



ENVIRO
BUILD

NON-COMBUSTIBLE FIRE RATED EXTERNAL FLOORING SYSTEMS

ENVIROBUILD.COM

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NON-COMBUSTIBLE FIRE RATED FLOORING SYSTEMS

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NON-COMBUSTIBLE SYSTEMS

Introducing an entirely new range of non-combustible materials from EnviroBuild, with solutions for every project. The fire rated systems make no compromise on quality or sustainability and are supported by an on-hand expert team.

WHAT ARE NON-COMBUSTIBLE FIRE RATED SYSTEMS?

Almost every component within the systems have been individually tested to EN13501-1, and achieved either A2 s1 or A2 s1 d0 certification. The exceptions to this are specifically listed exempted items including, membranes, gaskets and fixings. There are no longer "system level" fire tests like BS 8414 available.

WHEN ARE NON-COMBUSTIBLE SYSTEMS NECESSARY?

All balconies on buildings where people sleep that have been started since February 2019 and are over 11 m are included in the legislation.

WHAT IS BS 8579 AND ITS REQUIREMENTS?

In September 2020, BS 8579 was released, bringing together and updating previous standards that applied to the design and build of balconies.

One of the areas updated was drainage: On balconies protruding less than 2.5m, they can be edge drained by sloping away from the wall, without the requirement for any other water collection areas.

150 Aqua-Channel was designed exactly for this requirement, allowing the lowering of cost of the overall balcony by preventing any requirement for a soffit.

The drainage slope can be generated either by the fabricator, or EnviroBuild can provide bespoke steel slopes designed to your exact requirements.

The other forms of allowed drainage require a soffit or a membrane solution, and a 6-8mm gap between the boards, therefore making **145 Pro-Grip** the ideal solution.



**DESIGN SUPPORT
FROM EXPERT TEAM**



**LARGE STOCKS WITH
NATIONWIDE DELIVERY**



**FREE SAME
DAY QUOTATIONS**



**QUICK & EASY
INSTALLATION**



**LONG COMMERCIAL
WARRANTIES**



**LOW MAINTENANCE,
LONG LASTING**



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ALUMINIUM DECKING

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NON-COMBUSTIBLE
ALUMINIUM DECKING SYSTEMS

150 **AQUA-CHANNEL**

With patented interlocking attachments, the 150 Aqua-Channel can have either a continuous appearance or a gapped appearance (aesthetic gaps at every 150 mm). This, coupled with in-built drainage pieces, makes this deck an incredibly versatile option.



Continuous surface or
aesthetic gaps every
150 mm



Built in passive
drainage



Clipless system:
Screws hidden
by inserts

Option 1:
Continuous
appearance

Option 2:
Gap insert
every 150 mm



145 **PRO-GRIP**

Beautifully engineered and non-combustible aluminium deck boards by Hyperion are perfect for both residential and commercial settings. 145 Pro-Grip boards are highly slip resistant and easily installed with a simple hidden clip system.



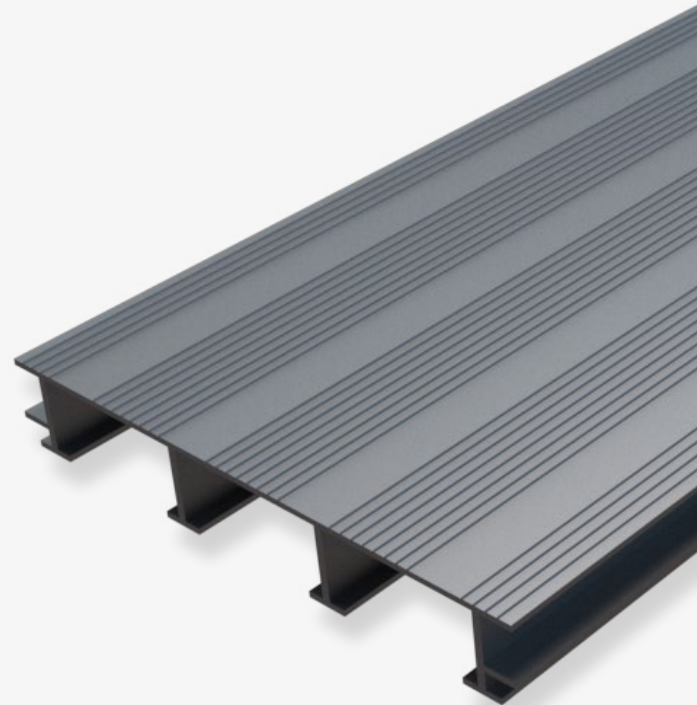
Beautifully engineered
aluminium deck
boards



Market-leading
value



Simple hidden
clip system



150 AQUA-CHANNEL

By **HYPERION***

6

Continuous appearance

Gapped appearance

MAIN FEATURES

- Built in drainage system. The only IP tested system in the UK, achieving a rating of IP56.
- Ability to remove any individual board easily when craning a balcony into place, or where damage has occurred
- The option to have either a continuous surface, or 150 mm wide decking with drainage channel between boards
- Clipless system and hidden fixings
- No pre-drilling required when installed on Hyperion joists
- No need to rip boards for spacings at multiples of 50 mm
- Easy to cut and hide rips for multiples of 10 mm, by cutting along the grooves in the board
- Asymmetry of board makes ripping boards more simple
- Qualicoat certified powder coating
- Custom colour and length options (significant lead time)

MEETS BS 8579 REQUIREMENTS

Balconies that protrude less than 2.5m from the wall can be edge drained by sloping away from the wall, without the requirement for any other water collection areas.

Aqua-Channel was designed exactly for this, allowing the lowering of cost of the overall balcony by removing the need for a soffit to achieve drainage.

The drainage slope can be generated either by the fabricator, or EnviroBuild can provide bespoke "steel drainage supports" designed to your exact requirements.



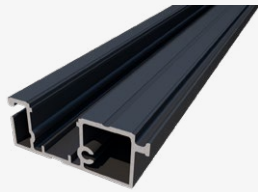
ENVIROBUILD

CLIPLESS SYSTEM & DRAINAGE COMPONENTS

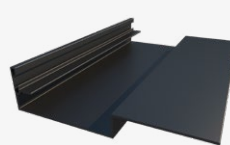
Decking Board



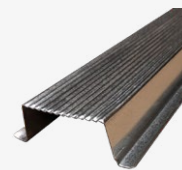
Start / End Profile



Side Drainage Trim



Steel Channel
(Butt Joint Insert)



Flush Insert



Appearance:
Continuous decking

Gap Insert



Appearance:
150 mm wide decking

Threshold Drainage with
Threshold Drainage Cover



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COMPONENT BREAKDOWN

How the pieces come together:

KEY



Light Grey:
Inserts

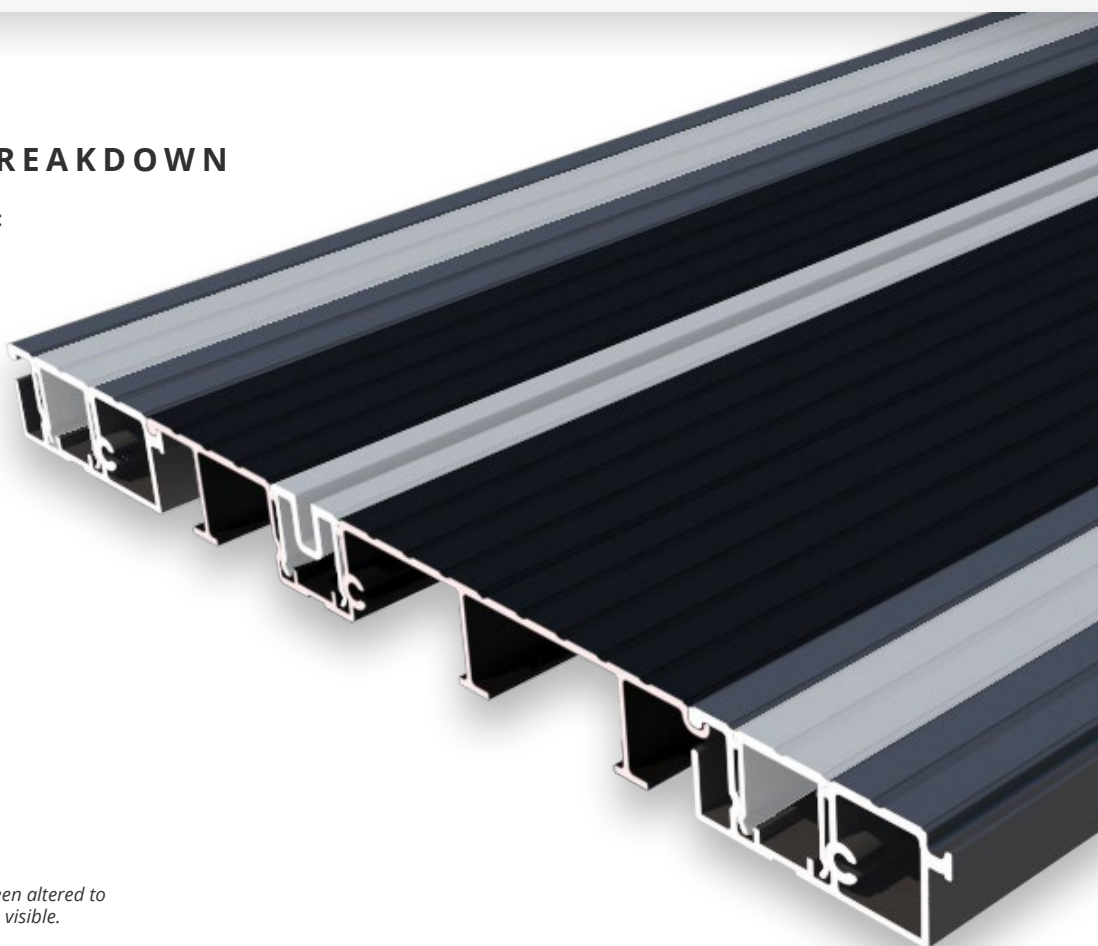


Mid Grey:
Trims



Dark Grey:
Decking Board

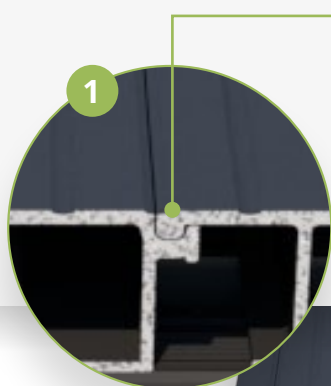
Note: The colours in the image have been altered to make the individual components more visible.



150 AQUA-CHANNEL UP-CLOSE DETAILS

The patented 150 Aqua-Channel system has a number of features which have been engineered especially for ease-of-use, water resistance and durability.

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Ball Joint

150 Aqua-Channel boards fix together via a simple ball joint. This allows any single board to be removed with ease, perfect for maintenance or to help with crange.



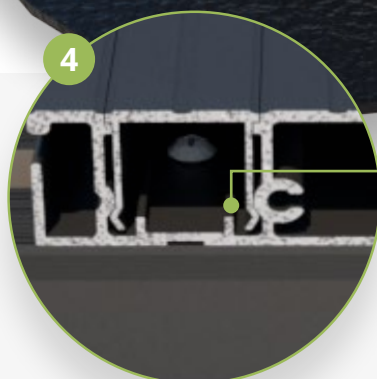
Water-Resistant Inserts

The gaps between the screw channel and their inserts are designed to mitigate even the capillary effect of water.



Screw Boss

150 Aqua-Channel boards and Start/End profiles have a screw boss built into their profiles. This can be used for mounting fascia plates to the system.



Screw-Protecting Water-Flow

The screw channels on 150 Aqua-Channel deck boards keep water away from the screws using vertical sections to direct water-flow.



Cut Deck Boards on any Groove

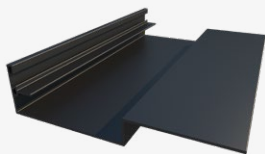
With 150 Aqua-Channel deck boards, you have the ability to cut anywhere using the grooves, spaced at 10 mm. The board will still be strongly supported by the Start/End profile as well as the asymmetric design of the fixing area (and the asymmetric feet).

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150 Aqua-Channel is also the only IP tested system in the UK and achieved IP56.

150 AQUA-CHANNEL BUILT-IN DRAINAGE SYSTEM

Side Drainage Trim



Aqua Channel Drain



Threshold Drainage Cover



Threshold Drainage with Threshold Drainage Cover



150 Aqua-Channel boards create a continuous surface, with patented interlocking attachments and drainage channels which are designed to even mitigate the capillary effect. The boards are installed at an angle, forcing liquids down the continuous deck (with flush inserts) or down grooves (with gap inserts) where it can be collected by the drainage system.

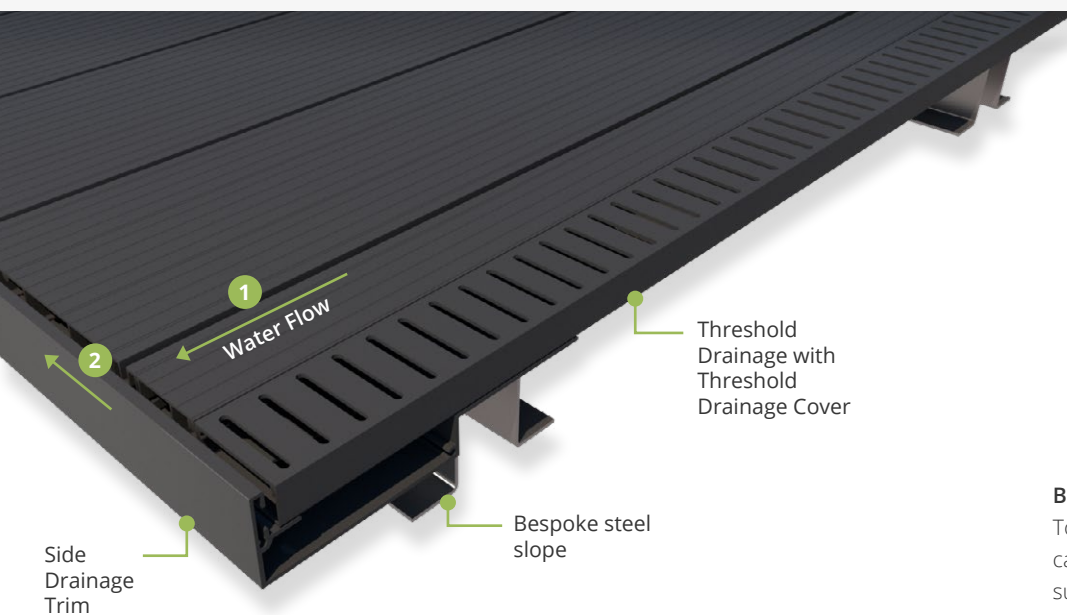
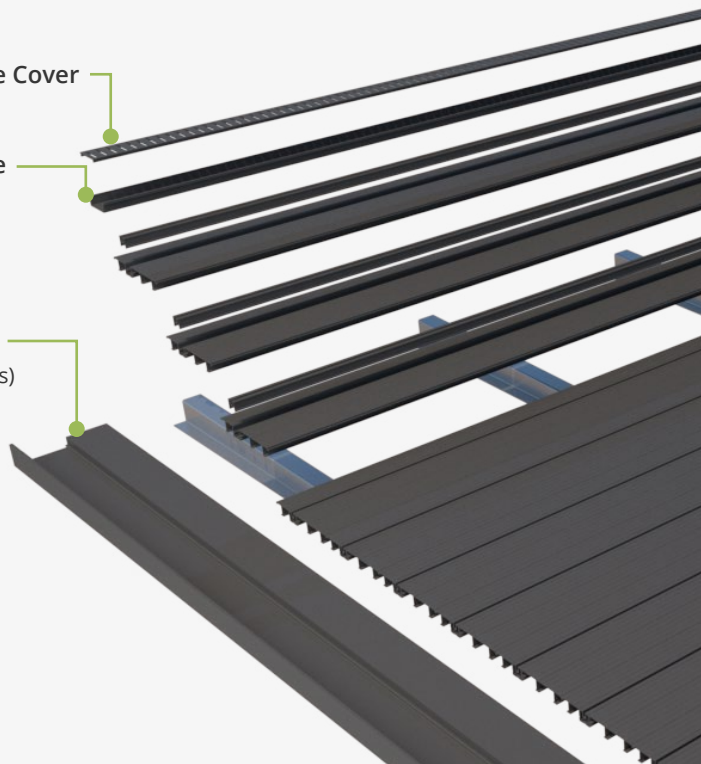
This means that a soffit isn't necessary in all designs, allowing the overall balcony cost to be reduced. This drainage system is compatible with both steel beams or pedestals.

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Threshold Drainage Cover

Threshold Drainage
(Laid by the door)

Side Drainage Trim
(Laid at the boundaries)



Side Drainage Trim

Threshold Drainage with Threshold Drainage Cover

Bespoke steel slope

Bespoke Steel Slopes

To allow for drainage, EnviroBuild can provide a bespoke steel substructure for 150 Aqua-Channel systems, compliant with BS 8579 regulations.

1 Water flows along the deck boards and drops into the drainage trims at the perimeters.

2 The water is then positively drained along the drainage trim and then off the edge of the building as per BS 8579 standard.

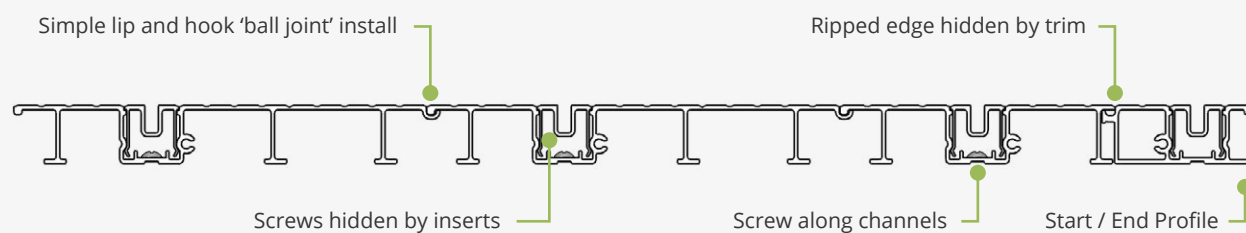
FLUSH INSERTS

Appearance:
Continuous decking

10

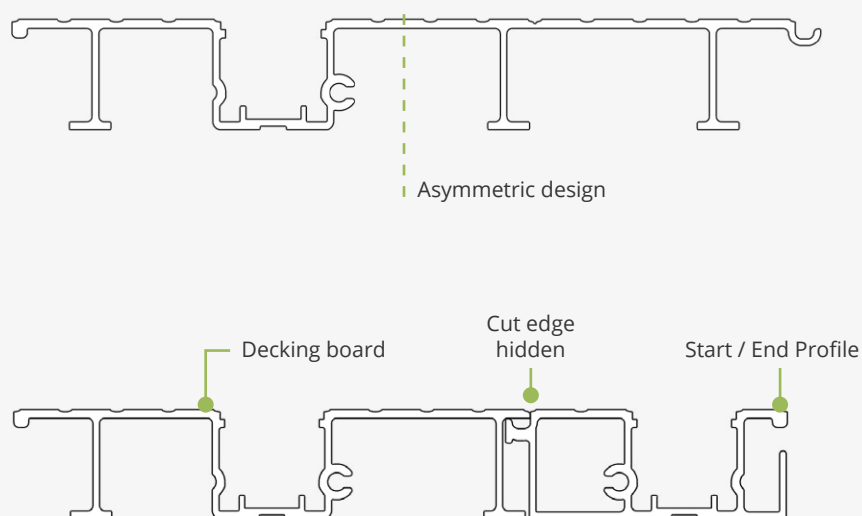
GAP INSERTS

Appearance:
Gaps every 150 mm



CUTTING 150 AQUA-CHANNEL TO SIZE IS SIMPLE

- The asymmetry of 150 Aqua-Channel boards gives you the ability to cut anywhere, using the grooves, spaced at 10 mm.
- The board will remain strongly supported due to the asymmetric feet and the Start/End profile.
- The Start/End profile and the pattern design of the boards will also perfectly hide the cut edge.
- If the channel were not offset, ripping particular widths would require more than one board to be ripped. With this system, a maximum of one board will ever need to be ripped.



145 PRO-GRIP

By HYPERION®

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MAIN FEATURES

- Cost-effective
- Easy to install clip-system
- Ability to remove one board easily, good for replacing boards or for ease of crantage of finished balconies
- No pre-drilling required (with MESA aluminium joists)
- Qualicoat certified powder coating
- A2_{fl} and A2-s1, d0 tested
- Custom colour and length options

6 mm gaps are compliant with BS 8579 for systems draining through a soffit.

Watch the 145 Pro-Grip assembly and information video by scanning the QR code.

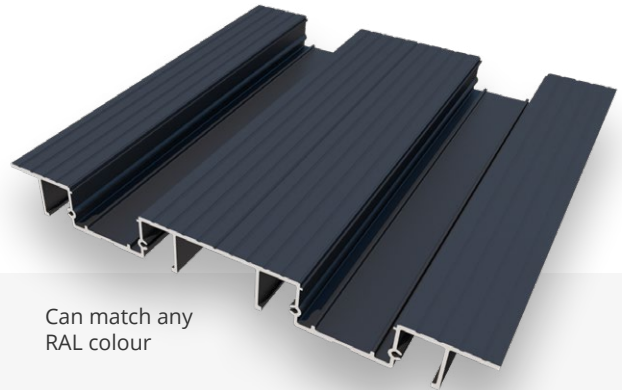
CLIP SYSTEM



Scan Me

STRONG-SPAN

By HYPERION®



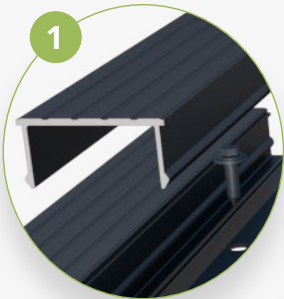
Can match any
RAL colour

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WHAT IS STRONG-SPAN?

- Designed specifically for retrofitting onto steels
- Ability to drain water
- Can span up to 1200 mm
- 300 x 30 mm aluminium deck board
- Strong-Span is the only board on the market which allows for cutting while still sitting within structural limits
- 2 removable inserts per board
- Passes comfort deflection requirement of <5 mm as per BS8579, deflection of 1/300 (with a 2 kN point load)
- At half width (150mm) deflection is 1/150 but deflects up to 9 mm under point load
- 1/80 fall recommended to prevent water settling on board

WHY USE STRONG-SPAN DECK BOARDS?



1

Ability to Bolt to Thicker Steels

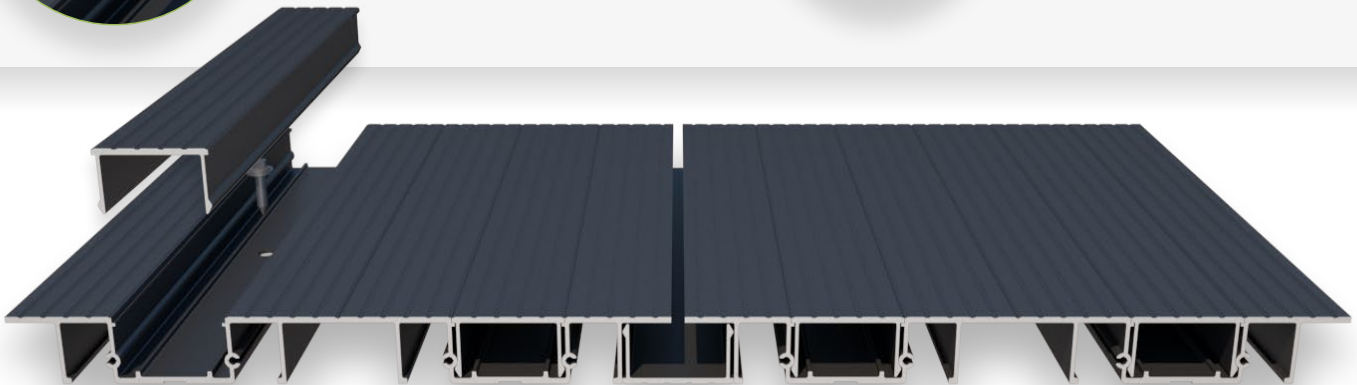
Strong-Span boards have 2 channels for bolting to larger steel beams. With the Strong-Span system, any bolts up to M20's can be used. Any single board can be removed easily.



2

Seamless Finish (Even With Inserts)

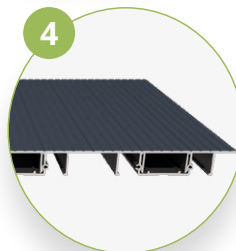
Strong-Span boards have an Aqua-channel texture to hide insert lines and allow drainage without slopes.



3

Inserts as Drainage Channels

Optionally, wide-span deck board inserts can double as drainage channels with 6 mm gaps. The inserts can simply be flipped and placed between two Strong-Span deck boards.



4

Comfortably Cut To Size

Can be ripped to 150mm wide and still pass the 2kn point load requirement at 1.25m span, as per BS EN 1991-1-1.



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QUALICOAT ON ALL HYPERION ALUMINIUM DECKING

Powder coating enhances the contemporary appearance of the aluminium board, as well as adding an important layer of protection to its outer surface. Hyperion aluminium decking has been engineered in conjunction with the powder coating manufacturer to create a powder with a much higher slip resistance, meaning the boards have exceptional wet slip resistance compared to off-the-shelf architectural powder coatings.

Hyperion aluminium decking coating is Qualicoat certified. Qualicoat is the industry leading quality label scheme valid worldwide, whereby the manufacturing process has to meet particular standards which are inspected and tested by laboratories accredited to ISO 17025.



Thickly Coated

At 60-80 microns, the coating on these boards is thicker than the Qualicoat Accreditation standard.



High Quality

Manufactured by AkzoNobel, the coating on these aluminium boards is reliable, durable and of the highest possible quality. AkzoNobel was the first to offer an environmental product declaration and meets stringent Qualicoat Class 1 requirements.



Anti-Slip

Both the powder coated and mill finishes are tested to be low slip. 145 Pro-Grip maintains its anti-slip properties even without a coating.



Long Lasting

The Qualicoat Class 1 standard ensures a high level of durability required for long term outdoor use products. In the event that damage occurs, matching touch up pens are available in every colour.



EASY INSTALLATION AND BOARD REMOVAL

These boards are easy to lift and move, and are assembled quickly. Individual boards can always be removed or replaced without disturbing those installed around them. This is particularly useful for craning of finished balconies, minimising the work required on site.

FLAT ROOF SYSTEM: 150 **AQUA-CHANNEL**

Designed to meet the needs of a wide variety of both commercial and residential spaces this non-combustible fire rated system uses adjustable steel pedestals, aluminium joists and protective rubber membranes to provide security, strength & adaptability where it is needed most.

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150 **AQUA-CHANNEL** ON FLAT ROOF SYSTEM

Prices for a 3.6 x 1.7 m deck:

No Substructure **£99.69/m²**

+ Substructure **£144.83/m²**

Gap Insert

Snaps into place and gives the appearance of 150 mm wide decking.

Flush Insert

Snaps into place and gives the appearance of a continuous deck.

Protective Rubber Membrane

A secure base to support pedestals whilst protecting roofing membranes.

Start / End Profile

Screwed along its channel, making clips unnecessary.

HYPERION®

150 **Aqua-Channel** Aluminium Deck Boards
Beautifully engineered non-combustible & low slip decking.

MESA®

Aluminium Joist
The perfect low profile & non-combustible joist.

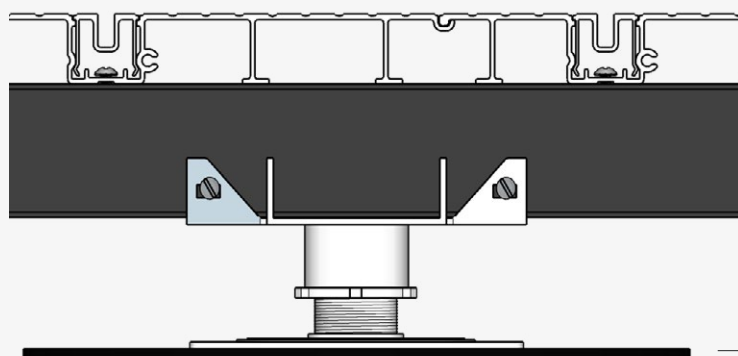
MESA®

Adjustable Steel Pedestal

Twist to adjust levels on uneven or sloping surfaces with minimal effort for fast and effective installation.

Cross Section: 150 Aqua-Channel on Flat Roof System

Total Height: 69 - 604 mm var.



21 mm

Aluminium Decking

20/40/80 mm

Aluminium Joist

25-500 mm

Adjustable Steel Pedestal

Protective Membrane



HYPERION[®] D E C K I N G

FLAT ROOF SYSTEM: 145 PRO-GRIP

Flat Roof System Features

- A-Class to EN13501-1
- Total variable height range: 69-604 mm
- System weight: ~11-19 kg/m²

Suitable for

- Any surfaced area which requires a non-combustible decking system
- All commercial balconies & terraces
- Lightweight balcony areas

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145 PRO-GRIP ON FLAT ROOF SYSTEM

Prices for a 3.6 x 1.7 m deck:

No Substructure **£83.22/m²**

+ Substructure **£128.35/m²**

Protective Rubber Membrane

A secure base to support pedestals whilst protecting roofing membranes.

HYPERION[®]

145 PRO-GRIP Aluminium Deck Boards
Beautifully engineered non-combustible & low slip decking.

MESA[®]

Aluminium Joist

The perfect low profile & non-combustible joist.

6 mm Clips

Specified for quick & secure installation on aluminium joists.

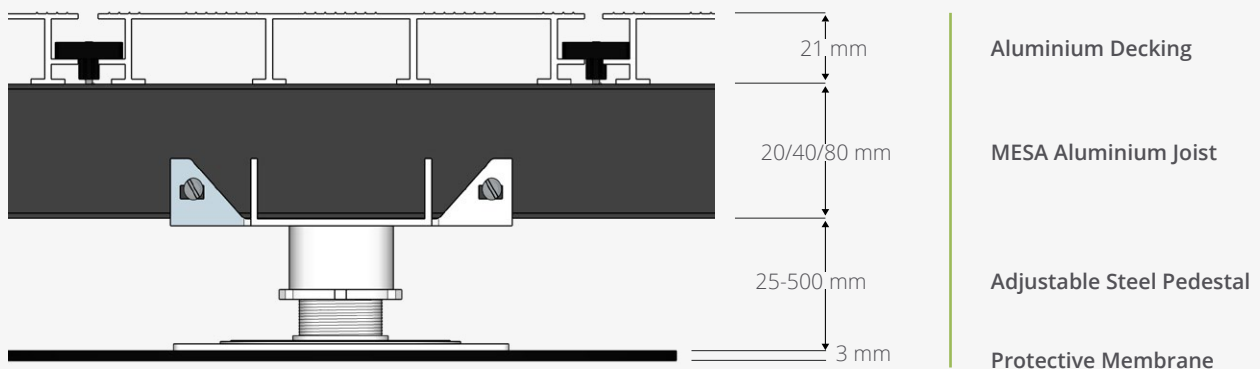
MESA[®]

Adjustable Steel Pedestal

Twist to adjust levels on uneven or sloping surfaces with minimal effort for fast and effective installation.

Cross Section: 145 Pro-Grip on Flat Roof System

Total Height: 69 - 604 mm var.



OPEN STEEL BALCONIES: 150 **AQUA-CHANNEL**

Engineered with security and simplicity in mind. This A-Class fire rated decking system makes creating beautiful and non-combustible decking spaces an efficient and time saving option. 150 Aqua-Channel has the ability to use screws suitable for thick steel beams.

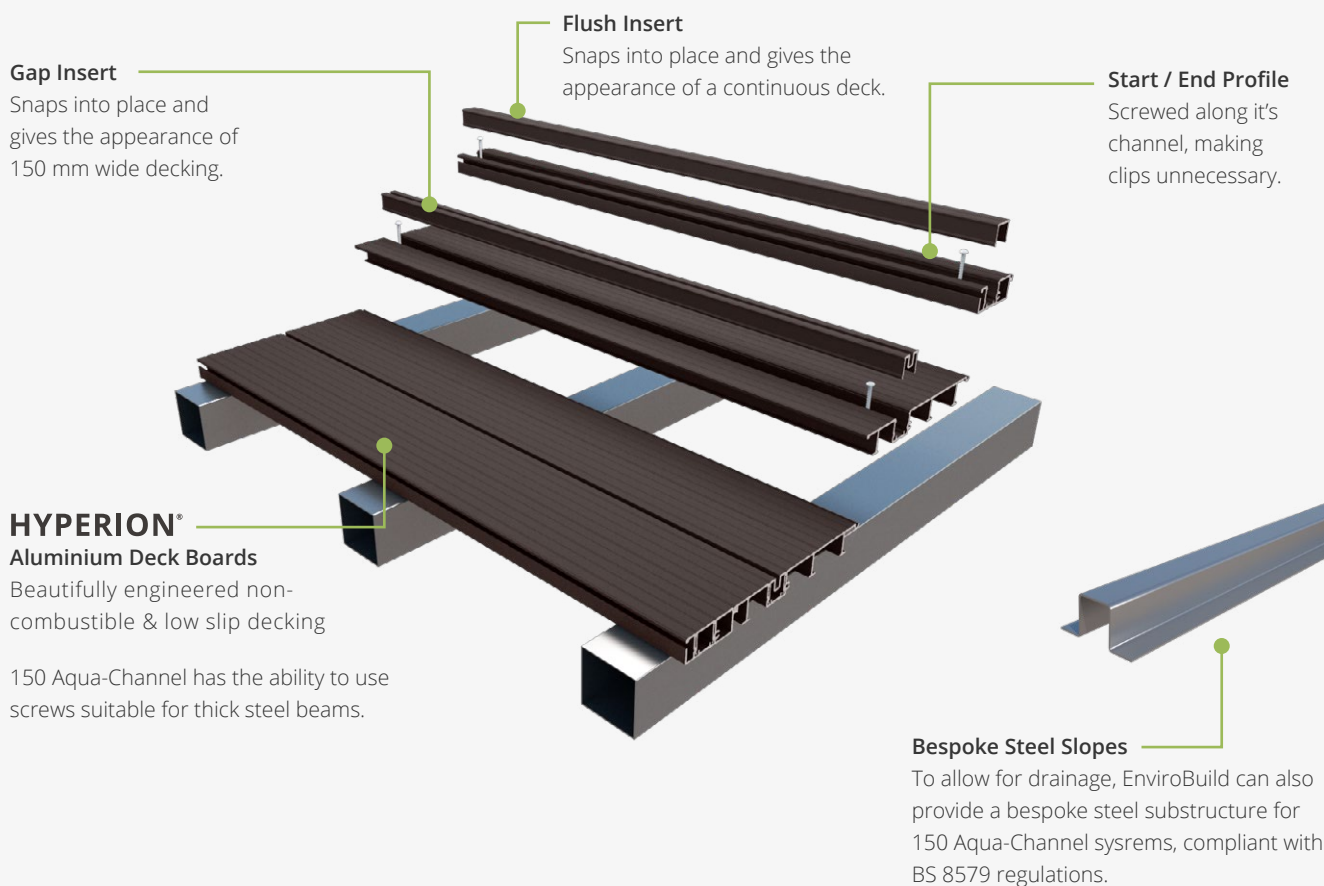
EnviroBuld can provide a bespoke steel slope substructure for 150 Aqua-Channel systems, compliant with BS8579 requirements. (See Page 2 for a description on BS8579 regulations).

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Prices for a 3.6 x 1.7 m deck:

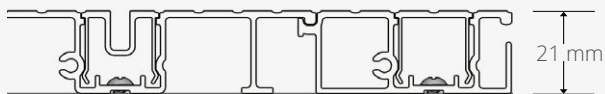
£99.69/m²

150 **AQUA-CHANNEL** ON OPEN STEEL BALCONIES



Cross Section: 150 Aqua-Channel on Open Steel Balcony System

Total Height: 21 mm



Aluminium Decking

- Creates a directional fall (default 1:80 fall, however they can be made to any angle)
- Can be worked to a minimum height of 25 mm
- Simple installation: slopes bolted directly onto balcony steels through the flat areas

HYPERION[®] D E C K I N G

OPEN STEEL BALCONIES: 145 **PRO-GRIP**

Features

- A-Class to EN13501-1
- Fixed height: 21 mm
- System weight: ~8 kg/m²
- 150 Aqua-Channel can have continuous decking appearance or a gap every 150 mm
- Max 4 mm steels tolerance, therefore +/- 2 mm
- Single boards can be removed easily when craning a balcony or where damage may occur

Suitable for

- All commercial balconies & terraces with steel beam support structures
- Quick & simple installation
- Lightweight balcony areas

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Prices for a 3.6 x 1.7 m deck:

£83.22/m²

145 **PRO-GRIP** ON OPEN STEEL BALCONIES

HYPERION[®]

Aluminium Deck Boards

Beautifully engineered non-combustible & low slip decking.

Aluminium Edge Support

support and cover the cut edge of a ripped deck board.

Starter Clips

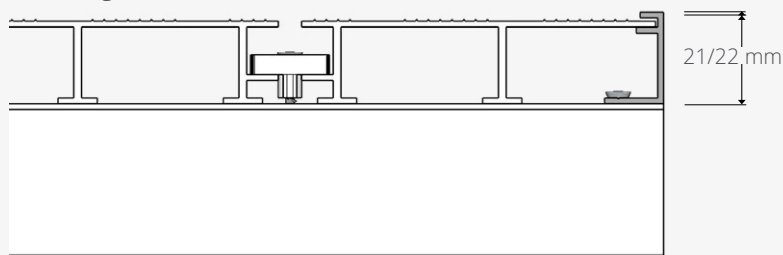
Simple installation system.

6 mm Clips

6 mm clips can be attached into aluminium joists or steel up to 3 mm thick. For thicker steel sections we advise a 20 mm aluminium joist under the decking laid on top of the steels.

Cross Section: 145 Pro-Grip on Open Steel Balcony System

Total Height: 22 mm



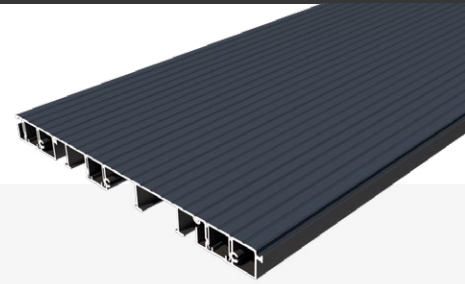
Aluminium Decking
Edge Bar

HYPERION®

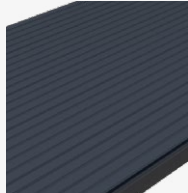
150 AQUA-CHANNEL SPECIFICATION

HYPERION®
D E C K I N G

150 **AQUA-CHANNEL**



Bespoke lengths
and colours available.



Anthracite Grey
7016



Grey Brown
8019

SPECIFICATION

Length	3.6m boards
Profile	150 x 21 mm
Weight	9.57 kg/m ² (Using gap insert)
Reaction to Fire	A2 s1 d0 and A2 _{fl} - s1
Slip Resistance	BS EN 14231 - DRY 52 WET 46 (flush insert) WET 47 (gap insert) (ptv - low slip potential)
Warranty	Up to 30 years
Material	T6 6063 Aluminium
Finish	Powder coated
Fixtures	MESA Self-drilling Countersunk Screws (no clips needed)
Rz Value	21

SPAN TABLE (M)

		Deflection Allowed		
		1/200	1/360	1/480
kN/m ²	2.5	0.70	0.70	0.65
	4	0.70	0.60	0.55
	5	0.65	0.55	0.50

Note: BS 8579 suggests a maximum
deflection of 6 mm

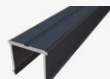
SYSTEM PARTS



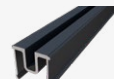
Start / End Profile
Fixed using screws
which are hidden
with an insert



Decking Board
Groove for flat or
gap insert



Flush Insert
Gives the look
of continuous
decking



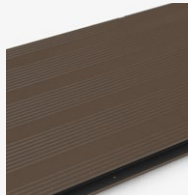
Gap Insert
Gives the look
of 150 mm wide
decking

HYPERION®

145 PRO-GRIP SPECIFICATION

HYPERION®
D E C K I N G

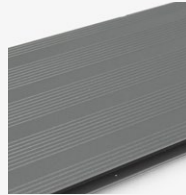
145 PRO-GRIP



Sepia Brown
8014



Grey Brown
8019



Dusty Grey
7037



Anthracite Grey
7016



Bespoke lengths
and colours available.

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SPECIFICATION

Length	3.6m boards
Profile	145 x 21 mm
Weight	8.55 kg/m ²
Reaction to Fire	A2 s1 d0 and A2 _{fl} - s1
Slip Resistance	BS EN 14231 - DRY 67 WET 47 (ptv - low slip potential)
Warranty	Up to 30 years
Material	T6 6063 Aluminium
Finish	Powder coated
Fixtures	6 mm clips
Rz Value	25

SPAN TABLE (M)

		Deflection Allowed		
		1/200	1/360	1/480
kN/m ²	2.5	0.70	0.70	0.65
	4	0.70	0.60	0.55
	5	0.65	0.55	0.50

Note: BS 8579 suggests a maximum deflection of 6 mm

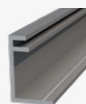
ACCESSORIES



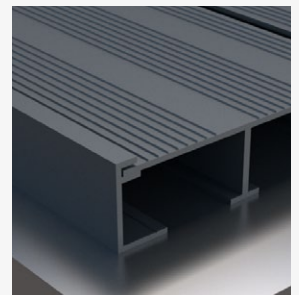
6 mm Clips
Specified for quick & secure installation



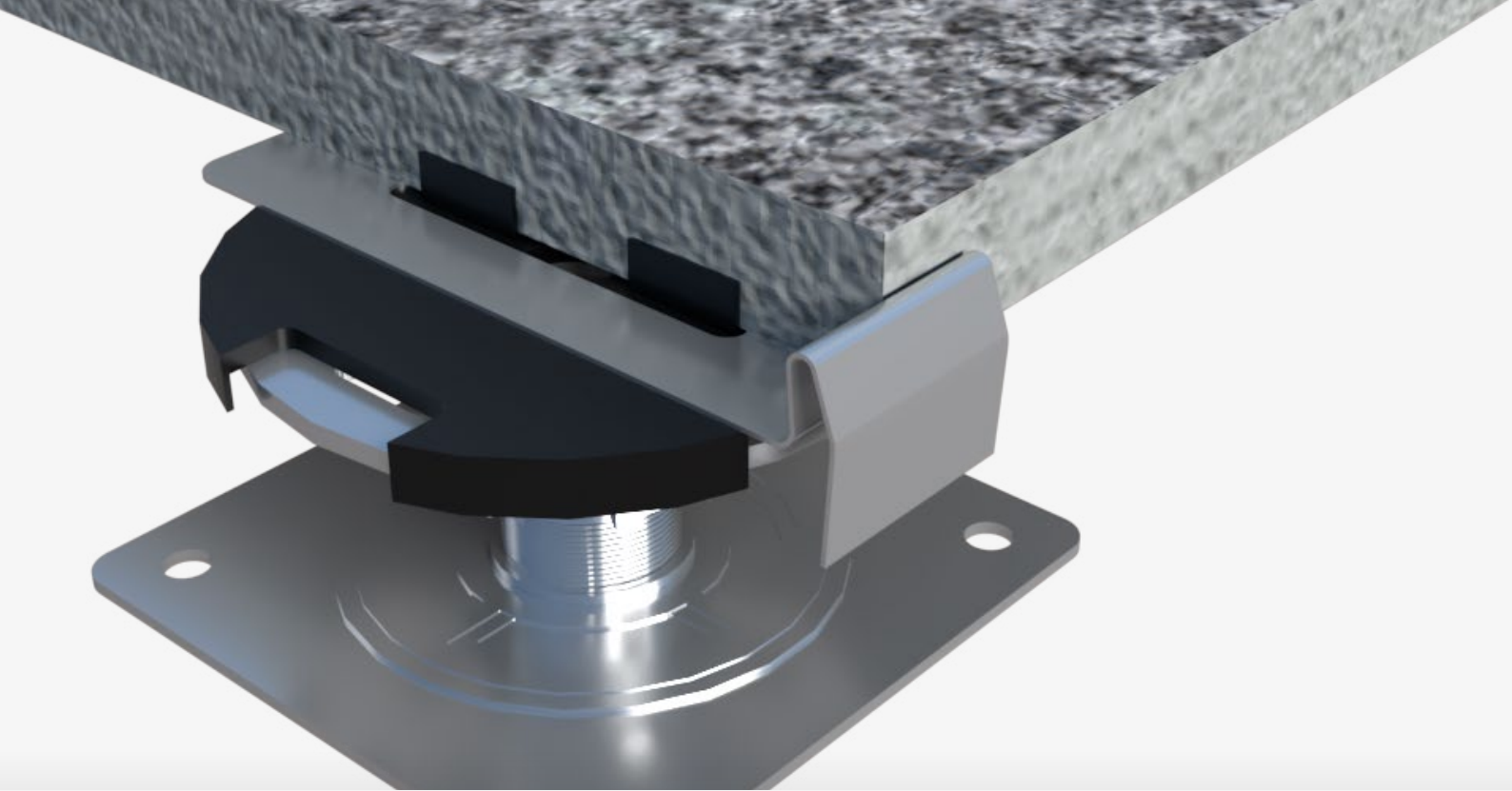
Starter/End Clips
Secure laying throughout installation



Aluminium Edge Support
Support length where board has been trimmed



Aluminium Edge Support on deck board



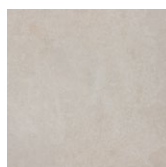
— NON-COMBUSTIBLE —
PORCELAIN PAVING SYSTEMS



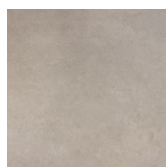
ITALIAN PORCELAIN

ERGO

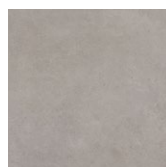
The polished concrete finish of Ergo is timeless and complements both traditional and contemporary settings effortlessly. Each tile is unique with bespoke veins and patterns delivering luxurious natural beauty.



AMMONITE



SAND



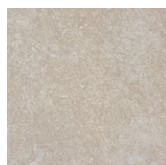
IRON



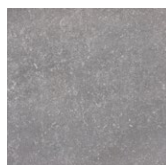
21

LUNA

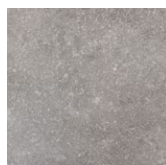
Classic stone is given movement and a modern lift with a gently mottled and textured finish. Luna tiles are elegant and unique with an earthy, organic feel.



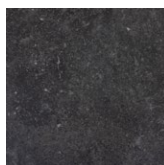
LIMESTONE



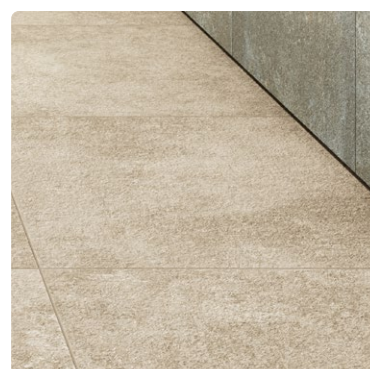
SILVER



FLINT

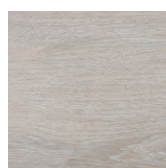


GRAPHITE

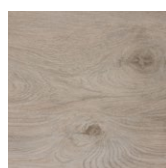


ARBOREO

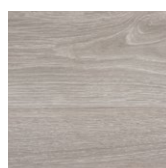
The Arboreo collection brings the restorative tranquillity of an Italian alpine forest into your outdoor space. Combining an authentically crafted wood effect with the practicality of porcelain, every tile is made unique and radiates natural beauty.



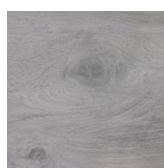
WILLOW



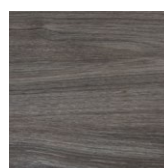
MAPLE



BIRCH



ASH

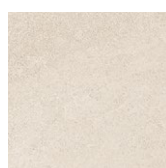


CHESTNUT

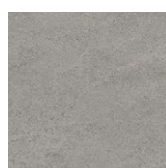


CERES

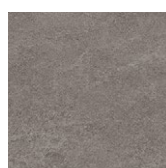
Ceres transforms classic slate into contemporary porcelain to achieve a simple and tasteful setting. Each tile extends an indoor space to the outdoors with its unique and naturally varied surface.



UMBER



PEBBLE



BASALT



SLATE



NON-COMBUSTIBLE PORCELAIN FLAT ROOF SYSTEM

FLAT ROOF PORCELAIN SYSTEM

Designed to meet the needs of a wide variety of both commercial and residential spaces this non-combustible fire rated system uses gaskets with adjustable steel pedestals and slip-proof rubber membranes to provide security, strength & adaptability where it is needed most.

Features

- A-Class to EN13501-1
- Total variable height range: 51 - 526 mm
- System weight: ~46-52 kg/m²
- 2 mm perfect spacing
- Membrane protection

Suitable for

- Any surfaced area that requires a non-combustible paving system
- Recessed commercial balconies & terraces

ITALIAN PORCELAIN

Paving

Beautifully crafted paving slabs made with 40% recycled materials.

MESA

Adjustable Steel Pedestal

Twist to adjust levels on uneven or sloping surfaces with minimal effort for fast and effective installation.

MESA

2.5mm Paving Spacer Gasket - 4 Way

Allows uniform positioning and spacing of paving slabs. Holds suspended paving systems securely in place.

Prices for a 3.6 x 1.7 m area:

No Substructure

£51.34/m²

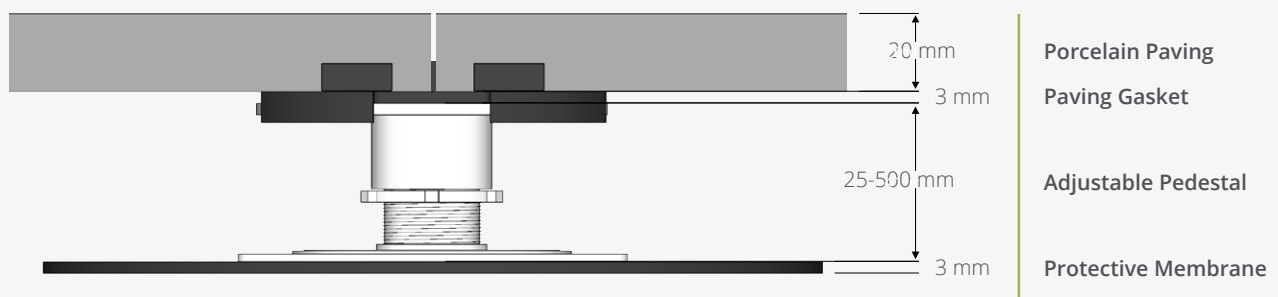
+ Pedestals & Edge Bars

£83.86/m²



Flat Roof System Cross Section

Total Height: 51 - 526 mm var.



NON-COMBUSTIBLE PORCELAIN OPEN STEEL BALCONY SYSTEM

GRATED BALCONY SUPPORT PORCELAIN SYSTEM

Engineered with security and simplicity in mind this non-combustible fire rated paving system makes creating beautiful and non-combustible paving spaces an efficient and time saving option.

Features

- A-Class to EN13501-1
- Total fixed height: 24 mm
- System weight: ~46 kg/m²
- 2 mm perfect spacing

Suitable for

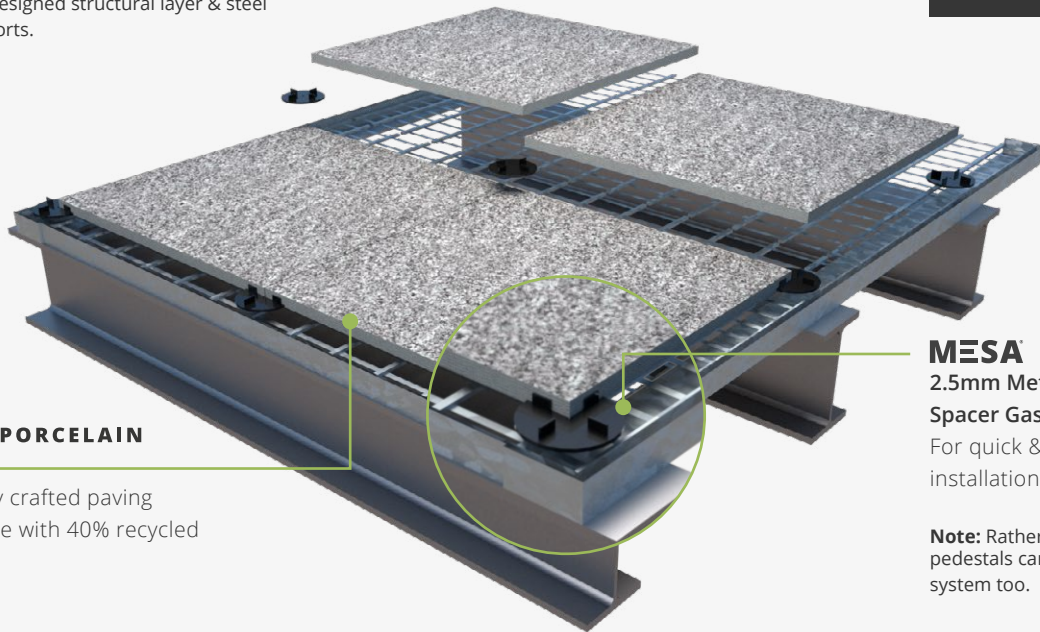
- All commercial balconies & terraces with steel beam support structures
- Quick & simple installation

Porcelain should not be used structurally, and the fabricator should construct a structural layer beneath

Note: This system must be laid upon a fabricator designed structural layer & steel beam supports.

ITALIAN **PORCELAIN** Paving

Beautifully crafted paving slabs made with 40% recycled materials.



Prices for a 3.6 x 1.7 m area:

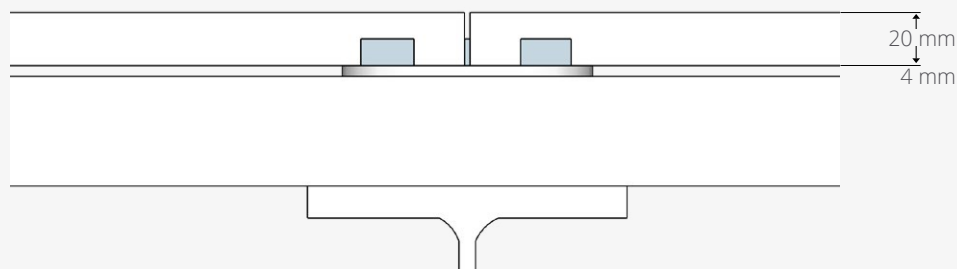
No Substructure

£51.34/m²

MESA
2.5mm Metal Paving
Spacer Gasket - 4 Way
For quick & secure
installation.

Note: Rather than use a gasket, pedestals can be used with this system too.

Open Steel Balcony System Cross Section Total Height: 24 mm (from structural grate layer)



Porcelain Paving
Paving Gasket

Got any questions?

Call our expert team on
+44 (0) 203 959 1220

NON-COMBUSTIBLE PORCELAIN WIND UPLIFT SYSTEM

PEDESTAL & JOIST PORCELAIN SYSTEM

Building on fixed height systems, this system adds adjustable steel pedestals to give total control over the height and slope of the structure. MESA Non-Combustible Adhesive can be supplied to meet wind uplift standards.

Features

- A-Class to EN13501-1
- Total fixed height: 53 - 603 mm
- System weight: ~48-54 kg/m²
- 2 mm perfect spacing

Suitable for

- Systems needing to meet wind uplift rating requirements
- Any surfaced area that requires a non-combustible & slope correcting paving system
- Systems that need to account for or create a drainage slope

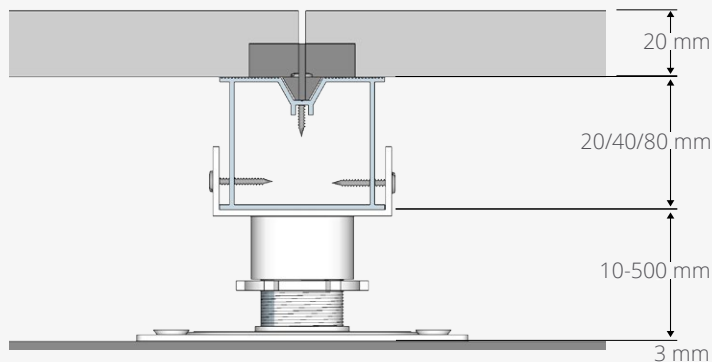
Prices for a 3.6 x 1.7 m area:

With Substructure **£97.58/m²**



Wind Uplift System Cross Section

Total Height: 33 - 583 mm var.



Porcelain Paving

Aluminium Joist

Adjustable Cradle

Protective Membrane



ENVIROBUILD

PREVENTING WIND UPLIFT

Non-Combustible Adhesive by MESA is an A2 fire rated epoxy adhesive. The adhesive holds the paving slabs to the joists beneath, preventing the uprooting of slabs in the event of very strong winds.



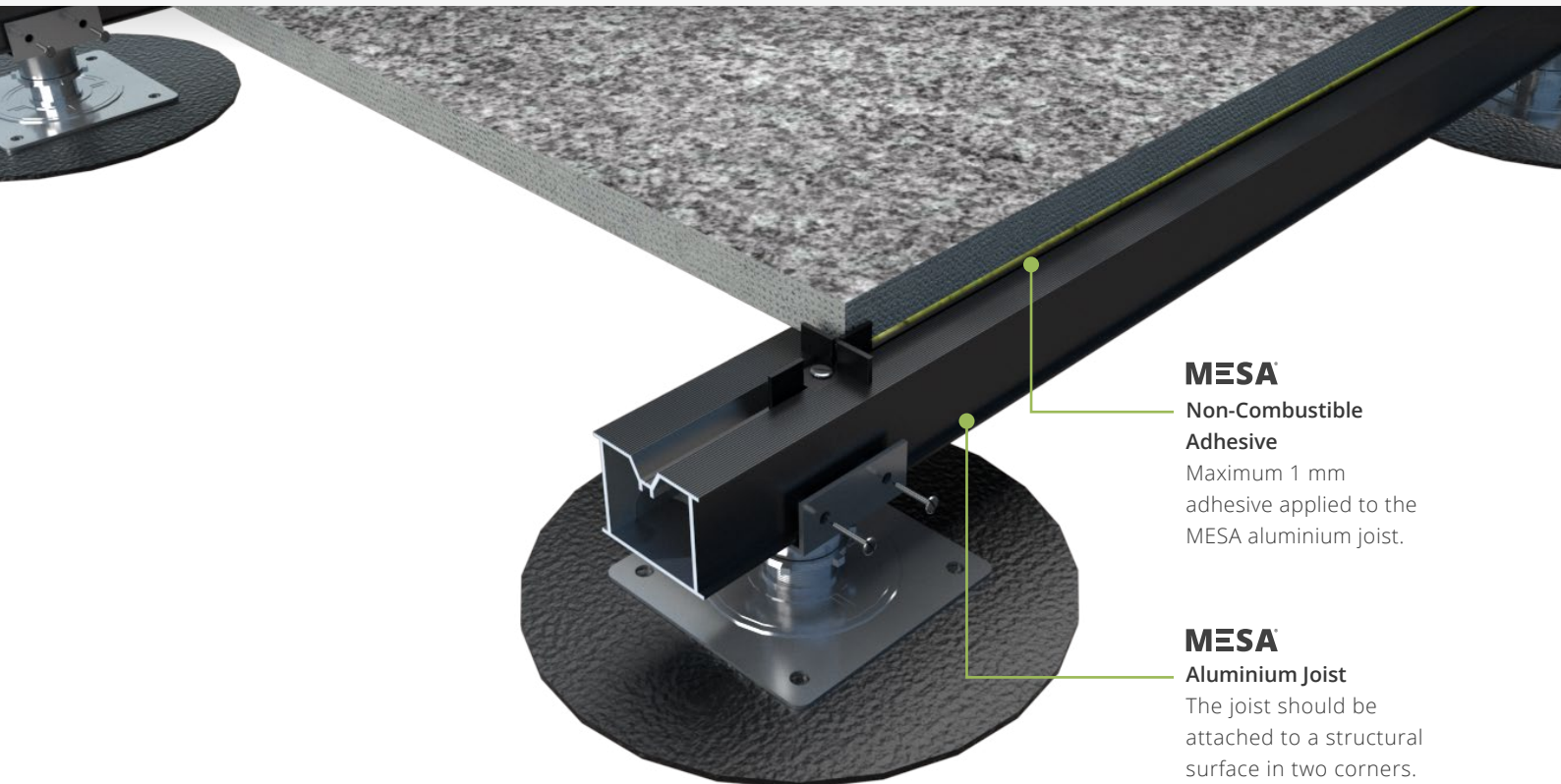
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PULL TEST RESULTS

Paver Type	Result
600x600	9.4 kN/m ²
800x800	14.2 kN/m ²
1200x400 (long edge)	14.2 kN/m ²
1200x400 (short edge)	9.4 kN/m ²

Information

- MESA Non-Combustible Adhesive comes in 2 parts. These need to be mixed in order to activate.
- Part 1 and Part 2 should be mixed in a 1:1 ratio.
- The mixed adhesive should be applied to joists at a maximum thickness of 1 mm.
- Protective gloves/clothing/eye protection/face protection should be worn.



MESA[®]

Non-Combustible Adhesive

Maximum 1 mm adhesive applied to the MESA aluminium joist.

MESA[®]

Aluminium Joist

The joist should be attached to a structural surface in two corners.

NON-COMBUSTIBLE ITALIAN PORCELAIN PAVING

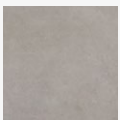
ITALIAN PORCELAIN

Italian paving tiles fuse the practicality of porcelain with authentic and sophisticated stone, wood and concrete finishes. Each tile is made with 40% recycled material and produced using energy from renewable sources.



Reaction to Fire	A1
Slip Resistance	BS EN 14231 - DRY 67 WET 49 (ptv low slip potential)
Material	Porcelain (40% recycled)
Warranty	10 years structural
Finish	Lithographic stone & wood
Rz Value	41

SPECIFICATION

Range	Size (mm)	Profile (mm)	Support Spacing	Tile Type	Slip Rating	Weight Per tile (kg)	Water Absorption	Recycled Content	Quantity per pack (tiles)	m² Per Pack
ERGO 	595 x 595	20 mm	600 mm	Solid Italian Porcelain	R11 & >36 Low Slip Potential	16.2 kg	0.03%	40%	x2	0.72
LUNA 	595 x 595	20 mm	600 mm	Solid Italian Porcelain	R11 & >36 Low Slip Potential	16.2 kg	0.03%	40%	x2	0.72
ARBOREO 	397 x 1195	20 mm	600 mm	Solid Italian Porcelain	R11 & >36 Low Slip Potential	21.7 kg	0.03%	40%	x1	0.48
CERES 	595 x 595	20 mm	600 mm	Solid Italian Porcelain	R11 & >36 Low Slip Potential	16.1 kg	0.06%	40%	x2	0.72

A range of colours are also available in 800x800 mm on request

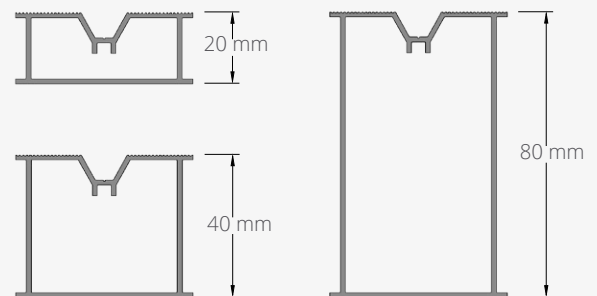
Full installation guides are available at www.envirobuild.com

MESA[®] ALUMINIUM JOISTS

The perfect low profile, fully recyclable, non-combustible joist for your decking and paving substructure.



Height	20, 40, 80 mm available
Dimensions	50 mm x 3600 mm
Reaction to Fire	A2 - s1 d0
Material	T6 - 6063 aluminium alloy
Fixings	MESA Self-drilling Countersunk Screws available (No pre-drilling required)
Finish	Powder coat - Jet Black 9005
Features	Central channel for flush fixing



SPECIFICATION

	Product	Profile Diameter (mm)	Size Options	Colour	Maximum Span (mm)
	20x50 mm MESA Aluminium Joist	50	20 mm	Black	400
	40x50 mm MESA Aluminium Joist	50	40 mm	Black	600
	80x50 mm MESA Aluminium Joist	50	80 mm	Black	1200

SPAN TABLES (M)

20x50 mm

		Deflection Allowed		
		1/200	1/360	1/480
kN/m ²	2.5	0.80	0.65	0.60
	4	0.65	0.55	0.50
	5	0.60	0.50	0.45

40x50 mm

		Deflection Allowed		
		1/200	1/360	1/480
kN/m ²	2.5	1.40	1.15	1.05
	4	1.20	0.95	0.90
	5	1.10	0.90	0.80

80x50 mm

		Deflection Allowed		
		1/200	1/360	1/480
kN/m ²	2.5	2.40	2.00	1.80
	4	2.10	1.70	1.55
	5	1.95	1.60	1.45

PEDESTAL ACCESSORIES

Easy to use accessories to complete non-combustible systems.

- Gaskets, membranes, spacers & fixings are excluded from all non-combustible UK legislation and are therefore compatible with all A-Class systems



Protective Membrane

Protects roofing membrane.



MESA 2.5 mm Paving Spacer Gasket - 4 Way

2 or 4-way metal gaskets for quick and perfect paving spacing. Fins are removable.
(Metal gaskets can also be used)



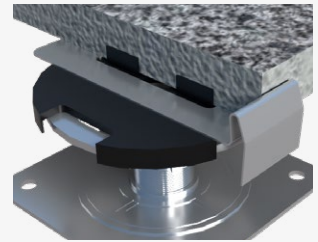
2.5 mm Paving Spacers

For MESA joists



MESA Paving Edge Bar

Secure paving slabs to support pedestals.



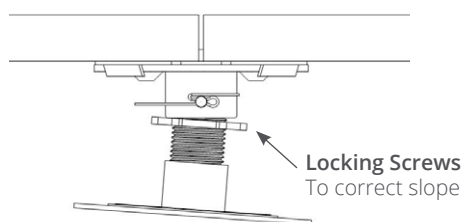
MESA Paving Edge Bar used to secure the perimeter of the paving area

NON-COMBUSTIBLE ADJUSTABLE STEEL PEDESTALS

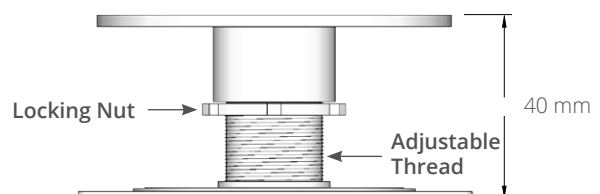
New external steel MESA pedestals support loads of up to 1000 kg, making them the most robust support systems in the market. With adjustable heights ranging from 25-500 mm by a simple rotation of the head, these supports make even the most challenging installations cost & time effective.

- 25 - 500 mm adjustable height range
- A-Class fire rated
- Flat Pedestal, Slope Correcting Pedestal and Joist Pedestal options available
- 20 year limited warranty
- Easy-fit accessories
- Easy Slope Correction

Slope Correcting System



Simple Rotate to Adjust System



MESA[®]

S U P P O R T

ADJUSTABLE STEEL PEDESTALS

SPECIFICATION

With a range spanning from 25 - 500 mm and flat pedestal, slop correcting pedestal and joist pedestal options available, MESA external steel supports provide the perfect foundation for any situation.

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Product	Base LxW (mm)	Head Diameter (mm)	Adds Height (mm)	SKU Code
MESA Outdoor Steel Flat Pedestal (25-500 mm)				
MESA Outdoor Steel Flat Pedestal 25 - 35 mm	100x100	90	25-35	PA-SP-M-25
MESA Outdoor Steel Flat Pedestal 30 - 40 mm	100x100	90	30-40	PA-SP-M-30
MESA Outdoor Steel Flat Pedestal 40 - 50 mm	100x100	90	40-50	PA-SP-M-40
MESA Outdoor Steel Flat Pedestal 50 - 70 mm	100x100	90	50-70	PA-SP-M-50
MESA Outdoor Steel Flat Pedestal 60 - 90 mm	100x100	90	60-90	PA-SP-M-100
MESA Outdoor Steel Flat Pedestal 90 - 150 mm	100x100	90	90-150	PA-SP-M-90
MESA Outdoor Steel Flat Pedestal 150 - 280 mm	100x100	90	150-280	PA-SP-M-150
MESA Outdoor Steel Flat Pedestal 280 - 500 mm	100x100	90	280-500	PA-SP-M-280
MESA Outdoor Steel Slope Correcting Flat Pedestal (45-480 mm) 0-5 degree				
MESA Steel Slope Correcting Pedestal 45-55 mm	100x100	90	45-55	PA-SP-M-45
MESA Steel Slope Correcting Pedestal 55-70 mm	100x100	90	55-70	PA-SP-M-55
MESA Steel Slope Correcting Pedestal 70-110 mm	100x100	90	70-110	PA-SP-M-70
MESA Steel Slope Correcting Pedestal 100-160 mm	100x100	90	100-160	PA-SP-M-100
MESA Steel Slope Correcting Pedestal 150-260 mm	100x100	90	150-260	PA-SP-M-150
MESA Steel Slope Correcting Pedestal 250-480 mm	100x100	90	250-480	PA-SP-M-250
MESA Outdoor Steel Joist Pedestal (10-500 mm)				
MESA Outdoor Steel Joist Pedestal 10-25 mm*	100x100	100x100	10-25	DA-SP-M-10
MESA Outdoor Steel Joist Pedestal 25-35 mm	100x100	100x100	25-35	DA-SP-M-25
MESA Outdoor Steel Joist Pedestal 30-40 mm	100x100	100x100	30-40	DA-SP-M-30
MESA Outdoor Steel Joist Pedestal 40-50 mm	100x100	100x100	40-50	DA-SP-M-40
MESA Outdoor Steel Joist Pedestal 50-70 mm	100x100	100x100	50-70	DA-SP-M-50
MESA Outdoor Steel Joist Pedestal 60-90 mm	100x100	100x100	60-90	DA-SP-M-60
MESA Outdoor Steel Joist Pedestal 90-150 mm	100x100	100x100	90-150	DA-SP-M-90
MESA Outdoor Steel Joist Pedestal 150-280 mm	100x100	100x100	150-280	DA-SP-M-150
MESA Outdoor Steel Joist Pedestal 280-500 mm	100x100	100x100	280-500	DA-SP-M-280

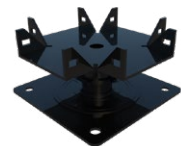
* Installaion includes creating a 20mm hole though the middle of the joist



MESA Outdoor Steel Flat Pedestal
Flexible support



MESA Outdoor Steel Slope Correcting Flat Pedestal
Correcting & flexible support



MESA Outdoor Steel Joist Pedestal
Joist support with slope correction



10-25 mm Joist Pedestal
Lowest height joist pedestal. Requires a 20 mm diameter hole drilled through the joist centre.

OUR SERVICE

If you need help at any point from concept to installation, from small residential to large commercial projects, our expert team offer a free design and build quotation service, and can advise the best use of our products.

With the ever increasing requirement for fire safety compliance, our Non-combustible systems are the perfect choice for your space.

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**FREE SAME DAY
QUOTATION SERVICE**



**EXPERT TEAM ON HAND TO
HELP WITH YOUR PROJECT**



**FULL TECHNICAL
SPECIFICATIONS ON PRODUCTS**



**BESPOKE DELIVERY SERVICES,
INCLUDING NEXT DAY**

Giving Back

We donate 10% of our profits to sustainable causes. We are currently supporting Rainforest Trust who work with local communities and governments to protect endangered rainforests and species.

It is our aim to ensure that our activities and products are carbon negative and we help create real long term solutions without simply 'greenwashing'.



**RAINFOREST
TRUST®**



ENVIROBUILD

OUR CLIENTS



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OUR PROJECTS



THRAYLE HOUSE



PARK HEIGHTS



ONE NEW MALDEN

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