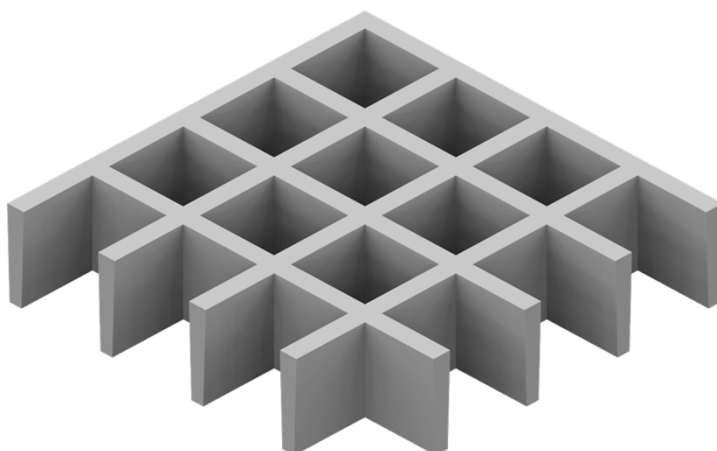
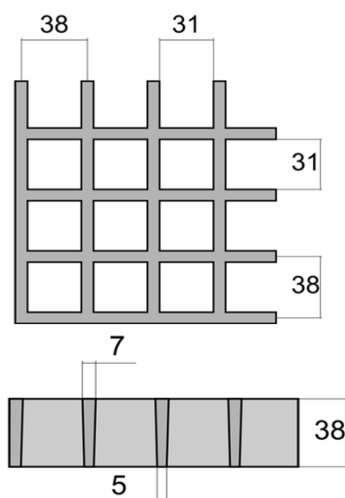


VFR 38/38x38/7x5 - Concave



VFR - Vinyl Ester Fire Resistant

Type:	Cast molded grating. (TWS = GRP = FRP = GFK)	
Material:	Vinyl Ester resin reinforced with fiberglass rovings	
Color:	Similar to the one specified in the RAL palette	
Chemical Resistance:	<ul style="list-style-type: none"> - According to the Merim chemical resistance chart - Chemical resistance depends on the type of resin used 	
Tolerances:	<ul style="list-style-type: none"> - Length and width: +2 / -4 mm - Height: +2 / -2 mm - Weight: 19,3 kg/m² +/- 10% - Warping: < 10 mm / mb 	
Structure:	<ul style="list-style-type: none"> - Mold - Surface - Resin content: - Glass content: 	<ul style="list-style-type: none"> - high quality Vinyl Ester resin - Concave - about 60% - about 40%
Fire Resistance:	<ul style="list-style-type: none"> - Self-extinguishing according to DIN EN 13501-1 - Classification in accordance with EN 13501-1 level Bfl-S1 	
Anti Slip:	- Class: > 40 ° - R 13 according to BRG 181 and DIN 51130	
Other:	<ul style="list-style-type: none"> - Standard operating temperature range: - 40 °C / + 82 °C - Maximum operating temperature range: - 100 °C / + 160 °C - resistance to UV radiation - Good electrical insulator - does not conduct electricity - Good thermal insulator - does not conduct heat 	

In accordance with the standards: EN ISO 14122-2: 2016 and DIN 24537-3, the following is adopted:

The minimum loads to be considered for walkways and working platforms are as follows:

- 2.0 kN / m² with a uniform load on the structure;
- 1.5 kN with a concentrated load applied in the most unfavorable place on a floor area of 200 mm x 200 mm.

The deflection of the floor surface after applying the load assumed in the design should not be greater than L/200 of the span of the supports.

The difference in height between the loaded floor surface and the adjacent unloaded floor surface should not exceed 4 mm.

If the deflection is $L/200 > 4\text{mm}$, it is recommended to use a connector.

According to BGI / GUV-I 588-1, the minimum support of the grating should be equal to the height of the grating, but not less than 30 mm.

Load capacity table of the gratings (100 kg \approx 1 kN):

Support spacing [L]	300	400	500	600	700	800	900	1000	1100
Fv	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00
fv	0,09	0,19	0,28	0,37	0,83	1,30	1,76	2,73	4,46
Fp	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50
fp	0,29	0,59	0,88	1,17	2,22	3,27	4,32	6,00	7,68
L/200	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50

Support spacing [L]	1200	1300	1400	1500	1600	1700	1800	1900	2000
Fv	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00
fv	6,18	7,91	9,63	11,36	14,74	18,12	21,49	24,87	28,25
Fp	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50
fp	9,36	11,04	12,72	18,79	22,34	25,89	29,44	32,99	36,54
L/200	6,00	6,50	7,00	7,50	8,00	8,50	9,00	9,50	10,00

Fv - 2 kN/m² of uniform load on the structure

Fp - 1.5kN concentrated load on the surface of 200x200 mm

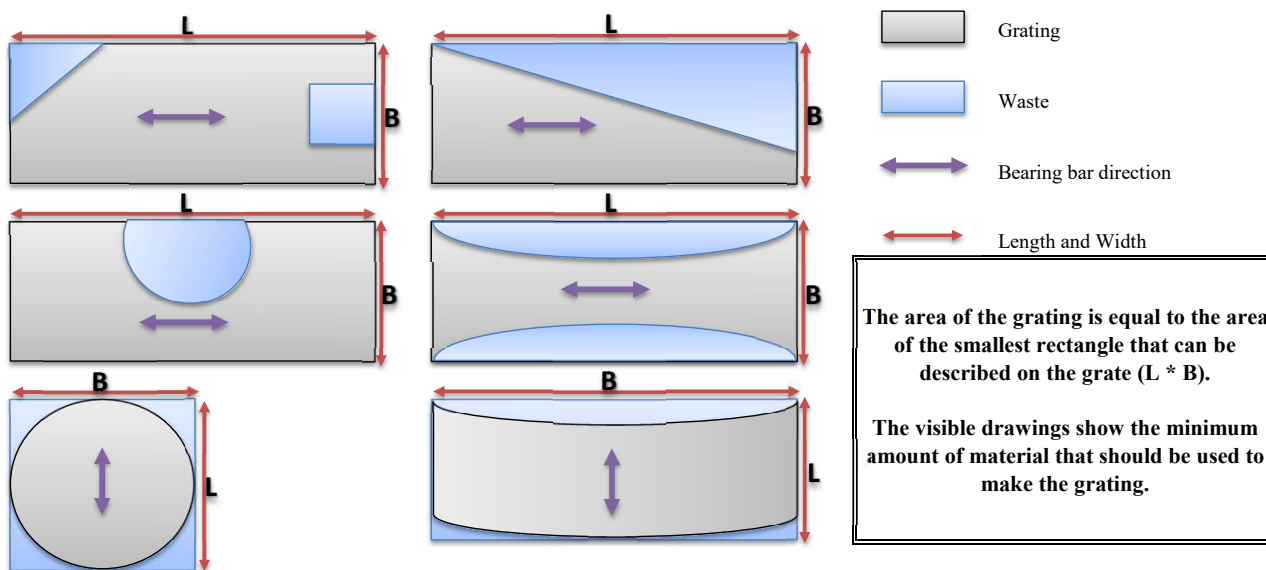
fv - deflection for "Fv" load [mm]

fp - deflection for "Fp" load [mm]

Compliant with L/200

Does not comply with L/200

The method of calculating the surface of gratings:



* - Product Technical Data Sheet may be changed without prior notice.

This document and the information it contains are based on data believed to be reliable, however factors such as environmental changes, application or installation, changes to operating procedures or data extrapolation may produce different results.