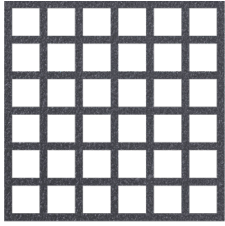


# Product Datasheet

## d<sup>2</sup> Dura Grating 38mm Standard Mesh



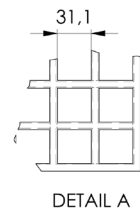
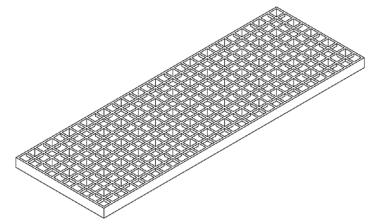
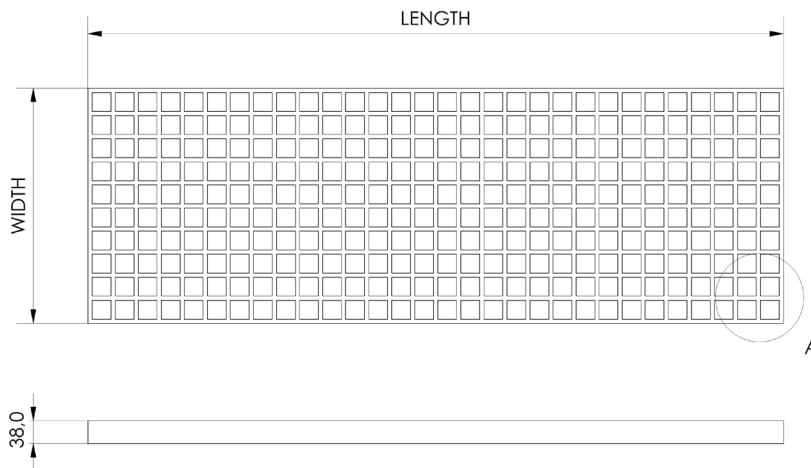
### Product Description

d<sup>2</sup> Dura Grating is a new patent pending GRP grating series that takes structural flooring to the next level. Available exclusively from Dura Composites, our Standard Mesh grating range achieves an industry-leading Class B fire rating according to BS EN 13501-1.

Designed, developed and manufactured by Dura Composites, d<sup>2</sup> Dura Grating's anti-slip surface is tested to over 1 million footfalls. It offers outstanding safety, performance and durability and is more cost-effective than traditional GRP grating in almost every scenario.

### Product Details

Length (mm)	Width (mm)	Colours / Product Codes	Panel Weight (kg)	Weight (kg/sqm)	Open Mesh Size (mm)
3054	996	Dark Grey (DG03003), Yellow (DG03012), Green (DG03022)	40.15	13.2	31 x 31
3664	1224	Dark Grey (DG03002), Yellow (DG03011), Green (DG03021)	59.18		



### Product Applications

Common applications for d<sup>2</sup> Dura Grating include walkways, gantries, gully covers, service risers, access platforms, stair treads, ramps, bund flooring, roof walkways, fencing, gates, trash screens, pontoons, mezzanines and low-rise balcony flooring.

### Packaging

Please see below for relevant packaging information for d<sup>2</sup> Dura Grating 38mm Standard Mesh.

Packaging	Product Information
Maximum Products Per Pallet	25
Pallet Dimensions (mm)	3070 x 1020 x 1130
	3680 x 1230 x 1130
Pallet Weight (kg)	1140
	1643

### Colours

Please see below for our d<sup>2</sup> Dura Grating RAL colours.

Dura Colours	RAL Number
Dark Grey ●	7043
Yellow ●	1012
Green ●	6035

### Material

Glass Reinforced Polymer (GRP) d<sup>2</sup> Dura Grating is produced from glassfibres laminated together using an Orthophthalic Polyester Resin system and a gritted finish. It is resistant against a wide range of chemicals and temperature spectrums. Material samples are available on request, along with a copy of our chemical resistance data. Other resin types are available by special order.

## Test Performance Overview

4S Slider Pendulum Test	BS EN 13501-1	BS 4592	European 35mm Ball Fall Test
PTV: 72 (dry)*, 62 (wet)*	Class B	Compliant	Compliant

\*Maintains 95% of slip resistance after 1.1 million footfalls.

For more information please refer the Technical Installation Manual or speak to your Dura Composites Representative.

## Load and Deflection Data

Deflection is shown in millimetres (mm), with all columns denoting clear spans. Green/red cell colours indicate above and below L/100, which is the equivalent of 1% deflection. To view data for alternative standard load deflection such as L/200, or specific data for your project, visit [www.duracomposites.com/power-of-composites](http://www.duracomposites.com/power-of-composites).

### Point Load (PL)

	1350mm	1400mm	1450mm	1500mm	1550mm	1600mm
0.5 kN/ PL	3.5	3.7	3.9	4.0	4.2	4.3
1.0 kN/ PL	6.8	7.1	7.5	7.8	8.2	8.5
1.5 kN/ PL	9.7	10.3	10.9	10.9	12.0	12.5
2.0 kN/ PL	12.6	13.4	14.1	14.9	15.7	16.4
2.5 kN/ PL	15.4	16.4	17.3	18.3	19.3	20.3
3.0 kN/ PL	18.2	19.4	20.5	21.7	22.9	24.1

### Maximum Spans (mm)

Load	L/100	L/200
0.5 kN	3500	3500
1.0 kN	3500	1350
1.5 kN	3360	880
2.0 kN	1530	580
2.5 kN	1150	-
3.0 kN	980	-

### Uniformly Distributed Loads (UDL)

	950mm	1000mm	1050mm	1100mm	1150mm	1200mm
2.5 kN/m <sup>2</sup> UDL	3.8	4.5	5.4	6.3	7.4	8.6
3.0 kN/m <sup>2</sup> UDL	4.5	5.4	6.5	7.6	8.9	10.3
3.5 kN/m <sup>2</sup> UDL	5.3	6.3	7.5	8.9	10.4	12.0
4.0 kN/m <sup>2</sup> UDL	6.0	7.2	8.6	10.2	11.9	13.8
4.5 kN/m <sup>2</sup> UDL	6.9	8.2	9.8	11.6	13.5	15.6
5.0 kN/m <sup>2</sup> UDL	7.8	9.3	11.1	13.0	15.2	17.5

### Maximum Spans (mm)

Load	L/100	L/200
2.5 kN/m <sup>2</sup>	1390	1040
3.0 kN/m <sup>2</sup>	1280	960
3.5 kN/m <sup>2</sup>	1200	910
4.0 kN/m <sup>2</sup>	1130	860
4.5 kN/m <sup>2</sup>	1080	820
5.0 kN/m <sup>2</sup>	1020	780

Key: ● = Within limits ● = Out of limits

## Safety Information

It is advisable to undertake a risk assessment, with particular focus on manual handling procedures. Wear appropriate gloves and coveralls to shield skin from abrasions. If shaping the product, it is essential to factor in the potential production of dust. To mitigate this, it is vital to either suppress the dust at source or employ effective extraction methods. We strongly recommend the use of appropriate respiratory protective equipment (RPE), specifically filtering facepiece class 3 (FFP3) masks, alongside adequate eye protection to guard against dust.

## Recyclability

Return to manufacturer or downcycle.

## Sustainability

The embodied carbon for A1-A3 (production stage) as defined in BS EN 15804 is 3.8kg CO<sub>2</sub> eq/unit.

## Common Fixing Options

Some of the most common stainless steel fixing options are shown below. For a full list of fixings please see the d<sup>2</sup> Dura Grating brochure.



Large Dome Washer  
(BFX01003)



Extra Large Dome Washer  
(BFX02165)



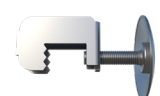
M Clip  
(BFX01013)



Offset J Clamp  
(FX01128)



Large Square Recessed Clip  
(BFX01006)



Jaw Clamp  
(FX01033)

## Warranty

25 year limited warranty available. Please register your product with us within 30 days of your invoice date. Visit [www.duracomposites.com/warranty](http://www.duracomposites.com/warranty).