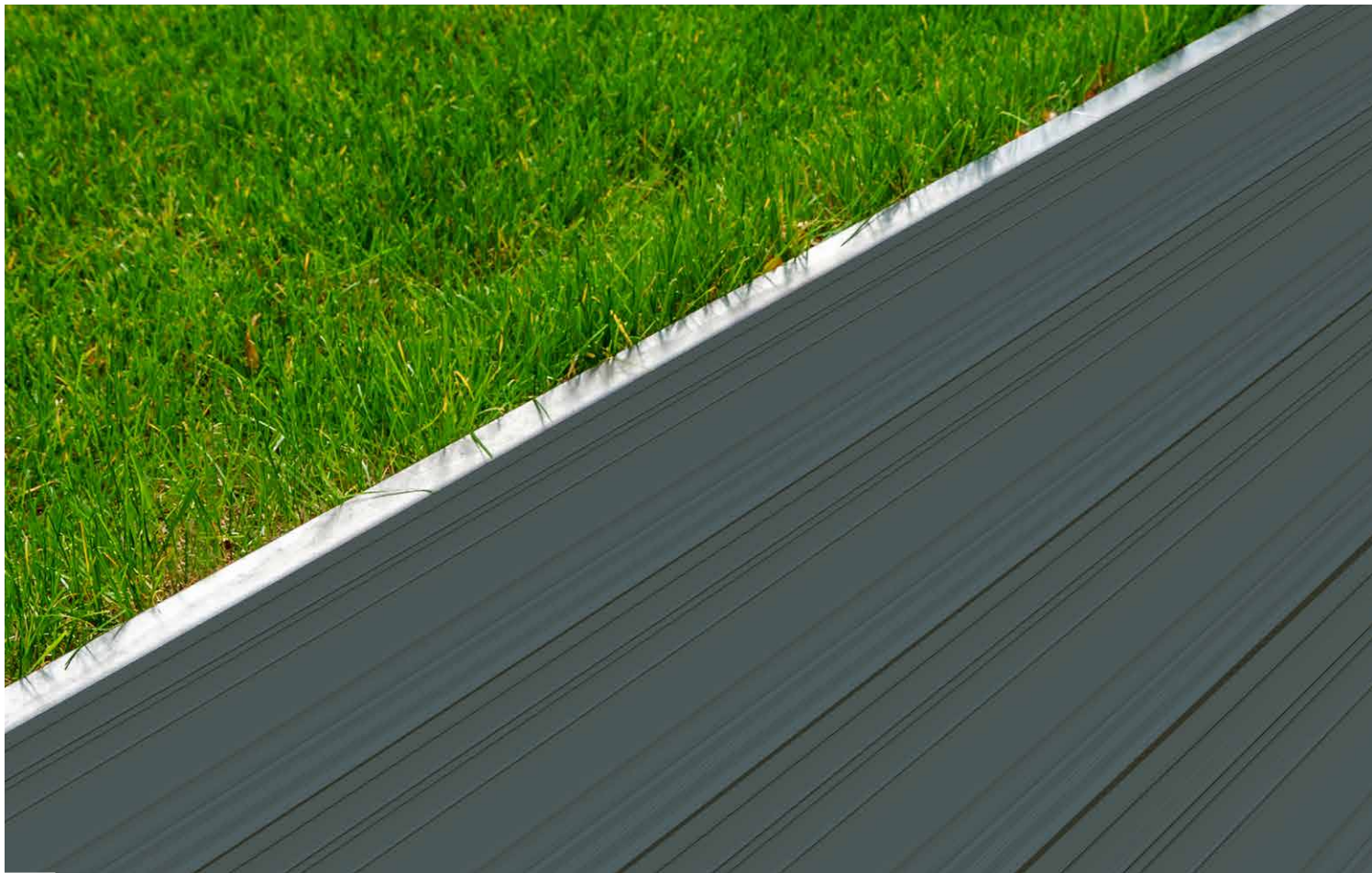


THE ONLY PRACTICAL SOLUTION



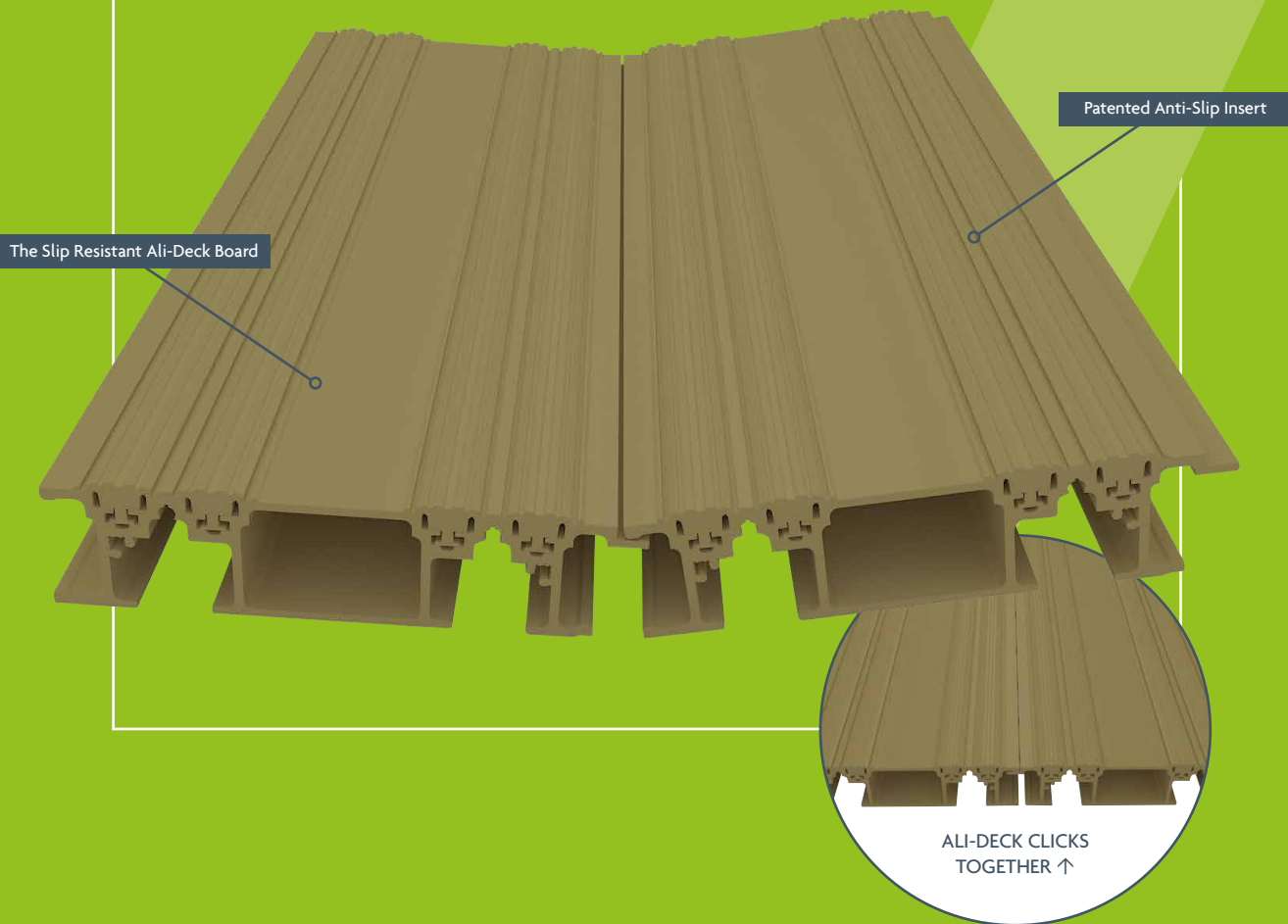
Introducing the World's First, Patented,
Quick Fit, Slip Resistant Aluminium
Domestic and Commercial Decking System.


able
canopies
& outdoor projects



1

USES INCLUDE:
Balconies • Walkways • Bridges
Steps • Commercial dining area surfaces
Temporary platforms



An introduction to each part of the ALI-DECK SYSTEM

- The Slip Resistant Ali-Deck Board
- The Ali-Deck Standard Quick Fit Board
- The Ali-Deck Balcony Board

The Ali-Deck Supa Joist

The Ali-Deck Quick-Fix Z Bracket

The Ali-Deck Starter Trim

Accessories include Ali-Deck Joist to leg brackets, lighting and Ali-Deck end plates

Introducing the world's first patented, Anti-Slip Quick Fit aluminium decking system. Suitable for all uses from Domestic to Commercial projects.

With more than 50 years of combined experience in the outdoor living market, Able Canopies have co-developed a complete aluminium quick fit, easy to install decking system to enable installation crews around the globe to be on and off site as fast and efficiently as possible.

← ALI-DECK BOARD IN SILVER GREY

Why **ALI-DECK?**

By choosing Able Canopies and the Ali-Deck range of products you will be able to install decking platforms in record time...This is partly due to the fact that the spanning capabilities are second to none. Traditional decking solutions typically require a joist at 400mm centres but one of the benefits of the all new Ali-Deck System when combined with the Ali-Deck Supa Joist is that you would only require a joist at every 1200mm apart. This will save you a lot of time! That's a 50% time saving on the underside before you even get to the important part!



One of the main reasons it is so successful is due to its quick fit installation.

ALI-DECK STANDARD DECK BOARD

What makes this a quick fit option?
We do not use fiddly brackets with fancy fixings to screw the boards into place!

Because Ali-Deck is aluminium you do not have to worry about troublesome expansion of wooden or plastic deck boards...We simply fix through the Ali-Deck Standard board to give a much quicker fixing through to the substrate and at the same time avoid hidden costs of brackets and difficult to use fixings. We do not use bang on end caps that fall off when they

expand or contract in the sun, we only use mechanically fixed aluminium end caps that last!

ALI-DECK SLIP RESISTANT BOARD

This patented decking is Slip Resistant and has a durable rubber/composite insert to prevent you or the public from unnecessary slips. The inbuilt anti slip insert means this is perfect for any commercial or domestic application. Use the full system and realise the potential of super fast installation and safety benefits of this patented system! When you combine the Ali-Deck Supa Joist with the Ali-Deck Slip Resistant Deck Board you will not believe how fast you can install a complete long lasting revolutionary decking system that is built to last!

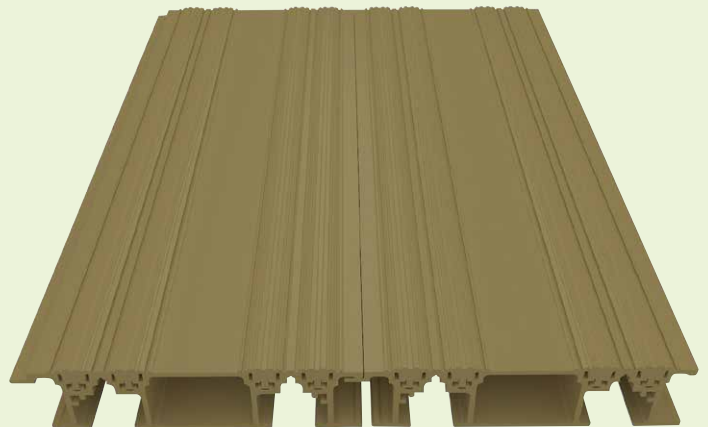
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MAINTENANCE

Due to the fact that the Ali-Deck system is aluminium and is coated using the 5 stage Qualicoat system, little or no maintenance is required. All you need to do is remove any excess dirt or grime and with a brush and mop clean.

(See opposite for Qualicoat specification)

ALI-DECK BOARD IN TEXTURED SAND →

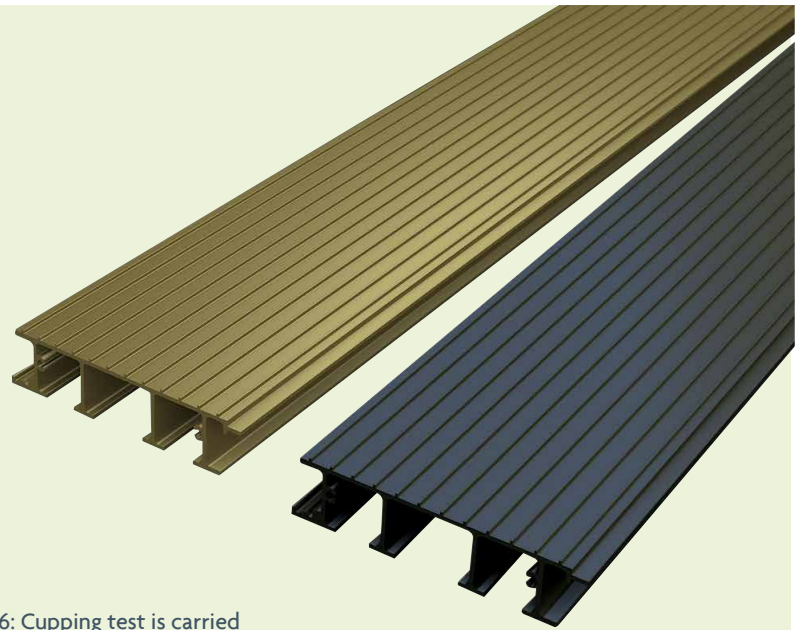




TEXTURED
SILVER GREY



TEXTURED
SAND



Ali-Deck uses Qualicoat

The Ali-Deck system uses a powdercoat process called QUALICOAT: Qualicoat is a quality label organisation committed to maintaining and promoting the quality of coating on aluminium and its alloys for architectural applications.

BS 6496:1984: Specification for powder organic coatings for application and stoving to aluminium alloy extrusions, sheet and preformed sections for external architectural purposes, and for the finish on aluminium alloy extrusions.

Ali-Deck extrusions are finished using the following EN standards:

EN 12206-1:2004: Paints and varnishes. Coating of aluminium and aluminium alloys for architectural purposes. Coatings prepared from coating powder

EN ISO 2409:2013: Paints and Varnishes, Cross Cut Test.

Our quality department also perform the following tests on our powder coated profiles.

QUALICOAT 2.1: Visual inspection at 3 metres for internal and 5 metres for external extrusions (Our Inspectors visually inspect at 1 metre as standard)

QUALICOAT 2.2: Gloss level check to within 5% +/- of the manufacturer's stated level. [EN ISO 2813]

QUALICOAT 2.4.1: Cross Hatch cuts are made at 2mm spacing with one being at 90° to the other cut, tape is then applied, left for 2 minutes and removed to check for adhesion of paint. [EN ISO 2409 2013]

QUALICOAT 2.3: Thickness checks to see that the material is coated with at least 60 microns of powder, average. [EN ISO 2360]

QUALICOAT 2.6: Cupping test is carried out to check for adhesion with the substrate [EN ISO 1520]

QUALICOAT 2.8: Impact test with an energy of 2.5Nm to ensure that the coating adheres to the substrate [EN ISO 6272 / ASTM D2794]

QUALICOAT 2.7: Bend test on a 5mm Mandrel to ensure adhesion after bending [EN ISO 1519]

QUALICOAT 2.11: Machu test (Accelerated corrosion test) in a solution made up of Sodium Chloride, Acetic Acid and Hydrogen Peroxide at 37°C. Duration 48 hours

QUALICOAT 2.14: Polymerisation test (Wipe with MEK for 30 seconds)

QUALICOAT 2.16: Resistance to boiling water in a pressure cooker. Duration 1 hour 100Kpa

QUALICOAT 2.18: Sawing and drilling to ensure that there is no flaking after cutting (using sharp tools)

Curing Oven temperatures are checked and recorded on a daily basis External checks carried out by the powder suppliers and our Laboratory in Belgium on random samples of extrusion:

ISO9227: Acetic Acid Salt Spray Test

EN ISO 3231: Resistance to humid atmospheres containing Sulphur Dioxide

EN ISO 11341: Accelerated weathering test

EN ISO 2810: Natural weathering test (Florida Test). (Carried out on Powder type)

EN ISO 12206-1: Resistance to mortar (Carried out on Powder type)

EN ISO 6270-2: Constant Climate Condensation Water test

Our aluminium is sent through a variety of pre-treatment chemical baths that remove a very fine layer off the surface before powder coating.

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If you are interested in receiving an Ali-Deck sample box please contact us on **0800 389 9072** or email: **sales@ablecanopies.co.uk**



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The Ali-Deck SLIP RESISTANT BOARD

This revolutionary Slip Resistant Deck board has been designed to provide a safe and durable solution to both commercial and domestic applications. Traditionally this market is flooded with both composite and timber offerings, both of which have been known to cause accidents and injuries mainly due to lack of maintenance. The Slip Resistant Deck board has been designed to be installed in conjunction with the Ali-Deck Supa-Joist (see page 11-14) which makes the system far quicker to install and gives longevity.

This is the only Aluminium Slip Resistant system on the market. Ali-Deck does not need an expansion gap between boards due to the fact that aluminium is far more stable than other decking solutions, it's perfect for dining areas in both commercial and domestic applications, there is no possibility of food or debris getting between the boards, which can attract unwanted vermin.

Benefits include:



SLIP RESISTANT



ALL ALUMINIUM



HEAT RESISTANT



DURABLE
TEXTURED FINISH



LOW
MAINTENANCE



RECYCLABLE



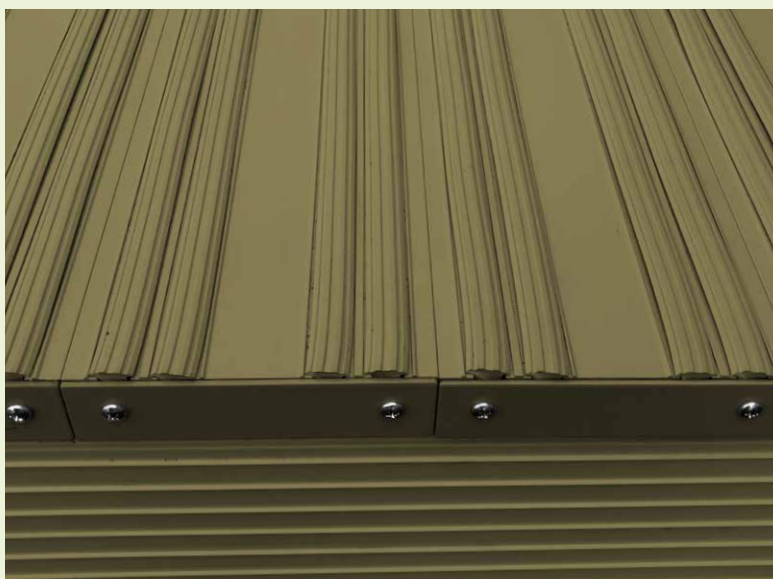
STABLE IN ALL
WEATHER CONDITIONS



NO GAPS
BETWEEN BOARDS

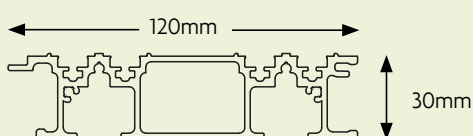


LIGHTING



↑ MECHANICAL FIXED END PLATES

Dimensions



← ALI-DECK SLIP RESISTANT BOARD
BEFORE THE INSTALLATION OF
THE ANTI-SLIP INSERT.

The Ali-Deck

STANDARD BOARD

The Standard Ali-Deck is a quick-to-install all aluminium decking system that can be installed 50% quicker than other decking systems on the market. As this product is made entirely from aluminium, so you do not need to treat it every so often with harsh chemicals as you would with timber decking because it will not rot over time. It is also made from 30% recycled aluminium, and it is 100% recyclable again and again, making it extremely environmentally friendly.

The aluminium construction makes this a fully fire resistant decking solution. The untreated boards have an A1 rating which is the best fire rating possible. Boards that are treated with a durable powder coating to colour the boards, are rated A2L-s1, d0 which is the second best possible fire rating, both options have no contribution to fire.

Standard Ali-Deck aluminium decking is supplied with a 10 year warranty and a 25 year life expectancy for peace of mind that your new decking system will last for many years to come.

Benefits include:



ALL ALUMINIUM



HEAT RESISTANT



**DURABLE
TEXTURED FINISH**



**LOW
MAINTENANCE**



RECYCLABLE



**STABLE IN ALL
WEATHER CONDITIONS**

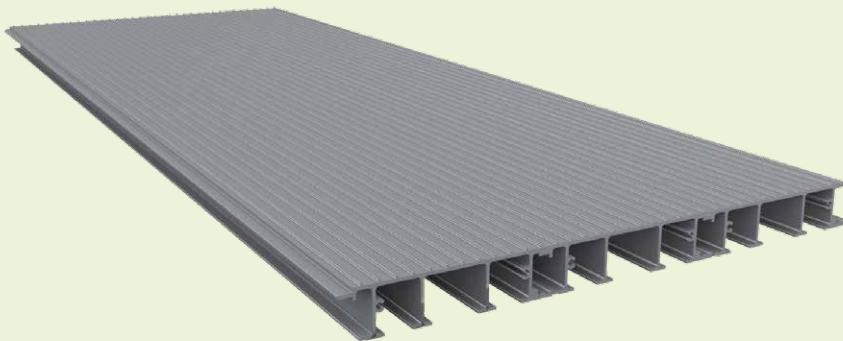


**NO GAPS
BETWEEN BOARDS**

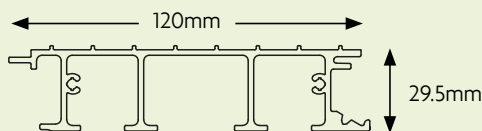


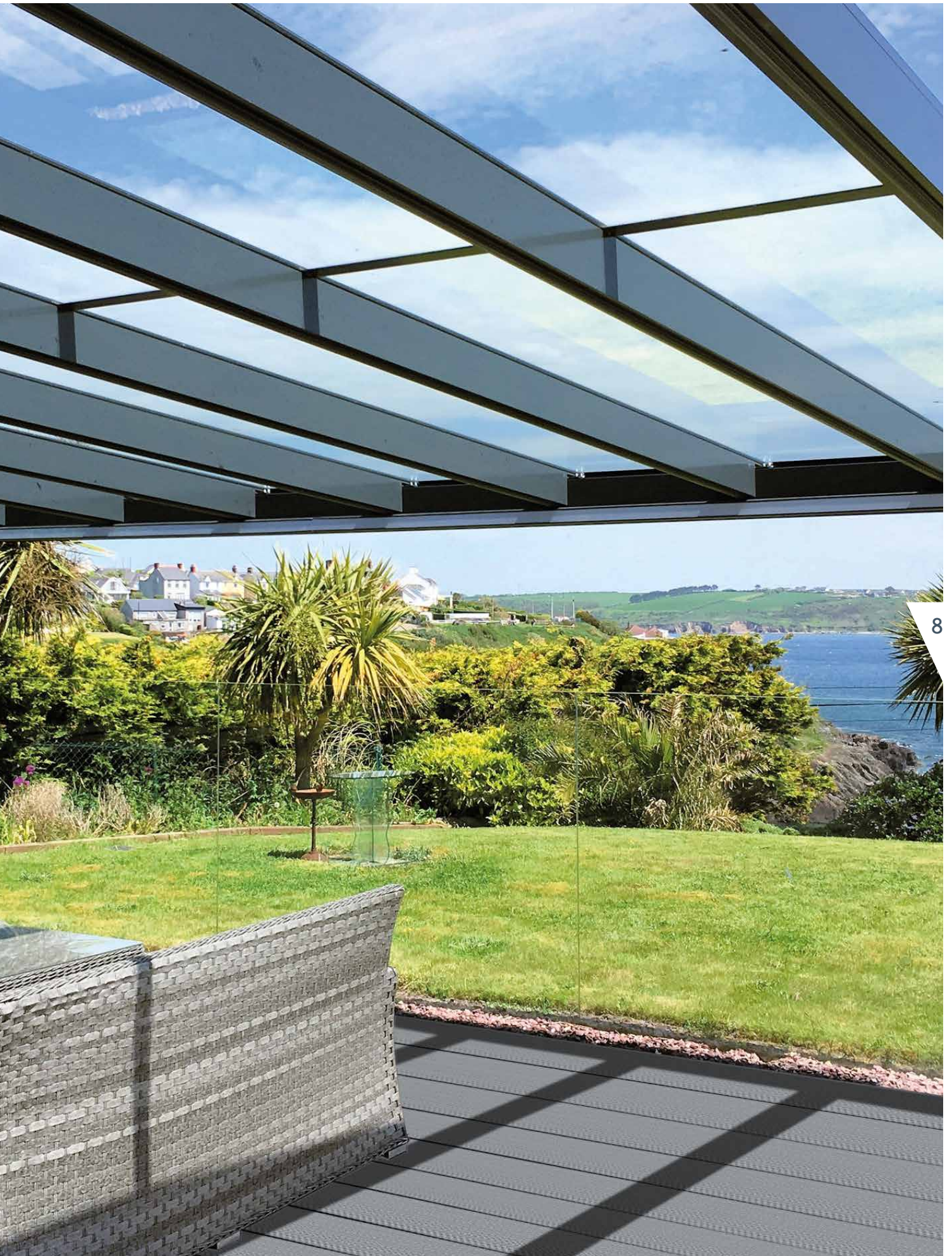
LIGHTING

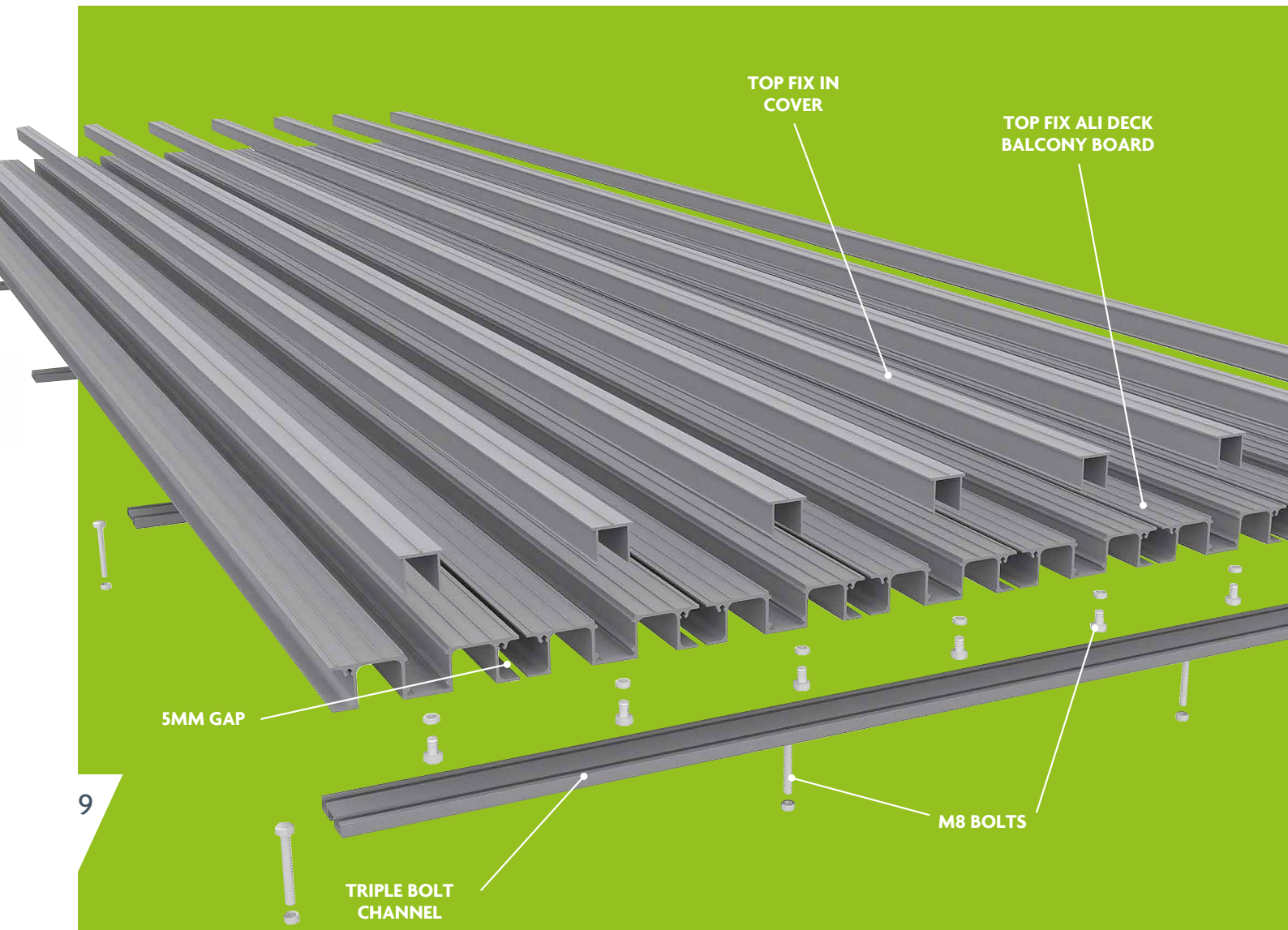
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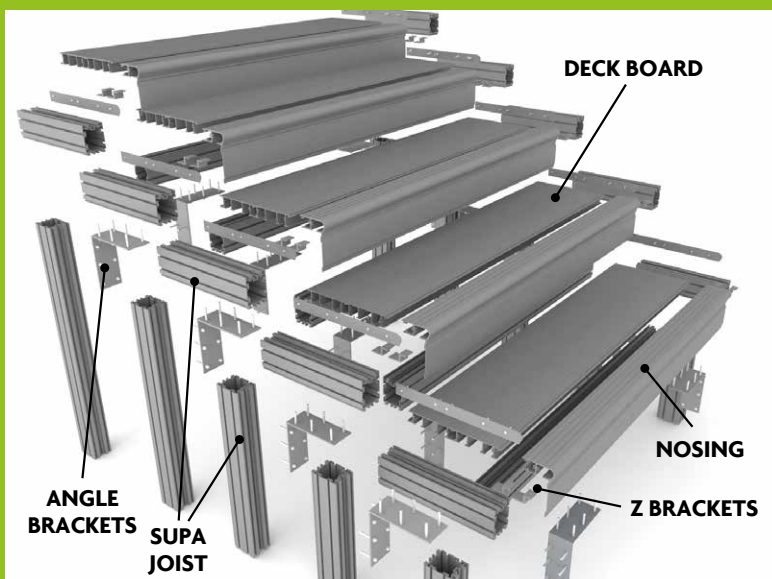
Dimensions





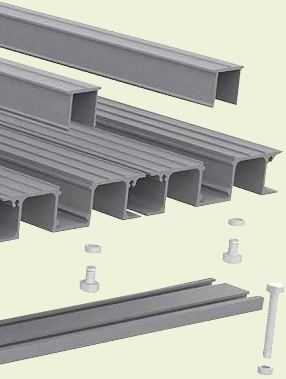


Stairs & Nosing



The Ali-Deck

BALCONY BOARD



The Ali-Deck Balcony board has been designed specifically for balcony installations, it is 120mm wide and 30mm deep it has the following features:

- **The ability to cut it to the correct width**
- **It is fire resistant**
- **You can install 90% of the deck board prior to the installation of the balcony if required, once the balcony is installed you can then install the remaining boards**
- **The ability to be installed on to existing sub frame sections without having to drill additional holes**
- **Drainage between the boards**

We have designed this board to have 3 main supports underneath so that you have the ability to cut the board both sides if you only have a small gap to deal with, the board will then still be structural as it has an upright support under the correct point, we have also looked at point loadings if the board were to be cut with a “Cantilever” section on the board and increased the radius on the underside of the board to stiffen the board in the right place to cope with a good point load.

Fire resistance, these deck boards are manufactured from structural grade T6 aluminium, as with all metallic materials, as the temperature increases the strength of aluminium alloys is reduced at a rate dependent on the alloy, The structural aluminium alloys have useful maximum working temperature limits that range from 200° to 250°C. Above this temperature the strength is significantly reduced.

- Installing 90% of the deck boards prior to the installation of the balcony means you would spend less time on site if you are installing balconies. The board is designed to be installed from the top, with a “Slotted” machined centre section, this is designed to enable us to pick up on at least one of the bolt channels in the 3 way bolt channel to alleviate the need for on-site drilling, you can then drop the deck board into place once the balcony is installed using the bolt

channels and the threads facing up and simply apply the nuts and tighten up (this should be reasonably quick to do).

- The ability to install onto your existing sub frame section without having to drill additional holes. We have designed a 3 way extrusion, 2 up 1 down, this gives you the option to make sure a bolt can pass through the box section on the existing balcony at any point along the box section and then be secured, we then decide on the channels to slide the bolts into depending on the position of the decking in relation to the position of the box section, you need only choose one bolt channel but having 2 gives the option to never have to drill the decking.
- Drainage between the boards. This board has the ability for you to choose the space you want between each board, I remember 4mm being the gap you require, however we would recommend 6mm if possible, this is only due to the fact that the deck board would drain better if we had a minimum of 6mm.

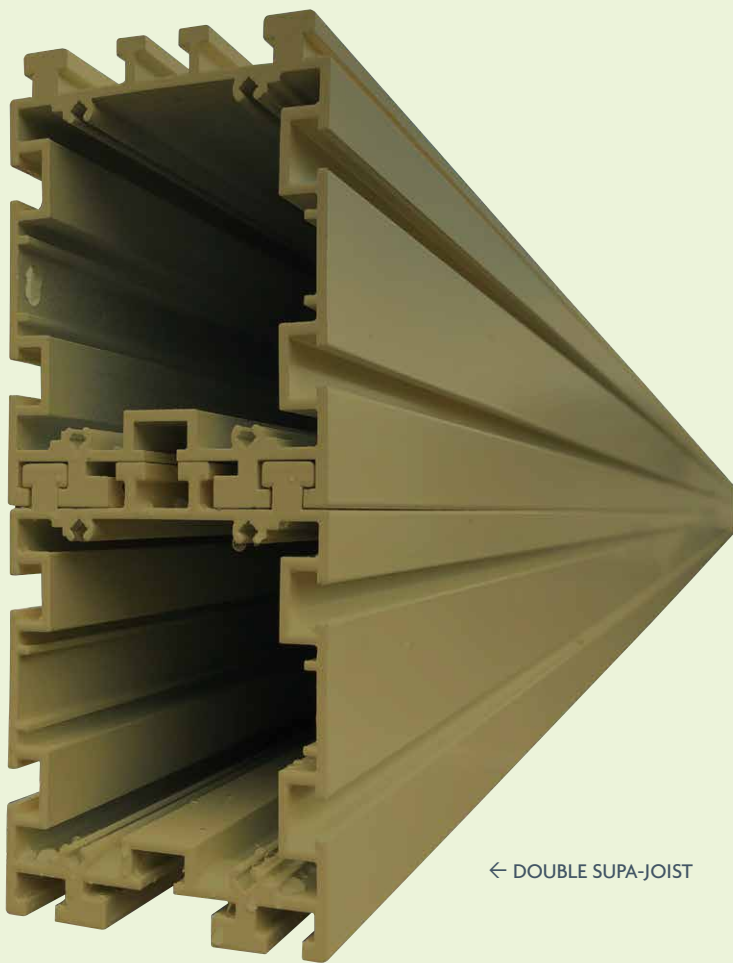
The board has a cover strip on the top of the board which has a positive click leg on both sides, it's a long leg so that any point load and downward loading is not a problem, we see this as a quick fit option that removes most of the problems associated with other composite decking products.



↑ FIRE RESISTANT BALCONY SOLUTION

The Ali-Deck **SUPA JOIST**

The Ali-Deck Supa-Joist is an integral part of the Ali-Deck System! This clever extrusion is designed to act as both a support post and big span joist. The connection plates allow for super fast installation and can be adjusted to suit most applications and conditions. It has also been designed to be connected together to give additional strength for applications where larger spans are required.



Benefits include:



**INCREASED SPAN CAPABILITIES
AGAINST TIMBER OR COMPOSITE
OPTIONS BY OVER 300%**



ALL ALUMINIUM



**QUICK AND EASY
TO INSTALL**



**COLOUR MATCHED
TO THE DECK BOARDS**



**LOW
MAINTENANCE**



RECYCLABLE



**STABLE IN ALL
WEATHER CONDITIONS**

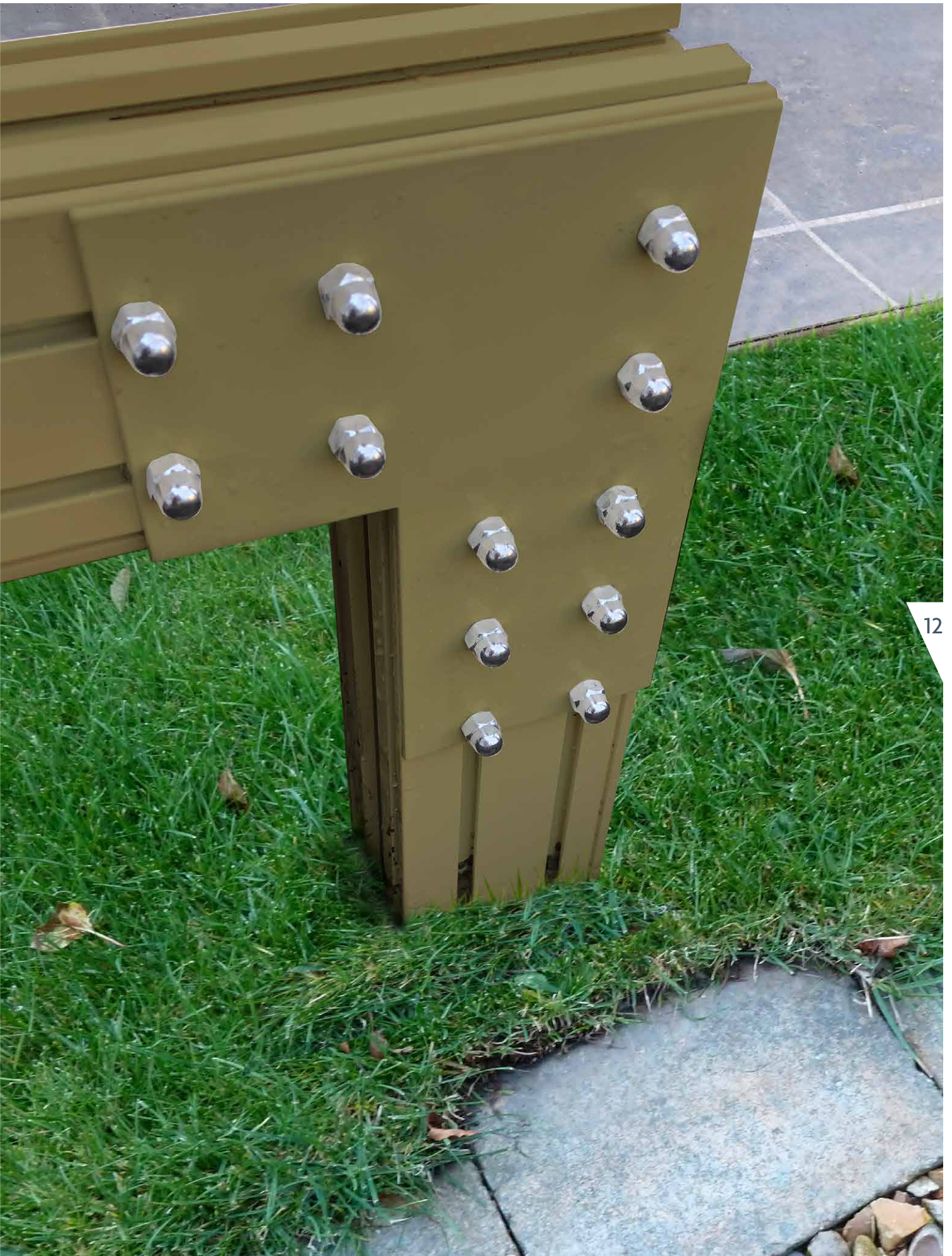


LIGHTING

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**SUPER FAST →
DECKING PLATFORMS**





Introducing the SUPA JOIST

The Ali Deck Supa-Joist has been designed as a standalone product to be used with Ali-Deck Aluminium Decking, it compliments the Ali-Deck System and enables Super-Fast installations.



The Supa Joist system can be used as a standalone solution and can be used in conjunction with composite and timber decking solutions.

This all aluminium system is unique and modular so it can be extended to any length, it can also be simply connected together to create double the span depending on the desired foundation spacings, see loadings for single joist span capabilities.

Traditional timber support structures are manufactured from timber which normally means a joist every 400mm, the beauty of the supa joist is that when used with the Ali-Deck system it only needs installing every 1900mm / 1200mm (depending on the loadings that are required) which means quicker installation, and the fact that it's aluminium it will never need maintenance like timber, it will not crack, warp, or swell, it's impermeable to insects and deterioration, easy to cut and is fade and stain resistant.

Decking Joist Spans

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DOMESTIC Joist Component Disposition

STANDARD SPECIFICATION 1/350
FIRM SPECIFICATION 1/480
LOAD 1.5Kn SQM

JOIST SPANS - BETWEEN SUPPORTS

SINGLE JOIST	STANDARD specification:	3600	3100	3000	2700	2500
SINGLE JOIST	FIRM specification:	3200	2800	2700	2500	2300
DOUBLE JOIST	STANDARD specification:	5000	4200	4000	3800	3400
DOUBLE JOIST	FIRM specification:	4500	3800	3600	3400	3100

CENTRE LINE OF JOIST

600	1000	1200	1500	2000

COMMERCIAL Joist Component Disposition

STANDARD SPECIFICATION 1/350
FIRM SPECIFICATION 1/480
LOAD 4.0Kn SQM

JOIST SPANS - BETWEEN SUPPORTS

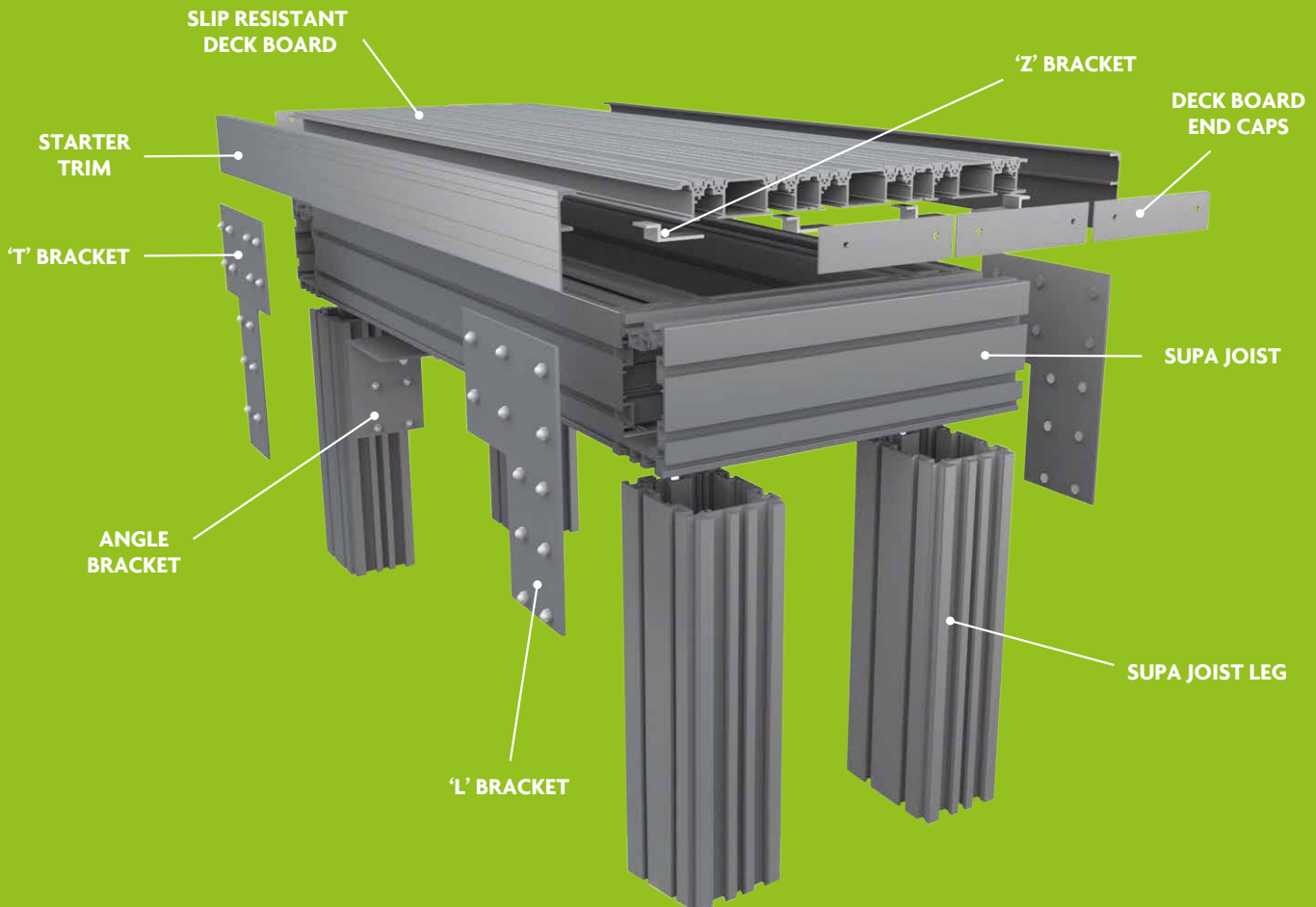
SINGLE JOIST	STANDARD specification:	2600	2300	2200	2000	1800
SINGLE JOIST	FIRM specification:	2400	2100	2000	1800	1700
DOUBLE JOIST	STANDARD specification:	3600	3100	3000	2800	2500
DOUBLE JOIST	FIRM specification:	3300	2800	2700	2500	2300

CENTRE LINE OF JOIST

600	1000	1200	1500	2000

EXPLODED VIEW

Supa Joist



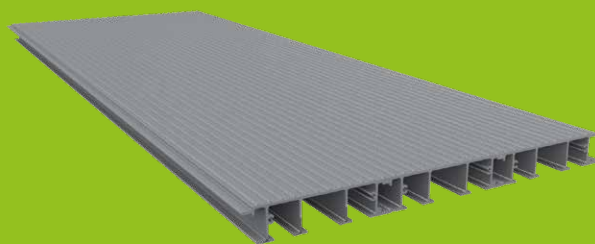
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Aluminium Decking

SLIP RESISTANT DECK SYSTEM



STANDARD DECK SYSTEM



FIRE TESTING

for the Ali-Deck System

Aluminium in Building:

Aluminium alloy components used in building complies as follows. As defined by BS 476: Part 4 and the 1974 SOLAS Convention (as amended) aluminium alloys are 'non-combustible' and also provide Class 1 surface spread of flame to BS 476: Part 7. In addition, BS 476: Part 3 covers external fire exposure roof tests and the classifications laid down in the standard range from AA to DD. The first letter refers to the fire penetration performance and the second letter to the surface spread of flame. Aluminium and its alloys are rated AA, the highest possible under this classification system. Materials are also tested for fire propagation performance to BS 476: Part 6 (1989) and coating systems are taken into account. Aluminium achieves excellent ratings under this Standard.

Qualicoat Powder Coat Process 1. BS476

British Standard 476 refers to fire tests on building materials and structures. The parts of this standard that are of most relevance to powder coatings are Parts 6 and 7.

Part 6 - Fire Propagation

The result of this test is a fire propagation index. It is a measure of the contribution to fire growth made by an essentially flat surface. The results of the test are specific to the test specimen i.e. the product on that particular substrate in the form in which it was tested. Therefore it cannot be used as a method for assessing the product in all situations.

Part 7 - Surface Spread of Flame

This is a method of measuring flame spread along the surface of a specimen. Again the results of the test are specific to the test specimen i.e. the product on that particular substrate in the form in which it was tested. Therefore it cannot be used as a method for assessing the product in all situations.

As defined in the UK Building Regulations 2000 - Fire Safety Approved Document B, the highest product performance classification for wall or ceiling linings is Class 0. This is achieved if a material;

(a) Achieves a class 1 rating in BS476 Part 7, and (b) Achieves a fire propagation index of not more than 12 and sub-index of not more than 6 in BS476 Part 6.

Test Results

Interpon D1000 series and D2000 Series have been tested to BS476 Parts 6 and 7 and have met the criteria for Class 0 building regulation approval.

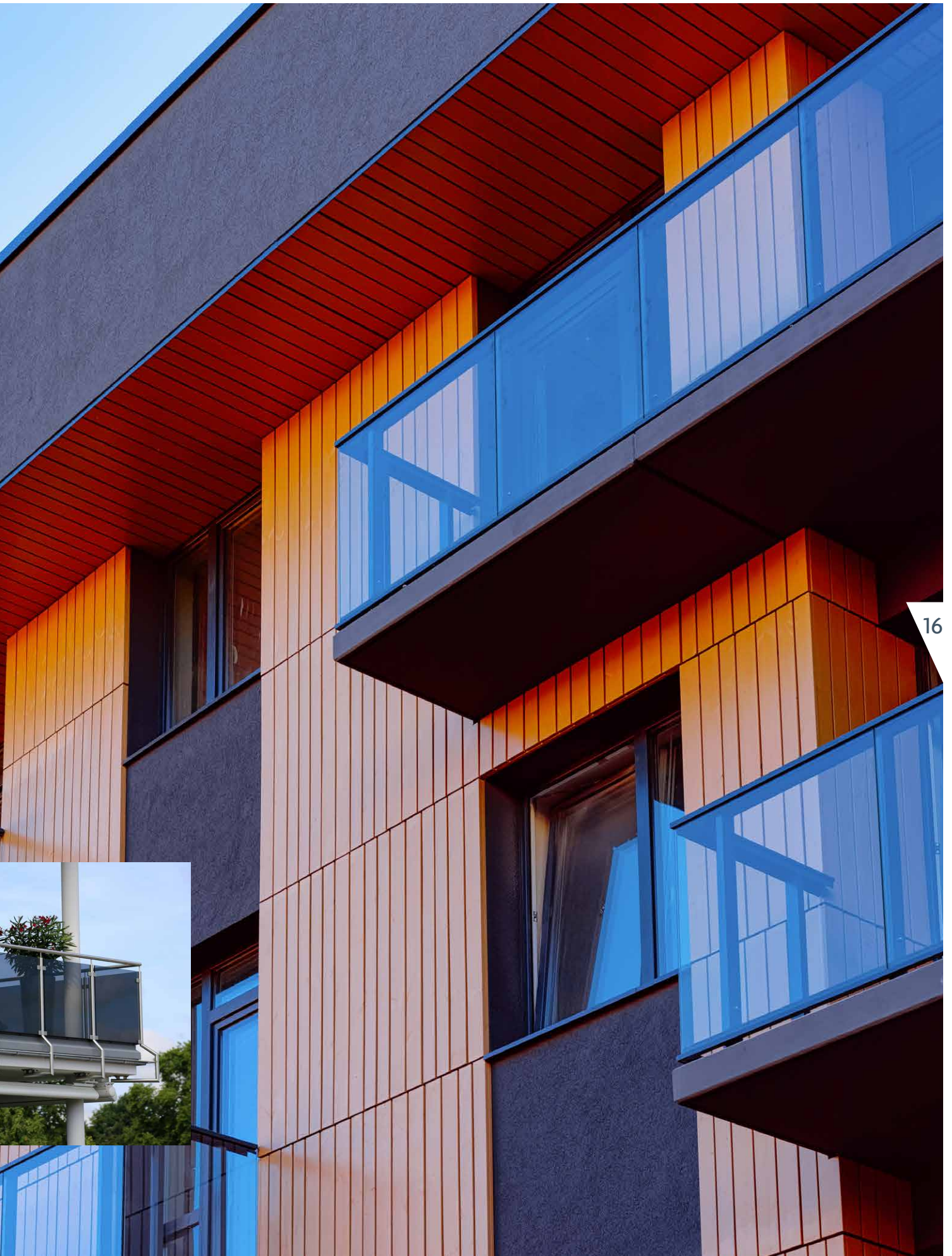
London Underground Approval

- Smoke Emission
- Toxic Fume Emission
- Qualitative analysis (what is emitted)
- Quantitative analysis (how much is emitted)
- Flammability
- Fire propagation
- Surface spread of flame

Fire Data Sheet For the Ali-Deck Insert

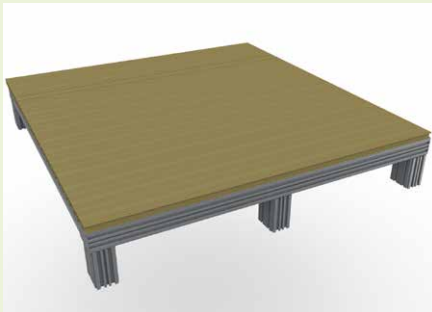
Ali-Deck Slip Resistant Inserts are made from PVC Polymers, they are generally referred to as "Self-Extinguishing" which means that they will burn whilst a high enough heat source of flame is applied to them but once removed they stop burning.





SPANNING CAPABILITIES

and technical information



↑ DOMESTIC SPANS UP TO 1900MM

DOMESTIC APPLICATION

The Standard Ali-Deck board is suitable for everyday use. It will span between the Ali-Deck Supa Joist up to a maximum span of 1900 mm (based 1/350 deflection criteria and a loading of 1.5 kN/m²).

If a firm specification is required you can span a maximum of 1700 mm between the Ali-Deck Supa Joist (based 1/480 deflection criteria and a loading of 1.5 kN/m²).

The Ali-Deck Supa Joist Spans using the 8.0 mm L brackets:

The Ali-Deck Supa Joist is capable of spanning a maximum span of 3000 mm between upright ground supports (based 1/350 deflection criteria and a loading of 1.5 kN/m²).

If a firm specification is required the Ali-Deck Supa Joist will span 2700 (based 1/480 deflection criteria and a loading of 1.5 kN/m²).

The Ali-Deck Supa Joist Spans using the flat T and L brackets (both sides):

The Ali-Deck Supa Joist is capable of spanning a maximum span of 2800 mm between upright ground supports (based 1/350 deflection criteria and a loading of 1.5 kN/m²).

If a firm specification is required the Ali-Deck Supa Joist will span 2500 (based 1/480 deflection criteria and a loading of 1.5 kN/m²).

COMMERCIAL APPLICATION

Ali-Deck boards are suitable for commercial use. It will span between the Ali-Deck Supa Joist up to a maximum allowable span of 1350 mm (based 1/350 deflection criteria and a loading of 5.0 kN/m²).

If a firm specification is required you can span a maximum of 1200mm between the Ali-Deck Supa Joist (based 1/480 deflection criteria and a loading of 5.0 kN/m²).

The Ali-Deck Supa Joist Spans using the 8.0 mm L brackets:

The Ali-Deck Supa Joist is capable of spanning a maximum span of 2200 mm between upright ground supports (based 1/350 deflection criteria and a loading of 5.0 kN/m²).

If a firm specification is required the Ali-Deck Supa Joist will span 2000 (based 1/480 deflection criteria and a loading of 5.0 kN/m²).

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↑ ON COMMERCIAL INSTALLATIONS SPANS UP TO 1350MM

The ENVIRONMENT



Our Recycled Aluminium Decking products will naturally be more environmentally friendly than other decking products like timber and composite.

Ali-Deck will last a lot longer than timber or composite, reducing the need to be replaced as often, there is also no need to maintain the surface of Ali-Deck, unlike Wooden Decking for example.

Wooden decking is often treated with environmentally harmful chemicals that are used as a preservative, or as a method of applying an anti-slip coating.

Some people of course do not use any chemicals to preserve their wooden decking, but in those cases it is often seen that the decking surface and subframe is often replaced more often due to natural weathering, which will not be the case for Ali-Deck.

Composite decking has become popular in the past, but is not generally recyclable due its composite make up of wood, plastic and additives.



Ali-Deck will last a lot longer than timber or composite.

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FAQ'S

1. Does Ali-Deck warp?

No, it's completely made from Aluminium and so does not expand or contract anywhere near the same as composite or timber decking.

2. Is it quick to install?

Yes, with the Supa Joist it is 50% quicker to install than any other deck.

3. Does it require maintenance like timber decking?

No, it is powder-coated and is not porous and does not expand or contracts like timber so the coating lasts for a minimum of 5 years in high traffic areas and 10 years in normal areas...expected life 25 years.

4. Can I recycle it?

Yes, it is 100% recyclable.

5. Does it get hot in direct sunlight?

As the system is aluminium it dissipates heat quicker than timber and composite decking.

6. Can you cut the Decking?

Yes, Aluminium decking can easily be cut to the shape or length required.

Spans further than
any other decking
product, meaning
quicker installation.



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