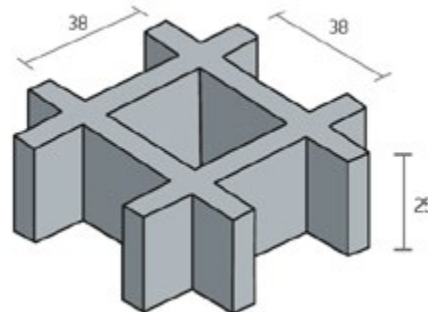


## Gratings 38 x 38 x h25 Technical data sheet

### Properties

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



### Standard Resin

Resin Base	Description	Flame spread rating ASTM E84
Ortho-phthalic (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 corrosion resistance & fire retardant	Class 1,25 or less

### Product certificates

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

### 38 x 38 x h25 Uniformly Distributed Load Deflection Table

Span (mm)	Load (U=kN/m <sup>2</sup> )										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	-	-	-	-	-	-	-	-	-	-	-