

Data Booklet

d² Dura Quicksan® 18mm

Safer. Stronger. Greener. Proven.

**Contains everything you need to design,
specify & buy with confidence:**

- Technical Information
- Load & Deflection
- Test Performance
- Sustainability Information
- Product Composition
- Chemical Resistance
- Safety Guidance
- Cleaning & Maintenance
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- Packaging Information
- Warranty



duraTM
composites



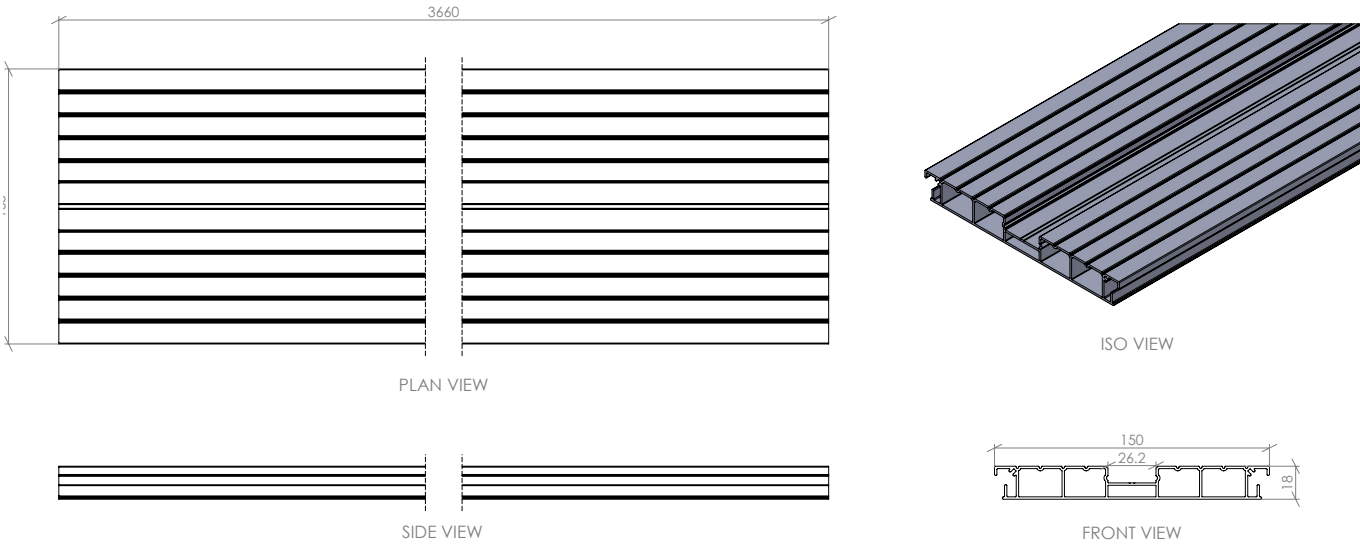
Technical Information

d² Dura Quickspan® is a high-performance, fire-rated aluminium decking system engineered for balconies, terraces, and walkways. It offers market-leading strength, adaptable drainage, and a fully finished appearance - while achieving A2-s1, d0 fire safety compliance.

The patent-pending design allows the system to perform as either free-draining or positive-draining - giving you total control over drainage requirements without changing boards. This built-in flexibility makes Quickspan® ideal for both new build and refurbishment projects, where drainage needs may vary or evolve.

Patent No:	GB2615096
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d ² Dura Quickspan® Plank				
Length (mm)	Width (mm)	Depth (mm)	Plank Weight (kg)	Embodied Carbon Per Plank (kg CO ₂ e)
3660	150	18	5.42	36.3



Standard Colours

Our d² Quickspan® is supplied in Anthracite as standard.

Standard Colour	RAL Number	Plank	Channel Insert	Gutter Insert
Anthracite ●	7043	DDA06101	DDA06102	DDA06103

Bespoke Colours & Lengths

To meet your project's specific needs, d² Dura Quickspan® can be manufactured at **lengths up to 7m** or in **any RAL colour** — simply provide your preferred code. This flexibility allows seamless integration with architectural palettes, ensures planning compliance, and maintains visual consistency across façades and interior schemes.

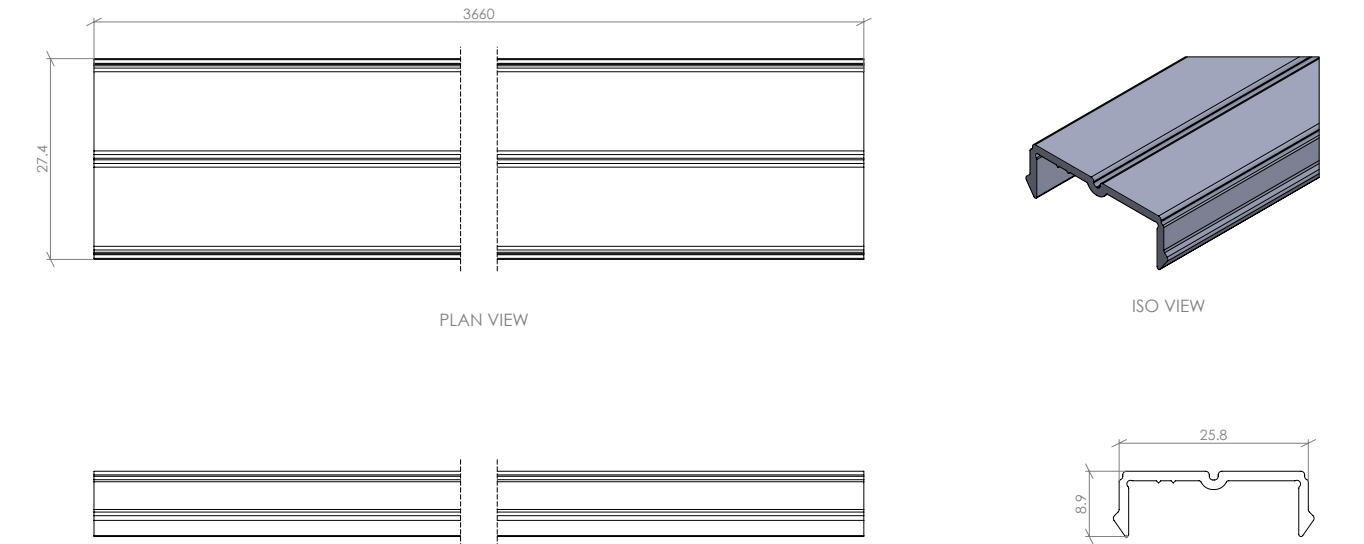


Ancillary Products

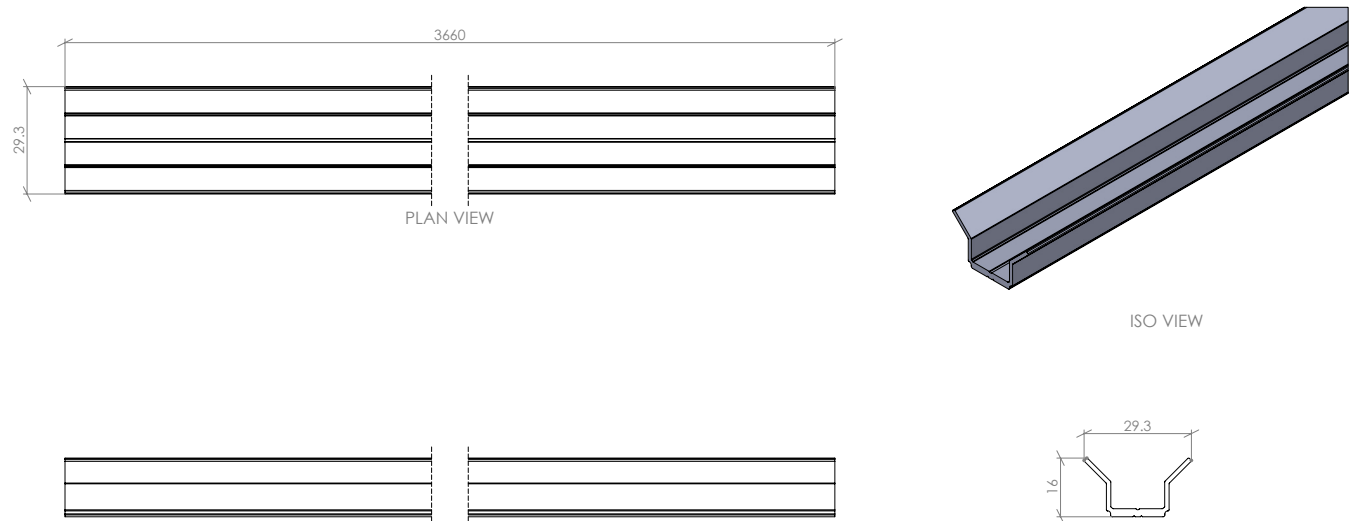
d² Quickspan® is supplied with a Channel Insert which is used to hide the fixings on the plank if desired and an additional drainage Gutter Insert can be added in between each plank to capture and diverted water to outlets at the plank ends, enabling a Positive-Drain system where required.



d ² Dura Quickspan® Channel Insert				
Length (mm)	Width (mm)	Depth (mm)	Product Weight (kg)	Embodied Carbon Per Product (kg CO ₂ e)
3660	25.8	8.9	0.14	3.5



d ² Dura Quickspan® Gutter Insert				
Length (mm)	Width (mm)	Depth (mm)	Product Weight (kg)	Embodied Carbon Per Product (kg CO ₂ e)
3660	29.3	16	0.66	4.72



Load & Deflection Values

Data correct as of 09/25

Determining the correct aluminium decking product depends on the load criteria and surface finish requirement selected by the designer. Dura Composites LIVE load tests and simulates its unique products to systematically determine the performance levels. Other companies rely on generic industry tables despite the wide variation in performance between manufacturers for aluminium decking systems.

Load		Max Span (mm)				
		L/100	L/150	L/200	5mm Deflection	10mm Deflection
Point Load	2kN	1450	1200	1050	1020	1300
UDL	5kN/m²	1650	1400	1300	1220	1450

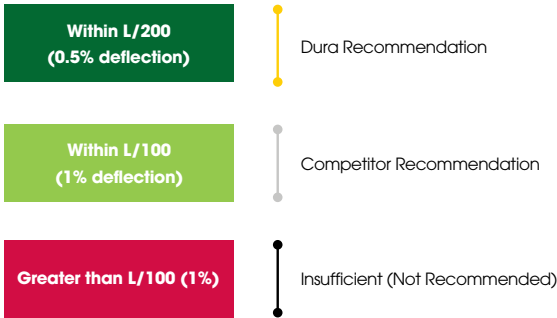
Note: Deflection data is based on preliminary analysis and may be subject to later refinement.

Data Tables

Below you will find the deflection data tables for our d² Dura Quickspan® aluminium descking products. These include standard Point Load & Uniformly Distributed Load values to help you compare the suitability of products.

If your project requires additional criteria not shown here, for more specific span data or you would like to see details for other d² products, visit www.duracomposites.com/powerofcomposites.

Please refer to the colour coded key opposite to determine the parameters for each product variant. If you require further support, please don’t hesitate to contact us.



Clear Span (mm)	Point Load (kN)					
	0.5	1.0	1.5	2.0	2.5	3.0
800	0.6	1.1	1.6	2.1	2.6	3.1

Clear Span (mm)	UDL (kN/m²)					
	1.0	2.0	3.0	4.0	5.0	6.0
800	0.2	0.4	0.5	0.6	0.8	0.9

Key Performance Parameters

The following table presents core metrics derived from a Finite Element Analysis (FEA) study, highlighting the structural behaviour of the d² Dura Quickspan® under various loading conditions. These values support its suitability for demanding design applications.

Parameters		Unit	Result
Partial Factor	Deflection	mm	1.1
	Ultimate Stress	mm	1.1
Elastic Modulus		GPa	68.9
Yield Strength		MPa	170
Pin Bearing Strength		Ma	478.7
Design Yield Strength		MPa	154.5
Design Pin Bearing Strength		MPa	435.2
Span		mm	800
Allowable Deflection		mm	4
Dead Load (DL)		kN/m²	Self-Weight
Live Load	LL1	kN Concentrated Load	2.0
	LL2	kN/m²	5.0
Deflection for DL LL1		mm	2.1
Deflection for DL LL2		mm	0.8
Von-Mises Stress 1.35DL + 1.5LL1		MPa	537.3
Von-Mises Stress 1.35DL + 1.5LL2		MPa	322.8

Test Performance Overview






An overview of the product’s relevant test performances. Get in touch if your project requires additional test information.

Requirements	Test	Result	
Fire Rating	BS EN 13501-1 (UKAS Certified)	A2-s1,d0 (Covers all colours in accordance with EGOLF recommendation 003-2016)	
Anti Slip	BS7976-2 4S Slip Test	Low Risk	Dry: 67 PTV
			Wet: 67 PTV
Dry Adhesion	ISO 2409 (Qualicoat Certified)	Pass (GT=0)	
Boiling Water Test		Pass (GT=0)	
Acetic Acid Salt Spray	ISO 9227 (Qualicoat Certified)	Pass	
Aluminium Compliance	AA ADM1 International Building Code (IBC)	Compliant	
Outdoor Exposure	AAMA 2603.02	Compliant	

Sustainability

We enable resilient, greener and safer infrastructure with our d² product range. Our innovative, low-carbon, weight-reducing designs reduce environmental impact and on-site logistics. Uniquely, we offer end-of-life product repurposing, making us the ultimate choice for sustainable infrastructure projects.

Embodied Carbon A1-A3 (production stage) as defined in BS EN 15804	6.63kg CO₂e
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Environmental Product Declaration (EPD)				
Type I (Externally Verified)	Type II (Self-Declared)			
d² Dura Aluminium Decking	d² Dura Quickspan 18mm	d² Dura Quickspan 18mm with Positive-Drain Gutter Insert	d² Dura Quickspan 18mm & Dura Aluminium Substructure Positive-Drain Solution	d² Dura Quickspan 18mm & Dura Aluminium Substructure Free-Drain Solution
				

Product Composition

This safety datasheet (SDS) provides essential health safety and handling information for d² Dura Quickspan®, a composite material used in balcony and high-rise applications. Aluminium is considered non-hazardous in its finished form, however processes such as cutting may generate dust that requires protective measures.

Material

Chemical Name: 6063 T6 Grade Aluminium (made from 68.5% recycled content)
Product Identification: d² Dura Quickspan® 18mm

Finish Type

Finish: Powder Coated

Composition

Magnesium (Mg)	Silicon (Si)	Iron (Fe)	Chromium (Cr)	Copper (Cu)	Titanium (Ti)	Manganese (Mn)	Zinc (Zn)	Aluminium (Al)	Others (Each)	Others (Total)
0.45-0.9%	0.2-0.6%	0-0.35%	0-0.10%	0-0.10%	0-0.10%	0-0.10%	0-0.10%	Balance	0-0.05%	0-0.15%

Safety Guidance

Hazard Identification

None by contact. Dust produced by cutting or grinding can penetrate pores and skin causing itching. Avoid breathing dust, skin contact or dust inhalation when cutting. People with a condition that could be aggravated by dust should avoid cutting or grinding. The product, in its final state, is not classifiable as dangerous element according to the directive 67/548/CEE and following adjustments.

First Aid Procedure

Skin – shower with water and soap. Eyes – flush with sterile eye wash solution.

Fire Fighting Measures

Non-flammable.

Handling & Cutting Guidance

Wear masks and goggles when cutting or grinding. Cover exposed parts of the body. Wear gloves when moving or lifting. Use diamond tipped tools for cutting. There is the possibility of minor cuts from exposed edges – therefore it is recommended cut 5 gloves are worn. Flat sheets should be carried vertically to avoid sag. It is advisable to perform manual handling and PPE assessments prior to use.

Cleaning & Maintenance

d² Dura Quickspan® doesn't stain, fade or rot, so will only require minimal cleaning throughout its life cycle. The best method to clean an aluminium deck is to wash it using warm water and non-abrasive, pH neutral detergent.

General Dirt and Debris

Spray with a hose to remove surface debris. Mop spilt oil/grease/food/drink as soon as possible. Use warm, soapy water and a soft bristled brush to clear dirt and/or debris from contours. Pressure wash to remove stubborn stains.

Household Cleaners

The powder coated finish requires a basic cleaning regime. Strong and abrasive household cleaners are harmful to powder coating and must not be used for cleaning purposes under any circumstances. Acidic, alkaline or alcohol-based cleaning products should also not be used. Stick to a non-abrasive, pH neutral detergent for best results.

Pressure Washing

Pressure washers up to 1500psi may be used to maintain the cleanliness of your Dura Quickspan®. In order to prevent any damage, always keep the pressure nozzle at least 15cm (6 inches) from the surface and avoid concentrated spraying in one area for more than 3 seconds. Use of a pressure washer in this manner will not shorten the lifespan of the material.

Recycling

100% recyclable at the end of its use. Product is not considered a hazardous waste. Abide by local laws and procedures. For more information please contact your Dura Composites project manager or visit www.duracomposites.com/sustainability.

Packaging

Please see below for relevant packaging information for d² Dura Quickspan®.

Packaging	Product Information
Maximum Products Per Pallet	300
Pallet Dimensions (mm)	900 x 900

Warranty

30 year limited warranty available. 60 year structural life expectancy.

Please register your product with us within 30 days of your invoice date. Visit www.duracomposites.com/warranty.

How To Specify Dura Products

Ensuring your project benefits from the full performance of our d² walkway systems.

Private Sector Projects

To ensure your project gains the full benefit of Dura Composites' d² difference — including class-leading low embodied carbon designs, strength-to-weight performance, fire safety and slip-resistance — you should name the product directly in your specification and drawings. A suitable example is:

d² Dura Quickspan 18mm by Dura Composites Ltd (no substitutions permitted).

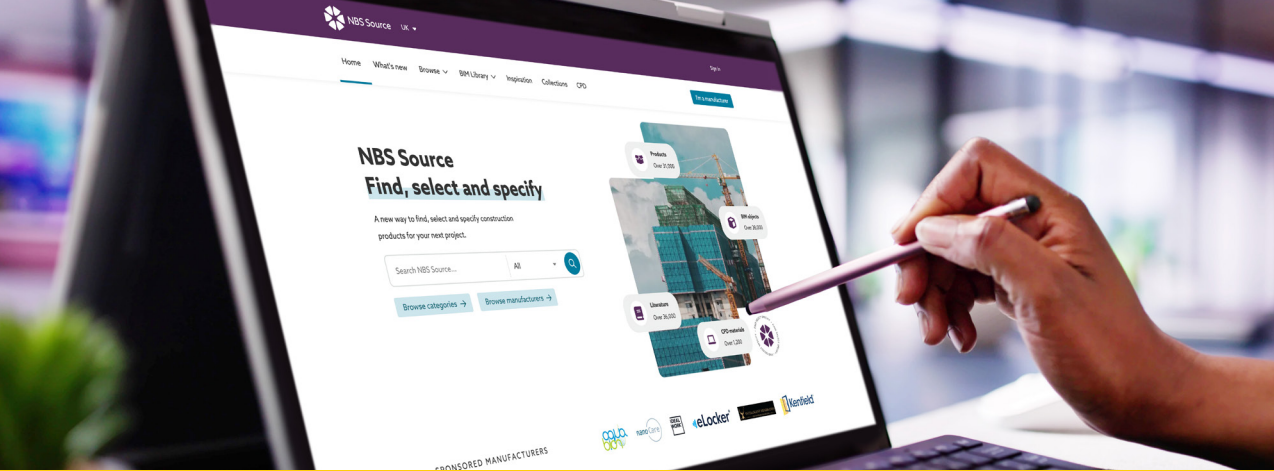
Public Sector Projects

For public contracts, procurement regulations require that any brand-named product is accompanied by the phrase 'or equivalent'. We recommend using the following wording:

Basis of Design:

d² Dura Quickspan 18mm by Dura Composites Ltd (or equivalent).

To protect your specification intent, make clear that any proposed equivalent must meet the same technical standards that informed your original product selection. This includes, for example, compliance with BS 4592 for industrial flooring, BS EN 13501-1 for fire performance, and valid third-party Environmental Product Declarations (EPDs) for embodied carbon data.



Finding Dura on NBS Source

You can find and specify Dura products directly via NBS Source by searching "Dura Composites". Our listings include detailed technical data, downloadable BIM objects, product descriptions and relevant certifications to support accurate inclusion in your project documentation.

Need Support?

Our team is happy to assist with specification language, product data and technical guidance to ensure your design intent is maintained throughout procurement.

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duraTM
composites

The Lowest Carbon Decking Components For Balcony Projects In The World

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