Compact enclosures

Features

Rittal compact enclosures with a host of decisive benefits:

- Triple surface treatment (nanoceramic pretreatment, electrophoretic dipcoat priming, powder coating);
- Materials, sizes and designs are tailored to all major requirement profiles;
- Superior value for money;
- Solution diversity thanks to Rittal system accessories.

For exceptional requirements:

- Stainless steel compact enclosures, see page 308.
- Ex enclosures, see page 324 – 326.
- EMC enclosures, see page 327 – 328.

Compact enclosures AE

Perforated mounting strips in the door for fast attachment of support strips, cable conduit holders and covers.

Rear panel with holes, prepared for wall mounting bracket or direct wall mounting.

Multi-folded enclosure protection channel prevents the ingress of dirt and water when the door is opened.

PE conductor connection facilities on the enclosure, door and mounting plate, see from page 1034.

Gland plates made from sheet steel for self-assembly may be exchanged for prepunched plates or plastic gland plates.

Door opening angle 130°, on request 180° hinges, see page 963.

Compact enclosures AE IP 69K

Ideal for mounting on vehicles:

- Lock, hinges and mounting plate are all secured in a vibration-resistant manner.

Resistant to high-pressure cleaning

- The silicone seal is protected from direct hosed water by the labyrinth seal of the door and enclosure return edge.

Wall mounting directly from the outside using threaded inserts or wall mounting brackets 1594.000 and 2433.000, see page 975.
Compact enclosures

Features

Compact system enclosures Rittal CM

Enclosure top and bottom, with stud at front for installation of a rail for fast assembly of system light or customer covers.

Potential equalisation
Provided only electrical equipment is mounted on the mounting plate and there is no chance of a voltage overspill to other conductive parts of the enclosure, automatic potential equalisation (while conforming to DIN EN 60 439-1) eliminates the need for connection of an additional PE conductor.

Enclosure slotted for interchangeable door hinge.

Doors right and left with spot welded perforated mounting strips (25 mm pitch pattern) for universal interior installation.

Lock insert is protected from contamination by the inserted trim panel. There is space for your company logo behind the top polycarbonate cover.

Fast attachment: The mounting plate (folded over at the side) is inserted at the bottom, and secured at the top with clips. Leaving both hands free for screw fastening.

Side panels with studs on the inside for the installation of rails for interior configuration with TS 8 accessories.

More space, greater stability, and more opportunities for cable entry, thanks to a large opening and a wide range of gland plate combinations, see page 911.

Plastic enclosures KS

C sections for infinitely variable depth adjustment of the mounting plate, and to create several mounting levels.

Twin seal on the top and bottom edges of the door in all enclosures, thanks to the integral rain protection strip.

Mounting inserts for threaded inserts in the door and in the rear panel of the enclosure, for simple installation.
Compact enclosures AE

Width: 200 – 600, height: 300 – 400

Material:
Sheet steel

Surface finish:
Enclosure and door: Dipcoat-primed, powder-coated in textured RAL 7035 on the outside
Mounting plate: Zinc-plated

Material:
Protection category:
IP 66 to EN 60 529/00.2000, complies with NEMA 4.

Protection category:
Supply includes:
Enclosure of all-round solid construction, single-door, 1 gland plate in the enclosure base.
r/h door hinge, may be swapped to opposite side (except with AE 1032.500 and AE 1035.600), with one cam lock, foamed-in door seal, mounting plate.

Approvals, see page 28.
Detailed drawing, see page 1177.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>1032.500</th>
<th>1035.500</th>
<th>1036.500</th>
<th>1033.500</th>
<th>1034.500</th>
<th>1030.500</th>
<th>1031.500</th>
<th>1138.500</th>
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<td>7.5</td>
<td>9.8</td>
<td>15.4</td>
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</table>

Accessories

**Gland plate**
Size
| Qty | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 956, lock cylinder, plastic handles and T handles, type B, see page 954 – 957.

To order enclosures in textured RAL 7032 please add extension .600 to the Model No., and for primed enclosures use extension .800. Delivery times available on request.

Cable glands
of polyamide or brass. Model No. see page 1054.

Dust guard trim
for the gap between the door and the enclosure. Model No. see page 970.

---

128 Rittal Catalogue 32/Industrial Enclosures
Compact enclosures AE

**Width:** 380 – 800, **height:** 500 – 1000

**Material:** Sheet steel

**Surface finish:**
- Enclosure and door: Dipcoat-primed, powder-coated in textured RAL 7035 on the outside
- Mounting plate: Zinc-plated

**Protection category:**
- IP 66 to EN 60 529/09.2000, complies with NEMA 4.

**Supply includes:**
- Enclosure of all-round solid construction, single-door, 1 gland plate in the enclosure base.
- r/h door hinge, may be swapped to opposite side, with 2 cam locks, foam-in-door seal, zinc-plated mounting plate.

**Protection category:**
- IP 66 to EN 60 529/09.2000, complies with NEMA 4.

**Approvals:** see page 28.

**Detailed drawing:** see page 1177.

---

**Width (B1) mm** | **Packs of** | **380** | **380** | **400** | **400** | **500** | **500** | **500** | **500** | **600** | **600** | **Page**
---|---|---|---|---|---|---|---|---|---|---|---|---
**Height (H1) mm** | **600** | **600** | **500** | **500** | **500** | **500** | **700** | **600** | **600** | **Depth (T1) mm** | **210** | **210** | **210** | **300** | **210** | **300** | **250** | **210** | **250** |
**Mounting plate width (F1) mm** | **334** | **334** | **354** | **349** | **449** | **449** | **449** | **549** | **549** | **Mounting plate height (G1) mm** | **570** | **570** | **475** | **770** | **470** | **470** | **670** | **570** | **570** |
**Mounting plate thickness mm** | **2.5** | **2.5** | **2.0** | **2.5** | **2.5** | **2.5** | **2.5** | **2.5** | **2.5** | **Model No. AE** | **1** | **1038.500** | **1338.500** | **1045.500** | **1037.500** | **1050.500** | **1350.500** | **1057.500** | **1060.500** | **1054.500** |
**Weight (kg)** | **15.6** | **19.4** | **13.0** | **26.2** | **16.8** | **19.6** | **31.2** | **22.8** | **24.8** |

**Accessories**

<table>
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<tr>
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**Width (B1) mm** | **Packs of** | **600** | **600** | **600** | **600** | **600** | **600** | **700** | **800** | **800** | **Page**
---|---|---|---|---|---|---|---|---|---|---|---|---
**Height (H1) mm** | **600** | **760** | **760** | **800** | **1000** | **760** | **760** | **600** | **1000** | **Depth (T1) mm** | **350** | **210** | **350** | **250** | **210** | **300** | **300** | **300** |
**Mounting plate width (F1) mm** | **549** | **549** | **549** | **549** | **539** | **730** | **730** | **730** | **570** | **595** | **595** | **Model No. AE** | **1** | **1360.500** | **1076.500** | **1376.500** | **1058.500** | **1090.500** | **1077.500** | **1073.500** | **1055.500** | **1180.500** |
**Weight (kg)** | **28.4** | **32.1** | **36.0** | **33.6** | **50.5** | **40.0** | **44.5** | **33.9** | **57.0** |

**Accessories**

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<tr>
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<th>Size</th>
<th><strong>Qty.</strong></th>
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<th><strong>1</strong></th>
<th><strong>1</strong></th>
<th><strong>from 1048</strong></th>
</tr>
</thead>
</table>

**Lock systems**

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 956, lock cylinder, plastic handles and T handles, type B, see page 954 – 957.

To order enclosures in textured RAL 7032 please add extension .600 to the Model No., and for primed enclosures use extension .800.

Delivery times available on request.

**Metal gland plates,**
- pre-punched,
- Model No. see page 1049.

**Plastic wiring plan pocket,**
- screw-fastened,
- Model No. see page 966.

---

To order enclosures in textured RAL 7032 please add extension .600 to the Model No., and for primed enclosures use extension .800.

Delivery times available on request.
## Compact enclosures AE

**Width**: 600 – 1000, **Height**: 760 – 1400

### Material
- Sheet steel
- Enclosure: 1.5 mm
- Door: 2.0 mm
- Mounting plate: 3.0 mm

### Surface finish
- Enclosure and door: Dipcoat-primed, powder-coated in textured RAL 7035 on the outside
- Mounting plate: Zinc-plated

### Protection category
- IP 55 to EN 60 529/09.2000, complies with NEMA 12.
- IP 66 to EN 60 529/09.2000, complies with NEMA 4 for AE 1260.500, AE 1280.500.

### Supply includes
- Enclosure of all-round solid construction,
- Single-door: 1 gland plate,
- Twin-door: 2 gland plates in the enclosure base,
- 3-point lock system, prepared for use of the Ergoform-S lock system,
- 2 cam locks for 1100.500, 1130.500, 1110.500,
- Foamed-in door seal, zinc-plated mounting plate.

### Possible alternative
- Compact system enclosures, Rittal CM, see page 132 – 133.

### Width (B1) mm | Packs of (mm) | Page
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### Height (H1) mm | Depth (T1) mm | Mounting plate width (F1) mm | Mounting plate height (G1) mm | Model No. AE | Door(s) | Weight (kg) | Accessories
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1200           | 1000           | 1155           |                | 1260.500       | 1               | 55.0           | Self-tapping screws 300 2487.000
| 1200           | 1000           | 1155           |                | 1280.500       | 1               | 70.0           | Base/plinth Height 100 mm 2816.200 2816.200 – 2801.200 2801.200 2801.200 2801.200 901
| 1200           | 1000           | 1155           |                | 1280.500       | 1               | 70.0           | Height 200 mm 2826.200 2826.200 – 2820.200 2820.200 2820.200 2820.200 1001
| 760            | 300            | 740            | 1155           | 1280.500       | 1               | 52.0           | Stainless steel rain canopy 1 – 2475.000 – 2363.000 2363.000 2363.000 2363.000 969
| 760            | 300            | 740            | 1155           | 1280.500       | 1               | 52.0           | Gland plate Size 5 5 4 4 4 4 4
| 1000           | 300            | 740            | 1155           | 1280.500       | 1               | 56.0           | Qty. 1 1 2 2 2 2 2
| 1000           | 300            | 740            | 1155           | 1280.500       | 1               | 71.0           | Eyelets 4 2509.000 2509.000 – – – 2509.000 2509.000 974
| 1000           | 300            | 740            | 1155           | 1280.500       | 1               | 71.0           | Lock systems Standard double-bit lock insert which may be exchanged for lock inserts 27 mm, type A, see page 956
| 1000           | 300            | 740            | 1155           | 1280.500       | 1               | 71.0           | and for lock system Ergoform-S (not for 1100.500, 1130.500, 1110.500), see page 953.

### To order enclosures in textured RAL 7032 please add extension .600 to the Model No., and for primed enclosures use extension .800.

### Delivery times available on request.

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### Accessories
- Page 890
- AE stainless steel Page 308
- AE IP 69K Page 131
- AE EMC-shielded Page 328
- AE Ex-proof Page 325
- Compact enclosures Hygienic Design Page 599

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### Compact light and mounting kit magnet
- Model No. see page 1027.
Perfect protection in a tough environment

The compact enclosure AE in IP 69K is the ideal solution when a high protection category and corrosion resistance are needed.

- Resistant to high-pressure cleaning (protection category IP 69K). The interior seal is protected against direct hosed water.
- Ideal for mounting on vehicles: Lock, hinges and mounting plate are all vibration resistant.
- The enclosure and door have an aluminium zinc coating for a high level of corrosion protection.

- Foamed-in silicone seal, water-impermeable, with high resistance to temperature and chemicals.
- Prepared to accommodate the door stay 1101.800 and the interior door.
- Wall mounting.

Material:
Sheet steel

Surface finish:
Aluminium zinc coating, powder-coated in textured RAL 7035

Mounting plate: Zinc-plated

Protection category:
IP 69K to DIN 40 050-9

Supply includes:
Enclosure of all-round solid construction, single-door, door hinge may be swapped to opposite side by rotating the enclosure, mounting plate, cam lock with double-bit insert, other inserts available on request.

Rittal service:
Other sizes available on request. Cut-outs and drilled holes to your specifications.

Detailed drawing, see page 1180.

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Interior door
with 4 (2 for AE 1101.010) studs for the installation of punched rails 23 x 23 (may be cut to required length), see page 998, and universal installation accessories.

Wall mounting
directly from the rear via M8 nut or with wall mounting bracket, see page 975.
Compact system enclosures Rittal CM

**Width:** 600 – 800, **Height:** 800 – 1200

### Material:
- Sheet steel
- Enclosure: 1.5 mm
- Door: 2.0 mm
- Mounting plate: 3.0 mm

### Surface finish:
- Enclosure and door: Dipcoat-primed, powder-coated in textured RAL 7035 on the outside
- Mounting plate: Zinc-plated

### Protection category:
- IP 55 to EN 60 529/09.2000, complies with NEMA 12 provided suitable gland plates are selected.

### Supply includes:
- Enclosure with one door, r/h door hinge, may be swapped to opposite side, mounting plate, base open for individual cable entry.

### Also required:
- Gland plates, see page 911 – 912, or end plate, see page 913.

### Approvals, see page 29.
- Detailed drawing/nominal dimensions, see page 1181.

### Base/plinth

<table>
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<td>1200</td>
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### Accessories

- **Rail for interior installation**
  - for height: 4, Model No. 5001.051, 5001.052, 5001.053, 5001.054, 5001.052, 5001.052, 5001.053
  - for width: 4, Model No. 5001.050, 5001.050, 5001.050, 5001.050, 5001.051, 5001.051, 5001.051

- **Support strips for door**: 20, Model No. 4596.000
- **Punched sections with mounting flanges for door**: 4, Model No. 8612.050
- **Cable clamp rail**: 1, Model No. 5001.080
- **Wiring plan pocket**: 1, Model No. 4116.500
- **Rain canopy/vented roof**: 1, Model No. 5001.310

To order primed enclosures, please add extension .800 to the Model No. Delivery times available on request.

---

**Mounting plate slide block**
- Allows the populated mounting plate to slide in easily, Model No. see page 982.

**Base/plinth**, see page 892.
- One Model No. for the base/plinth components front and rear.
- One Model No. for the base/plinth trim, side.
- One complete base/plinth.
Compact system enclosures Rittal CM

Width: 1000 – 1200, height: 1000 – 1400

Material:
Sheet steel
Enclosure: 1.5 mm
Door: 2.0 mm
Mounting plate: 3.0 mm

Surface finish:
Enclosure and door: Dipcoat-primed, Powder-coated in textured RAL 7035 on the outside
Mounting plate: Zinc-plated

Protection category:
IP 55 to EN 60 529/09.2000, complies with NEMA 12 provided suitable gland plates are selected.

Supply includes:
Enclosure with two doors, lockable door, may be swapped to opposite side, mounting plate, base open for individual cable entry.

Also required:
Gland plates, see page 911 – 912, or end plate, see page 913.

Rittal service:
Other sizes, cut-outs and holes available on request.

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| Doors | 2 | 2 | 2 | 2 | 2 | 2 | |

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<td>Trim panels (sides) Height 100 mm</td>
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Accessories

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</table>

Lock systems

To order primed enclosures, please add extension .800 to the Model No. Delivery times available on request.

Section for cable entry, rear, may be integrated into the modular base plate concept, see page 1047.

Mounting plate attachment for high dynamic loads, Model No. see page 983.

Accessories Page 890 System lights Page 1027 Cable gland Page 1054 Signal pillars Page 1125
Plastic enclosures KS

Width: 200 – 600, height: 300 – 600

Material:
Enclosure and door: Fibreglass-reinforced unsaturated polyester
Mounting plate: Sheet steel
For KS with viewing window: Glazed acrylic, 3.0 mm with all-round rubber cable clamp strip

Surface finish:
Enclosure and door: No after-treatment, dyed plastic, similar to RAL 7035
Mounting plate: Zinc-plated

Protection category:
KS without viewing window: IP 66 to EN 60 529/09.2000, complies with NEMA 4x.
KS with viewing window: IP 56 to EN 60 529/09.2000, complies with NEMA 12.

Supply includes:
Enclosure of solid all-round construction, r/h door hinge, may be swapped to opposite side by rotating the enclosure, mounting plate, all-round foamed-in PU seal in the door, twin seal on the top and bottom edges (integral rain protection strip), press-fitted C sections at the sides for infinitely variable mounting plate depth adjustment.

Note:
Under the influence of long-term UV radiation (sunlight) in conjunction with wind and rain, the surface finish may become visually impaired. In other words, the fibreglass becomes visible on unprotected surfaces. This does not impair the protection of the installed electrical components in any way. All other surface finishes are likewise impaired by ultraviolet radiation. If the enclosures cannot be protected from radiation, e.g. via a sun canopy, we recommend that they should be painted with a PUR paint. Older enclosures where the surface finish already reveals visible fibreglass can likewise be treated in this way after thorough cleaning. Of course, all enclosures can also be supplied spray-finished in RAL colours. For outdoor siting, we recommend pale shades. Permissible ambient temperature –30°C to +75°C.

Approvals, see page 29.
Detailed drawing, see page 1182.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Without viewing window</th>
<th>With viewing window</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (B1) mm</td>
<td>200 250 300 400 400 500 600</td>
<td>400 400 600 600</td>
</tr>
<tr>
<td>Height (H1) mm</td>
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<tr>
<td>Depth (T1) mm</td>
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<td>Mounting plate width (F1) mm</td>
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<tr>
<td>Mounting plate height (G1) mm</td>
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<td>Mounting plate thickness mm</td>
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<td>Model No. KS</td>
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</tr>
<tr>
<td>Weight (kg)</td>
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<td>8.0 11.5 13.4 15.9</td>
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</tbody>
</table>

Lock systems

Standard double-bit lock insert may be exchanged for lock inserts, type E, see page 956, and plastic handles, type E, see page 954.

Cable gland, polyamide, Model No. see page 1054.

Wall mounting bracket, Model No. see page 975.
**Material:**
Enclosure and door: Fibreglass-reinforced unsaturated polyester
Mounting plate: Sheet steel
For KS with viewing window: Glazed acrylic, 3.0 mm with all-round rubber cable clamp strip

**Surface finish:**
Enclosure and door: No after-treatment, dyed plastic, similar to RAL 7035
Mounting plate: Zinc-plated

**Protection category:**
IP 56 to EN 60 529/09.2000, complies with NEMA 12.

**Supply includes:**
Enclosure of solid all-round construction, r/h door hinge, may be swapped to opposite side by rotating the enclosure (only with single-door models), mounting plate, all-round foamed-in PU seal in the door, twin seal on the top and bottom edges (integral rain protection strip), press-fitted C sections at the sides for infinitely variable mounting plate depth adjustment. KS 1400.500 additionally with removable centre bar in the enclosure.

**Note:**
Under the influence of long-term UV radiation (sunlight) in conjunction with wind and rain, the surface finish may become visually impaired. In other words, the fibreglass becomes visible on unprotected surfaces. This does not impair the protection of the installed electrical components in any way. All other surface finishes are likewise impaired by ultraviolet radiation.

If the enclosures cannot be protected from radiation, e.g. via a sun canopy, we recommend that they should be painted with a PUR paint. Older enclosures where the surface finish already reveals visible fibreglass can likewise be treated in this way after thorough cleaning.

Of course, all enclosures can also be supplied spray-finished in RAL colours. For outdoor siting, we recommend pale shades. Permissible ambient temperature –30°C to +75°C.

**Approvals,** see page 29.
**Detailed drawing,** see page 1183.

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### Dimensions

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Width (B1) mm</td>
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<td>600 800</td>
</tr>
<tr>
<td>Height (H1) mm</td>
<td>800 1000 1000</td>
<td>800 1000</td>
</tr>
<tr>
<td>Depth (T1) mm</td>
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<td>Mounting plate thickness mm</td>
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</table>

**Lock systems**

Standard double-bit lock insert may be exchanged for lock inserts, type E, see page 956, and Ergoform-S lock system, KS 1490.010, see page 953.

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**Accessories**

- **Cable ducts,** Model No. see page 1060.
- **Signal pillar LED compact,** protection category IP 65, Model No. see page 1125.