td>1,5</td>
<td>66</td>
<td>2</td>
<td>7157.035</td>
</tr>
<tr>
<td>2</td>
<td>88</td>
<td>2</td>
<td>7152.035</td>
</tr>
<tr>
<td>3</td>
<td>132,5</td>
<td>2</td>
<td>7153.035</td>
</tr>
<tr>
<td>6</td>
<td>266</td>
<td>2</td>
<td>7156.035</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

#### Blanking panel, 1 U

**Toolless attachment, 482.6 mm (19”)**

The blanking panel is used to seal unused areas within the 482.6 mm (19”) mounting level. Quick toolless attachment means that it is easily integrated anywhere, and can also be removed again if necessary. Thanks to the consistent use of blanking panels, targeted air routing can be ensured in partially configured racks.

**Material:**
Plastic

**Supply includes:**
10 blanking panels with integral quick-fastening.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 7035</td>
<td>10</td>
<td>7151.110</td>
</tr>
<tr>
<td>RAL 9005</td>
<td>10</td>
<td>7151.105</td>
</tr>
</tbody>
</table>

#### Identification strips for patch panels

For individual labelling of different slots, self-adhesive.
Length: 210 mm, height: 10 mm.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>7167.000</td>
</tr>
</tbody>
</table>
**Splicing boxes**

**Splicing cassette holder**
To accommodate differently sized splicing cassettes with variable cassette accommodation. Up to 8 splicing cassettes may be fitted in one holder. The splicing cassette holder can be flexibly secured to any mounting surface, and is particularly suitable for retro-fitting for small fibre-optic distributors without patch panels. One extra holder may be fitted in small fibre-optic distributor DK 7452.035 → max.: 16 splicing cassettes. Two extra holders may be fitted in small fibre-optic distributor DK 7453.035 → max.: 32 splicing cassettes.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
- Holder with threaded bolts,
- variable angle bracket, cassette cover,
- knurled nut and assembly parts.

**Fibre-optic splicing box, depth-variable**
The 482.6 mm (19") splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19") accommodation and used as a fibre-optic termination or distributor. The variable cassette fixture permits twist-proof installation of all standard splicing cassettes. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps. The splicing box is infinitely depth-adjustable up to 100 mm within the 482.6 mm (19") flanges. In addition, the splicing box may be fully withdrawn from the 482.6 mm (19") flanges. Two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.

**German patent no. 196 08 385**

**Installation depth:**
302 mm

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
- Splicing box, cable routing clips and cassette cover and assembly parts for patch panel.

**Note:**
Supplied without patch panel and splicing cassettes.

**Patch panels**
for fibre-optic splicing box, depth-variable

There is a choice of 9 panels with appropriate cutouts for the installation of various fibre-optic couplings, together with 2 blanking panels for individual population or as a cover. The patch panels are fastened to the splicing box with quick-release fasteners.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**For coupling**

<table>
<thead>
<tr>
<th>Model No. DK</th>
<th>Number of locations</th>
<th>Number of locations</th>
<th>Number of locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST</td>
<td>12</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>7241.015</td>
<td>24</td>
<td>7242.015</td>
<td></td>
</tr>
<tr>
<td>7241.065</td>
<td>16</td>
<td>7241.024</td>
<td></td>
</tr>
<tr>
<td>E-2000, E-2000 Duplex or SC</td>
<td>24</td>
<td>7241.045</td>
<td></td>
</tr>
<tr>
<td>SC duplex</td>
<td>12</td>
<td>24</td>
<td>7242.045</td>
</tr>
</tbody>
</table>

1) Extended delivery times.
2) For E-2000 Duplex only half of the locations are available. Other designs available on request.
Fibre-optic splicing box with telescopic pull-out
lockable
The 482.6 mm (19”) splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19”) accommodation and used as a fibre-optic termination or distributor. The telescopic pull-out provides optimum access to the splicing cassettes and cable clamp. The variable cassette fixture permits twist-proof installation of all standard splicing cassettes. The security lock fitted at the front protects against unauthorised access. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps; two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.

### Patch panels for fibre-optic splicing box, lockable
There is a choice of 20 panels with appropriate cut-outs for the installation of various fibre-optic couplings, together with 3 blanking panels for individual population or as a cover.

<table>
<thead>
<tr>
<th>Coupling</th>
<th>Number of locations</th>
<th>Model No. DK</th>
<th>Number of locations</th>
<th>Model No. DK</th>
<th>Number of locations</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 47 256</td>
<td>12</td>
<td>7173.535(1)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>ST</td>
<td>12</td>
<td>7174.535</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>7174.135(1)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>FC-PC</td>
<td>12</td>
<td>7175.535(1)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>E-2000, E-2000 Duplex(2) or SC</td>
<td>20</td>
<td>7178.535</td>
<td>24</td>
<td>7478.535</td>
<td>48</td>
<td>7578.535</td>
</tr>
<tr>
<td>SC duplex</td>
<td>12</td>
<td>7169.535</td>
<td>24</td>
<td>7469.535</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Blanking panel</td>
<td>–</td>
<td>7179.535</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.
2) For E-2000 Duplex only half of the locations are available. Other designs available on request.

### Blanking cover for fibre-optic cut-outs
To cover unused cut-outs in patch panels.

**Material:**
Plastic PA 6.6

**Colour:**
Black

<table>
<thead>
<tr>
<th>Coupling</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC, E-2000</td>
<td>20</td>
<td>7300.230</td>
</tr>
<tr>
<td>E-2000 Duplex</td>
<td>20</td>
<td>7300.240</td>
</tr>
<tr>
<td>SC duplex</td>
<td>20</td>
<td>7300.250</td>
</tr>
<tr>
<td>ST</td>
<td>20</td>
<td>7300.250</td>
</tr>
</tbody>
</table>
**Fibre-optic breakout box 1 U**

For splice-free cabling of fibre-optic breakout cables. Cable bundles may be clamped on the hammer heads at the rear. 4 self-adhesive cable clips are supplied loose for cable clamping and for storing excess lengths inside the box.

**Material:**
Sheet steel

**Colour:**
RAL 7035

**Supply includes:**
Breakout box, cable routing clips, assembly parts for patch panel.

---

**Patch panels**

for fibre-optic breakout box 1 U

There is a choice of 5 panels for the breakout box with appropriate cut-outs for the installation of various fibre-optic couplings, together with 1 blanking panel for individual population or as a cover.

**Material:**
Sheet steel

**Colour:**
RAL 7035

---

**Fibre-optic splicing distributor**

Unlike the splicing box, the splicing distributor may optionally be installed inside or outside of network distribution enclosures. The splicing distributor is designed to accommodate fibre-optic splicing cassettes. These are mounted individually between mounting trays which can be stacked on top of one another as required. Strain relief for the cables and individual fibres is provided by cable ties. The basic unit can accommodate up to 2 additional packs of 4 extension units DK 7381.035.

**Dimensions:**
W x H x D: 190 x 250 x 90 mm

**Threaded bolts:**
75 mm

---

**Fibre-optic splicing distributor extension unit**

Additional pairs of mounting trays, each of which can accommodate one splicing cassette and the fibre stock, are used to extend the splicing distributor.

**Material:**
Sheet steel

**Colour:**
RAL 7035
482.6 mm (19”) installation

Splicing boxes/LSA connection system

Fibre-optic splicing cassette support
To accommodate up to 4 splicing cassettes to DIN 47 662.
The cassettes may be removed individually, to avoid damaging intact connections during maintenance work.
May be installed in two positions on the mounting plate or on punched sections, to ensure space-saving integration.
There is plenty of space for buffered fibres. Strain relief of buffered fibres and cable pigtails may be provided from above and below using cable ties.

Dimensions:
W x H x D: 104 x 250 x 165 mm
Material:
Sheet steel, zinc-plated, passivated
Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2203.300</td>
</tr>
<tr>
<td>1</td>
<td>2203.310</td>
</tr>
</tbody>
</table>

Fixture with rods, 3 U
for LSA strips
To accommodate 15 LSA profile dividing strips 2/10 on 2 rods, Ø 12 mm.
The fixture unit may be integrated in all 482.6 mm (19”) mounting levels. With cable clamp rail at the rear.
Dimensions:
W x H x D: 482.6 mm (19”) x 132.5 mm (3 U) x 180 mm

<table>
<thead>
<tr>
<th>U</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>7050.200</td>
</tr>
</tbody>
</table>

Material:
Side panels: Aluminium plates
482.6 mm (19”) side panels/horizontal rail: Extruded aluminium section
Supply includes:
Fixture with rods as modular system.

Support unit, 3 U
for LSA-Plus strips, max. 150 paired wires
To accommodate a maximum of 15 LSA-Plus strips (each with 10 paired wires), 3 x 5 LSA-Plus connection strips 2/10, series 2, may be installed horizontally. Strip length 124 mm, height pitch pattern 22.5 mm. The support unit may be integrated in all 482.6 mm (19”) mounting levels. The mounting level is recessed 75 mm behind the 482.6 mm (19”) flanges. Integral shunting rings enable tidy routing and distribution of the telecommunication cables.

<table>
<thead>
<tr>
<th>U</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>7050.100</td>
</tr>
</tbody>
</table>

Material:
Stainless steel
Supply includes:
Support unit, 8 shunting rings.

Accommodation system, 2 U
for LSA installation kit
To accommodate LSA mounting troughs/cable retainers on the 482.6 mm (19”) mounting angle.
Dimensions:
Total depth: 98.5 mm
Height: 2 U
Material:
Sheet steel
Colour:
RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>7050.035</td>
</tr>
</tbody>
</table>

Accessories:
FM universal mounting bracket, see page 861.
### Handle set

**for Comfort Panel**
For external mounting on corner pieces, also suitable for retro-fitting.

**Material:**
- Handle tube: Aluminium, natural-anodised
- Handle holder: Die-cast zinc, powder-coated in RAL 7024
- Covers: Polyamide, similar to RAL 7024

**Note:**
- Shorter heights and widths can be achieved by cutting the handle tube to length.
- For enclosures with 74 mm depth, cannot be mounted on the same side as the support arm connection.

**Accessories:**
- Clipboard, display board
  see page 1118.

#### Supply includes:
- Handle set
- 1 handle tube, Ø 20 mm, 2 handle holders, 2 covers, Assembly parts.

### Handle set

**for Optipanel**
For external mounting on corner pieces, also suitable for retro-fitting.

**Material:**
- Handle tube: Aluminium, natural-anodised
- Handle holder: Die-cast zinc, powder-coated in RAL 7035
- Covers: Polyamide, RAL 7024

**Note:**
- Shorter heights and widths can be achieved by cutting the handle tube to length.
- For enclosures with 100 mm depth, cannot be mounted on the same side as the support arm connection.

**Accessories:**
- Clipboard, display board
  see page 1118.

#### Supply includes:
- Handle set
- 2 handle tubes, Ø 25 mm, 4 handle holders, 4 covers, assembly parts.

### For horizontal mounting

<table>
<thead>
<tr>
<th>With front panel width</th>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 mm (19&quot;)</td>
<td>1 set</td>
<td>6375.010</td>
</tr>
<tr>
<td>As specified</td>
<td>1 set</td>
<td>6375.019</td>
</tr>
</tbody>
</table>

### For vertical mounting

<table>
<thead>
<tr>
<th>With front panel height</th>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 U</td>
<td>1 set</td>
<td>6375.020</td>
</tr>
<tr>
<td>As specified</td>
<td>1 set</td>
<td>6375.029</td>
</tr>
</tbody>
</table>

1) Please additionally state when ordering:
- Number/dimensions of front panel
- Number of cross members

### Supply includes:
- Handle set
- 2 handle tubes, Ø 20 mm, 4 handle holders, 4 covers, assembly parts.
Human/machine interface

Handles, external mounting accessories

Handle set VIP
for VIP 6000 with wide frame
For mounting on the corner connectors of the enclosure frame.

Material:
Handle tube: Extruded aluminium section, natural-anodised
Handle holder: Die-cast zinc, powder-coated in RAL 7035

For horizontal mounting

<table>
<thead>
<tr>
<th>With front panel width</th>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 mm (19&quot;)</td>
<td>1 set</td>
<td>6101.000</td>
</tr>
<tr>
<td>As specified</td>
<td>1 set</td>
<td>6101.009¹</td>
</tr>
</tbody>
</table>

Supply includes:
2 handle holders,
1 handle tube,
2 screws.

For vertical mounting

<table>
<thead>
<tr>
<th>With front panel height</th>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 U</td>
<td>1 set</td>
<td>6102.000</td>
</tr>
<tr>
<td>As specified</td>
<td>1 set</td>
<td>6102.009¹</td>
</tr>
</tbody>
</table>

¹Please additionally state when ordering:
– Number and dimensions of front panel
– Number of cross members/sealing bars
– Order number of your enclosure

Accessories:
Clipboard, display board see page 1118.

Handle set
For vertical and horizontal mounting on all surfaces.
Overall length: 420 mm.

Material:
Handle tube: Aluminium, natural-anodised
Conduit holder: Die-cast zinc, RAL 7035

Supply includes:
1 set = 4 conduit holders,
2 handle tubes.

Handle frame
for operating housing with display panel front

For operating housing with display panel front

<table>
<thead>
<tr>
<th>Model No. CP</th>
<th>CP 6442.500</th>
<th>CP 6462.500</th>
<th>CP 6552.500</th>
<th>CP 6662.500</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6191.000</td>
<td>6192.000</td>
<td>6190.000</td>
<td></td>
</tr>
</tbody>
</table>

- Operating housing width (B1) mm
- Width of the horizontal rectangular tube (B2 = B1 + 48) mm
- Height of the vertical rectangular tube (H1) mm
- Hole distance between the assembly holes (H2) mm

Colour:
RAL 8019

Supply includes:
Rectangular aluminium tube,
plastic corner bracket,
end caps,
assembly parts.

Note:
Shorter heights and widths can be achieved by cutting the handle tube to length.

Accessories:
Clipboard, display board see page 1118.

Supply includes:
Packs of 4 handle holders,
2 handle tubes,
4 screws.
Handles, external mounting accessories

**Handles**
For horizontal or vertical attachment to the enclosure panel of:
- Comfort Panel,
- VIP 6000 with combined or narrow front frame,
- Optipanel,
- other enclosures or surfaces.
Mounting holes and surfaces without fins are required for assembly purposes. For the VIP 6000 version with fins, corresponding milling work may be carried out. With the operating/keyboard housing, please specify “Prepared for handle set CP 6107.XXX”.  

**Material:**
- Handle holder: Die-cast zinc, RAL 7035
- Cover bungs: Plastic, similar to RAL 7035
- Handle tube: Aluminium, powder-coated similar to RAL 9006
- German patent no. 19 937 966
- French patent no. 2 797 555
- Italian patent no. 0 131 8210
- US patent no. 6,507,978

**Corner handle**
Supply includes:
- 4 handle holders,
- 2 handle tubes,
- assembly parts.

Mounting on enclosure corner

For external mounting on straight surfaces (90° rotation of handle holder)

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>6107.000</td>
</tr>
</tbody>
</table>

**U handle**
Supply includes:
- 2 handle holders,
- 1 handle tube,
- assembly parts.

<table>
<thead>
<tr>
<th>For front panel size</th>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 7 U</td>
<td>1 set</td>
<td>6107.100</td>
</tr>
<tr>
<td>482.6 mm (19”)</td>
<td>1 set</td>
<td>6107.200</td>
</tr>
</tbody>
</table>

**Accessories:**
For CP 6107.200:
- Clipboard, display board see page 1118.

**Display board with wall bracket**
see page 1118.

Note:
Dimensions in brackets for CP 7 U.
Human/machine interface

Handles, external mounting accessories/connection components

---

**Clipboard**
For securing operating instructions or plans (A4 size) at eye level.
Prepared for mounting on the right-hand side; mounting on the left is also possible by unscrewing and moving the clip part.
For mounting purposes, a straight tube length of ≥ 200 mm, Ø 20 mm or Ø 25 mm, is required.

**Material:**
Sheet steel, RAL 7035
Clip: Aluminium, natural-anodised.

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Height mm</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>225</td>
<td>315</td>
<td>6013.000</td>
</tr>
</tbody>
</table>

**Clipboard in conjunction with Command Panel VIP 6000:**
European patent no. 0 839 093 with validity for DE, FR, GB, IT

**Also required:**
- Handle set SZ 2389.000, see page 1116
- Handle set for Comfort Panel, see page 1115
- Handle set for VIP 6000, see page 1116
- Handle set for Optipanel, see page 1115
- U handle CP 6107.200, see page 1117.

---

**Display board with wall bracket**
To accommodate test plans, documents etc. in A4 format.

**Installation:**
- On surfaces,
- On a 25 mm pitch pattern of the TS frame or rail system,
- On handle set Ø 20 mm or Ø 25 mm.

**Supply includes:**
10 display boards, wall brackets and assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>6013.100</td>
</tr>
</tbody>
</table>

**Accessories:**
- Handle set SZ 2389.000, see page 1116
- Handle set for Comfort Panel, see page 1115
- Handle set for VIP 6000, see page 1116
- Handle set for Optipanel, see page 1115
- U handle CP 6107.200, see page 1117.

---

**Enclosure surface connector**
To accommodate:
- Support for keyboards (SM 2383.000)
- Optipanel keyboard housing for front panel width = 482.6 mm (19") CP 6384.009. Please state front panel height and installation depth (50 or 100 mm) in addition to Model No.

**Material:**
Extruded aluminium section, natural-anodised,
Side cover, sheet steel RAL 7024.

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>2383.010</td>
</tr>
</tbody>
</table>

**Note:**
Other widths available on request.

---

**Mounting on surfaces**

**Mounting underneath surfaces**
**Enclosure duct connector**

*for Comfort Panel and VIP 6000*

To fit:
- Comfort Panel in conjunction with the switch housing 74 mm and 113 mm deep.
- VIP 6000 with narrow and combined frames in conjunction with the keyboard housing 105 mm deep.

The angle between the operating and keyboard housing is 120°.

At the same time, the duct connector is used for cable routing from the operating housing to the keyboard housing.

**Material:**
- Aluminium

**Colour:**
- RAL 7035

**Supply includes:**
- Assembly parts.

<table>
<thead>
<tr>
<th>Weight kg</th>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>1 set</td>
<td>6006.000</td>
</tr>
</tbody>
</table>

Delivery times available on request.

**Note:**
When retro-fitting, appropriate mounting holes and cut-outs must be made in the operating and keyboard housings for assembly purposes.

---

**Cable tube, flexible**

*for VIP 6000*

Suitable for cable routing from the operating housing to the keyboard housing.

Suitable for use with:
- Frame connector, adjustable
- Hinged frame connector
- Frame connector, rigid
- Enclosure bar connector

May be mounted on the following keyboard housings:
- Keyboard housing: 105 mm
- Keyboard housing: 44 mm
- Keyboard housing: 27 mm with connection for flexible cable conduit (design 4.1, see page 223).

Corresponding cut-outs are required for connecting the cable tube in the operating and keyboard housing.

A cable tube is included with the supply to selection 4.5, see page 226.

**Colour:**
- RAL 7035

**Supply includes:**
- Assembly parts.

For keyboard housings

<table>
<thead>
<tr>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 6351.009</td>
</tr>
<tr>
<td>design 4.1, 2 and 4</td>
</tr>
<tr>
<td>Others</td>
</tr>
</tbody>
</table>

---

**Front panels**

*for Comfort Panel, VIP 6000 and Optipanel*

**Material:**
- 3 mm aluminium, natural-anodised

**Note:**
If more than one front panel is used cross members are required, see page 1122.

**Also required:**
Mounting kit for Comfort Panel CP 6053.800, see page 1122, for VIP 6000 and Optipanel CP 6053.000/500, see page 1121.

**Rittal service:**
Other sizes and versions with threaded bolts, cut-outs and engravings available on request.
Human/machine interface

Front assembly

**Front panels**

*for Optipanel CP 6380.100*

With threaded bolts M5.

**Dimensions:**

270 x 234 mm

**Material:**

3 mm aluminium, natural-anodised

**Supply includes:**

Mounting kit.

**Front panels**

*for Compact Panel*

**Material:**

3 mm aluminium, natural-anodised

**Front panels, hinged**

*for VIP 6000 and Optipanel*

**Dimensions:**

19" x 7 U (482.6 x 310.3 mm)

**Opening angle:**

Optipanel: 125°

VIP 6000: 95°

**Material:**

Front panel: 3 mm aluminium, natural-anodised

Extruded aluminium section: Natural-anodised

**Supply includes:**

Hinge section, hinge strip, 2 end trims and assembly parts.

**Mounting cut-out**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without</td>
<td></td>
</tr>
<tr>
<td>For Siemens Simatic TP 177 A/B</td>
<td>6027.520</td>
</tr>
<tr>
<td>According to specifications</td>
<td>6027.509</td>
</tr>
</tbody>
</table>

**Front panels, hinged**

*for VIP 6000 and Optipanel*

**Design**

- Screw-fastened from the outside
- Screw-fastened from the inside
- With cam

**Model No. CP**

- 6027.100
- 6027.110
- 6027.120
- 6027.200
- 6027.210
- 6027.220

**Required distance from edge “D” to avoid collisions**

<table>
<thead>
<tr>
<th>Installation depth</th>
<th>Dimension “D”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optipanel 50 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>Optipanel 100 mm</td>
<td>34 mm</td>
</tr>
<tr>
<td>Optipanel 150 mm</td>
<td>48 mm</td>
</tr>
<tr>
<td>VIP 6000 44 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>VIP 6000 105 mm</td>
<td>36 mm</td>
</tr>
<tr>
<td>VIP 6000 155 mm</td>
<td>52 mm</td>
</tr>
</tbody>
</table>

**Installation situation**

*Optipanel*

1 Hinge strip

2 Hinge section

3 Retaining claw

*B = Width

1) Delivery times available on request.

1) When ordering, please specify the colour of the required end trim (see page 219).
**Mounting kit**

**for VIP 6000 and Optipanel**

For installing
- Aluminium front plates
- Command panels
- Keyboards

**For holes**

**Supply includes:**
- Packs of 30 retaining claws, captive nuts, screws and sealing washers.

**For threaded bolts**

**Supply includes:**
- Packs of 10 retaining claws and cap screws.

**For screw clamp**

**Supply includes:**
- Packs of 4 pressure plates, 4 attachment strips.

---

<table>
<thead>
<tr>
<th>For front panels</th>
<th>Thread</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Others</td>
<td>M4</td>
<td>6058.000</td>
</tr>
<tr>
<td>Rittal and others</td>
<td>M5</td>
<td>6053.000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For front panels</th>
<th>Thread</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Others</td>
<td>M4</td>
<td>6058.500</td>
</tr>
<tr>
<td>Rittal and others</td>
<td>M5</td>
<td>6053.500(1)</td>
</tr>
</tbody>
</table>

1) For the installation of TFT monitors 15", 17" and 19".

---

<table>
<thead>
<tr>
<th>For direct installation of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siemens Sinumerik: OP 010, OP 010C, OP 012, OP 015, MCP 483, PP 012, Querty 19&quot;, KB 483C</td>
<td>6053.210</td>
</tr>
<tr>
<td>Siemens Simatic: Panel PC 477, 577, 677, 677B: 12.1&quot; touch, 15.1&quot; touch, 15.1&quot; keys, 18&quot; touch(1) Panel PC 877: 15.1&quot; touch, 15.1&quot; keys, 19&quot; touch(1)</td>
<td>6053.220</td>
</tr>
<tr>
<td>Command panels Siemens Simatic: OP 270 10&quot;, MP 270B 10&quot; keys, MP 277 10&quot; key MP 370 12&quot; key, MP 377 12&quot; key</td>
<td>6053.220</td>
</tr>
</tbody>
</table>

The mounting set can only be installed vertically. Installation in VIP 6000 only in conjunction with end trim. 1) 2 packs are required.

Installation of command panels TP 270 6", TP 277 6", TP 270 10", OP 270 6", OP 277 6", MP 270B 6", MP 270B 10" touch, MP 277 10", MP 370 12" touch, MP 377 12" touch, MP 377 15", MP 377 15" touch is achieved via an adapter plate (included with the supply of the enclosure if the appropriate selection is made, or else available on request).
Human/machine interface

Front assembly

Mounting kit
for Comfort Panel
For the installation of aluminium front panels, command panels and keyboards.

Supply includes:
CP 6058.800, CP 6053.800:
20 each of retaining claws, captive nuts, screws, nuts and sealing washers.
CP 6053.300:
6 medium retaining claws, 8 short retaining claws
CP 6053.400:
4 long retaining claws, 6 short retaining claws

For drilled holes/bolts/front panel mounting from behind

<table>
<thead>
<tr>
<th>Thread</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4</td>
<td>6058.800</td>
</tr>
<tr>
<td>M5</td>
<td>6053.800</td>
</tr>
</tbody>
</table>

For screw clamp

For installing:

<table>
<thead>
<tr>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>6053.300</td>
</tr>
<tr>
<td>6053.400</td>
</tr>
</tbody>
</table>

Cross member
for VIP 6000 and Optipanel
For horizontal and/or vertical division of the Command Panel front.
With mounting channel on both sides to accommodate mounting kits.

Material:
Extruded aluminium section

Supply includes:
2 retaining claws,
2 screws with washers,
2 trim sections.

<table>
<thead>
<tr>
<th>Front panel width mm</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>for VIP 6000</td>
<td>for Optipanel</td>
</tr>
<tr>
<td>482.6 (19&quot;)</td>
<td>6015.000</td>
</tr>
<tr>
<td>As specified(1)</td>
<td>6015.009</td>
</tr>
</tbody>
</table>

(1) Please specify width/height of front panel.
(2) Trim type and trim colour, see page 219.
Please state on the order.

Accessories:
Mounting kit, see page 1121.

Detailed drawing,
for VIP 6000, see page 1210.
for Optipanel, see page 1204.
**Front assembly**

**Spacer panel and built-in trim panel**

For VIP 6000 and Optipanel

For additional space with cable entry and for installing
- Switches/indicator lamps
- Emergency-off switches/key switches
- CD-ROM/disk drives
- Interfaces etc.

For mounting (horizontally or vertically) on the enclosure, snap into position and screw-fasten from behind.

Other spacer panels and built-in trim panels, front panels and operator panels may be installed without an additional cross member.

**Material:** Extruded aluminium section, natural-anodised

**Supply includes:**

- Assembly parts and end trim (VIP 6000), spacer trim (Optipanel).

---

**Utility shelf**

screw-fastened

With support mat for:
- Measuring tools, writing equipment, mouse, scanner, small parts etc.

For mounting
- Underneath:
  - Comfort Panel
  - VIP 6000
  - Optipanel
  - Command Panel housing with door
  - Operating housing
  - IW worktop
- For visual reasons, not drilled for assembly.

- On surfaces (doors, rear panels) via rear assembly holes
- To TS punched section with mounting flange 17 x 73 mm, locatable, without screw fastening,
  - For servicing work on the enclosure.

**Material:** Sheet steel

**Colour:** RAL 7035

**Supply includes:**

- Assembly parts.

---

**For VIP 6000**

<table>
<thead>
<tr>
<th>Front panel width (mm)</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 (19&quot;)</td>
<td>6015.300</td>
</tr>
<tr>
<td>As specified</td>
<td>6015.309</td>
</tr>
</tbody>
</table>

Height corresponding to a front panel height of 103 mm.

1) Please specify width of front panel.

---

**For Optipanel**

<table>
<thead>
<tr>
<th>Front panel width (mm)</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 (19&quot;)</td>
<td>6386.300</td>
</tr>
<tr>
<td>As specified</td>
<td>6386.309</td>
</tr>
</tbody>
</table>

Height corresponding to a front panel height of 96 mm.

1) Please specify width of front panel.

---

**For CP 6514.100**

<table>
<thead>
<tr>
<th>Width (B) (mm)</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>6514.110</td>
</tr>
<tr>
<td>450</td>
<td>6514.100</td>
</tr>
</tbody>
</table>

**Utility shelf**

screw-fastened

With support mat for:
- Measuring tools, writing equipment, mouse, scanner, small parts etc.

For mounting
- Underneath:
  - Comfort Panel
  - VIP 6000
  - Optipanel
  - Command Panel housing with door
  - Operating housing
  - IW worktop
- For visual reasons, not drilled for assembly.

- On surfaces (doors, rear panels) via rear assembly holes
- To TS punched section with mounting flange 17 x 73 mm, locatable, without screw fastening,
  - For servicing work on the enclosure.

**Material:** Sheet steel

**Colour:** RAL 7035

**Supply includes:**

- Assembly parts.
Human/machine interface

General accessories

Cover plate
for support arm connection
For secure sealing of an unrequired support arm connection in the enclosure.

Material:
Sheet steel

Supply includes:
Seal and assembly parts.

Note:
If with
● Comfort Panel
● VIP 6000
● Optipanel
● Compact panel command panels, there are already 2 support arm cut-outs provided, a cover plate is included with the supply of the enclosure.

<table>
<thead>
<tr>
<th>Support arm connection</th>
<th>Surface finish</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-S</td>
<td>Spray-finished 7024</td>
<td>6505.200</td>
</tr>
<tr>
<td>CP-L</td>
<td>Zinc-plated, passivated</td>
<td>6505.500</td>
</tr>
<tr>
<td>120 x 65 mm</td>
<td>Zinc-plated, passivated</td>
<td>6505.100</td>
</tr>
</tbody>
</table>

Worktop attachment
for pedestal and support arm system
For mounting worktops on:
● Lifting pillar, electric
● Enclosure attachment CP-L, round
● Enclosure coupling CP-L, round
● Enclosure attachment CP-XL, round
● Enclosure coupling CP-XL

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6902.780</td>
</tr>
</tbody>
</table>

Accessories:

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Model No. CP</th>
<th>See page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting pillar, electric</td>
<td>6142.000</td>
<td>287</td>
</tr>
<tr>
<td>Enclosure attachment, CP-L, Ø 130 mm</td>
<td>6525.5X0</td>
<td>256</td>
</tr>
<tr>
<td>Housing coupling, CP-L, Ø 130 mm</td>
<td>6525.0X0</td>
<td>262</td>
</tr>
<tr>
<td>Enclosure attachment, CP-XL, round</td>
<td>6130.6X0</td>
<td>271</td>
</tr>
<tr>
<td>Housing coupling, CP-XL</td>
<td>6130.0X0</td>
<td>272</td>
</tr>
</tbody>
</table>

Aluminium strip
For
● AP one-piece console
● Surfaces
Prevents wiring plans etc. from slipping.

<table>
<thead>
<tr>
<th>For console</th>
<th>Length mm</th>
<th>Packs of</th>
<th>Model No. AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 2666.500</td>
<td>583</td>
<td>3</td>
<td>2676.000</td>
</tr>
<tr>
<td>AP 2668.500</td>
<td>783</td>
<td>3</td>
<td>2678.000</td>
</tr>
<tr>
<td>AP 2672.500</td>
<td>1183</td>
<td>3</td>
<td>2682.000</td>
</tr>
</tbody>
</table>

May be cut to length for other dimensions.
Signal pillars, LED compact

Benefits:
- Complete, ready-to-connect solution
- Minimal build height
- Extremely long service life of the LEDs (at least 70,000 h) – therefore maintenance-free
- Minimal assembly work and warehousing costs

Technical specifications:
- Operating voltage: 24 V AC/DC
- Electrical connection: Screw terminals
- Light: LED
- Transmission angle: 3 x 120°
- Operating temperature: –20 to +70°C
- Flash function: Controllable via PLC
- Cable entry: Metric gland M12 x 1.5 for cable diameter 3.0 – 6.5 mm

Protection category:
- IP 65 to EN 60 529/09.2000

Connection picture SG 2372.100/.130/.140

Connection picture SG 2372.109

Ordering example/
LED compact, configurable
(from top to bottom):
Signal pillar, 2-stage, acoustic component, red continuous light, green flashing light, screw fastening

Position
1
2
3
4
5
6

Code no.
1
1D
2B
0
0
1

Acoustic element in cover, controllable up to 90 dB, may be switched between intermittent and continuous tone
Without acoustic element
0
With acoustic element
1

LED light stages (max. 4 units)

Connection component

Connection adaptor
for signal pillar, LED compact
For conduit mounting and mounting on support arm systems.

Material:
Plastic

Colour:
Black

Also required:
For wall mounting:
Bracket for wall mounting, see page 1128.

For conduit mounting/support arm systems:
Connection adaptor, see page 1125.

Other mounting components, see page 1129.

Also required:
For wall mounting:
Bracket for wall mounting, see page 1128.
For conduit mounting/support arm systems:
Connection adaptor, see page 1125.
Other mounting components, see page 1129.

Connection adaptor
for signal pillar, LED compact
For conduit mounting and mounting on support arm systems.

Material:
Plastic

Colour:
Black

Accessories:
Mounting components for conduit mounting, see page 1129.
Mounting components for support arm system, see page 1129.
**Signal pillars, modular**

**Benefits:**
- Simple assembly and contact via bayonet fastener.
- Configuration of up to five components with the same voltage.
- The incandescent lamps are replaced in seconds – no need for tools.
- Components are available in a range of colours and voltages.

For modular configuration from:
- Connection components
- Optical components
- Incandescent lamps/LED lamps
- Acoustic components
- Label panel

---

**Connection component**

**for signal pillars, modular**

Optionally for conduit or wall/base mounting. Screw terminals in the connection component. With cover for optical components. Contact hazard protection to VDE.

**Material:**
Enclosure of polyamide

**Colour:**
Black

**Protection category:**
IP 54

---

**Connection component**

**for conduit mounting**
SG 2368.000

**for wall/base mounting**
SG 2368.010

---

**Connection diagram**

Shared conductor

Stage 5
Stage 4
Stage 3
Stage 2
Stage 1

---

**Appendix:**

Mounting components for wall/base mounting, see page 1128.
Mounting components for conduit mounting, see page 1129.
Mounting components for support arm systems, see page 1129.
Optical components
for signal pillars, modular
With 360° signal transmission thanks to optimised prism system.
No. of potential stages = 5 components, with identical voltage.
115 V components available on request.
Material:
Enclosure: Polyamide
Spherical cap: Transparent polycarbonate
Protection category:
IP 54 if a cover or acoustic component is fitted at the top.

Optical components

<table>
<thead>
<tr>
<th>Colour</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>2369.000</td>
</tr>
<tr>
<td>Green</td>
<td>2369.010</td>
</tr>
<tr>
<td>Yellow</td>
<td>2369.020</td>
</tr>
<tr>
<td>Clear</td>
<td>2369.030</td>
</tr>
<tr>
<td>Blue</td>
<td>2369.040</td>
</tr>
</tbody>
</table>

Also required:
Incandescent or LED lamps for steady and flashing light component, see page 1127.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>2374.200</td>
</tr>
<tr>
<td>Green</td>
<td>2374.210</td>
</tr>
<tr>
<td>Yellow</td>
<td>2374.220</td>
</tr>
<tr>
<td>Clear</td>
<td>2374.230</td>
</tr>
<tr>
<td>Blue</td>
<td>2374.240</td>
</tr>
</tbody>
</table>

1) Incandescent or LED lamps not included with the supply.

Incandescent lamps
for steady and flashing light components
With BA 15d base/plinth.
For new orders or replacements.

<table>
<thead>
<tr>
<th>Incandescent lamp</th>
<th>Packs of</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 V, 5 W</td>
<td>3</td>
<td>2374.060</td>
</tr>
<tr>
<td>230 V, 5 W</td>
<td>3</td>
<td>2374.070</td>
</tr>
</tbody>
</table>

LED lamp
for steady and flashing light components
The energy-saving alternative with a long service life.
The LEDs have a transmission angle of 2 x 180°.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>2374.200</td>
</tr>
<tr>
<td>Green</td>
<td>2374.210</td>
</tr>
<tr>
<td>Yellow</td>
<td>2374.220</td>
</tr>
<tr>
<td>Clear</td>
<td>2374.230</td>
</tr>
<tr>
<td>Blue</td>
<td>2374.240</td>
</tr>
</tbody>
</table>

For steady and flashing light components from SG 2369.000 to SG 2370.040

<table>
<thead>
<tr>
<th>Colour</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>2373.300</td>
</tr>
<tr>
<td>Green</td>
<td>2373.310</td>
</tr>
<tr>
<td>Yellow</td>
<td>2373.320</td>
</tr>
<tr>
<td>Clear</td>
<td>2373.330</td>
</tr>
<tr>
<td>Blue</td>
<td>2373.340</td>
</tr>
</tbody>
</table>

For steady light components SG 2369.000 to SG 2369.040

Rittal Catalogue 32/System accessories
Signal pillars

Acoustic components
for signal pillars, modular

To indicate warnings or malfunctions. The sound level is 85 dB/100 dB. Mounting only on the upper end of the optical components or directly on the connection component.

Material:
Enclosure: Polyamide

Colour:
Black

<table>
<thead>
<tr>
<th>Acoustic components</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>85 dB (1)</td>
<td>2376.000</td>
</tr>
<tr>
<td>max. 25 mA</td>
<td>2376.020</td>
</tr>
<tr>
<td>100 dB (2)</td>
<td>2376.010</td>
</tr>
<tr>
<td>max. 25 mA</td>
<td>2376.030</td>
</tr>
</tbody>
</table>

(1) Continuous tone or pulsating
(2) Volume and 8 tones may be set

Label panel
for signal pillars, modular

For text additions for up to 5 optical components, with break point for any fields that are not required (50 x 150 mm), including clamping section for base or tube with a diameter of 25 mm.

Material:
Acrylic, transparent

<table>
<thead>
<tr>
<th>Label panel</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>for 5 optical components</td>
<td>2374.150</td>
</tr>
</tbody>
</table>

Mounting components
for wall/base mounting

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Mounting component</th>
<th>Colour</th>
<th>Suitable for signal pillar</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bracket for wall mounting, including rubber gland for concealed cable routing</td>
<td>Black</td>
<td>LED compact</td>
<td>2372.110</td>
</tr>
<tr>
<td>2</td>
<td>Bracket for connection component</td>
<td>Black</td>
<td>modular</td>
<td>2374.040</td>
</tr>
<tr>
<td>3</td>
<td>For side cable outlet</td>
<td>Black</td>
<td></td>
<td>2374.080</td>
</tr>
</tbody>
</table>

Also required:
Connection component SG 2368.010, see page 1126.

Bracket for wall mounting

Bracket for connection component

For side cable outlet

Seal

Flat seal

Bracket for wall mounting

Bracket for connection component

For side cable outlet
## Mounting components
### for conduit mounting

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Mounting component</th>
<th>Colour</th>
<th>Suitable for signal pillar</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Base with integral conduit, Ø 25 mm, 110 mm long</td>
<td>Black</td>
<td>1)</td>
<td>2374.000</td>
</tr>
<tr>
<td>5</td>
<td>Individual base</td>
<td>Black</td>
<td></td>
<td>2374.010</td>
</tr>
<tr>
<td>6</td>
<td>Single conduit, 250 mm long</td>
<td>Aluminium</td>
<td>1)</td>
<td>2374.020</td>
</tr>
<tr>
<td>7</td>
<td>Single conduit, 400 mm long</td>
<td>Aluminium</td>
<td>1)</td>
<td>2374.030</td>
</tr>
<tr>
<td>1</td>
<td>Angle bracket for conduit mounting</td>
<td>Black</td>
<td></td>
<td>2374.050</td>
</tr>
</tbody>
</table>

### Also required:
1) Connection adaptor SG 2372.120, see page 1125.
2) Connection component SG 2368.000, see page 1126.

---

## Mounting components
### for support arm systems

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Mounting component</th>
<th>Colour</th>
<th>Suitable for signal pillar</th>
<th>Model No. SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>For support arm system CP-L</td>
<td>RAL 9017 (traffic black)</td>
<td>1)</td>
<td>2375.000</td>
</tr>
<tr>
<td>9</td>
<td>– Angle piece CP 6524.0X0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>– Angle coupling CP 6526.0X0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>For support arm system CP-L</td>
<td>RAL 9017 (traffic black)</td>
<td>1)</td>
<td>2375.020</td>
</tr>
<tr>
<td>12</td>
<td>– Intermediate hinge CP 6523.0X0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>– Wall mounted hinge CP 6521.0X0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>– Top mounted joint CP 6522.0X0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>For support arm system CP-S</td>
<td>RAL 7024 (graphite grey)</td>
<td>1)</td>
<td>2375.030</td>
</tr>
<tr>
<td>16</td>
<td>– Angle piece 90° CP 6501.140</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Also required:
1) Connection adaptor SG 2372.120, see page 1125.
2) Connection component SG 2368.000, see page 1126.
Human/machine interface

Two-handed operating console

1. Pedestal base (see page 289)
2. Support section, height-adjustable (see page 288)
3. Gas pressurised spring (see page 288)
4. CP-S attachment (see page 244)
5. Cable conduit (see page 1065)
6. Two-handed operating console (see page 1131)

Note:
The plant installation engineer is responsible for observing the safety clearance between moving parts and the hazard zone in accordance with prEN 999.

![Illustration of two-handed operating console]

Safety switch for two-handed controls

Thanks to the new design with two trigger fields, the hand remains fully in contact with the safety switch for the duration of operation. In this way, it is possible to configure two-handed controls which adhere to the distances prescribed by the relevant standards, without the need for additional covers.

Properties:
- Maximum safety level EN 574 (type IIIC), EN 954-1 (safety category 4) in conjunction with safety relay SM 6451.200.
- Minimal operating force of approx. 2 N.
- Flexible choice of mounting location, e.g. enclosure or surfaces.
- Two switches for each hand that must be pressed simultaneously.
- Long mechanical service life.

Dimensions:
- Height: 71 mm, ball diameter: 68 – 72 mm

Technical specifications:
- Weight: 0.2 kg per safety switch (including cable)
- Operating temperature: 0°C to +55°C
- Storage temperature: −20°C to +70°C
- Actuator travel: 1.3 ± 0.6 mm
- Switching capacity:
  - Recommended load: 24 V/10 mA DC
  - Minimum: 6 V/10 mA DC (Ohmic load)
  - Maximum: 30 V/2 A DC (Ohmic load)
- Contact material: Silver alloy, gold-plated
- Contact resistance: 100 mΩ
- Lifecycle:
  - Mechanical: 1 x 10⁶ switching cycles at max. 1 Hz
  - Electrical: Depending on the electrical load
- Connection cable: PVC, 4 x 0.75 mm², length:
  - Without ball joint support: 2 m, black
  - With ball joint support: 2 m, black

Minimum distance between individually installed safety switches SM 6451.100

For all other mounting situations, the installation technician should perform an analysis to EN 574.

![Illustration of safety switch]

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 normally closed contact/1 normally open contact</td>
<td>2</td>
<td>6451.100</td>
</tr>
</tbody>
</table>

Material:
Polypropylene

Colour:
Yellow/black

Protection category:
IP 67 to EN 60 529/09.2000

Supply includes:
Safety switch, seal, assembly parts.

Also required:
Safety relay, see page 1132.

Accessories:
Ball joint support, see page 1131.
Two-handed operating console

Maximum safety levels EN 574 (type IIIC), EN 954-1 (safety category 4) are met in conjunction with safety relay SM 6451.200.

Design with
- 2 safety switches (1 normally closed contact/1 normally open contact)
- 1 emergency off button (2 normally closed contacts/1 normally open contact)
- 2 locations for other command devices Ø 22.5 mm, covered

While observing the safety distances prescribed by the relevant standards, prepared for attachment optionally via the rear of the enclosure
- to walls
- to machines
- or via the gland plate
- on height-adjustable pedestal, modular, CP-S (see page 288)

Material:
- Enclosure and gland plate: Sheet steel 3 mm

Surface finish:
- Enclosure and gland plate: Spray-finished in RAL 7035

Supply includes:
- Depending on the design (see above).

Technical specifications:
- Operating temperature: 0°C to +55°C
- Storage temperature: –20°C to +70°C

Safety switch prewired on clamping strip

Emergency off switch: Prewired on clamping strip

Design: 2 normally closed contacts/1 normally open contact

Properties of auxiliary contacts:
- Rated insulating voltage: 690 V
- Max. permissible fuse: 10 A gG
- Switch actuating force: 5 N each
- Electrical lifecycle: 1 x 10⁶ switching cycles

Protection category:
- IP 65 to EN 60 529/09.2000 (subject to correct cable entry and attachment)

Dimensions:
- W x H x D 400 x 122 x 110 mm (including switch)

Also required:
- Safety relay, see page 1132.

Accessories:
- Pedestal, modular, CP-S, comprised of:
  - Pedestal base plate (CP 6146.100), see page 289.
  - Support section, height adjustable (CP 6146.200), see page 288.
  - Attachment CP-S (CP 6501.070), see page 244.
  - Ball joint support (SM 6451.190), see page 1131.
  - Cable conduit NW29 (SZ 2589.100), see page 1065.
  - Plug-in connection NW29, angled (SZ 2589.120), see page 1065.

All openings are equipped with plugs.

Ball joint support

For individual adjustment of the safety switches to an ergonomic position. Recommended for long-term operation or for use by alternating personnel. May be twisted and tilted, rotation range limited to protect the cable.

Material:
- Brass, nickel-plated

Supply includes:
- Ball joint support, seal, including assembly parts.
**Human/machine interface**

**Two-handed operating console**

**Safety relay**

**Applications**
- Configuration of two-hand controls, type IIIC to EN 574
- Connection of EMERGENCY OFF switches

**Product features:**
- Two-channel system
- Monitored reset
- Test input
- LED display for power supply, inputs and outputs
- 3 normally open contacts/1 normally closed contact
- Operating voltage 24 V DC
- Simple interconnection and rapid exchange via removable clamping strips
- Support rail mounting TS 35

**Functional description:**
The safety relay has dual inputs which must be closed in order for the safety outputs to close. A short-circuit between the inputs will effect an immediate stop, as they have different potentials. The inputs may be permanently short-circuited without damaging the safety relay.

To close the safety outputs, the RESET input must close and then reopen. This prevents unintentional resets in the event of short-circuits in cables or if a RESET button becomes jammed in the depressed position.

The reset input is also provided as a test for the monitoring e.g. of contactors or valves which must have dropped out or fallen back prior to restarting.

When using the safety relay as a two-handed relay, all push-buttons must be actuated within 0.5 sec.

---

**Electrical connection**

---

**Dimensions:**
W x H x D 45 x 74 x 120 mm

**Safety level:**
- Two monitored control circuits of different potentials.
- Short-circuits, interruptions, device malfunctions or external defects will not lead to a dangerous situation.
- Safety category 4 to EN 954-1.

**Technical specifications:**
- Operating voltage: 24 V DC ±15%
- Power consumption: < 2 W
- Switching capacity:
  - Min. 10 mA/10 V (if contact load has not exceeded 100 mA)
  - Max. 6 A/250 V AC/1500 W (Ohmic load AC)
  - Max. 6 A/24 V DC/150 W (Ohmic load DC)
- Max. input resistance:
  - at rated voltage 300 Ω (S13/S14 and S23/S24)
- Clearance and creepage distance:
  - 4 kV/2 DIN VDE 0110 (IEC 60 664-1)
- Reaction time for stop:
  - < 15 ms (input – output), 145 ms in the event of a mains failure
- Connection clamps:
  - Single conductor: 1 x 4.0 mm² or 2 x 1.5 mm²
  - Conductor with end ferrule: 1 x 2.5 mm² or 2 x 1.0 mm²
- Operating temperature: –10°C to +55°C
- Weight: 350 g

**Protection category:**
IP 40/20 to EN 60 529/09.2000 (enclosure/terminals)

---

**Rittal Catalogue 32/System accessories**

---

**SM 6451.000**

---

**SM 6451.200**

---

**SM 6451.100**

---

**SM 6451.200**

---

**Packs of**

<table>
<thead>
<tr>
<th>Model No. SM</th>
<th>6451.200</th>
</tr>
</thead>
</table>

---

**Electrical connection**

---

**Red**

**Black**

**Grey**

---

**Blue**

---

**Red**

---

**Black**

---

**White**

---

**Dimensions:**

---

**Safety level:**

---

**Technical specifications:**

---

**Protection category:**

---

---
**Monitors, keyboards**

**Premium TFT 17”, IP 69K**
The complete solution, resistant to high-pressure cleaning.

**Technical specifications:**
see TFT monitor 17”.

**Material:**
Stainless steel 1.4301 (AISI 304)

**Surface finish:**
Brushed, grain 240

**Protection category:**
IP 69K to DIN 40 050-9

---

**TFT monitor**
Installation variant for surfaces and command panels.

**Benefits:**
- High-quality industrial design
- Reduced installation work thanks to integral front frame
- No additional ventilation required
- Very small installation depth (45 mm)
- Resistive touchscreen for operation with a pen, finger or glove.

**Front frame:**
Aluminium, powder-coated, RAL 7035 Rear threaded bolts M5 (14 off)

**Protection category:**
IP 65 to EN 60 529/09.2000, front

**Supply includes:**
Seal, hex nuts (for installation in surfaces), VGA cables and (where applicable) DVI cables. Touch variants additionally with integral connection cable and driver CD-ROM.

---

**Technical specifications**

<table>
<thead>
<tr>
<th>Size</th>
<th>Interfaces</th>
<th>Model No. SM</th>
<th>Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>without(2)</td>
</tr>
<tr>
<td>15”</td>
<td>VGA</td>
<td>6450.010</td>
<td>6450.030</td>
</tr>
<tr>
<td></td>
<td>VGA + DVI</td>
<td>6450.150(1)</td>
<td>6450.120(1)</td>
</tr>
<tr>
<td>17”</td>
<td>VGA</td>
<td>6450.020</td>
<td>6450.040</td>
</tr>
<tr>
<td></td>
<td>VGA + DVI</td>
<td>6450.160(1)</td>
<td>6450.130(1)</td>
</tr>
<tr>
<td>19”</td>
<td>VGA + DVI</td>
<td>6450.170(1)</td>
<td>6450.140(1)</td>
</tr>
</tbody>
</table>

(1) Extended delivery times.
(2) With anti-reflection coated safety glass.

---

**Also required:**
Mounting kit CP 6053.800 (when installing in Comfort Panel), see page 1122.
Mounting kit CP 6053.900 (when installing in VIP 6000 and Optipanel), see page 1121.
Power pack SM 6450.050 and connection cable SM 6450.060, see page 1134, if an operating voltage of only 100 – 240 V AC is available instead of 12 V DC.

**Detailed drawing,** see page 1304.

---

**TFT monitor**
Installation variant for surfaces and command panels.

**Benefits:**
- High-quality industrial design
- Reduced installation work thanks to integral front frame
- No additional ventilation required
- Very small installation depth (45 mm)
- Resistive touchscreen for operation with a pen, finger or glove.

**Front frame:**
Aluminium, powder-coated, RAL 7035 Rear threaded bolts M5 (14 off)

**Protection category:**
IP 65 to EN 60 529/09.2000, front

**Supply includes:**
Seal, hex nuts (for installation in surfaces), VGA cables and (where applicable) DVI cables. Touch variants additionally with integral connection cable and driver CD-ROM.

---

**Technical specifications**

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution of display (max. pixels)</th>
<th>Resolution of controller/colours</th>
<th>Brightness (cd/m²)</th>
<th>Contrast ratio</th>
<th>Reading angle horizontal (right/left)</th>
<th>Reading angle vertical (top/bottom)</th>
<th>Lamp life(1) (h)</th>
<th>On-screen display (OSD)</th>
<th>Operating temperature (°C)/Storage temperature (°C)</th>
<th>Voltage input</th>
<th>Power consumption (W)</th>
<th>Voltage range (Vac)</th>
<th>H-Sync. (kHz)/V-Sync. (Hz)</th>
<th>Humidity in operation (%)</th>
<th>Humidity in storage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15”</td>
<td>1024 x 768</td>
<td>VGA-SXGA/16.2 million</td>
<td>400</td>
<td>500 : 1</td>
<td>65°/65°</td>
<td>45°/65°</td>
<td>min. 35,000</td>
<td>At rear</td>
<td>0 to +50°/–20° to +60</td>
<td>12 V DC</td>
<td>30</td>
<td>30 to 60</td>
<td>31.5 to 80/60 to 75</td>
<td>20 to 80 (non-condensing)</td>
<td>5 to 95 (non-condensing)</td>
</tr>
<tr>
<td>17”</td>
<td>1280 x 1024</td>
<td></td>
<td>300</td>
<td></td>
<td>75°/75°</td>
<td>65°/65°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>35</td>
<td>30 to 60</td>
<td>88°/88°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19”</td>
<td>1280 x 1024</td>
<td></td>
<td>250</td>
<td></td>
<td>88°/88°</td>
<td>65°/65°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40</td>
<td>40 to 60</td>
<td>88°/88°</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Until half the original brightness is achieved.
Human/machine interface

Monitors, keyboards

**Power pack**

for TFT monitor and Premium TFT 17", IP 69K

- With IEC 320 socket,
- With connection cable (1.5 m) and connector for connecting to the TFT monitor.

Dimensions: 107 x 30 x 59 mm.

**Technical specifications:**

- Input voltage: 100 – 240 V AC
- Output voltage: 12 V DC

**Connection cable**

for power pack

With IEC connector at one end, length: 1.5 m.

---

**TFT holder**

for the attachment of TFTs up to 20.1"

- prepared for the external mounting of:
  - VESA 75 or 100 rigid
  - VESA 75 and tilt adjustment via IW 6902.670 (page 243)

- Enclosure attachments CP-S (page 242) or CP-L □ 120 x 65 mm (page 251)

- Enclosure attachments on the horizontal support arm CP-S or CP-L □ 120 x 65 mm, for mounting on the vertical support arm via tilt adjuster IW 6902.670

---

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6450.050</td>
</tr>
</tbody>
</table>

**Material:**

Enclosure: Plastic

---

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6450.060</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Dimensions in mm</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>477 x 372 x 110.5</td>
<td>2383.030</td>
</tr>
</tbody>
</table>

---

4 Support for keyboards SM 2383.000 (page 1140) via enclosure surface connector SM 2383.010 (page 1118)

4a Utility shelf CP 6514.100 (page 1123)

4b U handle CP 6107.100 (page 1117)

4c U handle CP 6107.200 (page 1117) via marked points

5 Connector gland SZ 2400.300/.500 (page 1057) as strain relief for the connection cable

**Material:**

Sheet steel, spray-finished in RAL 7024
Support arm, height adjustable, compact
For small panels and TFTs with mounting cut-out
- VESA 75
- VESA 100 via adaptor plate CP 6510.010
Mounting bracket with
- Desk clamp for worktops up to 75 mm thick
- Hole pattern for support section CP-L horizontal or wall mounting
Almost any position is individually adjustable:
- Height-adjustable +90°,
- Vertically hinged 350°,
- VESA attachment, tiltable ±90°
- VESA attachment, vertically hinged ±90°

Material:
Support arm:
Sheet steel, aluminium, RAL 7024
Panel mouldings:
Plastic, similar to RAL 7035
Optional adhesive design film, RAL 7024
Supply includes:
Assembly parts.
Weight range:
2.5 – 8.5 kg infinitely adjustable.

Adaptor plate
from VESA 75 to VESA 100
For mounting panels, enclosures and TFTs
with VESA 100 connection on
- Support arm, height adjustable, compact, CP6510.110,
- Enclosure attachment, tilting, IW 6902.670, see page 243.

Material:
Sheet steel
Colour:
RAL 7024
Supply includes:
Assembly parts.

---

<table>
<thead>
<tr>
<th>Jib length mm</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>6510.110</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6510.010</td>
</tr>
</tbody>
</table>
Human/machine interface

Monitors, keyboards

Pedestal, height-adjustable, CP

The ideal attachment for lightweight operating units such as:
- Compact Panel
- TFT up to 20.1”
- Other assemblies up to max. 15 kg.

Assembly
- Rear: Attachment using cage nuts
- Front: Via mounting bracket CP 6510.520 (accessories, see below).

Adjustment range 200 mm
- Sliding height adjustment, may be secured using a knurled screw
- With integral 10 kg gas pressurised spring for pressure relief during height adjustment
- For a suspended load, to adjust the operator simply the differential weight to the spring force of the gas pressurised springs

Swivel area max. 180°
- Adjustable in 7.2° increments.

Note:
Other gas pressurised springs available on request.

Detailed drawings, available on the Internet.

1 With holder for Compact Panel

<table>
<thead>
<tr>
<th>For Compact Panel</th>
<th>Width mm</th>
<th>Height mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 6340.020</td>
<td>241</td>
<td>238</td>
<td>87</td>
</tr>
<tr>
<td>CP 6340.320</td>
<td>315</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Material:
Connection and slide profile: Natural-anodised
Pedestal unit: Sheet steel, RAL 7024

Supply includes:
Connection profile, slide profile, pedestal unit including assembly parts.

2 With support for TFT up to 20.1”

Material:
Connection and slide profile: Natural-anodised
Hinges: Die-cast zinc, RAL 7024
End cover, support for TFT: Sheet steel, RAL 7024

Supply includes:
Connection profile, slide profile, hinges, holder for TFT: including assembly parts.

End stop on left of machine as standard, right on request.

Mounting angles

For front mounting of height-adjustable pedestals CP 6510.500 and CP 6510.510.

Material:
Sheet steel, RAL 7024

End stop on left of machine as standard, right on request.

End stop on left of machine as standard, right on request.

Material:
Sheet steel, RAL 7024
Keyboard, pull-out
with integral trackball
Super-slimline keyboard with cursor keys and trackball. The handle also serves as a hand rest. The versions without lock insert of the 10° angled pullout ensure ergonomic working.

For installation in:
- Comfort Panel (see page 192), Optipanel (see page 204) and VIP 6000 (see page 213) from an installation depth of 150 mm
- 482.6 mm (19”) systems
- Any sufficiently large surface (e.g. door, side panel)

Technical specifications:
- Keyboard:
  - 84 short-stroke keys, IBM-AT compatible (MF2), incl. cursor keys
  - With integral 16 mm trackball
  - Interface:
    - 2 x 6-pole PS/2 DIN connector
    - Operating temperature: +5°C to +50°C
    - Storage temperature: –10°C to +60°C
    - Humidity: Max. 95 % (non-condensing)
- Front panel, powder-coated in RAL 7035

Protection category:
IP 65 (front, solid) to EN 60 529/09.2000

Note:
For sub-division of the operating front when installing in command panels, a cross member is required:
- Comfort Panel (see page 199, version 2.2).
- VIP 6000 (see page 218, version 3.2).
At the same time, the end trim (see page 219, version 3.4) must be selected.
- Optipanel (see page 208, version 2.2).

Accessories:
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, version A, see page 956, or lock cylinder inserts, version B, see page 957.

<table>
<thead>
<tr>
<th>Keyboard layout</th>
<th>Features</th>
<th>Packs of Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>German</td>
<td>10° angled pull-out</td>
<td>1 6002.100</td>
</tr>
<tr>
<td>US English</td>
<td>1</td>
<td>6002.101&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
<tr>
<td>UK English</td>
<td>1</td>
<td>6002.102&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
<tr>
<td>As specified&lt;sup&gt;2)&lt;/sup&gt;</td>
<td>1</td>
<td>6002.109&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
<tr>
<td>German</td>
<td>3 mm double-bit lock insert</td>
<td>1 6002.110</td>
</tr>
<tr>
<td>As specified&lt;sup&gt;2)&lt;/sup&gt;</td>
<td>1</td>
<td>6002.119&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>1)</sup> Extended delivery times.
<sup>2)</sup> Available layouts: BE, DK, FR, IT, NO, PO, ES, RU, SE/FI, CH, CZ
Desktop keyboard IP 65

Particularly well-suited to all areas with dusty or damp industrial atmospheres and places where hygiene is particularly crucial, such as in the food industry or medical technology.

- Sealed, wipeable surface finish.
- High level of mechanical and chemical resistance to DIN 42 115.
- Lenticular key caps and minimal typing force for optimum finger guidance and fast operation.

This makes it ideally suited for workstations where it is necessary to input large quantities of data.

Supply includes:
- Connection cable with PS/2 connector, length 1.8 m.

Technical specifications:
- Dimensions: 410 x 220 x 25 mm
- 105 keys
- Actuator travel/force: 0.4 mm/2 N
- Service life: ≥ 1 million switching cycles
- Operating temperature: -20°C to +70°C
- German layout

Rittal service:
- Country-specific layout and USB connection available on request.

Built-in keyboard 19”/4 U with integrated touchpad

The integrated touchpad means that the installation of an additional, correct protection category mouse is no longer required and cabling is also reduced. The short stroke keys are easily identified by edge embossing, less force is required to operate them and they have good positive key actuation.

Benefits:
- The separate number pad enables the parameters to be entered quickly
- Sealed, wipeable surface finish
- High level of mechanical and chemical resistance as per DIN 42 115

Technical specifications:
- Number of keys: 105
- Front panel dimensions: 482.6 x 177.0 mm (19” x 4 U)
- Installation depth: 23 mm
- 12 M5 x 20 threaded bolts at back
- Actuation travel/force: 0.3 mm/2.6 N
- Service life: 3 million switching cycles
- Touchpad resolution, capacitive: 40 pixels/mm
- Interfaces: 2 x PS/2 (1 USB adaptor supplied)

Material:
- Front panel: Aluminium

Protection category:
- IP 65 to EN 60 529/09.2000, front

Supply includes:
- Y-supply cable, 1.8 m long, with PS/2 connections, seal, USB adaptor, drilling template and surface assembly parts.

Keyboard layout Packs of Model No. SM
German 1 6446.020
As specified1) 1 6446.0292)

2) Extended delivery times.

Also required:
- Mounting kit CP 6053.800 (when installing in Comfort Panel), see page 1122.
- Mounting kit CP 6053.500 (when installing in VIP 6000 and Optipanel), see page 1121.
Stainless steel keyboard
19"/4 U
based on the piezo system.
With this innovative technology, merely tapping lightly with your finger is sufficient to initiate switching. There are no edges, cracks or hollows, as with conventional keyboards. It is therefore particularly well-suited for the food industry (compact enclosures Hygienic Design, see page 299).

Technical specifications:
- Dimensions of front panel: 482.6 x 177 x 25 mm
- Installation depth: 25 mm
- 105 keys
- Actuator travel/force: 0 mm/0.7 N
- Service life: ≥ 10 million switching cycles
- Keypad: Abrasion-resistant electrolyte lettering
- Operating temperature: –25°C to +55°C
- PS/2 and USB connection
- German layout

Material:
Stainless steel 1.4301

Protection category:
IP 69K to DIN 40 050-9

Supply includes:
Connection cable, length 1.8 m, with PS/2 connector and hex nuts.

Fold-out tray
for keyboard and mouse
For installation in
- 600 and 800 mm wide doors
- 482.6 mm (19") swing frames and enclosures

Standard double-bit lock insert which may be exchanged for lock inserts 27 mm, version A, see page 956 and for lock cylinder SZ 2571.000, see page 957.

Material:
Flap: Sheet steel
Side parts: Cast aluminium
Tray: Extruded aluminium section

Surface finish:
Cover, side parts: RAL 7035
Tray: Natural-anodised

Protection category:
IP 55 to EN 60 529/09.2000

For door width mm

<table>
<thead>
<tr>
<th>External dimensions WHD mm</th>
<th>Installation depth mm</th>
<th>Max. keyboard size WHD mm</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 482.6 (19&quot;) x 355 (8 U) x 126</td>
<td>93</td>
<td>405 x 50 x 250</td>
<td>2379.600</td>
</tr>
<tr>
<td>800 682.6 x 355 (8 U) x 126</td>
<td>93</td>
<td>605 x 50 x 250</td>
<td>2379.800</td>
</tr>
</tbody>
</table>

1) Maximum keyboard size with holder for mouse.
Human/machine interface
Monitors, keyboards

Support for mousepad, pull-out
with mouse holder
For screw-fastening into the fold-out tray
SZ 2379.600/SZ 2379.800.
To fit all standard mousepads up to
250 x 205 mm.

Note:
When installing the fold-out tray into the swing frame, the swing frame must be open in order to pull the mousepad out of the fold-out tray.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>2379.900</td>
</tr>
</tbody>
</table>

Support for keyboards
for max. 473 x 210 mm.
Prepared for
● Cable gland
● Support for mousepad, vertically hinged
(SM 2383.020)

Material/surface finish:
Side parts: Sheet steel, RAL 7024
Front and rear:
Extruded aluminium section, natural-anodised

Supply includes:
2 clamping screws, end stoppers, cover plate,
cable entry grommet and nylon loop tape.

Rittal service:
Other widths available on request.
May be ordered as a complete unit with
Comfort Panel operating housing (see page 197),
VIP 6000 (see page 216) or Optipanel
(see page 207) via design code number.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>2383.000</td>
</tr>
</tbody>
</table>

Also required:
For mounting on surfaces:
Enclosure surface connector, see page 1118.

Accessories:
Mousepad support, pull-out, see page 1146.

Detailed drawing
for Comfort Panel, see page 1202,
for VIP 6000, see page 1213,
for Optipanel, see page 1205.

Utility bars, vertically hinged
To support standard keyboards during pro-
gramming and servicing work.
Mounting distance between utility bars at least
300 mm to allow problem-free insertion.
Depth adequate for keyboards up to max.
210 mm.

For mounting beneath:
● Comfort Panel(1)
● VIP 6000 with narrow or combined frame(2)
● Optipanel(3)
● Any sufficiently large surface, such as:
  – Worktops IW
  – Quickline panel
  – Operating housing
  – Command Panel housing with door
on:
● Vertical services (doors/side panels)

Min. front panel width
1) 385 mm
2) 370 mm
3) 405 mm

After use, the utility bars fit securely and neatly
under the mounting surface, thus giving the
operator more space to move around.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>6514.200</td>
</tr>
</tbody>
</table>

Material:
Sheet steel, zinc-plated, passivated

Supply includes:
Assembly parts.
Monitors, keyboards

### Keyboard rack, 482.6 mm (19")
- 482.6 mm (19") rack-mounted chassis 1 U, 430 mm deep
- Prepared for the installation of 482.6 mm (19") keyboards with touchpad or trackball with the following dimensions:
  - max. height: 39 mm
  - max. width: 417 mm
  - max. depth: 210 mm
- Solid, lockable front
- Telescopic slides with integral clamp
- Prepared for installation of a mousepad

**Material:** Sheet steel

**Supply includes:** 19" keyboard rack without keyboard, connection cable, mounting bracket for 800 and 900 mm enclosure depth, assembly parts.

### Mousepad for keyboard drawer
- For optional mounting on the left, right or front of the keyboard rack (fold-away design)
- Maybe folded into the keyboard drawer after use
- Only suitable for use in conjunction with 482.6 mm (19") keyboards with a total height of max. 39 mm (Model No. RP 3659.590)

**Material:** Sheet steel

**Supply includes:** Assembly parts.

### Keyboard, 482.6 mm (19")
- 482.6 mm (19") keyboard for installation in the 482.6 mm (19") keyboard drawer in conjunction with the touchpad mouse
- German keyboard layout
- 38.9 mm high keys facilitate installation in 1 U keyboard drawers
- PS/2 connector
- IP 20
- Touch-sensitive technology
- W x H x D = 405 x 38.9 x 180 mm
- 105 keys (including WIN 95 keys)
- Actuating force 0.6 N/4.0 mm
- Operating temperature: 0°C to 50°C

**Supply includes:** Connection cable.

### TFT display, 15"
- 19" front panel 7 U, RAL 7035
- TFT LCD 15.1"
- Automatic brightness control depending on the ambient light
- Anti-reflection coated safety glass screen
- Brightness: 250 cd/m²
- On-screen display
- Colours: 16.7 million
- Power pack: Input voltage: 100 – 240 V AC, output: 12 V DC/3.75 A
- OSD membrane keyboard and infrared sensor
- VGA + SVGA, non-interlaced
- Maximum resolution 1024 x 768 pixels
- Contrast ratio: 300 : 1
- Viewing angle: 160° (H+V)
- Video input 15-pin D-SUB (analog RGB)
- RS-232 monitor interface

**Supply includes:** Front panel: Aluminium, powder-coated

**Protection category:** Tested to EN 60 950 and EMC directive 89/336/EEC.

**Note:** Depth varies according to the display design (protective glass, touchscreen etc.).
Human/machine interface

Drawers for keyboards

Keyboard drawer 19”/2 U
for keyboard and mouse

For installation in:
- Comfort Panel\(^1\)
  (from an installation depth \(A_2 = 152\,\text{mm}\), see page 198).
- VIP 6000 Command Panel\(^1\)
  (all installation depths \(1\) to \(9\), see page 217).
- Optipanel command panel\(^1\)
  (installation depth \(3 = 150\,\text{mm}\), see page 207).
- Any sufficiently large surface
  (e.g. door, side panel).
- 482.6 mm (19") systems.

Suitable for:
- Accommodation of keyboards
  up to max. 390 x 32 x 139 mm.
- Support of standard commercially available
  mouse or trackball.

Design:
- Drawer:
  - with stay
- Front panel
  - with security lock (lock no. 12321)
  - with handle strip

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Model No. CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 (19&quot;)</td>
<td>2 U</td>
<td>150</td>
<td>6002.000</td>
</tr>
</tbody>
</table>

Material:
- Drawer housing:
  - Sheet steel, zinc-plated, passivated
- Drawer and front panel:
  - Aluminium, natural-anodised.

Supply includes:
- Assembly parts for installation in Comfort Panel/VIP 6000/Optipanel command panels.

\(^1\) For sub-division of the operating front:
- Comfort Panel requires one cross member
  (see page 199, version 2.2).
- VIP 6000 requires one cross member
  (recommended) or sealing bar
  (see page 218, version 3.2).
  At the same time, the end trim
  (see page 219, version 3.4) must be selected.
- Optipanel requires one cross member
  (see page 208, version 2.2).

Mounting cut-out
(for installation in surfaces)
**Drawers for keyboards**

**Drawer for keyboard and mouse with mousepad support**

For installation in:
- VIP 6000 Command Panel¹
  (installation depth 4, 6 or 8, see page 217, 3.1)
- Any sufficiently large surface (e.g. door, side panel).

Suitable for accommodating:
- Keyboards up to a maximum of 460 x 42 x 170 mm.
- Standard mouse and mousepad

**Design:**
- Drawer and enclosure
  - with side pull-out mousepad support and tray
- Front panel
  - with 3 mm double-bit lock insert
  - folds out as a wrist support

**Material:**
- Keyboard and drawer: Sheet steel
- Front panel: Aluminium, natural-anodised.

**Supply includes:**
- Assembly parts for installation in VIP 6000 Command Panel.

**Also required:**
- For sub-division of the operating front, a cross member (see page 218, version 3.2) is required.
- The end trim (see page 219, version 3.4) must be selected at the same time.

**Accessories:**
- Standard double-bit lock insert may be exchanged for 27 mm lock inserts, version A, see page 956.

---

**Keyboard drawer 1 U**

for 482.6 mm (19") attachment level

This space-saving keyboard drawer is screw-fastened to the front and rear 482.6 mm (19") attachment level. The installation spacing is infinitely adjustable from 460 – 800 mm. It is fully extendible, lockable, with strain relief and hinged cable support. The drawer is suitable to accommodate 482.6 mm (19") keyboards.

**Interior dimensions:**
- W x H x D approx. 420 x 40 x 220 mm

**Material:**
- Sheet steel

**Colour:**
- RAL 7035

**Supply includes:**
- Assembly parts, excluding keyboard.

**Note:**
- Monitor/keyboard unit, 1 U, see page 840.

---

**Distance between levels mm**

<table>
<thead>
<tr>
<th>Model No. DK</th>
<th>460 – 800</th>
</tr>
</thead>
<tbody>
<tr>
<td>7281.200</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories:**

482.6 mm (19") long-stroke keyboard with numeric keypad and touchpad, connection cable (approx. 1.15 m) and PS/2 connector, colour RAL 7035.

<table>
<thead>
<tr>
<th>W x H x D mm</th>
<th>Keyboard layout</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>415 x 37 x 193</td>
<td>German</td>
<td>9004.400</td>
</tr>
<tr>
<td></td>
<td>US English</td>
<td>9004.402</td>
</tr>
<tr>
<td></td>
<td>French</td>
<td>9004.403</td>
</tr>
<tr>
<td></td>
<td>Spanish</td>
<td>9004.404</td>
</tr>
<tr>
<td></td>
<td>Finnish</td>
<td>9004.406</td>
</tr>
<tr>
<td></td>
<td>Swedish</td>
<td>9004.407</td>
</tr>
</tbody>
</table>
Monitors/drawers for keyboards

Panel for monitors
for monitors with screen diagonals of up to 17”
For mounting between 482.6 mm (19”) mounting angles. Fitted with safety glass.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Sheet steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>RAL 7035</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No. DK</th>
<th>7300.135</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>9</td>
</tr>
</tbody>
</table>

Monitor drawer 1 U
with 15” TFT

● 19” rack-mounted chassis 1 U, 480 mm deep
● Including installation kit for depth-variable mounting in enclosures/cases with depths from 600 – 900 mm
● Display pulls out forwards
● Lockable at the front
● Telescopic slides with integral clamp

<table>
<thead>
<tr>
<th>Material:</th>
<th>Sheet steel, spray-finished</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>RAL 7035</td>
</tr>
<tr>
<td>Special colours</td>
<td>available on request</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supply includes:</th>
<th>Monitor drawer fully populated, assembly parts.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Protection category:</th>
<th>IP 40</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Model No. RP</th>
<th>3659.660</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical design</td>
<td></td>
</tr>
<tr>
<td>TFT screen</td>
<td>15” (381 mm)</td>
</tr>
<tr>
<td>Maximum resolution</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Full screen</td>
<td>VGA + SVGA</td>
</tr>
<tr>
<td>Colours</td>
<td>16.7 million</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 cd/m²</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>350 : 1</td>
</tr>
<tr>
<td>Mains voltage</td>
<td>100 – 240 V AC, 48 – 62 Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connections on the rear</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains voltage</td>
<td>IEC 320 connection</td>
</tr>
<tr>
<td>Video input</td>
<td>Analog (D-SUB, 15-pole, jack)</td>
</tr>
<tr>
<td></td>
<td>Digital (DVI-D, jack)</td>
</tr>
</tbody>
</table>

Keyboard drawer 2 U
for one 482.6 mm (19”) attachment level
For keyboards up to 430 mm wide and 250 mm deep with the front panel folded over.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Sheet steel with aluminium front, spray-finished in RAL 7035.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply includes:</td>
<td>Lockable drawer with handles, hinged front, pull-out mouse pad, mouse support, practical cable entry and strain relief.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 U</td>
<td>7281.035</td>
</tr>
</tbody>
</table>

Installation depth: 390 mm.
Drawer for keyboards/mouse, mousepad

**Drawer 482.6 mm (19”)**

**for keyboard**

For attaching to the 482.6 mm (19”) mounting angles front and rear. Suitable for standard keyboards > 482.6 mm (19”). Keyboard support with non-slip base, plus wrist support. Depth-variable installation from 610 – 950 mm. Clearance opening W x H x D: 408 x 40 x 550 mm.

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Supply includes:**

Assembly parts, excluding keyboard.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. DK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7063.888</td>
</tr>
</tbody>
</table>

**Note:**

Installation only possible on L-shaped and cranked 482.6 mm (19”) mounting angles and/or 482.6 mm (19”) mounting frames.

**Support for mousepad**

**for command panels and surfaces**

The angle of the mousepad support is individually adjustable. Two holes are needed on the enclosure for attachment purposes.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

<table>
<thead>
<tr>
<th>Weight kg</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2381.000</td>
</tr>
</tbody>
</table>

⚠️ **Also required:**

Vertical handle set for wide frame (for mounting on VIP 6000 with wide front frame), see page 1116.

➕ **Accessories:**

Holder for mouse, see page 1145.

**Holder for mouse**

To fit mousepad support and for secure accommodation of a standard mouse.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

<table>
<thead>
<tr>
<th>Weight kg</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3</td>
<td>2382.000</td>
</tr>
</tbody>
</table>

⚠️ **Also required:**

Support for mousepad, see page 1145.
Human/machine interface

Drawer for keyboards/mouse, mousepad

Mousepad, passive
For installing in PC enclosures based on ES. Pulls out to the front or on the left or right.

<table>
<thead>
<tr>
<th>For fold-out tray of PC enclosure/case</th>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>4603.920</td>
<td>4613.000</td>
</tr>
<tr>
<td>4617.920</td>
<td></td>
</tr>
</tbody>
</table>

German patent no. 43 30 926

<table>
<thead>
<tr>
<th>For drawer of PC enclosure/case</th>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>4603.603</td>
<td></td>
</tr>
<tr>
<td>4603.913</td>
<td></td>
</tr>
<tr>
<td>4609.703</td>
<td>4614.000</td>
</tr>
<tr>
<td>4617.703</td>
<td></td>
</tr>
</tbody>
</table>

Support for mousepad, vertically hinged
For mounting on the left/right, beneath support for keyboards. Latches home automatically, both when retracted and extended.
With mounting holes for mouse holder (SM 2382.000).
With cut-outs for cable routing and holes for attachment via cable ties, for fast assembly (SZ 2597.000).

Material: Sheet steel, zinc-plated, passivated
Supply includes: Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2383.020</td>
</tr>
</tbody>
</table>

Accessories:
Holder for mouse, see page 1145.
Cable ties, see page 1066.
Mobile workstation
for tower PCs, printers, UPS, servers etc.

Load capacity: 75 kg

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
1 mounting frame,
2 shelves top/bottom,
1 set of telescopic slides,
1 handle,
1 cable support, hinged,
mounting accessories.

Also required:

For installation in

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>TS, PC based on TS, IW 2 punched sections with mounting flanges, see page 993</th>
<th>ES, PC based on ES, AP universal console 2 punched sections without mounting flanges, see page 998</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>TS 8612.060 PS 4376.000</td>
<td>ES 8612.080 PS 4377.000</td>
</tr>
<tr>
<td>800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Also required:

Fastening bolt DK 7115.000, see page 1026.
Shelf, see page 1147.

Shelf

For additional equipment such as modems, power packs etc. or simply as a paper tray.
Installation height-adjustable on a 25 mm pitch pattern.

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
Assembly parts.

Also required:

For installation in

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4641.000</td>
</tr>
</tbody>
</table>

Accessories:

Fastening bolt DK 7115.000, see page 1026.

Packs of
Model No. PC
1 4642.000
Printer accessories

Printer base, swivel
Operation of the printer for servicing purposes is possible, even in enclosures with are only accessible from the front. Load capacity: 20 kg. Surface for printer 340 x 360 mm.

Material: Sheet steel
Colour: RAL 7035
Supply includes: Component shelf, turntable with cable routing and stay, telescopic slides.

<table>
<thead>
<tr>
<th>To fit TS width x depth mm</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 x 600</td>
<td>6902990</td>
</tr>
</tbody>
</table>

Also required:
2 TS punched sections with mounting flanges for enclosure depth of 600 mm, see page 993.

Accessories:
Paper tray, see page 1148.

Paper removal flap
for printer cabinet IW 6900.110
Facilitates easy removal of pages from the printer without opening the enclosure door. Plexiglass flap with magnetic lock.

<table>
<thead>
<tr>
<th>Paper removal flap</th>
<th>Colour RAL</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN A4</td>
<td>7015</td>
<td>6903200</td>
</tr>
<tr>
<td>With cut-out to specifications</td>
<td>7015</td>
<td>69032991)</td>
</tr>
</tbody>
</table>

1) Delivery times available on request.

Paper tray
for laser printers with rear output.
Printed pages are routed to the outside and collated. The door only needs to be opened for servicing purposes. This protects the printer against dust, humidity and theft. The paper tray may be mounted on surfaces with a width of 600 mm or more (e.g. door, side panel) and accommodates up to 20 pages of standard A4 paper.

Material: Sheet steel
Colour: RAL 7035
Supply includes: Assembly parts.

<table>
<thead>
<tr>
<th>Width x height x depth mm</th>
<th>Model No. IW</th>
</tr>
</thead>
<tbody>
<tr>
<td>270 x 390 x 122</td>
<td>6903000</td>
</tr>
</tbody>
</table>

Accessories:
Printer base, swivel, see page 1148.

Rittal service:
Installation in doors and side panels on request.
Base for tubular door frame
The space-saving alternative instead of component shelves to accommodate tower PCs (maximum 20 kg). For screw-fastening to the tubular door frame of 600 mm wide enclosures based on TS. Load capacity: 20 kg.

**Material:**
Sheet steel, spray-finished

**Colour:**
RAL 7015

**Supply includes:**
Retaining strap and assembly parts.

<table>
<thead>
<tr>
<th>Width x height x depth mm</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>495 x 159 x 230</td>
<td>6902.950</td>
</tr>
</tbody>
</table>

**Also required:**
Support strips for direct screw-fastening to the tubular door frame, see page 997.

Interface box
For secure accommodation for all common computer ports, 3½” disk drives and sockets. The lockable metal cover provides a high mechanical load-bearing capacity, protects against unauthorised access and ensures an increased shielding effect for the installed equipment.

**Modifications such as**
● Other sizes
● Acrylic covers
● Cut-outs for connectors etc.
are possible on request.

**Material:**
Frame:
Extruded aluminium section, powder-coated
Mounting tray:
Sheet steel, 1.5 mm, powder-coated
Flap:
3.0 mm aluminium, natural-anodised

**Colour:**
RAL 7035

**Supply includes:**
Frame with hinged flap, cam with security lock (no. 12321), Mounting tray including seal and assembly parts.

<table>
<thead>
<tr>
<th>Weight kg</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.8</td>
<td>2482.000</td>
</tr>
</tbody>
</table>

**Rittal service:**
Upon request, the interface box can be supplied with customer-specific cut-outs, pre-installed in the operating housing. If required, please specify the desired treatment and installation position.

Mounting example in the VIP 6000:

---

**Mounting cut-out**

- Max. R3
- M2.5/Ø 3
- Weight 0.8 kg
- Model No. 2482.000
**Interface flap**

The compact alternative to the interface box SZ 2482.000.

For secure accommodation of all standard sockets, computer ports, 3/4" or CD-ROM drives.

The cast aluminium flap ensures a high mechanical load-bearing capacity, and guards against unauthorised access.

**For:**
- Comfort Panel from D = 113 mm
- Optipanel from D = 100 mm
- Any sufficiently large surface

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, version F, see page 996.

**Material:**
- Flap: Cast aluminium, finely-textured
- Board: Sheet steel 2 mm, zinc-plated, passivated

**Colour:**
- RAL 7035

**Protection category:**
- IP 65 to EN 60 529/09.2000

**Supply includes:**
- Seal and assembly parts.

**Note:**
For side mounting in 100 mm deep Optipanels, a handle set (CP 6386.0XX, see page 1115), may be mounted, although not in the same place.

**Rittal service:**
Cut-outs are possible in the cover plate and enclosure.
Available without cover plate on request.

---

**Interface extension with wall connection and built-in RJ 45 module**

For extending the internal enclosure interfaces – e.g. from industrial PCs and switches – up to the outside of the enclosure. The wall connection only needs the same space as a switch.

**Benefits:**
- Rapid access for maintenance work
- The protection category of the enclosure is preserved
- The lock nut cuts automatically into the spray-finish or eloxal layer, thereby creating a conductive connection
- Captive protective cap

**Material:**
- Enclosure: Brass, nickel-plated
- Cover: Aluminium, anodised
- Seal: Polyamide

**Protection category:**
- IP 66/67 to EN 60 529/09.2000 (with the protective cap closed)

**Rittal service:**
Slots or installation ex-works in the Comfort Panel, Optipanel and VIP 6000 (via version code).
Cut-outs in many Rittal enclosures.

**Design** | **Wall connection** | **Inside** | **Length** | **Packs of** | **Model No. SZ**
---|---|---|---|---|---
USB | Type A jack | Type A connector | 0.5 | 1 | 2482.210
| | | | 1.0 | 1 | 2482.220
| | | | 2.0 | 1 | 2482.230
RJ 45 | Jack | Connector | 0.5 | 1 | 2482.700
| | | | 1.0 | 1 | 2482.710
| | | | 2.0 | 1 | 2482.720
RJ 45 | Jack | Jack | – | 1 | 2482.730

Other versions and lengths available upon request.
Human/machine interface

Interface accessories

Interface flaps, modular

For universal use in all situations where rapid access to interfaces and sockets is needed. The affected enclosure remains closed and is therefore protected from ambient influences and unauthorised access.

Space-saving installation e.g.
- in small enclosures and compact enclosures as a programming interface for controllers
- in IT and industrial enclosures as maintenance access for networks
- in PC enclosures and console systems for the temporary connection of additional equipment
- in mobile Industrial Workstations for rapid connection to existing network structures
- in Command Panel systems for programming and maintenance of integral components.

The mounting frame has a flap which snaps into position in various stages at opening angles of 90 to 180°. A snap fastener ensures a reliable seal. This may be locked if required.

Material:
- Mounting frame and metal flap: Fine die-cast zinc, matt nickel-plated
- Plastic flap: Polycarbonate (semi-transparent)
- Lock: Polycarbonate, RAL 7024

Protection category:
- IP 65 to EN 60 529/09.2000 with sealed flap and proper assembly.

Rittal service:
- Cut-outs and mounting in many Rittal enclosures.
- Detailed drawing and installation dimensions, see page 1304.

Description

<table>
<thead>
<tr>
<th>Description</th>
<th>C-UL</th>
<th>UL</th>
<th>Packs of</th>
<th>Model No.</th>
<th>SZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting frame1)</td>
<td></td>
<td></td>
<td></td>
<td>2482.300</td>
<td></td>
</tr>
<tr>
<td>Single, with plastic flap (semi-transparent)</td>
<td></td>
<td></td>
<td></td>
<td>2482.310</td>
<td></td>
</tr>
<tr>
<td>Double, with plastic flap (semi-transparent)</td>
<td></td>
<td></td>
<td></td>
<td>2482.320</td>
<td></td>
</tr>
<tr>
<td>Single, with metal flap</td>
<td></td>
<td></td>
<td></td>
<td>2482.330</td>
<td></td>
</tr>
<tr>
<td>Double, with metal flap</td>
<td></td>
<td></td>
<td></td>
<td>2482.330</td>
<td></td>
</tr>
<tr>
<td>Socket modules</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Germany (VDE), spring-action terminals max. 2 x 2.5 mm², connection at rear</td>
<td></td>
<td></td>
<td></td>
<td>2482.4003)</td>
<td></td>
</tr>
<tr>
<td>Germany (VDE), screw terminals max. 6 mm², connection at rear, colour: yellow (RAL 1016), for installation in front of main switch</td>
<td></td>
<td></td>
<td></td>
<td>2482.4103)</td>
<td></td>
</tr>
<tr>
<td>USA NEMA 5-15, plug-in solder connection 4.8 x 0.8 mm</td>
<td></td>
<td></td>
<td></td>
<td>2482.4204)</td>
<td></td>
</tr>
<tr>
<td>USA NEMA 5-15, plug-in solder connection 4.8 x 0.8 mm (N, PE) 6.3 x 0.8 mm (phase), fuse 3 A</td>
<td></td>
<td></td>
<td></td>
<td>2482.4304)</td>
<td></td>
</tr>
<tr>
<td>Interface inserts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x SUB-D9 (jack/jack)</td>
<td></td>
<td></td>
<td></td>
<td>2482.500</td>
<td></td>
</tr>
<tr>
<td>SUB-D9 (jack/jack)</td>
<td></td>
<td></td>
<td></td>
<td>2482.510</td>
<td></td>
</tr>
<tr>
<td>SUB-D9 (jack/jack), SUB-D25 (jack/jack, Cat. 5e)</td>
<td></td>
<td></td>
<td></td>
<td>2482.520</td>
<td></td>
</tr>
<tr>
<td>SUB-D25 (jack/jack)</td>
<td></td>
<td></td>
<td></td>
<td>2482.530</td>
<td></td>
</tr>
<tr>
<td>2 x USB A (jack/jack)</td>
<td></td>
<td></td>
<td></td>
<td>2482.5402)</td>
<td></td>
</tr>
<tr>
<td>RJ 45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack), SUB-D9 (pin/pin)</td>
<td></td>
<td></td>
<td></td>
<td>2482.550</td>
<td></td>
</tr>
<tr>
<td>2 x RJ 45 (jack/jack, Cat. 5e)</td>
<td></td>
<td></td>
<td></td>
<td>2482.5602)</td>
<td></td>
</tr>
<tr>
<td>USB A (jack/jack), RJ 45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack)</td>
<td></td>
<td></td>
<td></td>
<td>2482.5702)</td>
<td></td>
</tr>
<tr>
<td>RJ 45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack), SUB-D25 (jack/jack)</td>
<td></td>
<td></td>
<td></td>
<td>2482.580</td>
<td></td>
</tr>
<tr>
<td>Blanking plate (slimline), for individual population, usable area: 45 x 75 mm</td>
<td></td>
<td></td>
<td></td>
<td>2482.590</td>
<td></td>
</tr>
</tbody>
</table>

1) Electrically conductive.
2) Conductively linked to mounting frame.
3) Rated voltage: 250 V AC, rated current: 10 – 16 A
4) Rated voltage: 125 V AC, rated current: 15 A (SZ 2482.420)/3 A (SZ 2482.430)

All SUB-D interfaces may be rotated while in operation.
Other socket modules and interface inserts available on request.
Rittal Software Service
Planning/project management/selection

Rittal on the Internet
With innovations, product summaries and many other topics available on our homepage, Rittal’s customers always have access to the very latest information. Product data, contract tender texts, dimensions and assembly instructions in Acrobat Reader format and demo versions of the Rittal software are available at any time for downloading from www.rittal.com. Want to order brochures via the Internet? No problem, with our special brochure request feature on our homepage. Rittal can also be contacted by e-mail.

Internet services:
● Extensive product database with CAD drawings
● Configurators and solution visualisations
● Assistance with planning and calculation
● Online generation of text folders for tender texts

More detailed information at:
www.rittal.com

RiArt
The electronic price list with product catalogue offers you:
● Data sheets in HTML, text and PDF format
● Excel price list
● DATANORM/ELDANORM component database
● Catalogues to eCl@ss/ETIM/BMEcat
● Shopping basket with Excel interface
● Item data for EPLAN
● Contract tender texts
● DWG catalogue drawings
● Assembly instructions
● Quick climate calculation
● Software demo
● PDF pages from our latest brochures
● Accessory assignment

Note:
Please order your free copy from www.rittal.com!

German language only.

PlanIT
From Rittal’s extensive range of products and solutions, we have compiled the information that is specifically relevant for the planning of IT enclosures, IT infrastructure and data centres.

The following applications are contained on this CD:
● Product overview
● Product search
● Documentation
● Enclosure monitoring software
● Drawings (VISIO)
● Brochures
● Tender texts (TXT, DOC, PDF, GAEB format)
● Contacts and contact details
● Lists of materials

Note:
The software PlanIT is sent free of charge on CD. Request your copy at info@rittal.de
For an online preview, go to: www.rittal.com/planit
Rittal Power Engineering
The configurator for Ri4Power low-voltage switchgear
For:
- Form 1: High-current power distributor
- Form 1: Distribution enclosure
- Forms 2-4: Low-voltage switchgear
The multi-lingual software package includes the following functions:
- Project handling, from the initial enquiry through to ordering
- Complete, automatic function for the generation of bills of materials and a calculation program for producing a quote
- Input and evaluation of assembly times to determine labour values
- Access to the entire range of Rittal products
- Output of orders including combining several projects into one order

Supply includes
CD-ROM
Language: German/English/French/Dutch/Swedish/Czech/Italian/Polish/Russian
Model No. SV 3020.300
- Generation of special fields configured by the customer with graphical processing in the CAD view
- Import/export interfaces for product and CAD data
- Export function of order and parts lists in Excel or CSV format
- Calculation based on current copper price
- Integration of the new product range form subdivisions as per Forms 2, 3 and 4 (Ri4Power)
- Interface to Eplan Electric P8, for the export of CAD data and bills of materials
- The extra benefit for engineering and planning offices: Output of detailed tender texts on the basis of plant project-planned in Power Engineering in MS Word/GAEB format

Rittal PlanSV
Software support for engineering and planning offices.
With PlanSV, Rittal makes an extensive range of information available for the planning of Rittal Ri4Power low-voltage switchgear.

The German-language planning software includes the following functions:
- Contract tender texts
- Drawing templates
- Calculation aids
- References
- Application images
- Assembly instructions
- Documentation

Note:
Rittal PlanSV is available free of charge at www.rittal.com.

German language only.

EPLAN Cabinet
Productivity increases, from electrical planning, to enclosure population, through to production
The electrical planning and mechanical installation of an enclosure are combined into an integrated workflow with EPLAN Cabinet.

Equipment and component data is transferred from the wiring schematic from EPLAN Electric P8 or earlier versions of EPLAN into the layout plan. Rittal enclosures are integrated as original 3D models via component libraries (Rittal RiCAD-3D). Cable trunking, support rails, terminals and devices may be positioned in the 3D representation of the enclosure at a click of the mouse. Collision controls ensure compliance with distances and blocked surfaces, and help to avoid design errors.

Automatic generation of bills of materials and order lists are, of course, included, as are high-quality, dimensioned drawings for plant documentation.

Supplementary modules such as routing or NC generate drilling plans and programs, optimised wiring paths and lists, as well as information for drilling and milling machines. The simple planning and detailed documentation of EPLAN Cabinet support an optimum workflow, from the wiring schematic through to the populated enclosure.
**RiTAL Software Service**

**Planning/project management/selection**

**RICAD 3D**

The download platform for seamless integration of Rittal CAD data into your plant designs irrespective of which CAD system you use. RICAD-3D effectively supports the efficiency and productivity of your plant design.

- Considerable reduction of engineering and design work
- Shorter assembly times
- Error-free detailed Rittal data
- Generic original files in 2D and 3D format – no conversion of neutral formats

Online access to original data for virtually any CAD system via:

www.rittal.com/RiCAD3D

**Supply includes**

<table>
<thead>
<tr>
<th>CD-ROM</th>
<th>2406.110</th>
</tr>
</thead>
</table>

CD-ROM with CAD data for the following formats:

- AUTOCAD DWG, DXF (>R12)
- ProE 2001
- ProE Wildfire
- SolidWorks 3D (= 2003)
- SolidWorks 3D (≥ 2004)
- EPLAN Cabinet
- Neutral Step format

**RiGeo**

From the design into the CNC machine

With the RiGeo CD-ROM, Rittal offers an extensive library of geometry data for virtually all Rittal products in a variety of views and data formats. The files on the CD-ROM are divided into directories based on individual product groups to simplify the search process. It also supports a database search function.

Installation on the hard disk is not necessary, since the data may be read directly from the CD-ROM into your CAD system.

**Features in brief:**

- No unnecessary, memory-consuming storage on the hard disk.
- Simple positioning of accessory components.
- The correct format to suit every application.
- Representation to scale, suitable for CNC machining.

**Supply includes**

<table>
<thead>
<tr>
<th>CD-ROM</th>
<th>2406.100</th>
</tr>
</thead>
</table>

**RiDiag II**

RiDiag II is a tool for diagnosing the operating behaviour of Comfort controller-regulated cooling units. By connecting a PC, it is possible to retrieve error messages, temperatures and capacity utilisation levels of the cooling units which are stored in the Comfort controller. The system includes integrated temperature measurement from four sensors in the cooling unit, and also features graphical representation of the temperature development over time.

**Supply includes**

| CD-ROM
| Model No. SZ | 3159.100 |

| Connection cable
| Model No. SZ | 3159.100 |
Therm Software

Rittal Therm is a calculation program for climate control of enclosures. All electrical and electronic components have a certain power loss which is dissipated to the environment in the form of heat. Because an increasing number of components are now being housed in ever smaller spaces, the heat produced can soon reach levels which are harmful to electronic components and may severely curtail their useful lives.

The Therm software package takes care of the complex calculation of climate control requirements. A user-friendly interface guides the operator to the most suitable, correctly dimensioned climate control component. All evaluations are closely based on the requirements of IEC/TR 60 890 AMD 1/02.95 and DIN 3168 for enclosure cooling units.

Supply includes
CD-ROM
Languages: Available in 13 languages
Model No. SK 3121.000

Note:
Your 30-day trial version may be downloaded at www.rittal.com

RiWatchIT

Video edition (for Rittal IP-Cams)

This client/server application is the management centre for the Rittal video monitoring system. This software allows several cameras to be monitored, controlled, and on request linked to CMC-TC sensors.

Note:
The RiWatchIT “Video Edition” software can only be used with Rittal IP-Cams (DK 7555.xxx)

Further information:
www.rimatrix5.com

Benefits and functions:
- Cost-effective, because it uses the existing network infrastructure
- Future-proof IP technology
- Flexible use for data centre and indoor building monitoring
- Global access is supported via IP networks
- Scalability – the system grows along with your requirements
- Free monitoring software for Rittal IP-Cams
- Supports a unique link with the CMC-TC sensors
- 16 camera views may be represented simultaneously

For detailed information, see page 847/848.

Supply includes
CD-ROM
Language: German/English
Model No. DK 7200.950

IT-Check certification

IT-check certification offers:
- Planning confidence for data centres and server rooms
- Review of the sensitivity of IT applications to failure
- Automatic determination of protection requirements
- Target description of the technical supply infrastructure
- Target description of the security equipment

Supply includes
CD-ROM
Language: German/English
Model No. DK 7200.950