

Aluminium Support System

A2 Fire-Rated Dura Pedestals and Dura Bearers for Decking and Flooring Projects



A2 fire-rated and height-adjustable support pedestals and bearers. Suitable for use as a decking substructure on external balconies, terraces roof gardens, domestic gardens, or for industrial flooring.

Unlocking the Power of Composites™
» for External Flooring Systems

dura®
composites



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About Us

Dura Composites is a leading supplier of composite products with over 25 years' experience in delivering durable, performance-improving and cost-effective composite solutions to a wide range of industries.

We help companies of all sizes unlock the power of composites, and our client base includes businesses in the Industrial, Construction, Rail, Transport, Landscaping, Marine and Leisure sectors.

Our success is driven by our commitment to innovation and by empowering our staff to inspire, educate and problem-solve for customers.

In 2017 and in 2020, Dura Composites was awarded the Queen's Award for Enterprise in recognition of our achievements at the forefront of composite material technology.

Dura Composites' products are also available through a well-established global distribution network. Your local distributor can be found on our website.

Aluminium Pedestals & Bearers

Our Dura Pedestals and Dura Bearers can be easily combined to suit all project needs. With 7 different heights of pedestals and 3 different heights of bearers, the Dura Composites system provides the most economical substructure combination on the market and is suitable for balconies, garden projects and everything in between.



The Dura Pedestal fire-rated pedestal and bearer system has been developed to be fully compatible with the latest developments in fire safety legislation and to improve building safety. Dura Pedestal achieves a Class A2 fire rating to EN13501-1 standards with its standard anthracite powder coated finish and an A1 rated mill finish is also available by special order.

When combined with our Dura Deck Aluminium decking and our aluminium Dura Bearers, it produces a fully Class A2 fire-rated flooring system, that is ideal for use on balconies and roof terraces,

where stringent fire safety measures are of paramount importance.

There are multiple options within the Dura Pedestal range, from a simple 25.5mm bearer/joist cradle to provide decking support in height-restricted areas with low thresholds, to the tallest 222.5mm pedestal which offers 35mm of adjustment to suit even the most demanding of raised flooring projects.

To discuss your project with our Technical Specialists, please call us on +44 (0) 1255 443 110.

Please Note: While the information is considered to be true and correct at the date of publication, changes in technical specification after the time of publication may impact on the accuracy of the information. The information may change without notice and Dura Composites is not in any way liable for the accuracy of any information printed and stored or in any way interpreted and used by the purchaser and/or installer. Please consult your Dura Composites representative at the time of purchase to ensure you have access to the latest technical information prior to commencing your project.

Dura Bearers

Aluminium Dura Bearers offer a simple and long-life decking substructure solution for gardens, balconies and large commercial projects. Unlike timber subframes, which can twist, rot or warp over time, Dura Bearers are made from 6063 grade aluminium (T6) and have a greater strength-to-size ratio than traditional materials.

Features

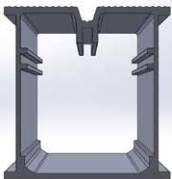
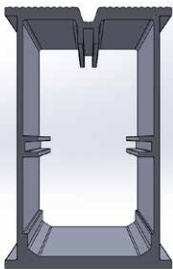
- Non-combustible, A2 fire-rated as standard
- High strength 6063 Grade Aluminium (T6)
- 100% recyclable
- Supports any type of conventional decking boards
- Versatile when combined with Dura Pedestals
- Anthracite powder coating to bearers and pedestals - RAL7043
- 10 Year warranty on painted finish
- Expected 60-year design life

Benefits

- • Meets latest safety legislation
- • Strong and long lasting
- • Sustainable solution with long design life
- • Will never rot, ensuring superior longevity of decking
- • Combined with Dura pedestals to overcome complex site issues
- • Protective ant-glare paint coating avoids reflection in sunlight
- • Blends seamlessly into decking and won't flake or fade
- • Years of useful service life for maximum peace of mind

Available in three sizes (25mm, 50mm and 75mm), Dura Bearers can be installed directly onto hard surfaces, such as concrete or paving, as well as onto soft surfaces such as soil, sand or grass, (provided the area has been compacted and bricks, pavers or concrete slabs are placed beneath the bearers at suitable intervals).

When combined with our Dura Pedestal range as a complete A2-fire rated system, they can be used on sloping or uneven ground with gradients of up to 10° Degrees - which is equivalent to an amazing 1:6 fall!

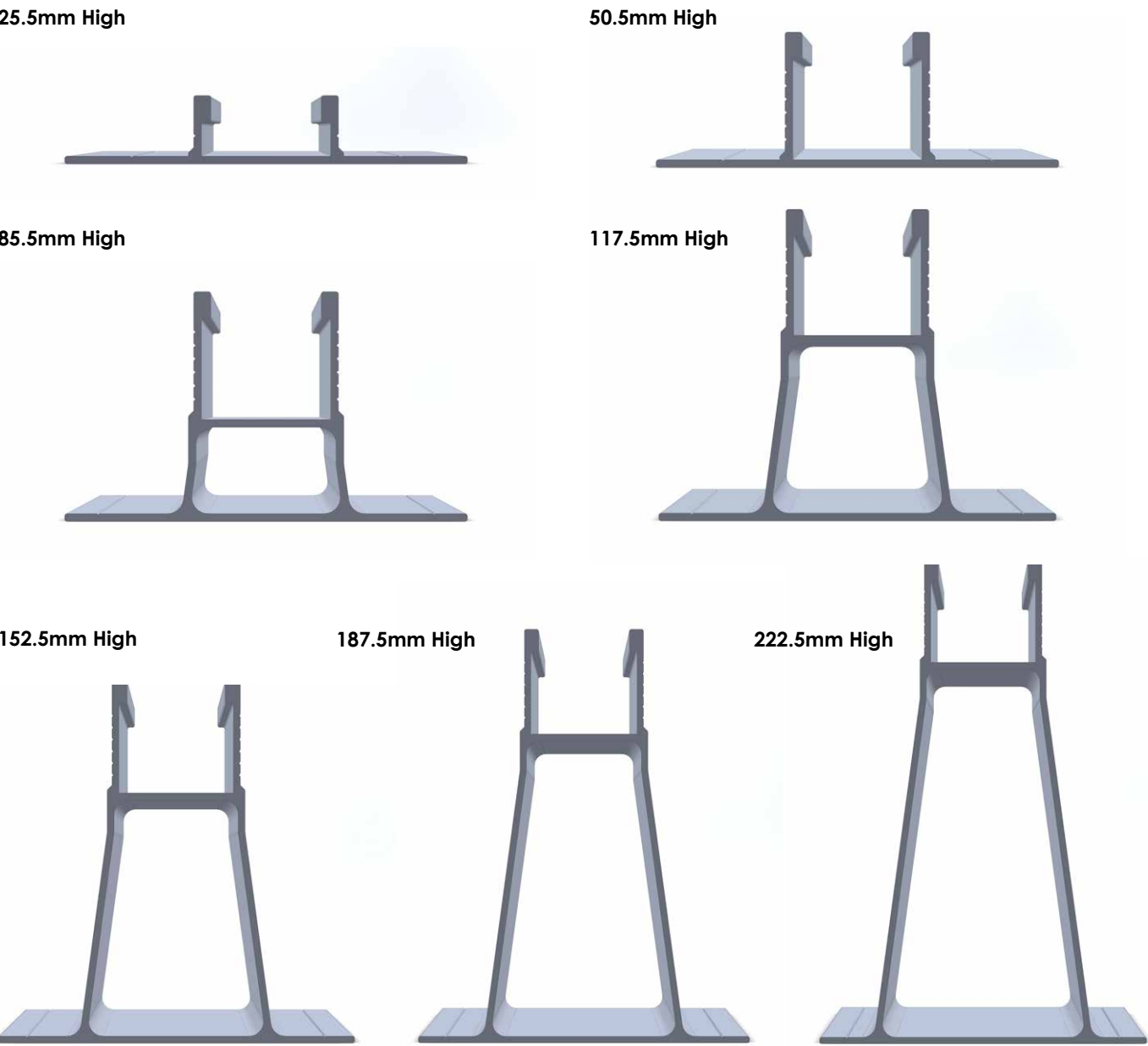
Dura Aluminium Bearer 25mm	Dura Aluminium Bearer 50mm	Dura Aluminium Bearer 75mm
(Milled Finish 25x48x3660mm**) (Anthracite Painted Finish 25x48x3660mm)	(Milled Finish 50x48x3660mm**) (Anthracite Painted Finish 50x48x3660mm)	(Milled Finish 75x48x3660mm**) (Anthracite Painted Finish 75x48x3660mm)
25mm 	50mm 	75mm 

**Special Order only

Dura Pedestals

Aluminium Dura Pedestals have an A2 fire-rating and a unique patent pending design which helps overcome even the most complex of installation challenges. Available in 7 different variants, the anthracite coloured pedestals are designed to work seamlessly with our aluminium Dura Bearers to provide the most economical A2 rated support system on the market.

Unlike plastic pedestals, the Dura Pedestals have a single unit construction, with no fiddly separate components (such as bearer holders, slope correctors or spacers) to unpack and assemble. The tripod design features enhanced stability to mitigate the risk of rolling and can be butted right up to the wall or edge without the need for cuts. If your project requires a fall, or if your substructure is not level, each pedestal includes handy visual notches at 5mm intervals so you can easily secure your bearers at your desired height.



Registered Design No. EU 007 827 746

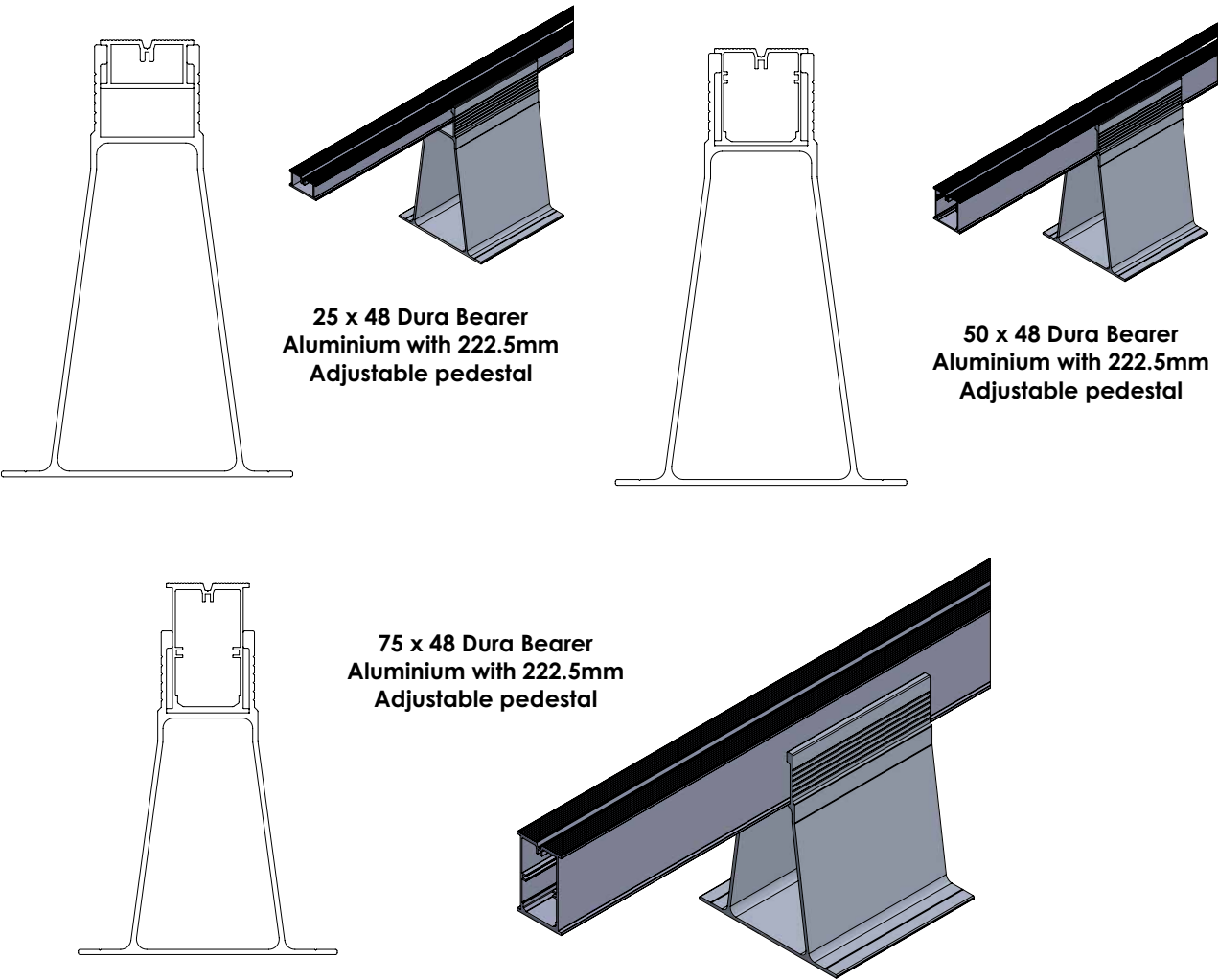
Patent Application No. GB 2005553.9

Creating the Perfect Combination

Dura Pedestal's anti-glare anthracite colour powder-coated finish achieves a Class A2 fire rating in accordance with EN13501-1. When combined with our Dura Deck Aluminium decking and aluminium Dura Bearers, a fully Class A2 fire-rated flooring system can be achieved. Dura Pedestals and Bearers are also suitable for use with our composite timber decking and GRP grating ranges, so you can get everything you need from one source, with fewer components to buy, unbox and install.

Dura Pedestals are available in 7 heights from 25.5mm to 222.5mm high and offer unrivalled choice for height variances when combined with our 25mm x 48mm, 50mm x 48mm and 75mm x 48mm aluminium Dura Bearers.

Use any Dura Bearer with any Dura Pedestal to create 42 different combinations. Installation is faster, easier and more stable than with fiddly plastic pedestals. A precise height can be created (which can be as small as a 10 mm adjustment when installing any bearer option in combination with the 25.5mm pedestal).



Example Installation Scenarios

STEP 1

Slide the chosen height pedestals along the bearer of choice and set the Dura Bearers in place at:

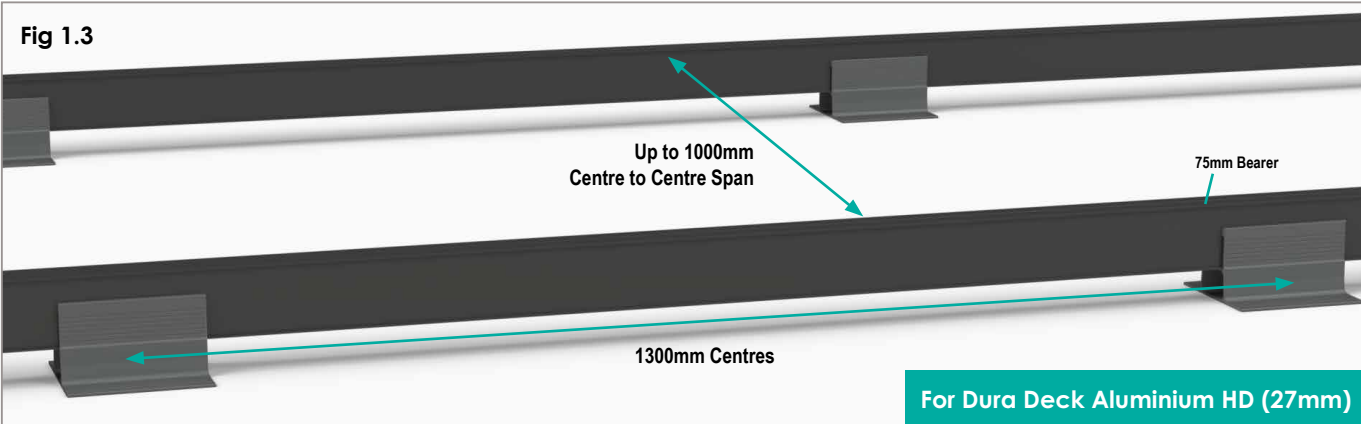
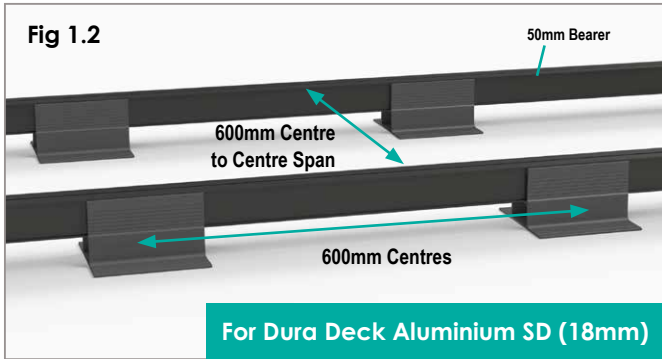
- 400mm Centre - Centre for Dura Deck Eco / Resist Decking (Fig 1.1)
- 600mm Centre - Dura Deck Aluminium SD (18mm) (Fig 1.2)
- 1300mm Centre - Dura Deck Aluminium HD (27mm) (Fig 1.3)



STEP 2

Now space the Pedestals along the Dura Bearers at:

- 400mm Centre - Centre for 25mm Dura Bearer
- 600mm Centre - Centre for 50mm Dura Bearer
- 1300mm Centre - Centre for 75mm Dura Bearer



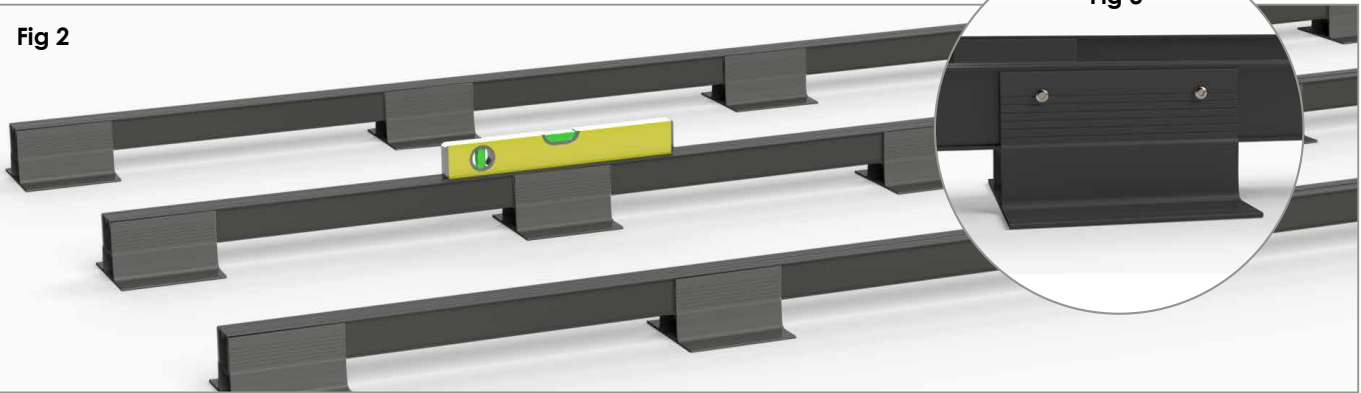
STEP 3

Now adjust the pedestals to Level (allowance to be made for the fall) and set lower than the required finished level by:

- 25mm for Dura Deck Eco / Resist
- 18mm for Dura Deck Aluminium SD
- 27mm for Dura Deck Aluminium HD

STEP 4

Screw through the sides of the Pedestal to fix the Bearer in place, using 5.5x19mm screws. (Fig 3)



Up to 4 Times Faster Than Other Decking Substructure Methods



Suitable for all kinds of decking installation

The Anthracite paint finish of the bearers and pedestals won't stand out against the decking surface. Versatile height combinations will suit all threshold requirements.



Fewer components to buy, unbox and install

Dura Pedestals come in easy to handle boxes of up to 25 units, with no fiddly separate components (such as slope correctors or fixed heads) - saving you valuable time on site.



Unique design self-adjusts to the correct position

Each pedestal can be slid onto the bearer in a matter of seconds. When the bearer is fixed into the first and last pedestal of the run at the right height, it creates the required fall at a pre-set angle, so there's no need to adjust each individual pedestal.



Single unit construction gives added stability

Unlike plastic pedestals which are made of multiple components with several potential points of weakness, our patent-pending design offers enhanced stability and less risk of movement or rolling during installation. Inserting the bearer immediately prevents the pedestal from falling over which is particularly useful in situations where the project is being installed by a single worker.

Our Aluminium Support System couldn't be simpler to use! Simply slide your pedestals onto your bearers, place the pedestals at the recommended spacings shown on page 6 and secure your first and last bearers at the desired height using the handy 5mm increment notches on the sides of the pedestal. Once your first and last bearers are in place, the others will already be positioned correctly and can be secured. If installing on a roof terrace or balcony, please ensure that your decking surface adheres to all local building codes (such as fire regulations and drainage requirements). As well as our A2 fire rated Aluminium Support System, Dura Composites also manufactures and supplies a range of Standard Duty and Heavy Duty A2 fire rated aluminium decking boards.



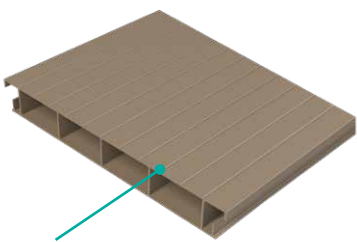
Ideal for use on sloping or uneven ground

When Dura Bearers and Dura Pedestals are combined, they are able to overcome a huge slope range and can be used in areas with gradients of up to 10° Degrees - which is equivalent to a 1:6 fall!

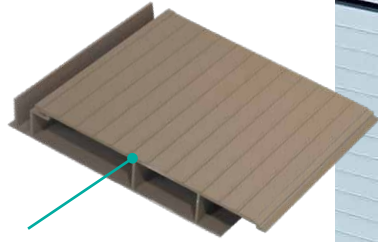


Suitable for all high-rise or public sector projects which require fire-rated solutions

The Dura Pedestal and Bearer system has been developed to be fully compatible with the latest developments in fire safety legislation to help improve building safety. Both components achieve a Class A2 fire rating to EN13501-1 flooring standards with their anthracite powder coated finish and an A1 rated mill finish is also available by special order. We also offer Class A2 Dura Deck Aluminium Standard Duty (SD 18mm) and Dura Deck Aluminium Heavy Duty (HD 27mm) as the perfect complementary decking surface finish.



Dura Deck Aluminium
Standard Duty
(SD 18mm)



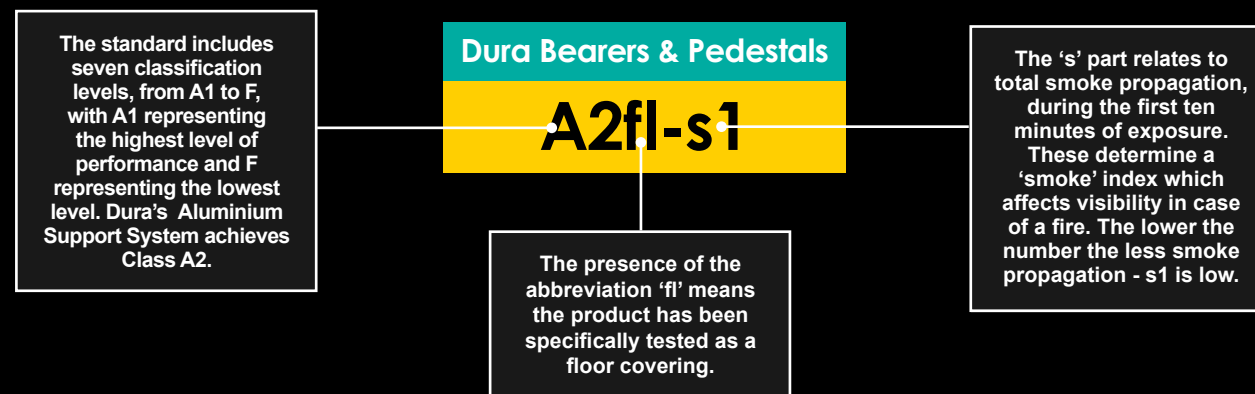
Dura Deck Aluminium
Heavy Duty
(HD 27mm)



Proven A2 Fire Performance

Dura Pedestals and Dura Bearers have been tested in accordance with the requirements of EN 13501-1: Fire classification of construction products and building elements by an accredited body, satisfying current fire legislation - with testing carried out in an environment that replicate that of an actual flooring installation.

Understanding European Classification (BS EN 13501):



Protective Coating



- High Spec Anthracite Powder Coated to Blend In
- Acetic Acid Salt Spray Tested – ISO 9227
- Accelerated Weather Tested – EN ISO 11341
- Humidity Resistant – BS EN 3231
- Condensation Resistant – EN ISO 6270-2
- Qualicoat Assured (Thickness, Cupping, Adhesion, Bend Test, Impact Test, Machu Corrosion Test)
- Polymerisation Resistant
- Boiling Water Resistant
- No Flaking after Cutting or Drilling

Technical Specifications

Aluminium Support System - Dura Pedestals & Dura Bearers

Description / Options	Heights achieved with 25mm Bearer		Heights achieved with 50mm Bearer		Heights achieved with 75mm Bearer	
	Min Height (mm)	Max Height (mm)	Min Height (mm)	Max Height (mm)	Min Height (mm)	Max Height (mm)
A2 PEDESTAL OPTIONS						
Aluminium Pedestal 25.5mm (Anthracite Painted Finish)	28	38	53	63	78	88
Aluminium Pedestal 50.5mm (Anthracite Painted Finish)	53	65.5	53	88	78	113
Aluminium Pedestal 85.5mm (Anthracite Painted Finish)	88	100.5	88	123	113	148
Aluminium Pedestal 117.5mm (Anthracite Painted Finish)	120	132.5	120	155	145	180
Aluminium Pedestal 152.5mm (Anthracite Painted Finish)	155	167.5	155	190	180	215
Aluminium Pedestal 187.5mm (Anthracite Painted Finish)	190	202.5	190	225	215	250
Aluminium Pedestal 222.5mm (Anthracite Painted Finish)	222.5	237.5	222.5	260	250	285

Building / Project Suitability

- All Public & Private Buildings requiring an A2 Fire Rating
- Recessed Galvanised Steel Balconies
- Projected Galvanised Steel Balconies
- Recessed Concrete Balconies
- Roof Top Terraces
- Pub & Hotel Deck Areas
- Smoking Areas, Terraces
- Commercial Walkways
- Domestic Gardens
- Raised Terraces
- Washbays and elevated walkways

Material

6063 Grade Aluminium (T6)

Recyclability

Durable and long lasting, our aluminium decking is 100% recyclable at the end of its use, making it an eco-friendly option.

Finish

Anthracite powder coated finish as standard to blend in seamlessly with any decking project. Mill finish available by special order.

Fixing Method

Hidden Bi-Metallic Pan Head Self Drilling Screws

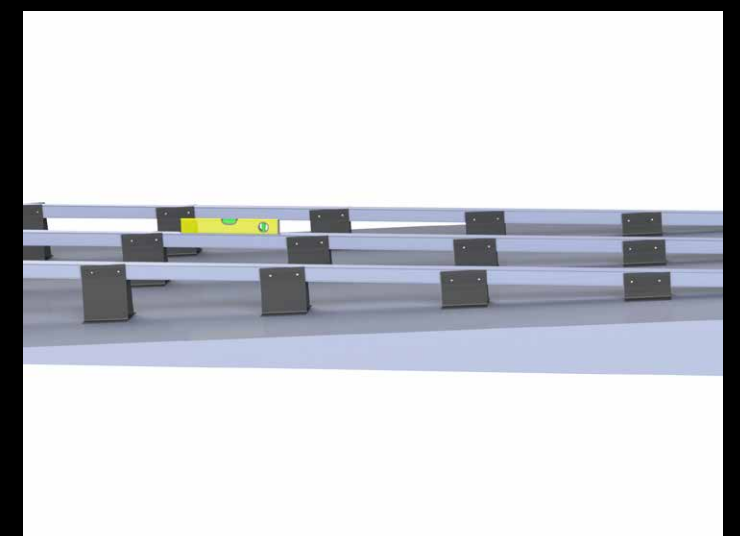
Warranty

10 year warranty on painted surface finish. 60 year expected service life.

Slope Correction

Our system can be used on sloping or uneven ground with gradients of up to 10° Degrees - which is equivalent to an amazing 1:6 fall. The tallest 222.5mm pedestal offers 35mm of adjustment to suit even the most demanding projects.

Slope Correction option - 0-3° (yellow) or 0-10° (Green)			
When using Bearer Option	25 x 48mm	50 x 48mm	75 x 48mm
Pedestal	0-3°	0-10°	0-10°
25.5 mm	3	3	3
50.5 mm	3	10	10
85.5 mm	3	10	10
117.5 mm	3	10	10
152.5 mm	3	10	10
187.5 mm	3	10	10
222.5 mm	3	10	10





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Unlocking the Power of Composites™
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Due to our policy of continual improvement we reserve the right to change specifications at all times without prior notice.

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