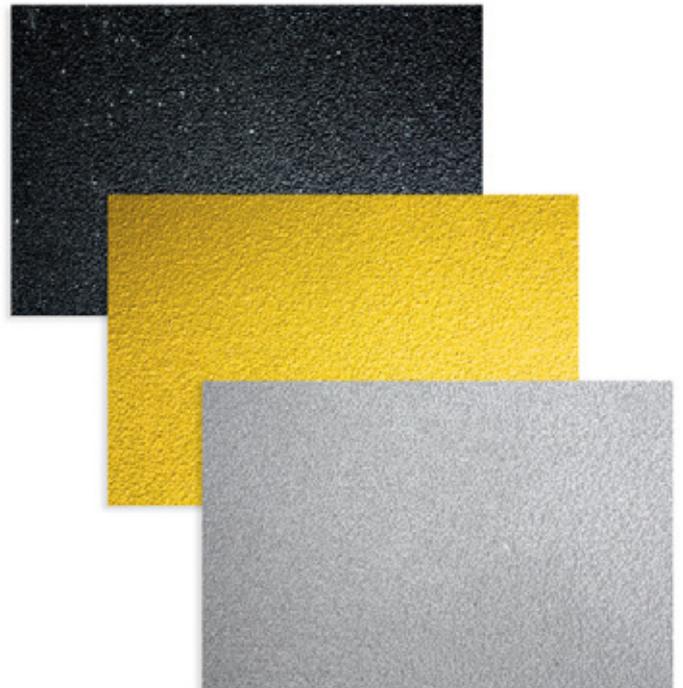
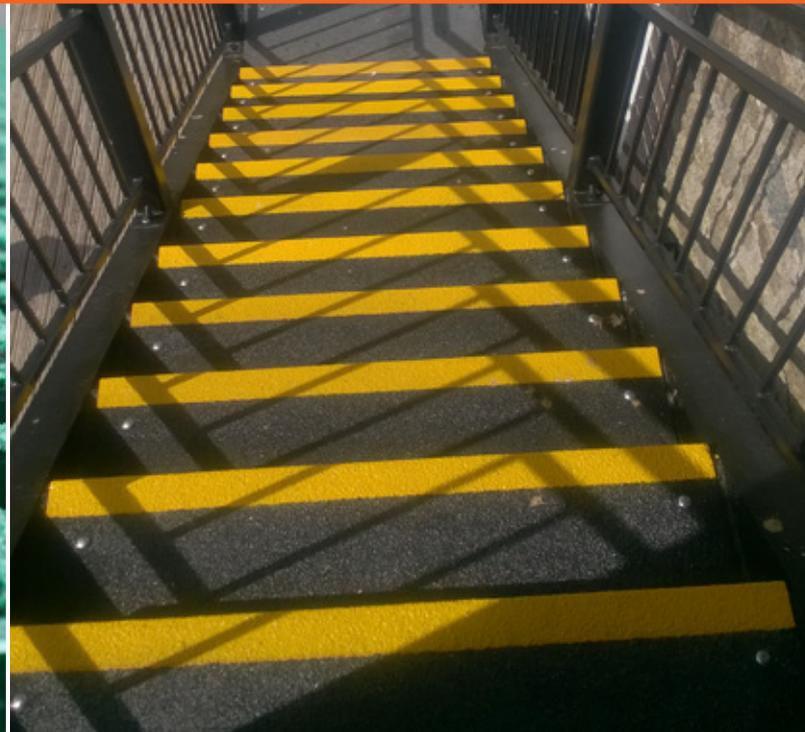
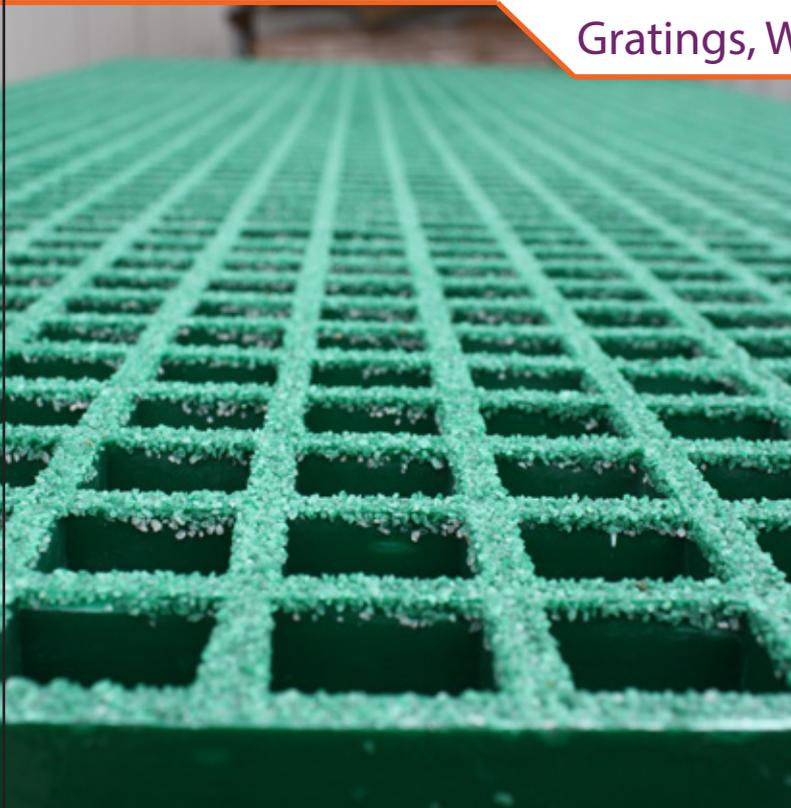


Revision #	Revision Date
# 0	18/01/2023
# 1	02/03/2023

GRP Non-slip

Gratings, Walkways & Clips > Stair Covers > Sheets



Introduction

Lockinex UK Ltd stock and supply a large range of non-slip GRP gratings in 3 main colours (green, grey and yellow) with various thicknesses, aperture sizes and overall sheet sizes to suit your requirements.

A range of grating clips are also available which are all manufactured from 316 grade stainless steel for a top quality finish and long service life.

Our other accompanying non-slip GRP products consist of stair tread covers, stair tread nosings and 4mm thick flat sheets.

With large stocks, we can offer rapid delivery at leading UK prices.

Application

Our GRP gratings and non-slip products are generally used to construct suitable non-slip flooring & stair treads. They also offer higher levels of corrosion resistance over steel products and are suited to marine, food processing, water treatment and other high corrosion environments. The non-conductive properties of GRP also mean they are commonly used in the rail and electrical power industry.

Composition & Manufacture

GRP Gratings with UV inhibitor and fire resistance. Manufactured from Isophthalic Polyester Resin.

Tested to BS EN 13501-1:2018 Class B, S1, D0 flame spread for 32 & 50mm thick gratings

Tested to BS EN 13501-1:2018 Class C, S2, D0 flame spread for 25mm thick gratings

Load tested to BS 4592-0:2006 + A1:2012.

All gridded non-slip products fall into the enhanced slip resistance category as per BS 4592-0:2006+A1:2012.

GRP Grating Key Features

Solid top, 12.7mm (shown), 32mm & 42mm surface apertures/holes available.

Durable gridded surface for enhanced slip resistance as per BS 4592-0:2006+A1:2012.

25mm, 38mm & 50mm thickness available to suit required loadings and support span.

Fully Compliant with BS EN 13501-1:2018

Available colours: Green (RAL 6039), Grey (RAL 7035) & Yellow (RAL 1003).

Large range of 316 stainless steel holding down and joining clips.



Cutting & Sealing

Lockinex UK Ltd offer a full GRP cutting and sealing service. When GRP grating is cut, we then apply a clear resin with a catalyst to cut edges to seal any exposed fibres and protect them from future degradation.

Please contact us on the details shown at the bottom of the page to discuss your cutting requirements and obtain a quote.



WE CAN
CUT TO
SIZE

Other GRP Products

We provide a wide range of other GRP products that compliment our GRP flooring range, readily available from stock.

All other GRP products and brochure downloads are available online at www.lockinex-store.com

GRP Profiles, Key Clamp & Handrails



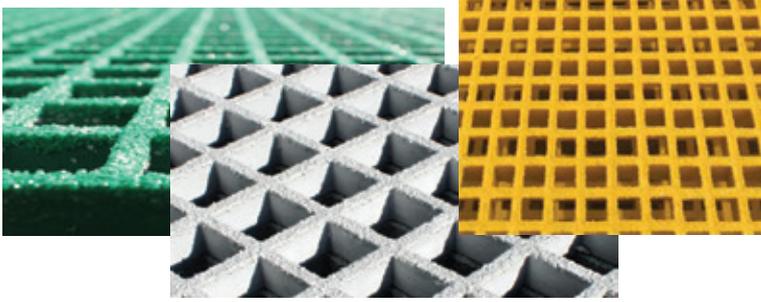
Design, Build, Deliver

Using our full range of GRP products (GRP grating/flooring, GRP profiles & GRP handrail systems) along with our in-house design and cutting facilities, we are able to offer the design and manufacture of various GRP structures. Please contact us on the details shown at the bottom of the page to discuss your requirements and obtain a quote.



Standard range of GRP gratings from Lockinex

Lockinex GRP gratings are manufactured from Isophthalic polyester resin and complies with BS 4592-0:2006 + A1:2012 general and heavy duty loading and falls into the enhanced slip resistance category with a coefficient of friction greater than 0.6.

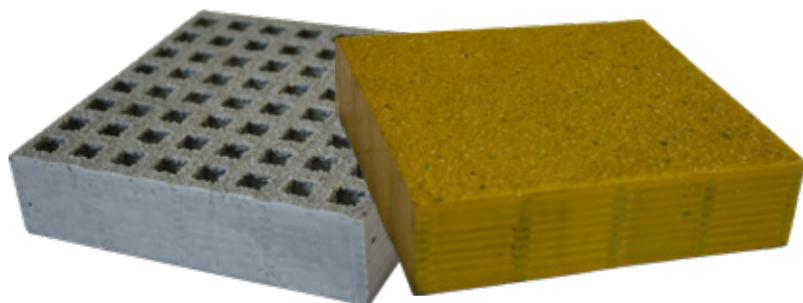


Yellow RAL 1003		Sheet Size (mm)	Aperture Size (mm)	Weight (kg)
GRP-06	25mm Thick	2400mm x 1220mm	32mm x 32mm	30
GRP-27	25mm Thick	3660mm x 1000mm	32mm x 32mm	46
GRP-32	38mm Thick	2400mm x 1220mm	32mm x 32mm	46
GRP-33	38mm Thick	3660mm x 1000mm	32mm x 32mm	72
GRP-63	38mm Thick	3660 mm x 1220mm	32mm x 32mm	88

Green RAL 6029		Sheet Size (mm)	Aperture Size (mm)	Weight(kg)
GRP-05	25mm Thick	2400mm x 1000mm	32mm x 32mm	30
GRP-25	25mm Thick	3660mm x 1000mm	32mm x 32mm	46
GRP-13	38mm Thick	2400mm x 1000mm	32mm x 32mm	46
GRP-31	38mm Thick	3660mm x 1000mm	32mm x 32mm	72
GRP-30	38mm Thick	3660mm x 1220mm	32mm x 32mm	88
GRP-17	50mm Thick	3660mm x 1220mm	42mm x 42mm	99
GRP-21	50mm Thick	2390mm x 1020mm	42mm x 42mm	53
GRP-65	50mm Thick	2390mm x 1220mm	42mm x 42mm	65

Grey RAL 7035		Sheet Size (mm)	Aperture Size (mm)	Weight (kg)
GRP-07	25mm Thick	2400mm x 1000mm	32mm x 32mm	30
GRP-29	25mm Thick	3660mm x 1000mm	32mm x 32mm	46
GRP-15	38mm Thick	2400mm x 1000mm	32mm x 32mm	46
GRP-35	38mm Thick	3660mm x 1000mm	32mm x 32mm	72
GRP-36	38mm Thick	3660mm x 1220mm	32mm x 32mm	88
GRP-19	50mm Thick	3660mm x 1220mm	42mm x 42mm	99
GRP-23	50mm Thick	2390mm x 1020mm	42mm x 42mm	53
GRP-37	50mm Thick	2400mm x 1220mm	32mm x 32mm	130
GRP-67	50mm Thick	2390mm x 1220mm	42mm x 42mm	65

Mini mesh and solid top range of GRP gratings from Lockinex



Lockinex GRP gratings are manufactured from Isophthalic polyester resin and complies with BS 4592-0:2006 + A1:2012 general and heavy duty loading and falls into the enhanced slip resistance category with a coefficient of friction greater than 0.6.

Note- Underlying aperture structure for mini mesh and solid gritted top is 32 x 32mm. When looking at load tables, please use load values for 32 x 32mm aperture to obtain loading capabilities for both micro mesh and solid gritted top GRP flooring.

Yellow RAL 1003				
		Sheet Size (mm)	Aperture Size (mm)	Weight (kg)
GRP-39	38mm Thick	2400mm x 1000mm	N/A solid gritted top	50
GRP-41	38mm Thick	3660mm x 1000mm	N/A solid gritted top	78
GRP-43	38mm Thick	2400mm x 1000mm	12.7mm x 12.7mm	57
GRP-45	38mm Thick	3660mm x 1000mm	12.7mm x 12.7mm	86

Green RAL 6029				
		Sheet Size (mm)	Aperture Size (mm)	Weight(kg)
GRP-47	38mm Thick	2400mm x 1000mm	N/A solid gritted top	50
GRP-49	38mm Thick	3660mm x 1000mm	N/A solid gritted top	78
GRP-51	38mm Thick	2400mm x 1000mm	12.7mm x 12.7mm	57
GRP-53	38mm Thick	3660mm x 1000mm	12.7mm x 12.7mm	86

Grey RAL 7035				
		Sheet Size (mm)	Aperture Size (mm)	Weight (kg)
GRP-55	38mm Thick	2400mm x 1000mm	N/A solid gritted top	50
GRP-57	38mm Thick	3660mm x 1000mm	N/A solid gritted top	78
GRP-59	38mm Thick	2400mm x 1000mm	12.7mm x 12.7mm	57
GRP-61	38mm Thick	3660mm x 1000mm	12.7mm x 12.7mm	86

Stainless Steel 316 fixing clip for fixing down & joining GRP gratings.

Please order separately.

Clips should be placed no more than 1.25 mtr apart in any direction.



C clip joins adjacent panels.

***Note- When using the 12.7mm C clip to join the 12.7mm aperture mini mesh, a bar on each panel must be removed/cut to allow the C clip to be passed through and sit in the correct position (as pictured above).**

ClipC253238

C clip to suit 25mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipC383238

C clip to suit 38mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipC504250

C clip to suit 50mm deep grating with 42mm physical aperture & 50mm mesh centres.

ClipC503238

C clip to suit 50mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipC381219

C clip to suit 38mm deep grating with 12.7mm physical aperture & 19mm mesh centres.



M clip
Holds down panel and fixes into supporting structure.

ClipM2532

M clip for 25mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipM3832

M clip for 38mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipM5042

M clip for 50mm deep grating with 42mm physical aperture & 50mm mesh centres.

ClipM5032

M clip for 50mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipM3812

M clip for 38mm deep grating with 12.7mm physical aperture & 19mm mesh centres.



M Clip & Claw
holds down panels and fixes under supporting structure.

ClipMBC3832

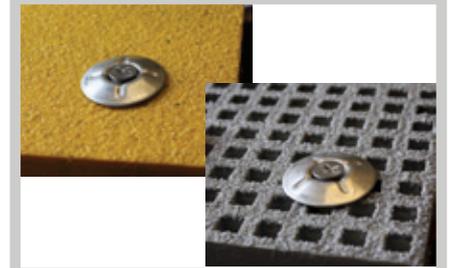
M & Claw to suit 38mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipMBC5032

M & Claw to suit 50mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipMBC5042

M & Claw to suit 50mm deep grating with 42mm physical aperture & 50mm mesh centres.



Dome & Claw
holds down panels and fixes under supporting structure.

ClipDBC253832

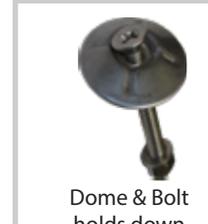
Dome & Claw to suit 25mm deep grating with 32mm physical aperture and 38mm mesh centres.

ClipDBC503832

Dome & Claw to suit 50mm deep grating with 32mm physical aperture and 38mm mesh centres.

ClipDBC503842

Dome & Claw to suit 50mm deep grating with 42mm physical aperture and 50mm mesh centres.



Dome & Bolt
holds down panels and fixes into supporting structure.

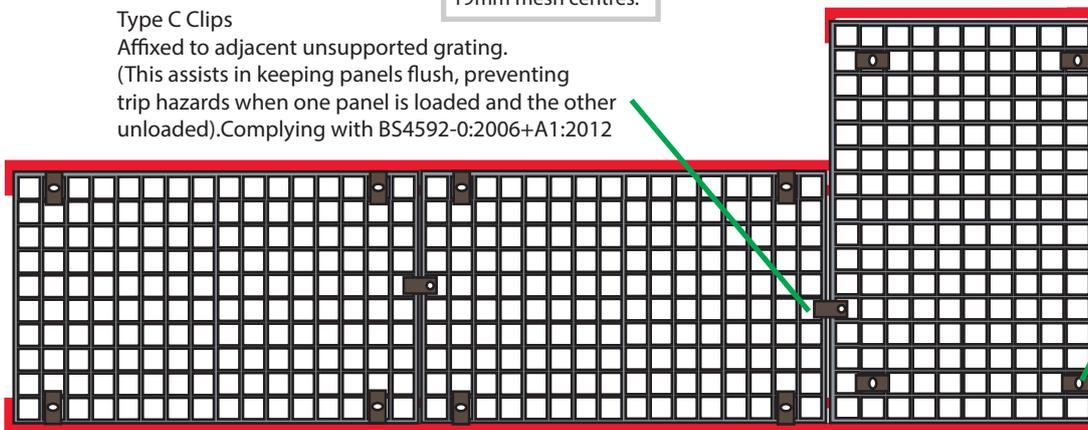
ClipDB2532

Dome & Bolt to suit 25 & 38mm deep grating with 32mm physical aperture & 38mm mesh centres.

ClipDB5042

Dome & Bolt to suit 50mm deep grating with 42mm physical aperture & 50mm mesh centres.

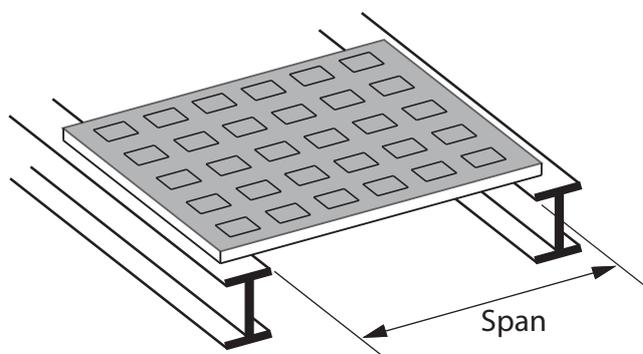
Type C Clips
Affixed to adjacent unsupported grating.
(This assists in keeping panels flush, preventing trip hazards when one panel is loaded and the other unloaded). Complying with BS4592-0:2006+A1:2012



Type M or Dome Clips
Affixed to supporting Structure.
Space at no more than 1.25mtr apart in any direction.

Conformity to BS 4592-0:2006 + A1:2012

Lockinex GRP mesh flooring has been tested to the standards set out in BS 4592-0:2006 + A1:2012. Load tables can be found on the following pages for uniform loading and point loading. Deflection under uniform loads (5.0kN/m for general duty and 7.5kN/m for heavy duty) and point loads (1.5kN for both general and heavy duty) are presented in the load tables. BS 4592-0:2006 + A1:2012 states that deflection must not be greater than 1/200th of the span or 10mm (whichever is lesser) in order for compliance for both uniform and point loading.



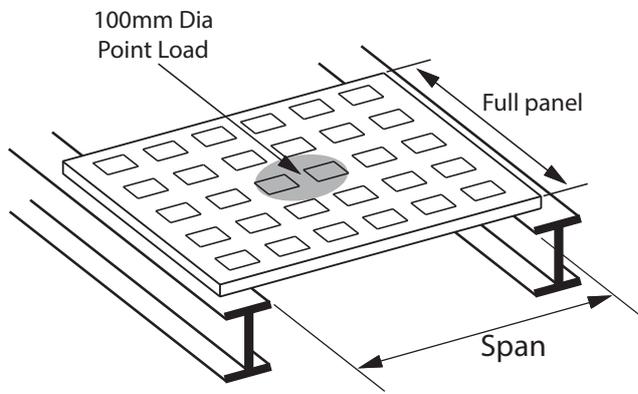
Compliance with BS 4592-0:2006 + A1:2012 is not achieved.

Compliance with BS 4592-0:2006 + A1:2012 general duty uniform load is achieved (min. load of 5kN/m² with a deflection of no more than 10mm OR 1/200th of the span must be achieved).

Compliance with BS 4592-0:2006 + A1:2012 heavy duty uniform load is achieved (min. load of 7.5kN/m² with a deflection of no more than 10mm OR 1/200th of the span must be achieved).

MOULDED FIBREGLASS GRATING- Deflection (d) table for uniform load

Span (mm)	Aperture (mm)	Thickness (mm)	Uniform Load (kN/m ²)							Max. uniform load achievable before deflection exceeds 10mm OR 1/200th of the span
			1	1.20	2.4	3.6	5	7.5	9.6	
305	32 x 32	25	0.06(d)	0.08(d)	0.15(d)	0.23(d)	0.35(d)	0.5(d)	0.69(d)	2473 Kg/m ² = 24.3 kN/m ²
	32 x 32	38	0.02(d)	0.03(d)	0.05(d)	0.08(d)	0.16(d)	0.22(d)	0.21(d)	7130 Kg/m ² = 69.9 kN/m ²
457	32 x 32	25	0.15(d)	0.19(d)	0.39(d)	0.56(d)	0.84(d)	1.17(d)	1.52(d)	1466 Kg/m ² = 14.4 kN/m ²
	42 x 42	50	0.03(d)	0.03(d)	0.07(d)	0.11(d)	0.18(d)	0.26(d)	0.29(d)	7977 Kg/m ² = 78.3 kN/m ²
610	32 x 32	25	0.49(d)	0.61(d)	1.21(d)	1.84(d)	2.49(d)	3.69(d)	4.87(d)	607 Kg/m ² = 6.0 kN/m ²
	32 x 32	38	0.14(d)	0.18(d)	0.37(d)	0.55(d)	0.79(d)	1.12(d)	1.42(d)	2065 Kg/m ² = 20.3 kN/m ²
	42 x 42	50	0.08(d)	0.1(d)	0.19(d)	0.3(d)	0.49(d)	0.65(d)	0.79(d)	3726 Kg/m ² = 36.6 kN/m ²
914	32 x 32	25	2.26(d)	2.8(d)	5.62(d)	8.45(d)	11.36(d)	-	-	194 Kg/m ² = 1.9 kN/m ²
	32 x 32	38	-	-	-	2.55(d)	3.75(d)	5.93(d)	-	611 Kg/m ² = 6 kN/m ²
	42 x 42	50	0.35(d)	0.42(d)	0.87(d)	1.32(d)	1.84(d)	2.67(d)	3.51(d)	1267 Kg/m ² = 12.4 kN/m ²
1219	42 x 42	50	1.08(d)	1.35(d)	2.69(d)	4.05(d)	5.46(d)	8.50(d)	10.78(d)	547 Kg/m ² = 5.4 kN/m ²
1372	32 x 32	38	3.4(d)	4.25(d)	8.52(d)	12.95(d)	-	-	-	192 Kg/m ² = 1.9 kN/m ²
	42 x 42	50	1.73(d)	2.16(d)	4.34(d)	6.51(d)	8.76(d)	13.12(d)	-	382 Kg/m ² = 3.7 kN/m ²
1524	32 x 32	38	5.18(d)	6.46(d)	12.91(d)	-	-	-	-	139 Kg/m ² = 1.4 kN/m ²
	42 x 42	50	2.64(d)	3.29(d)	6.58(d)	9.9(d)	13.32(-d)	-	-	278 Kg/m ² = 2.7 kN/m ²



Compliance with BS 4592-0:2006 + A1:2012 general duty and heavy duty point load is achieved (min. load of 1.5kN with a deflection of no more than 10mm OR 1/200th of the span must be achieved).

Compliance with BS 4592-0:2006 + A1:2012 is not achieved.

MOULDED FIBREGLASS GRATING- Deflection (d) table for point load (Full panel)

Span (mm)	Aperture (mm)	Thickness (mm)	Point Load (kN)							Max point load achievable before deflection exceeds 10mm OR 1/200th of the span
			0.42	1.12	2.23	3.35	5	7.5	8.91	
305	32 x 32	25	0.13(d)	0.34(d)	0.66(d)	0.97(d)	1.46(d)	1.97(d)	2.64(d)	5.1kN = 520 Kg
	32 x 32	38	0.12(d)	0.28(d)	0.39(d)	0.56(d)	0.80(d)	1.12(d)	1.48(d)	9.3 kN = 950 Kg
457	32 x 32	38	0.15(d)	0.35(d)	0.67(d)	0.92(d)	1.33(d)	1.73(d)	2.23(d)	7.9 kN = 805 Kg
	42 x 42	50	0.03(d)	0.12(d)	0.26(d)	0.36(d)	0.52(d)	0.48(d)	0.69(d)	32.6 kN = 3325 Kg
610	32 x 32	25	0.78(d)	1.65(d)	3.43(d)	6.16(d)	7.89(d)	10.26(d)	12.88(d)	1.6 kN = 164 Kg
	32 x 32	38	0.3(d)	0.67(d)	1.3(d)	1.79(d)	2.54(d)	3.48(d)	4.61(d)	5.8 kN = 600 Kg
	42 x 42	50	0.11(d)	0.27(d)	0.56(d)	0.83(d)	1.21(d)	1.65(d)	2.16(d)	12.6 kN = 1285 Kg
914	32 x 32	25	1.83(d)	4.58(d)	9.85(d)	13.52(d)	-	-	-	0.86 kN = 88 Kg
	32 x 32	38	0.65(d)	1.56(d)	3.03(d)	4.27(d)	6.03(d)	9.13(d)	10.86(d)	3.3 kN = 339 Kg
	42 x 42	50	0.31(d)	0.78(d)	1.56(d)	2.35(d)	3.48(d)	4.75(d)	6.39(d)	6.3 kN = 651 Kg
1219	32 x 32	25	3.15(d)	7.82(d)	15.68(d)	-	-	-	-	0.64 kN = 66 Kg
	32 x 32	38	0.95(d)	2.41(d)	*4.71(d)	6.9(d)	10.03(d)	13.55(d)	-	*2.5 kN = 258 Kg
	42 x 42	50	0.57(d)	1.45(d)	2.88(d)	4.3(d)	6.35(d)	8.55(d)	11.34(d)	4.6 kN = 475 Kg
1372	32 x 32	38	1.49(d)	3.79(d)	7.58(d)	11.3(d)	-	-	-	*1.9 kN = 202Kg
	42 x 42	50	0.83(d)	2.09(d)	*4.15(d)	*6.21(d)	9.09(d)	-	-	*3.6 kN = 373Kg
1473	32 x 32	38	1.86(d)	4.72(d)	9.32(d)	-	-	-	-	*1.7 kN = 175 Kg
	42 x 42	50	1.07(d)	2.69(d)	*5.12(d)	7.76(d)	11.32(d)	-	-	*3.1 kN = 323 Kg
1524	42 x 42	50	1.21(d)	2.96(d)	*5.84(d)	8.57(d)	-	-	-	*2.9 kN = 301 Kg

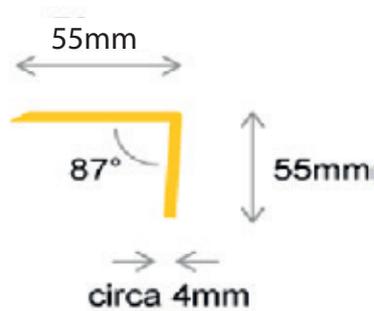
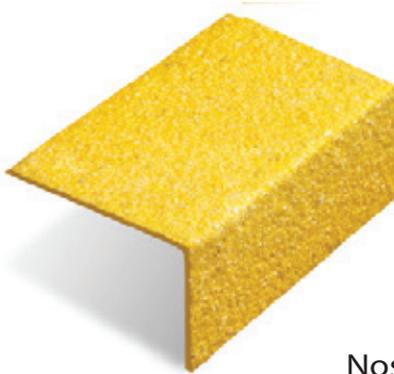
*For the results noted with *, the point load capability is greater than 1.5kN and therefore satisfies the regulations for the given span.

However the corresponding uniform load capability does not satisfy the standard.



Stair Tread Covers

Product Code	Tread Size(mm)	Weight (Kg)
ST106	Length 600 x 345 x 55	1.4
ST107	Length 800 x 345 x 55	1.8
ST108	Length 1200 x 345 x 55	2.7
ST109	Length 1800 x 345 x 55	4.2
ST110	Length 2400 x 345 x 55	6.3
ST111	Length 3000 x 345 x 55	7.8
ST112	Length 3660 x 345 x 55	9.5



Nosing

Product Code	Nosing Size(mm)	Weight (Kg)
ST206	Length 600 x 55 x 55	0.5
ST207	Length 800 x 55 x 55	0.7
ST208	Length 1200 x 55 x 55	1.0
ST209	Length 1800 x 55 x 55	1.4
ST210	Length 2400 x 55 x 55	1.8
ST211	Length 3000 x 55 x 55	2.3
ST212	Length 3660 x 55 x 55	2.8



Product Code	Sheet Size(mm)	Weight (kg)
ST301 (Black RAL 9004)	'a' 2400 x 1200 'b'	18
ST302 (Black RAL 9004)	'a' 1200 x 1200 'b'	9
ST 303 (Yellow RAL 1003)	'a' 2400 x 1200 'b'	18
ST304 (Yellow RAL 1003)	'a' 1200 x 1200 'b'	9
ST305 (Grey RAL 7035)	'a' 2400 x 1200 'b'	18
ST306 (Grey RAL 7035)	'a' 1200 x 1200 'b'	9
ST512 (Hazard Stripes)	'a' 2400 x 1200 'b'	18
ST513 (Hazard Stripes)	'a' 1200 x 1200 'b'	9
ST514 (Hazard Chevrons)	'a' 2400 x 1200 'b'	18
ST515 (Hazard Chevrons)	'a' 1200 x 1200 'b'	9
ST516 (Keep Clear)	'a' 2400 x 1200 'b'	18
ST517 (Black Zebra)	'a' 600 x 1200 'b'	5
ST518 (White Zebra)	'a' 600 x 1200 'b'	5

For stair tread covers and nosing, use a high strength adhesive or mechanically fix by drilling and screwing. Adhesive is available from most hardware/DIY stores.



The above adhesive is recommended for fixing stair tread covers and nosing.

Cutting and grinding of GRP COSHH data (Control of Substances Hazardous to Health)

Chemical composition and description

Lockinex GRP grating is manufactured from Isophthalic unsaturated polyester resin.

Surface grit consists of either quartz or carborundum

Hazard Identification

Dust produced by cutting or grinding may cause severe irritation when in contact with skin or eyes.

Inhalation of dust caused by cutting or grinding may cause respiratory irritation.

Handling, cutting & grinding

To prevent the above hazards occurring, it is recommended that suitable PPE be worn at all times during the cutting and grinding process. Gloves, full length overalls (or similar), goggles & work boots should be worn to cover all exposed skin and eyes to prevent contact with GRP dust. A suitable dust mask or respiratory system should be worn to prevent dust inhalation.

If cutting with a jigsaw (or similar), use GRP specified cutting blades. Otherwise, use diamond cutting tools.

There is no work exposure limit (WEL) specified specifically for exposure to GRP. However, there is a WEL specified for nuisance dust of 10 mg/m³ averaged over an 8-hour day, which would apply to GRP dust. Therefore suitable ventilation is required. LEV (local exhaust ventilation) may be required in confined areas and must be assessed by the cutting/grinding personnel.

Treatment

If dust comes into contact with skin, wash irritated areas with warm soap and water.

If dust comes into contact with eyes, use sterile eye wash solution. If unavailable, wash eyes with warm water.

If respiratory irritation is experienced, leave the cutting/grinding area immediately and seek a well ventilated area.

If respiratory, skin or eye irritation continues at a severe level, seek medical attention.

Waste disposal

Abide by local laws and procedures. Product is not considered hazardous waste.

Fire fighting

This product has been tested in accordance with BS EN 13501-1:2018

Product will not burn when cutting or grinding.

Product will eventually ignite & burn if in direct contact with fire.

Extinguishing media, water, foam, A,B OR C extinguishers.