

Industrial

# Anti-Slip Flooring & Handrail Products for Industry

d<sup>2</sup>

d<sup>2</sup> Dura Grating Standard Mesh in Green  
Key Clamp Handrailing in Yellow

High-performance composite flooring and walkway solutions including trench covers, A2 fire-rated decking, access platforms and anti-slip floor sheets, plus GRP handrailing and profile sections

**Unlocking the Power of Composites™**  
**» for Industrial Environments**

**dura™**  
**composites**

# Contents

Why Choose Composites?	2
Micro Mesh Grating	3
Mini Mesh Grating	4
Standard Mesh Grating	5
Solid Top Grating	6
Dura Slab	7
Structural Stair Treads & Landings	8
Key Clamp Handrailing	9
Anti-Slip Floor Sheets	11
Stair Tread Covers	11
Nosing Strips	12
Dura Tread Anti-Slip Strips	12
Dura Profile	13
Access Structures	14
Case Study: Cannon Street	15
Case Study: Converter Station	16
Dura Deck Aluminium	17
Dura Bearers	19
Dura Pedestals	20
Value Added Services	21
The Dura Difference	22

## About Us

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Discover the d<sup>2</sup> product range from Dura Composites - the next generation of performance-improving composites. Available exclusively from Dura Composites, d<sup>2</sup> products feature unique designs, new material technology or manufacturing methods AND deliver class-leading performance.

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

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.

## Why Choose Composites?



### Advanced Product Performance

Composites have been around since the 1930s, and were first developed for use within boat hulls, plane fuselages and wings. Today's composites are used in a wide range of solutions from bridges to oil rigs and water slides to drum sets, and the design possibilities are vast.

One of the most popular emerging composites of the past 40 years has been Glass Reinforced Polymer (also known as GRP or fibreglass), which is a resin-based composite that's reinforced with a glass fibre. Dura Composites has a proven track record in supplying innovative GRP solutions for a variety of projects across the globe -including open mesh grating, duct covers and safety access ladders. Our knowledgeable team have decades of experience in the industry and are available now to discuss your project on 01255 440290.



### Built-in Sustainability

It's not just the initial outlay costs that you should consider when deciding on a material for your project. It's important to consider the whole lifecycle of the material and all its associated costs, including installation, how long it will last and what kind of maintenance (if any) it will require to keep it functioning and looking it's best.

In wet environments, Dura Grating is algae resistant and low maintenance, making it not only one of the safest, but also one of the most cost effective walking surfaces on the market. Available in Standard, Mini and Micro Mesh each offering varying hole sizes to suit the environment in which it is laid, the unique patent-pending design of Dura Composites' d<sup>2</sup> grating offers improved light transmittance.

Dura's GRP products offer considerably low life cycle costs due to their maintenance free, corrosion resistant and impact resistant characteristics compared with traditional materials. They also have a design life in excess of 60 years and a reassuring 25 year product warranty.

Even after the products have been used for their intended purpose and reach the end of their lifecycle in the original context, they can be up-cycled or repurposed in other ways. We are happy to advise all customers on their specific scenarios.

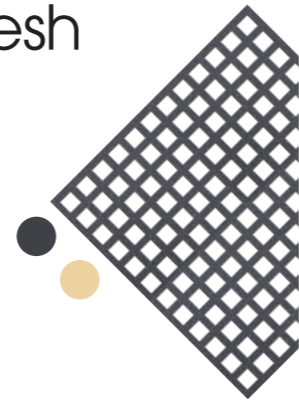


## d<sup>2</sup> Dura Grating Micro Mesh

Dura Composites NEW Micro Mesh GRP grating features an anti-slip surface with a new finer grit which is ideal for water sports facilities and other recreational areas. The 10.5mm x 10.5mm open mesh prevents virtually all objects from falling through and is suitable for a wide range of footwear and sporting equipment.

d<sup>2</sup> Dura Grating Micro Mesh is available in Dark Grey as standard, with Sand and other colours available as special order. Minimum order quantities apply. If your project requires access ramps, 23mm Micro Mesh can be easily combined with other heavy grit products in the range.

For more information refer to the d<sup>2</sup> Dura Grating Brochure.



Product	Length (mm)	Width (mm)	Weight (kg/sqm)	Open Mesh Size (mm)	Max Span (mm) at 1.5kN Point Load
d <sup>2</sup> Dura Grating Micro Mesh					
23mm	3042	1041	11.5	10.5 x 10.5	660
	4076	1300			
	4076	1560			

Load data based on deflection of L/100 using a point load of 1.5kN.

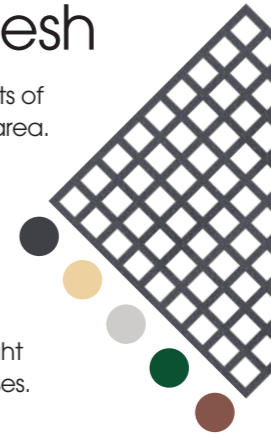
## d<sup>2</sup> Dura Grating Mini Mesh

Dura Composites Mini Mesh GRP grating has all the benefits of our Standard Dura Grating but with a smaller open mesh area.

The smaller openings of our Mini Mesh Dura Grating prevents small objects from falling through, and complies with BS EN14122 Category B and the European 20mm Ball Falling Test requirement.

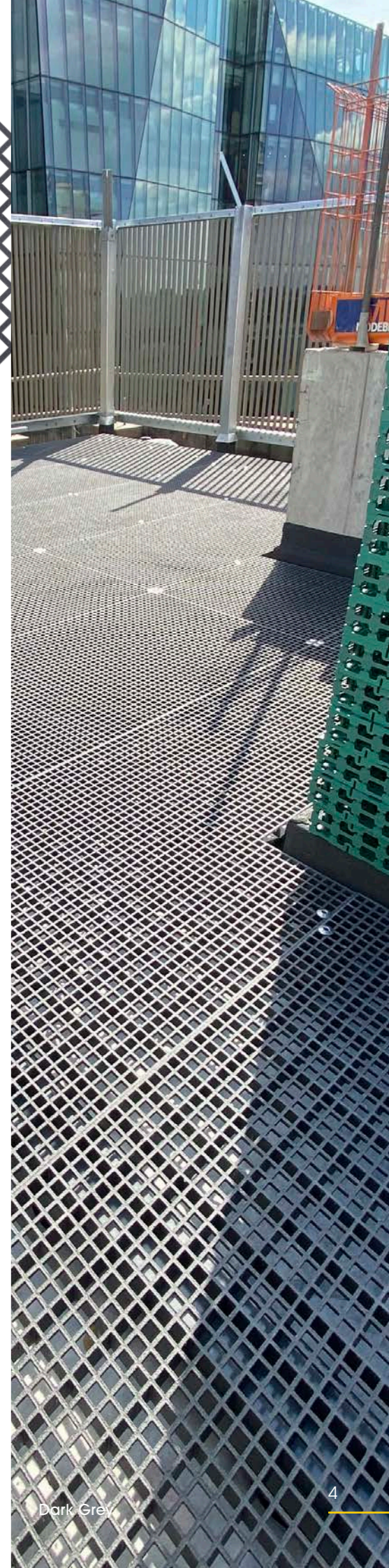
Mini Mesh Dura Grating is available in Dark Grey, Sand, Light Grey, Green and Teak colours and in a variety of thicknesses. For further information please refer to the table below.

For more information refer to the d<sup>2</sup> Dura Grating Brochure.



Product	Length (mm)	Width (mm)	Weight (kg/sqm)	Open Mesh Size (mm)	Max Span (mm) at 1.5kN Point Load
d <sup>2</sup> Dura Grating Mini Mesh					
23mm	3012	1029	11.1	13 x 13	630
	4033	1269			
	4033	1511			
35mm	3030	1041	13.2	19.5 x 19.5	1590
	3667	1200			
45mm	3030	1041	15.3	19.5 x 19.5	2210
	3667	1200			
55mm	3030	1041	19.0	19.5 x 19.5	2500
	3667	1200			

Load data based on deflection of L/100 using a point load of 1.5kN.





## d² Dura Grating Standard Mesh

Our Standard Mesh GRP grating is most suited for use within commercial applications as a walkway or slipway solution to help minimise the risk of slips, trips and falls.

Dura Grating Standard Mesh is available in Dark Grey, Yellow, Green or Light Grey as standard, and in thicknesses of 26mm, 38mm and 50mm. The uniform construction of Dura Grating provides excellent bi-directional mechanical properties and is safe to walk on in all directions.

Standard Dura Grating is light, strong and non corrosive and can be supplied with a full range of stainless steel clips, clamps and hold down fixings to suit all situations.

For more information refer to the d² Dura Grating Brochure.



Product	Length (mm)	Width (mm)	Weight (kg/sqm)	Open Mesh Size (mm)	Max Span (mm) at 1.5kN Point Load
d² Dura Grating Standard Mesh					
26mm	3043	993	10.3	32 x 32	860
	3669	1239			
38mm	3054	996	13.2	31 x 31	2500
	3664	1224			
50mm	3052	1057	15.7	28 x 28	2770
	3682	1267			

Load data based on deflection of L/100 using a point load of 1.5kN.

## d² Dura Grating Solid Top

Dura Composites Solid Top GRP grating is lightweight with an extremely good anti-slip walking surface, suitable for wheeled trolleys or equipment often used in loading and storage areas.

One of the key benefits of Solid Top grating is the exceptional breaking strength under lateral force. The uni-directional continuous fibreglass reinforcement offers numerous advantages including rigidity, shock resistance, with no permanent deformation after overloading. These factors provide excellent mechanical strength and safety in wet environments.

Solid Top Grating is available in Dark Grey and Light Grey. See the below table for our available thicknesses.

For more information refer to the d² Dura Grating Brochure.



Product	Length (mm)	Width (mm)	Weight (kg/sqm)	Open Mesh Size (mm)	Max Span (mm) at 1.5kN Point Load
d² Dura Grating Solid Top					
29mm	3699	1239	16.7	None	1450
	3043	993			
41mm	3663	1224	21.09	None	2100
	3054	996			
53mm	3682	1267	22.9	None	2270
	3052	1057			

Load data based on deflection of L/100 using a point load of 1.5kN.



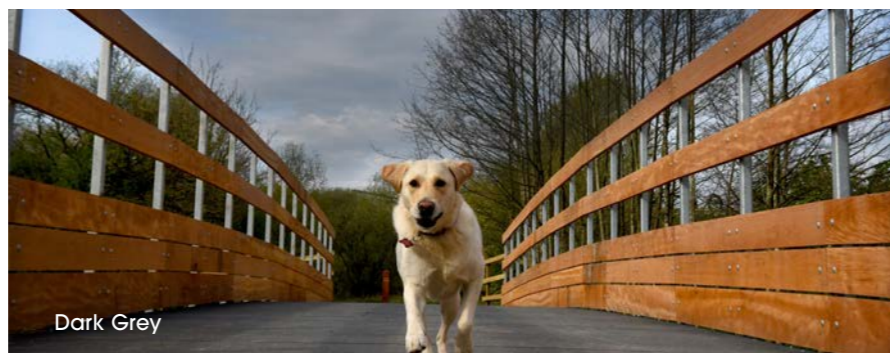


## d<sup>2</sup> Dura Slab

Dura Composites are experts in the design, manufacture and supply of trench and access covers and heavy-duty floor slabs. Our Glass Reinforced Polymer (GRP) Dura Slab panels offer a low maintenance, durable and simple to install composite alternative to heavy & cumbersome steel or concrete covers.

With an innovative design that can include either manual lifting eyes or mechanical lifting arms, Dura Slab has an excellent strength to weight ratio. When used as trench or gully covers, its lightweight nature means routine inspections or cabling or other equipment can be made easily.

For more information and to see our full range of panel sizes and fixings, please refer to our Energy Sector or Stadium and Arena Brochures.



Product	Duty	Length (mm)	Width (mm)	Panel Weight (kg)	Image
<b>Dura Slab Pultruded</b>					
20mm	Pedestrian		502	22	
30mm	Pedestrian			23	
40mm	Pedestrian		500	23	
40mm	Pedestrian	3660		31	
40mm Wide Design	Pedestrian		1027	64	
45mm	Pedestrian		725	64	
50mm	Medium		475	63	
75mm	Heavy	3800	650	148	
100mm Easy Lift	Medium	3660	375	67	
100mm	Heavy	2800	650	143	

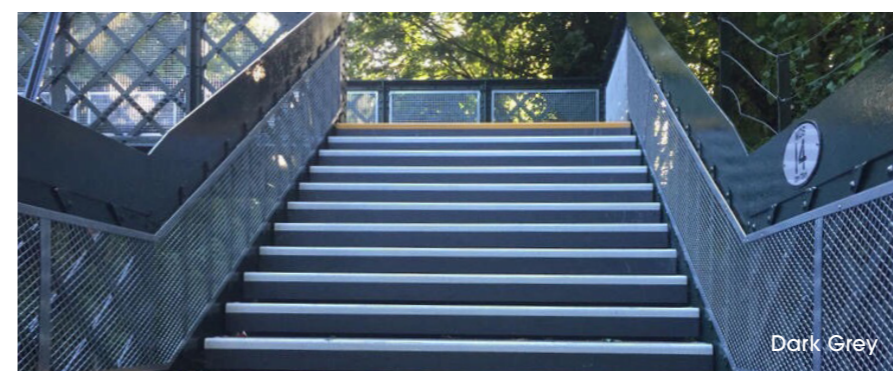
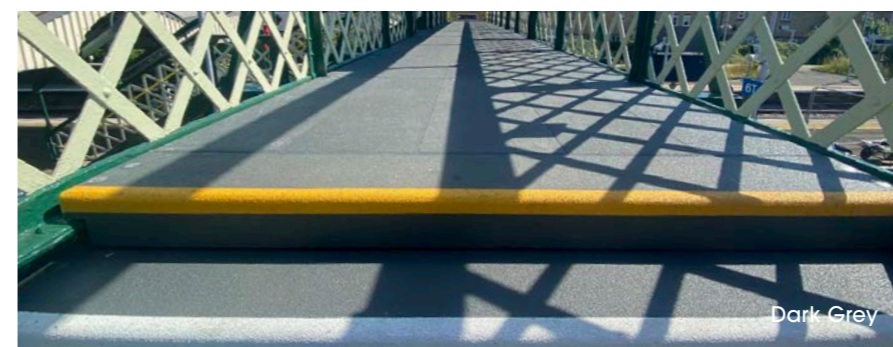
Orthophthalic resin as standard. Available in Isophthalic resin by special order only. MOQ applies.

Light Grey

## d<sup>2</sup> Dura Slab Structural Stair Treads and Landings

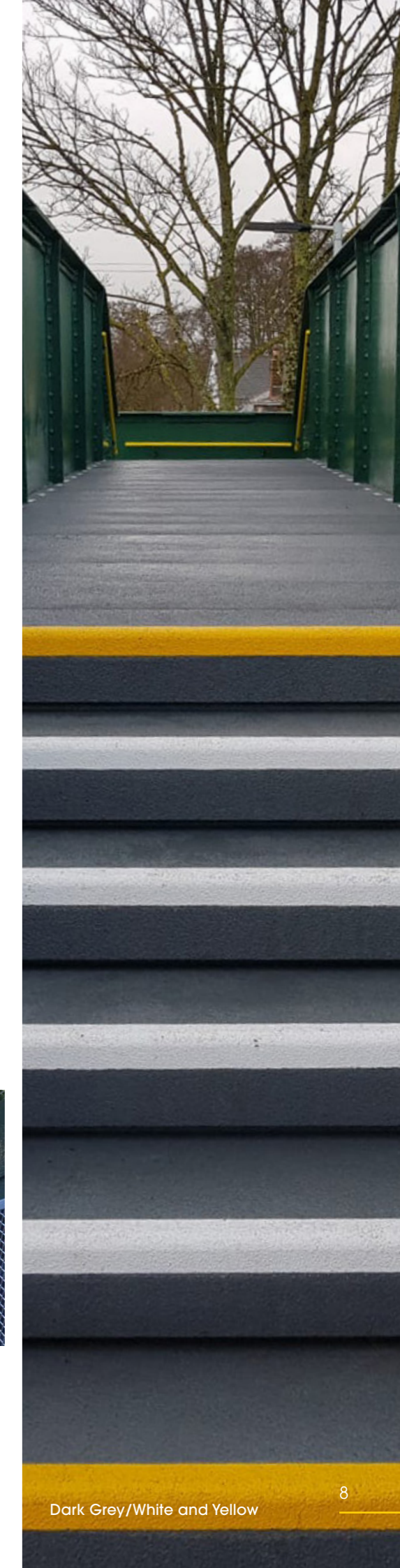
Dura Slab Structural Stair Treads and Landings are designed as a modular system, allowing the contractor huge flexibility both at the design stage and on site - speeding up install times by reducing costs and limiting disruption, making them ideal for footbridge refurbishments.

Available in 65mm thickness, they can span up to 2.1m clear open span, achieving the required 5kN/m<sup>2</sup> at L/200 deflection, meaning that additional supports can be avoided in most scenarios. The 65mm size is designed to map to the most customary timber stair component size in common usage, meaning easy replacement of degraded timber treads and landings.



Product	Length (mm)	Width (mm)	Thickness (mm)	Panel Weight (kg)	Colours
<b>Dura Slab Structural Stair Tread</b>					
Dura Slab Structural Tread	320	4020	65	58.29	Yellow, White

Isophthalic resin as standard. Available in Orthophthalic resin by special order only. MOQ applies.



Dark Grey/White and Yellow


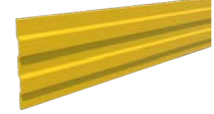

# d<sup>2</sup> Key Clamp Handrailing

Dura Composites offer a high quality, non-conductive GRP handrail system complete with all fittings. Our system is lightweight and easy to handle and offers low maintenance costs as it does not require painting or galvanising.

Available in high visibility yellow (RAL 1023) or grey (RAL 7043), it can be installed quickly, safely and easily in a range of environments such as high-voltage areas.

The latest innovation in our d<sup>2</sup> product portfolio includes pre-assembled components which dramatically speed up on-site installation times.




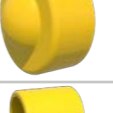




## Dura Key Clamp Modular Handrailing (Sold by Length)

Component	Dimensions	Image	Colour	Weight (kg)
Handrail Tube	6000 x 50mm O/D x 35 I/D		Yellow Dark Grey	11.4
Kick Plate	3010 x 150 x 5mm (L x W x Th)		Yellow Dark Grey	4.5
Box Profile	6000 x 64 x 6.4mm (L x W x Th)		Yellow Dark Grey	17.5

## Dura Key Clamp Modular Handrailing (Sold by Component)

Component	Dimensions	Image	Colour	Weight (kg)
3 Way Tee	Fits 50mm Handrail Tube		Yellow Dark Grey	0.10
3 Way Directional			Yellow Dark Grey	0.28
60° 3 Way Tee			Yellow Dark Grey	0.13
4 Way Tee			Yellow Dark Grey	0.15
4 Way Directional			Yellow Dark Grey	0.35
60° 4 Way Tee			Yellow Dark Grey	0.16
Vertical Multiple (Adjustable)			Yellow Dark Grey	0.33
90° Elbow			Yellow Dark Grey	0.19

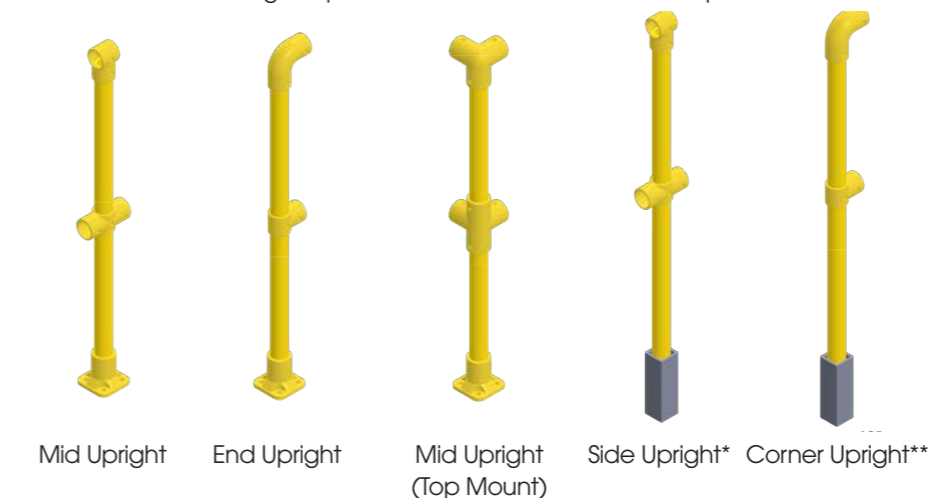
## Dura Key Clamp Modular Handrailing (Sold by Component)

Component	Dimensions	Image	Colour	Weight (kg)	
120° Elbow	Fits 50mm Handrail Tube		Yellow Dark Grey	0.17	
150° Elbow			Yellow Dark Grey	0.13	
Adjustable Elbow			Yellow Dark Grey	0.32	
Base Foot			Yellow Dark Grey	0.28	
Top Cover			Yellow Dark Grey	0.03	
Infill Connectors			Yellow Dark Grey	0.17	
4 Way Universal			Yellow Dark Grey	0.60	
Extended 3 Way Tee			Yellow Dark Grey	0.18	
Spigot Tube		300 x 34.5 x 7.75mm (L x W x Th)		Dark Grey	0.56

Isophthalic resin as standard. Available in Orthophthalic resin by special order only, MOQ applies.

## Pre-Assembled Parts

Dura Composites now offer pre-assembled 1.1m high handrail components in a waterproof palletised crate system. Pre-assembling 3 key parts (Mid Upright-Side Mount, End Upright-Side Mount, Mid Upright-Top Mount) not only speeds up deliveries but adds huge improvements to on-site installation speed.



\* Supplied from stock, arrives partially assembled in a waterproof palletised system.  
\*\* Longer lead times may apply for these types.



Dark Grey

Green

## Anti-Slip Floor Sheets

Designed to be installed over new or existing structural members of steel, timber, concrete or aluminium based floors, Dura Tread provides a quick and economical anti-slip flooring solution. Our pultruded sheets exceed the higher performance E23 grade standard and deliver a better quality, stronger and longer lasting product than anything else on the market.

With a more consistent thickness for safer walkways and a better appearance than other floor sheet panels, typical applications for Dura Tread 5mm anti-slip floor panels include floor systems, walkways, work platforms and stair ramps.

GRP Gritted Dura Tread Solid Plate Anti-Slip Flooring is available in black, yellow or dark grey and has been designed for use in applications where durability and a long, maintenance-free life are critical. Our Standard Panel Size is 3m x 1.2m x 5mm (Other thicknesses are also available by special order).

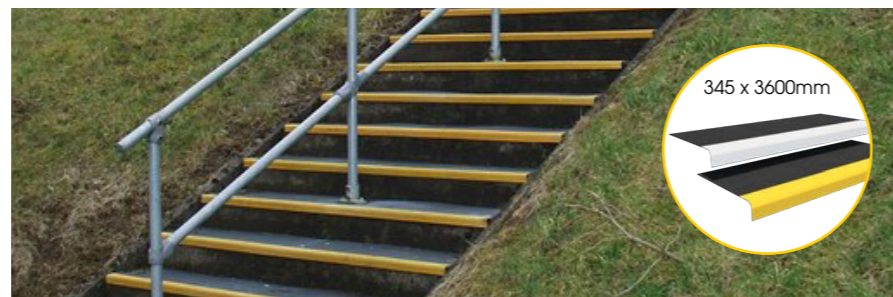


## GRP Stair Tread Covers

Dura Composites also offers a range of Dura Tread non-structural stair tread covers, gritted plates and stair nosing strips, which provide quick and cost-effective solutions to improving safety in potential slip hazard areas where the underlying structure is sound. Dura Tread covers are easy to install to existing concrete, wood or steel stair treads using a mechanical stainless steel fixing or general purpose adhesive to provide a highly visible, robust and durable slip resistant walking surface.

There are several different widths and colours available depending on your application requirements, all of which meet the highest demands in both safety and durability. The high visibility nosing highlights the leading edge of the step, and the low profile characteristics of the Dura Tread Cover allows it to be fitted to new or existing metal, concrete, or timber steps whilst only increasing the overall step height by 5mm. Each cover measures 345 x 3660mm as standard.

Dura fibreglass stair tread covers, floor sheeting and stair nosings are precision engineered anti-slip products, designed to provide a sure footed and safe solution for fitting over an existing slippery surface. The integral bonded grit produces a long lasting and hard wearing surface ideal for covering and making safe slippery walking surfaces such as metal, wood or concrete.



## GRP Nosing Strips

Dura Tread Nosing Strips can be applied to a variety of stair tread materials such as concrete, wood, chequer plate or GRP grating to help mitigate the risk of slipping, tripping and falling. Quick and easy to install, Dura Tread Nosing Strips have a tough anti-slip gritted surface and are available in both Yellow and White to maximise visibility of the stair edge.

Each piece is 3660mm long as standard and the profile dimension is 55mm x 55mm with a thickness of 4mm which complies with the requirements of BS8300:2:2018. Choose Dura Tread anti-slip strips for a quick, cost effective solution to improving safety in slippery or hazardous areas, and for areas used by the public.



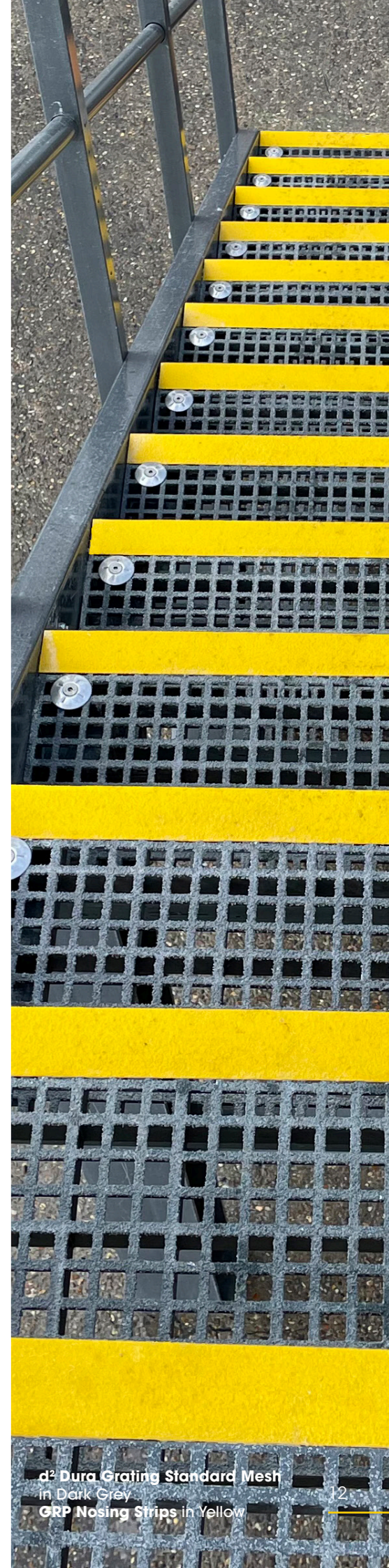
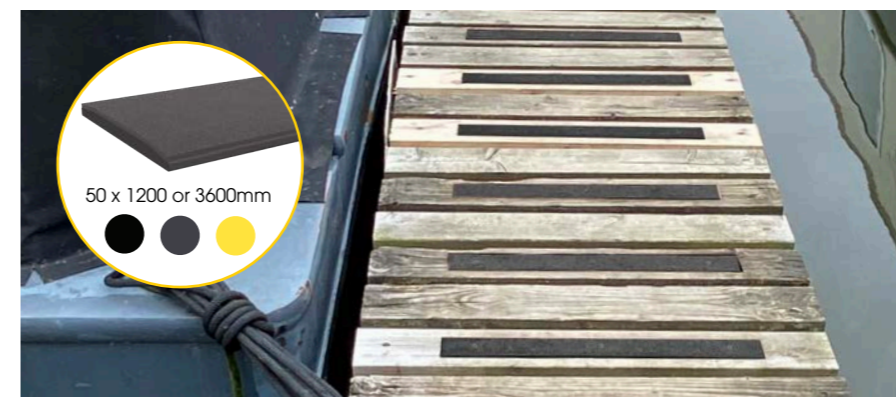
## Dura Tread Anti-Slip Strips

Super-fast and easy to install, these 50mm strips can provide additional grip to almost any surface to give you peace of mind. Whether it's for timber pontoon decking, lakeside walkways, outdoor steps or access ramps, our gritted strips can be affixed to your existing floor surface to help mitigate the risk of slipping, tripping or falling.

Dura Tread Anti-Slip Strips are available in black, yellow or dark grey and can be easily combined for easy demarcation of transitional areas, differing floor levels, or to maximise visibility against the existing structural flooring material.

The strips are available in standard 1200mm and 3600mm lengths. Additional sizes can be cut to order and we can also pre drill holes for a small additional charge. Other colour variants are also available by special request.

If your project requires a complete flooring change with in-built anti-slip properties, we also offer a full range of composite decking planks and GRP grating panels as shown in this brochure.





## d² Dura Profile

Our d² Dura Profile components meet the E23 grade performance requirement of the BS EN 13706 standard and provide greater strength and consistent quality.

The versatility of d² Dura Profile makes it a logical and cost-effective alternative to carbon, steel, aluminium, wood or other conventional structural materials. We carry a large stock holding of profile at our UK Operations Centre, including Angle, Channel, Box and Tube sections.

Product Type	Length (mm)	Width (mm)	Image	Colours:	Weight (kg)
Angle	6000	50 x 50 x 6.35		Dark Grey	6.9
		76 x 76 x 9.5		Dark Grey	15.4
		102 x 102 x 12.7		Dark Grey	27.4
		152 x 152 x 12.7		Dark Grey	42.2
Box	6000	50 x 50 x 6.35		Dark Grey	13.2
		50 x 50 x 5		Yellow	8.4
		64 x 64 x 6.4		Dark Grey, Yellow	16.7
		76 x 76 x 6.35		Dark Grey	21.1
		101 x 101 x 8		Dark Grey	34.1
Box Channel	6000	203 x 55 x 8		Dark Grey	36.6
Channel	1000	25 x 14 x 3		Dark Grey	0.3
	6000	100 x 60 x 5.5		Dark Grey	13.1
		203 x 55 x 9.5		Dark Grey	31.8
		254 x 72 x 12.7		Dark Grey	53.4
Round Tube	6000	38 x 32		Dark Grey, Yellow	3.8
Top Rail	6000	71 x 60 x 4.5		Dark Grey, Yellow	7.9
Wide Flange Beam	6000	152 x 152 x 9.5		Dark Grey	48.9
		203 x 203 x 12.7		Dark Grey	86.3
		305 x 305 x 12.7		Dark Grey	129.0
Web Stiffener (Male Section)	6010			Dark Grey	69.7
Web Stiffener (Female Section)	6010			Dark Grey	32.6

Isophthalic resin as standard. Available in Orthophthalic resin by special order only, MOQ applies.

## Working with d² Dura Profile

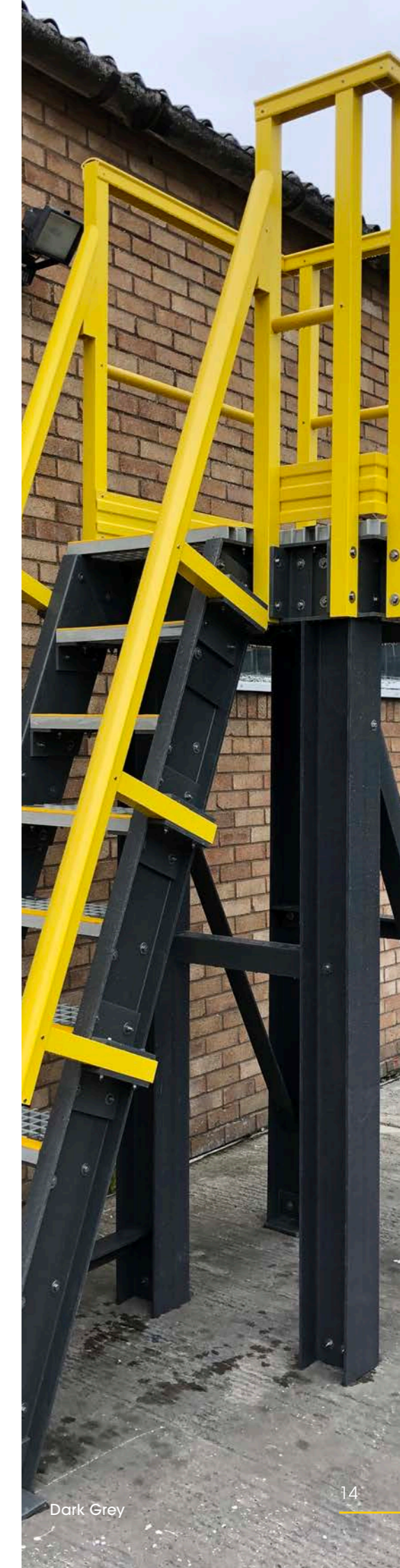
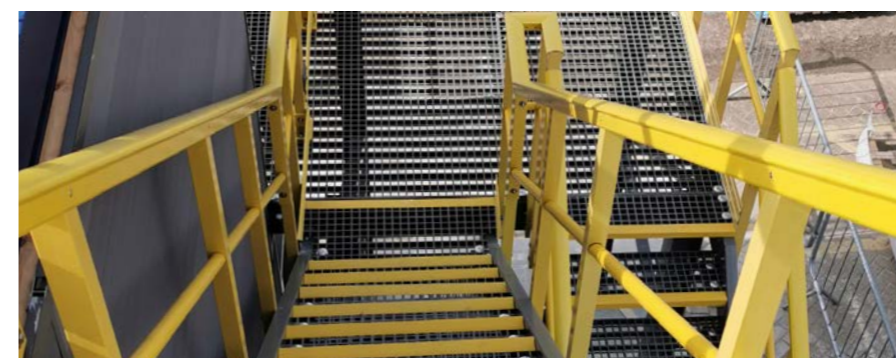
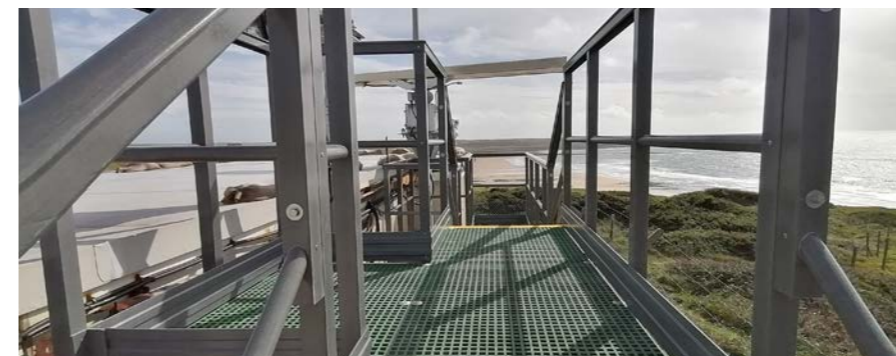
According to live test data, d² Dura Profile has an average Tensile Modulus of more than 31GPa - far exceeding the requirement of 23GPa set out by the stringent E23 European standard within BS EN 13706. This means that d² Dura Profile is on average 88% stronger than other GRP profiles, which only meet E17 GPa. The result is smaller sections can be used, saving weight and resulting in more cost-effective product selection.

Our online Interactive Product Selector allows users to confidently select a GRP Dura Profile beam section based on whatever traditional beam may already feature on a drawing. The specific steel or timber beam type and size can be selected from a drop-down list, the load criteria chosen alongside the span, and the Dura Composites tool will show which d² GRP Dura Profiles meet or exceed the performance of the steel or timber and provide the relevant safety factor data.

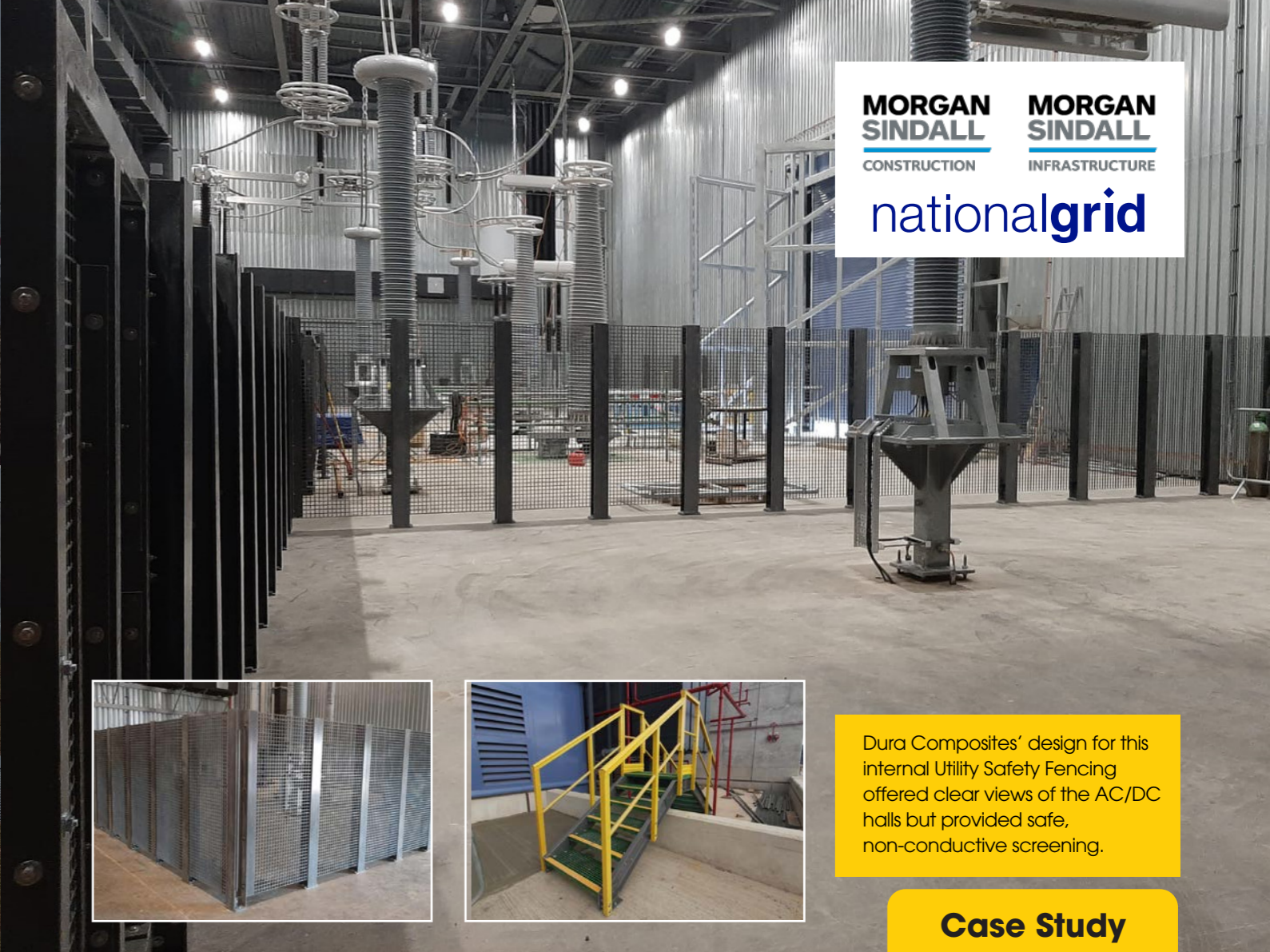
## d² Dura Access Structures

Dura Composites can design specific structures made from Dura Profile components around a customer's requirements and can fully support modular installation methods if required.

All structures are fabricated in the UK at our East Anglian HQ and fabricated structures can be supplied with detailed dimensions and weights, including footprint size, to ensure it will fit within your overall planned design.







Case Study

Case Study

Dura Composites' design for this internal Utility Safety Fencing offered clear views of the AC/DC halls but provided safe, non-conductive screening.

# GRP Dura Grating and d² Dura Grating Cannon Street

25 Cannon Street, London, EC4.

Occupying a prominent island site directly opposite one of London's most famous landmarks, 25 Cannon Street is a five-storey, neoclassical office building with a design which is respectful of its location in the heart of the City of London.

Views of St Paul's Cathedral and other landmarks on the city skyline are protected by planning controls. A policy known as 'St Paul's Heights' protects and enhances important local views of the Cathedral from a range of vantage points, including from the building at 25 Cannon Street.

In 2020, London architecture studio Buckley Gray Yeoman was selected to deliver a comprehensive modernisation

of the 168,000 sq ft office, with ASME Engineering chosen to commission and install screening to the plant equipment on the rooftop which would be compliant with the St Paul's Heights policy.

ASME Engineering turned to Dura Composites to design and supply Glass Reinforced Polymer horizontal screening panels to protect the equipment housed on the rooftop from the elements, whilst maintaining airflow with minimal visual impact and allowing for access by maintenance personnel.

A combination of **Dura Grating 50mm Standard Mesh** and **d² Dura Grating 45mm Mini Mesh** were used to meet the distinct requirements of the various



areas, with the larger hole-sized product providing the correct level of ventilation for the Air Handling Units, and the smaller hole sizes of the mini mesh providing additional privacy in other areas of the roof to minimize the impact on the historic views of St Paul's. Non-conductive, lightweight and requiring minimal maintenance, the Dura Grating panels were supplied with powder coated fixing clips and hinged access panels, and offered the perfect strength-to-weight ratio for the project.

**For more information on GRP Screening using our unique patent-pending d² Dura Grating, please contact Joe Hunt on +44 1255 440290 or email info@duracomposites.com.**

# Non-Conductive Utility Fencing, Handrailing & Access Structures Converter Station

Chilling, Hampshire, United Kingdom.

The IFA2 project aims to connect the electricity systems of Great Britain and France using high voltage subsea cables and will be capable of exporting or importing 1000MW of power between the UK and France, enough to power up to 1 million homes. It is currently scheduled to be commissioned in early 2021.

Contractor Morgan Sindall was appointed to design, build and commission the new converter station and chose to work with Dura Composites to provide safe, non-metallic **Glass Reinforced Polymer (GRP) utility fencing** for the AC/DC Halls, as well as a range of non-conductive access structures & handrailing across the site.

Dura Composites specialise in the design, supply, fabrication and installation of advanced GRP components and have a wealth of experience in the Power & Energy Sector. In this project, the client specification mandated the use of non-conductive and non-metallic materials which could be used to construct removable fencing, permanent fencing and sliding gates to enable access to specific authorised personnel, whilst preventing others from accessing high-risk areas.

With a wealth of detailed technical information about its product range based on real-world testing criteria, Dura Composites were able to provide crowd loading data, span information and



technical drawings to support the overall Morgan Sindall document control system requirements for the project.

With a visually appealing mesh design which permits continuous airflow, Dura Composites' safety fencing can be pre-assembled off site for rapid installation or supplied in component form.

**For help and technical support with your substation or converter station project please call Joe Hunt on +44 1255 440290 or email info@duracomposites.com.**

## Dura Deck Aluminium

Due to its lightweight design and ease of installation, Dura Deck Aluminium is perfect for hi-rise terraces and balcony applications. Its outstanding class A2fl-s1 fire rating and compliance with EU and UK government recommendations means it's great for buildings over 18 metres in height. Available in 3 beautiful matt-finish colours, Anthracite, Cedar and Mist, each aluminium board has a double skin with an extensively tested anti-slip surface and uniform underside to provide an attractive in-built soffit detail. With a 60 year service life and low maintenance requirements, Dura Deck Aluminium is also a perfect solution for public spaces.

For more information, please refer to the Dura Deck Aluminium Product Guide.



Matt-Finish Surface Texture of Free-Drain 18mm in Mist

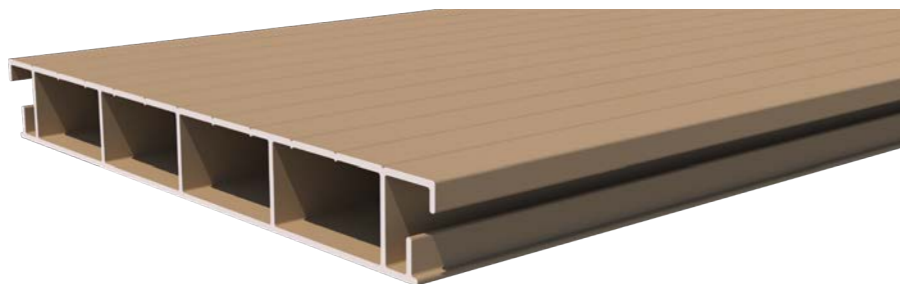


### 18mm Free-Drain

This free draining decking solution allows water to drain through the gaps between the planks onto the area below. Dura Deck Aluminium Free-Drain 18mm is ideal for replacing degraded or non-compliant timber on balconies, low level terraces and walkways or new build balconies less than 6m<sup>2</sup> that do not require water management (Patent No. GB 2584725).

Spanning up to 850mm between centres based on a 2kN point load, the decking boards feature a unique design which is particularly suited for use with 'slide-on' cassette balconies, minimising the need for on-site finishing.

The lightweight nature of the boards make them ideal for projects where access restrictions make remedial work tricky using traditional materials. The V-Groove surface is cool in hot weather and has low slip potential in all directions.

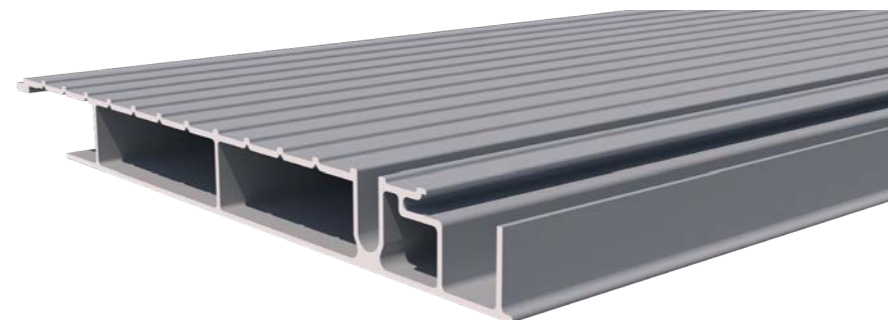


Product	Board Thickness (mm)	Board Length (mm)	Board Width (mm)	Visible Face Width When Installed (mm)	Max Span (mm)	Weight per Length (kg)
Dura Deck® Aluminium 18mm Free-Drain						
18mm Free-Drain	18	3660	150	150	850	4.61
Start Stop Trim			21.3	15		0.12
Main Trim	9.1		27.6	6-10		0.18
			50			0.2
Cut Down Trim	19.2	3660	22	15		0.13
End Closure Trim	19		45	10		0.22

### 18mm Positive-Drain

Dura Deck Aluminium Positive-Drain 18mm deck boards meet the requirement for positive drainage, especially on stacked balconies of over 6m<sup>2</sup>.

Water is guided to a gutter through the clever patented design (Patent No. GB 2584725). Spanning up to 1050mm between centres on a 2kN point load, the decking boards feature innovative shadow gaps and a reeded surface for that traditional deck look.



Product	Board Thickness (mm)	Board Length (mm)	Board Width (mm)	Visible Face Width When Installed (mm)	Max Span (mm)	Weight per Length (kg)
Dura Deck® Aluminium 18mm Positive-Drain						
18mm Positive-Drain		5800	150	150	1100	1.51
Starter Trim	18		41	20		0.46
Finishing Trim			28	37		0.24
End Closure Trim	19		45	10		0.22

### 27mm Positive-Drain

Perfect for balcony projects with in-built drainage trays where non-compliant timber is being replaced and large spans are required. Other suitable applications include commercial walkways and pedestrian bridges. Spanning up to 1400mm between centres on a 2kN point load, the decking boards feature a 27mm profile which means fewer structural supports are required for the balcony or terrace build-up, saving time and money.

The innovative tongue and groove interlocking design features a hidden fixing channel which hides the fixing screws and makes installation quick and easy.

Dura Deck Aluminium Positive-Drain 27mm deck boards meet the requirement for positive drainage as water is guided to a gutter through the clever patented design (Patent No. GB 2584725).



Product	Board Thickness (mm)	Board Length (mm)	Board Width (mm)	Visible Face Width When Installed (mm)	Max Span (mm)	Weight per Length (kg)
Dura Deck® Aluminium 27mm Positive-Drain						
27mm Positive-Drain		3660	178	150	1400	2
Starter Trim	27		61.2	41		0.84
Finishing Trim			53	38		0.47
End Closure Trim	28		45	10		0.27

## 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.



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!

Product	Height (mm)	Width (mm)	Length (mm)	Weight per Length (kg)
Dura Bearer	25	48	3660	3.4
Dura Bearer	50			3.5
Dura Bearer	75			6.1

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 10mm adjustment when installing any bearer option in combination with the 25.5mm pedestal).



Product	Height (mm)	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)
Dura Bearer & Pedestal Combinations							
Dura Pedestal	25.5	28	38	53	63	78	88
	50.5	53	65.5	53	88	78	113
	85.5	88	100.5	88	123	113	148
	117.5	120	132.5	120	155	145	180
	152.5	155	167.5	155	190	180	215
	187.5	190	202.5	190	225	215	250
	222.5	225	237.5	225	260	250	285

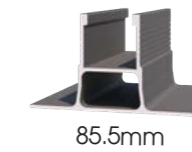
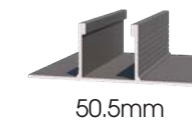
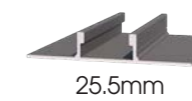
## Dura Pedestals

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.

For more information on Dura Pedestals and Bearers and their installation process, please refer to the Aluminium Decking Substrate Technical Manual.



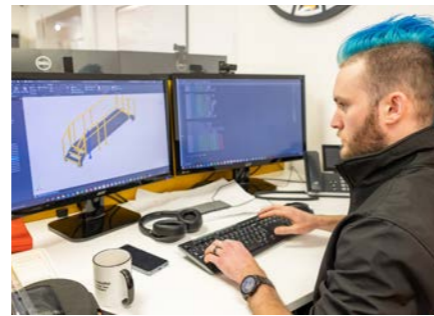
Product	Height (mm)	Length (mm)	Weight (kg)
Dura Pedestal			
Dura Pedestal	25.5	150	0.27
	50.5		0.33
	85.5		0.5
	117.5		0.58
	152.5		0.66
	187.5		0.75
	222.5		0.83

# Value Added Services

## CAD

Our Computer Aided Design (CAD) team use a variety of software including Inventor, Solidworks, Revit, 3Ds Max, Autocad and Navisworks to turn your ideas into reality. Working closely with the fabrication team, they can analyse, design and create bespoke fabrications tailored to your needs. Throughout the project they will be on hand to support you as you need them.

Using our CAD team can highlight any mistakes or clashes early on in the design phase and eliminate them before moving to the fabrication or installation phase.



## CAE

Our computer-aided engineering services utilise a range of analysis tools to simulate the effects of different conditions on our composite products and structures using multiple simulated loads and constraints.

Our CAE tools are also used to analyse and optimise the designs created within CAD software.



## FEA

If you need structural efficiency gains in your designs we can make it happen using verification and analysis tools such as a Finite Element Analysis (FEA). Our in-house Structural Engineering Team can support you with design optimisation and failure analysis to analyse the strength of complex structures and systems, determine individual component behaviour, and accurately predict how sections will react under structural and thermal loads.

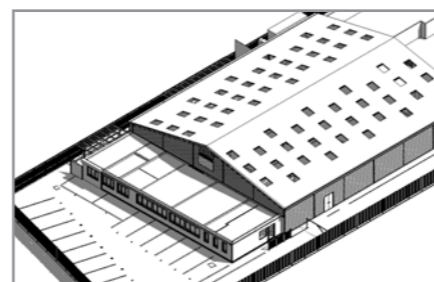
## 3D Laser Scanning

Our 3D laser scanning service uses the latest in area scanning technologies to create an exact 3D replica of your project site or premises. This can then be utilised by either Dura Composites' in-house designers to recreate your site specific requirements, or passed to your own internal team.



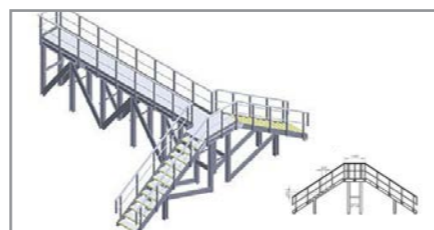
## Site Surveys

Our experienced team are available to attend site surveys to assess the detailed requirements of your fabrication project and to supplement and verify the site information provided as part of the initial client brief. Initial site surveys for particularly tricky or challenging locations can be supplemented with our 3D laser scanning service to create exact measurements.



## Fabrication Drawings

To turn designs into reality once the design is approved, we produce a set of detailed fabrication drawings. These ensure that each component part is assembled efficiently, cost effectively and to the required performance criteria.



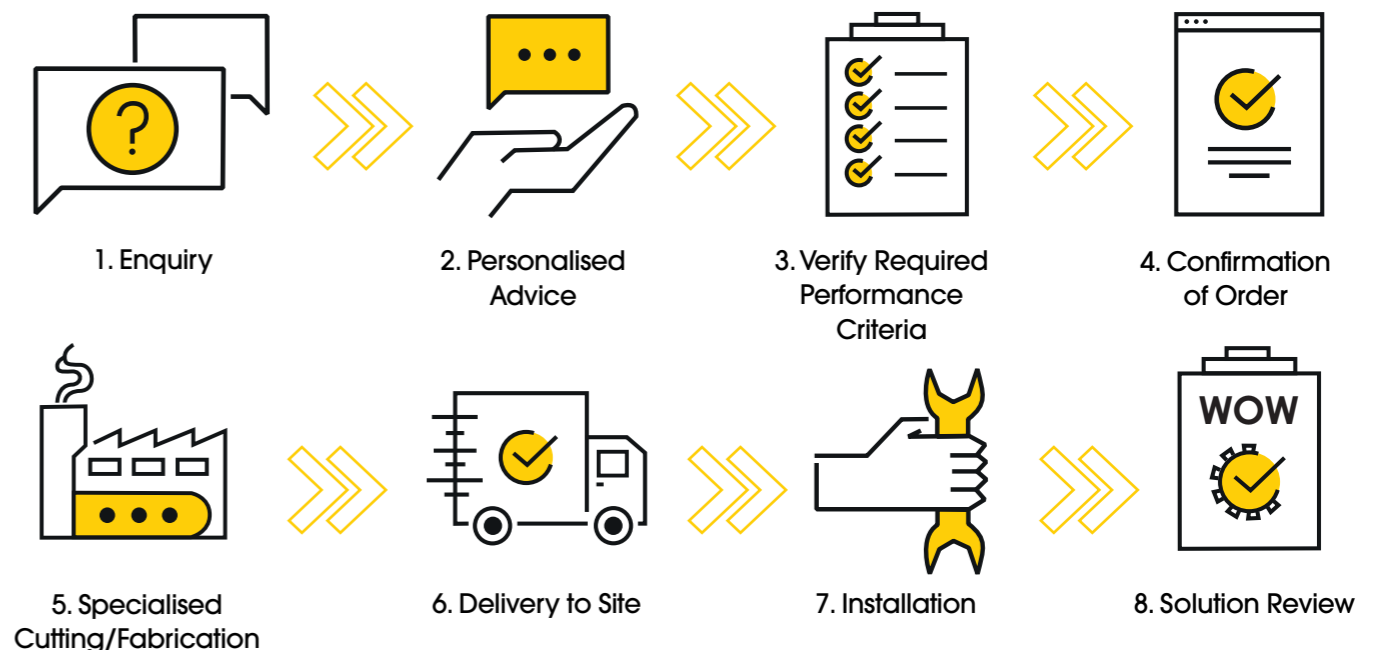
# Let Dura Composites Unlock the Power of Composites for Your Next Project

Dura Composites is one of the world's leading suppliers of composite materials.

## Here are a few great reasons to work with us:

- 1 Unique products backed up by demonstrably better specification**
  - We can help support your design services across all phases of the project lifecycle by providing detailed technical specifications for our award-winning product range.
  - Our live load testing data is available within our searchable Online Product Selector database to help you make decisions based on real data to ensure maximum safety for your project.
- 2 We only offer the right solution**
  - We believe that decisions on which products to use should be based on facts, not guesses or theories.
  - Whatever your scenario, you can be confident that we'll help ensure your project will meet the load performance and specification needed, otherwise we won't supply it!
- 3 25 Years of Multi-Industry Expertise**
  - We've had a reputation as leaders in innovation for a quarter of a century and take a collaborative approach to working with our Public and Private sector clients. We were awarded the prestigious Queen's Awards for Enterprise in 2017 and 2020 in recognition of our success in growing and championing the use of composite materials across the globe.
  - Our added value services include in-house CAD and Structural Engineering teams who can be utilised both for stand-alone design and as part of larger integrated design scheme.
  - Our specialist cutting and fabrication teams offer a full range of services to ensure you can install with confidence.

## Your process with us at Dura:





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