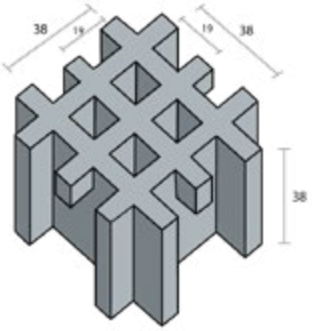
Gratings 19 x 19 x h38 Technical data sheet

Properties

Bar Thickness (top-bottom)	5 / 6,5	
Mesh Size	19 x 19 / 38 x 38	
Open Area	44%	
Weight per m²	21 kg/m²	
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

19 x 19 x h38 Uniformly Distributed Load Deflection Table

Span (mm)	Load (U=kN/m²)										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	<0,25	<0,25	<0,25	<0,25	<0,25	0,25	0,51	1,02	201,20
450	<0,25	<0,25	<0,25	0,51	0,71	0,81	0,89	1,02	2,03	4,06	134,12
600	0,25	0,51	0,76	1,02	1,27	1,78	2,28	2,79	5,59	11,18	75,44
750	0,76	1,27	2,03	2,54	3,30	4,57	5,38	6,35	12,70	-	48,29
900	1,27	2,54	3,81	5,08	6,35	8,28	10,21	12,70	-	-	33,54
1050	2,44	4,83	6,86	9,14	11,43	-	-	-	-	-	24,66
1200	3,81	7,62	11,43	15,24	-	-	-	-	-	-	18,85
1500	9,14	-	-	-	-	-	-	-	-	-	12,06

19 x 19 x h38 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	<0,25	<0,25	<0,25	<0,25	<0,25	0,25	0,51	0,76	1,78	150,20
450	<0,25	<0,25	0,25	0,51	0,51	0,76	1,02	1,27	2,29	4,83	100,58
600	0,25	0,51	0,76	1,02	1,02	1,52	2,03	2,54	4,57	9,65	75,44
750	0,51	0,76	1,27	1,52	2,03	3,05	4,06	4,57	8,13	-	60,35
900	0,76	1,27	2,03	2,79	3,30	4,83	7,11	8,89	-	-	50,29
1050	1,02	2,03	3,05	4,06	4,32	-	-	-	-	-	43,11
1200	1,52	3,05	4,57	6,10	-	-	-	-	-	-	37,74
1500	3,05	-	-	-	-	-	-	-	-	-	30,17