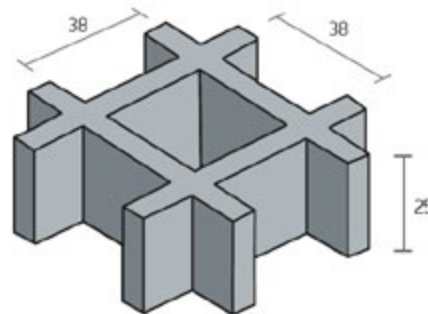


Gratings 38 x 38 x h25 Technical data sheet

Properties

Bar Thickness (top-bottom)	5 / 6,5	
Mesh Size	38 x 38	
Open Area	68%	
Weight per m²	~11 kg/m ²	
Surface	Concave, Gritted	
Standard Panel Size (mm)	1225 x 3665 (for further sizes, please ask.)	
Fiber Content (ISO 1172)	~30%	
Tolerance (mm)	For full panels: 1-3 mm	For cut sizes: + - 7 mm



Standard Resin

Resin Base	Description	Flame spread rating ASTM E84
Ortho-phtallic (standard)	Industrial grade corrosion resistance & fire retardant	Class 1,25 or less
Phenolic	Low smoke and superior fire resistance	Class 1,5 or less
Vinyl Ester	Superior chemical resistance & fire retardant	Class 1,25 or less

Product certificates

Approval in renewable energy:	DNVGL-SE-0436
Type approval – Glass fibre rovings:	DNVGL-CP-0082
Type and component certification of wind turbines:	DNVGL-SE-0441
Quality system:	ISO 9001:2015
FRP materials & production certificates:	TSE K 439 + DIN24537
Approval of resins for use in construction by Lloyd's Register:	POLIPOL 3872 A, POLIPOL 3872 T, POLIPOL 3872 TA, POLIPOL 3872 LSE.

Slip resistance level

Real Safety's solutions are all classified with the highest scores as **R13**.

DIN 51130/Class	R9	R10	R11	R12	R13
Slip angle (°)	6-10	10-19	19-27	27-35	>35
Slip Resistance	Very Low	Low	Medium	High	Very High

38 x 38 x h25 Uniformly Distributed Load Deflection Table

Span (mm)	Load (U=kN/m ²)										Safe Load (5:1 Safety Factor)
	2,4	4,8	7,2	9,6	12	14,4	19,2	24	48	96	
300	<0,25	<0,25	0,33	0,43	0,53	0,64	0,86	1,07	2,52	-	63,20
450	0,53	1,04	1,57	2,08	2,62	3,12	4,17	5,21	9,62	-	30,13
600	1,63	3,25	4,88	6,50	8,13	9,75	13,00	16,26	-	-	17,13
750	3,94	7,85	11,79	15,72	-	-	-	-	-	-	11,49
900	8,08	16,13	-	-	-	-	-	-	-	-	7,66
1050	12,60	-	-	-	-	-	-	-	-	-	5,27
1200	-	-	-	-	-	-	-	-	-	-	-
1500	-	-	-	-	-	-	-	-	-	-	-

38 x 38 x h25 Concentrated Line Load Deflection Table

Span (mm)	Load (C=kg/m)										Safe Load (5:1 Safety Factor)
	2,4	4,8	7,2	9,6	12	14,4	19,2	24	48	96	
300	<0,25	0,36	0,51	0,69	0,86	1,04	1,53	1,73	3,25	-	31,54
450	0,56	1,12	1,68	2,24	2,79	3,33	4,45	5,56	9,89	-	22,73
600	1,30	2,59	3,91	5,21	6,50	7,80	10,39	13,00	-	-	17,01
750	2,51	5,03	7,54	10,06	-	-	-	-	-	-	14,36
900	4,29	8,61	-	-	-	-	-	-	-	-	11,49
1050	5,60	-	-	-	-	-	-	-	-	-	9,57
1200	-	-	-	-	-	-	-	-	-	-	-
1500	-	-	-	-	-	-	-	-	-	-	-