

Gripatex GRP
Anti Slip products
Stair Tread Covers
Mesh Walkway
Flat Sheet

Lockinex[®]
great service, great quality

INTRODUCTION

The Gripatex range of GRP Products is available directly from Lockinex UK Ltd.

The range includes, Mesh Walkway Gratings, Stair Tread covers & Nosing, Flat gritted Sheet.

APPLICATION

Used throughout industry sectors such as Power Plants, Petro chemical, Waste & Recycling, Water Authorities, Rail and much more.

The anti Slip surfaces improve safety under foot and are suitable for ramps, stairs and walkways.

DESIGN

Designed to provide a robust anti slip surface.

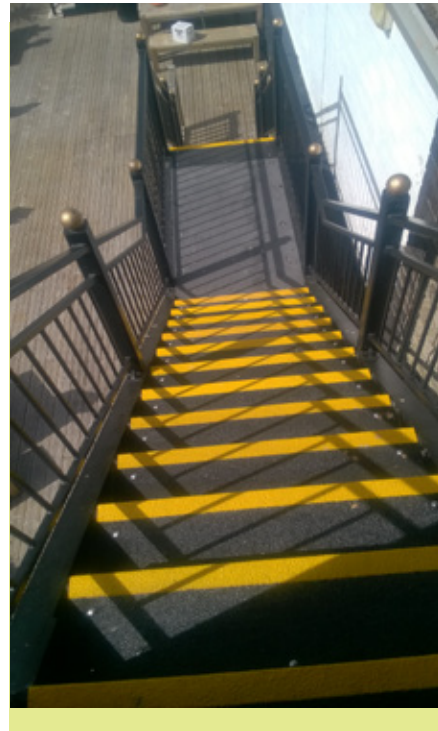
The open mesh walkway panels have load tables shown in the following pages. These provide guidelines for spans between supporting members.

COMPOSITION, MANUFACTURE

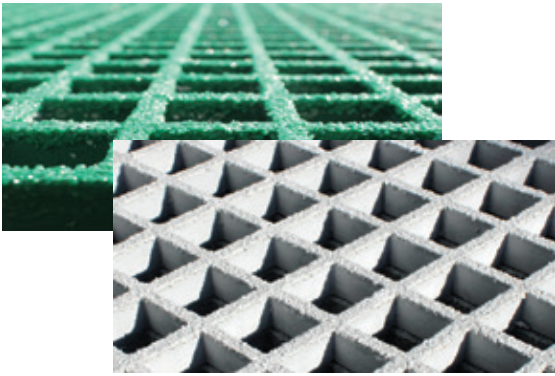
Gfrp moulded panels, with UV inhibitor and fire resistance, Isophthalic Polyester & Vinylester.

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

Providing chemical resistance and fire retardant.



The above is an installation located in London City Airport. It utilises key clamp handrail system, Steel Kick-plate/Toe-board and our Non-slip flooring open mesh GRP Flooring.



Yellow RAL 1003

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

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-17	50mm Thick	3660mm x 1220mm	42mm x 42mm	99
GRP-21	50mm Thick	2390mm x 1020mm	42mm x 42mm	53

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-11	38mm Thick	3660mm x 1220mm	32mm x 32mm	85
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 1000mm	32mm x 32mm	100

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.



Gripatex-Type C -25mm (For 25mm deep grating)
 Gripatex-Type C - 38mm (For 38mm deep grating)
 Gripatex-Type C - 50mm (For 50mm deep grating)



Gripatex-Type M - 25mm (For 25mm deep grating-32mm aperture)
 Gripatex-Type M - 38mm (For 38mm deep grating-32mm aperture)
 Gripatex-Type M - 50mm (For 50mm deep grating-42mm aperture)

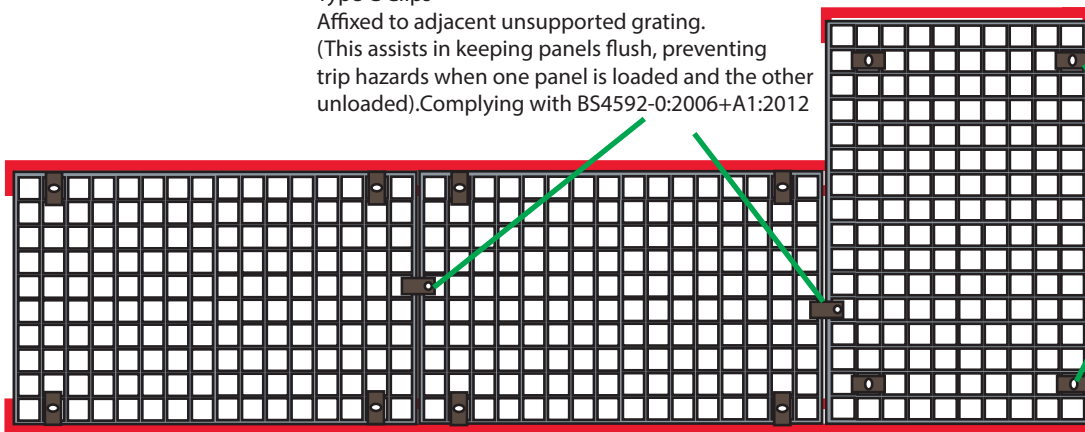


Type C clip joins panels.



Type M clip
 Holds down panel and fixes onto supporting structure.

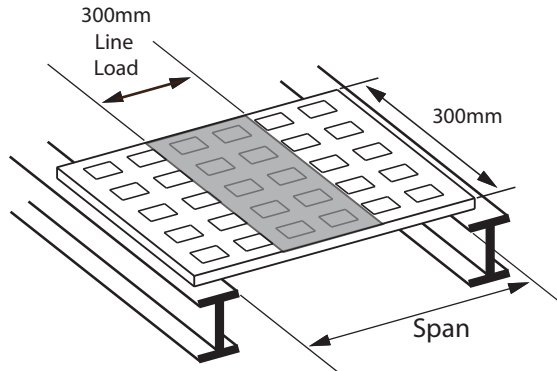
Type C Clips
 Affixed to adjacent unsupported grating.
 (This assists in keeping panels flush, preventing trip hazards when one panel is loaded and the other unloaded). Complying with BS4592-0:2006+A1:2012



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

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

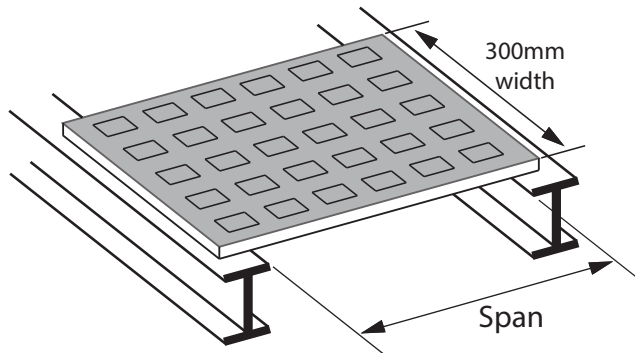
Lockinex GRP mesh flooring has been tested to the standards set out in BS 4592-0:2006 + A1:2012. Load tables can be found on the following pages for line loading, uniform loading and point loading. Line loading is not a required test according to BS 4592-0:2006 + A1:2012. However, it is present in this brochure to provide extra loading criteria should you require it. 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.



Line load data is for general information only.
There is currently no requirement for compliance.

**MOULDED FIBREGLASS GRATING-
Deflection table for concentrated line load (300mm wide)**

Span (mm)	Aperture (mm)	Thickness (mm)	Uniform Load (kg/300mm)							Concentrated Line Load under 1% deflection (kg/300mm)
			45	114	227	341	454	681	908	
305	32 x 32	25	0.24	0.51	1.02	1.52	2.03	3.03	4.05	683
	32 x 32	38	0.1	0.24	0.49	0.71	0.95	1.42	1.9	1457
	42 x 42	50	0.06	0.16	0.31	0.48	0.63	0.95	1.27	2183
457	32 x 32	25	0.69	1.75	3.49	5.25	6.99	10.49	-	297
	32 x 32	38	0.21	0.52	1.04	1.57	2.07	3.12	4.16	998
	42 x 42	50	0.13	0.33	0.67	1.01	1.33	2.01	2.67	1552
610	32 x 32	25	1.74	4.4	8.76	-	-	-	-	158
	32 x 32	38	0.5	1.26	2.51	3.77	5.02	7.53	10.03	552
	42 x 42	50	0.31	0.77	1.55	2.32	3.08	4.64	6.18	896
914	32 x 32	25	5.79	-	-	-	-	-	-	71
	32 x 32	38	1.68	4.25	8.47	12.72	-	-	-	245
	42 x 42	50	0.99	2.49	4.97	7.47	9.95	14.93	-	417
1219	32 x 32	38	4	10.14	-	-	-	-	-	137
	42 x 42	50	2.3	5.84	11.63	-	-	-	-	238
1372	32 x 32	38	5.72	14.48	-	-	-	-	-	108
	42 x 42	50	3.28	8.32	16.57	-	-	-	-	188
1524	32 x 32	38	7.79	14.48	-	-	-	-	-	88
	42 x 42	50	4.51	11.43	-	-	-	-	-	152



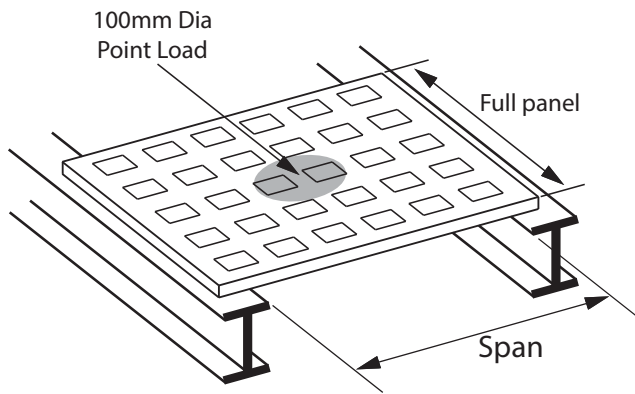
Compliance with BS 4592-0:2006 + A1:2012 is not achieved.

Compliance with BS 4592-0:2006 + A1:2012 general duty uniform load is achieved.

Compliance with BS 4592-0:2006 + A1:2012 heavy duty uniform load is achieved.

MOULDED FIBREGLASS GRATING- Deflection (d) table for uniform load (300mm wide)

Span (mm)	Aperture (mm)	Thickness (mm)	Uniform Load (kN/m ²)							Deflection (d) is less than 1/200th of the span under given uniform load (Kg/m ² or kN/m ²)
			0.96	1.20	2.39	3.6	4.80	7.19	9.58	
305	32 x 32	25	0.06(d)	0.08(d)	0.15(d)	0.23(d)	0.29(d)	0.46(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)	0.11(d)	0.16(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)	0.76(d)	1.14(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)	0.14(d)	0.22(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)	2.42(d)	3.65(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)	0.73(d)	1.08(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)	0.4(d)	0.619(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)	11.25(d)	-	-	194 Kg/m ² = 1.9 kN/m ²
	42 x 42	50	0.35(d)	0.42(d)	0.87(d)	1.32(d)	1.76(d)	2.63(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)	5.39(d)	8.09(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)	8.67(d)	12.97(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)	13.19(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. (1.5kN).

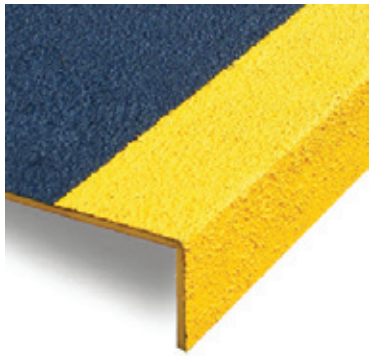
Compliance with BS 4592-0:2006 + A1:2012 is not achieved.

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

Span (mm)	Aperture (mm)	Thickness (mm)	Point Load (kN)							Deflection is less than 1/200th of the span under given point load (kN or Kg)
			0.42	1.12	2.23	3.35	4.45	6.68	8.91	
305	32 x 32	25	0.13(d)	0.34(d)	0.66(d)	0.97(d)	1.32(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)	0.73(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)	1.21(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)	0.47(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)	7.17(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)	2.31(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)	1.1(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)	5.48(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)	3.16(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)	9.12(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)	5.77(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)	8.26(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)	10.29(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

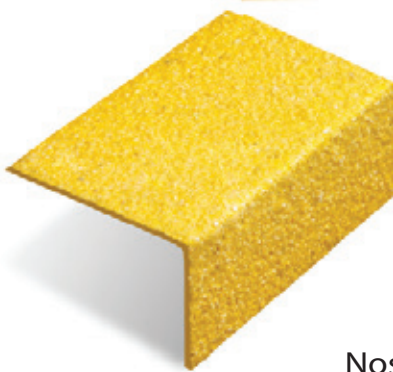
*For the results noted with *, the point load capability is greater than 1.5kN and therefore satisfies the regulations for the given span.

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



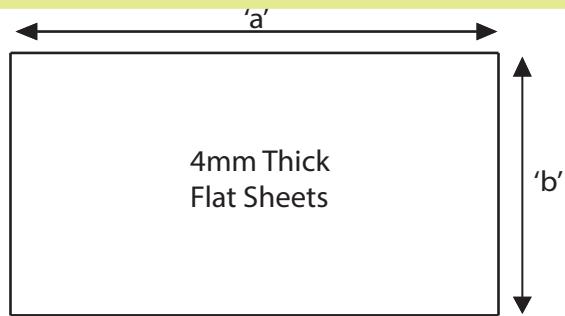
Stair Tread Covers

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.