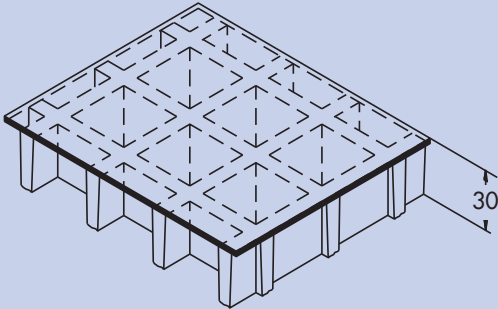
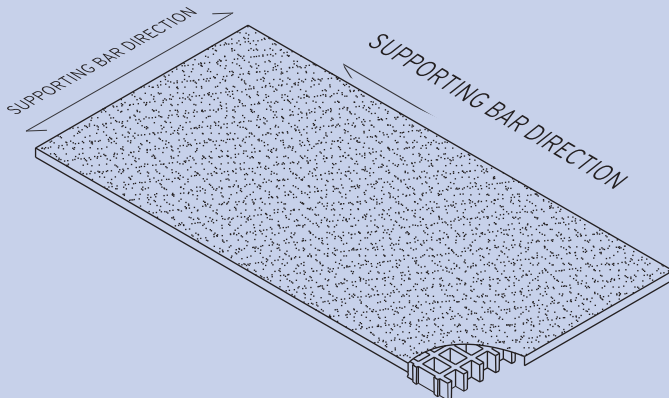


Mesh width	mm 38 x 38	
Height	mm 30	
Cover thickness	mm 3 top cover mm 3 bottom cover	
Bar thickness	mm 7 surface mm 5 underside	
Colour	Grey RAL 7004 RAL-specification (approximate)	

Raw material	Polyester resin
	Glass fibre Direct Roving + Panel Type "E"
	Halogen-free inorganic fillers

Resin	Elastic module	Breakdown tension
IFR	15000 MPa	130 MPa

Standard plates	
mm 1000 x 2000	
mm 1000 x 4038	
mm 1220 x 3660	
Weight kg/m² 25	
Toleranz	± mm 5 plate dimension
	± mm 2 height



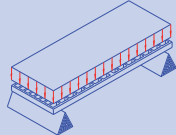
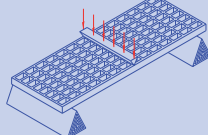
Surface	A	with quartz	Slip-resistant grade R13 V4 standard DIN E51130
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Fire behaviour	Self-extinguishing	Spread ≤ 25 standard ASTM E84-98
		Level Bfl-S1 standard EN 13501-1

Ageing resistance	Accelerated ageing test with UV-lamp in accordance with ASTM G154-06 passed with 5 points on the grey scale and without any obvious defects (1500 hours exposure with alternating cycles of 4 hours UV temperature 60°C and 4 hours condensation temperature 50°C, irradiated by UVB-lamps 313 nm, irradiation 0.71 W/m²)
	After passing through the cycles heat, cold and moisture in accordance with the standard UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show any remaining defects

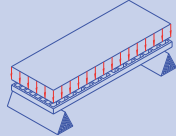
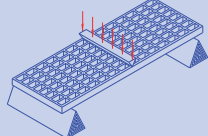
SUGGESTED MAXIMUM LOADS

Carrier type	Linear at both ends of the plate
Limits depend on	Deflection (downward expansion under load)
the maximum permitted deflection is 1/100 of the difference between the carriers	
In accordance with the standard DIN 25437-3 the deflection of the floor covering at exposure to the agreed load must not exceed 1/200 of the span, whilst the height difference to the neighbouring joint must not exceed 4 mm.	

DISTRIBUTED LOAD			CONCENTRATED LOAD		
					
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100	Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m ²]		[cm]	[kg/m ²]	
50	6450	12950	50	2000	4050
70	2350	4700	70	1000	2050
90	1100	2200	90	600	1250
110	600	1200	110	400	800

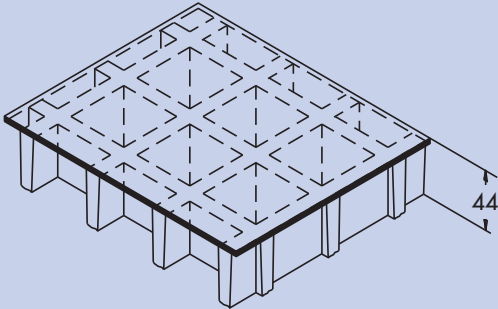
All lower loads are permissible.

Limits depend on the permissible tensions (depending on the load). The **maximum permissible tension** is 1/5 of the breakdown tension (safety number: 0.20 – the breaking load is 5 times the specific loading).

DISTRIBUTED LOAD		CONCENTRATED LOAD	
			
Distance between the carriers [cm]	maximum permissible load [kg/m ²]	Distance between the carriers [cm]	maximum permissible load [kg/m ²]
50	7550	50	1850
70	3850	70	1300
90	2300	90	1000
110	1550	110	850

All lower loads are permissible.

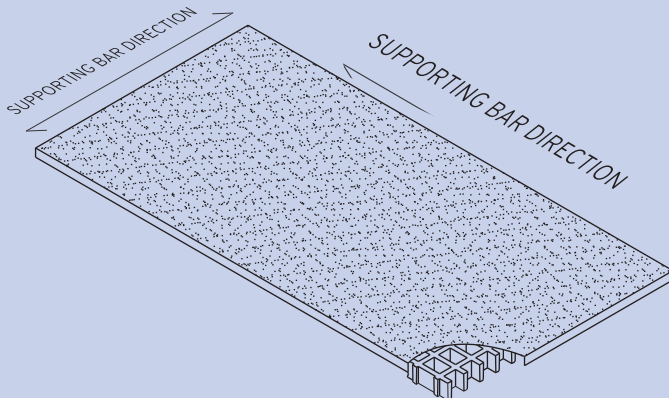
- The data provided in the table should be considered reference values for the standard materials at the surrounding temperature. Even though they are not to be considered guaranteed characteristics, they are based on our experience and are provided to the best of our knowledge.
- In conformity with standard DIN 25437-3 the following associated reduction factors must be considered: 0.75 for interior areas, 0.65 for outdoor areas and 0.50 for media exposure.
- Irrespective of environmental influences, the chemical stability must be checked by establishing contact with ProMetall's technical department.
- At higher loads the pressure resistance must be checked.

Mesh width	mm 38 x 38	
Height	mm 44	
Cover thickness	mm 3 main mesh mm 3 side mesh	
Bar thickness	mm 7 surface mm 5 underside	
Colour	Gray RAL 7004 RAL-specification	

Raw material	Polyester resin
	Glass fibre Direct Roving + Panel Type "E"
	Halogen-free inorganic fillers

Resin	Elastic module	Breakdown voltage
IFR	15000 MPa	130 MPa

Standard plates	
mm 1220 x 3660	
mm 1000 x 3660	
Weight kg/m² 30	
Tolerance	± mm 5 plate dimension
	± mm 2 height



A 3D perspective illustration of a rectangular plate with a textured surface. Two arrows point along the length of the plate, labeled "SUPPORTING BAR DIRECTION". At the bottom right corner, a small detail shows a cross-section of the plate with internal reinforcing bars.

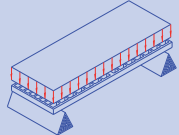
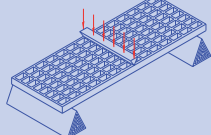
Surface	A	with quartz	Slip-resistant grade R13 V4 standard DIN E51130
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Fire behaviour	Self-extinguishing	Spread ≤ 25 standard ASTM E84-98
		Level Bfl-S1 standard EN 13501-1

Ageing resistance	Accelerated ageing test with UV-lamp in accordance with ASTM G154-06 passed with 5 points on the grey scale and without any obvious defects (1500 hours exposure with alternating cycles of 4 hours UV temperature 60°C and 4 hours condensation temperature 50°C, irradiated by UVB-lamps 313 nm, irradiation 0.71 W/m²)
	After passing through the cycles heat, cold and moisture in accordance with the standard UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show any remaining defects

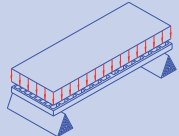
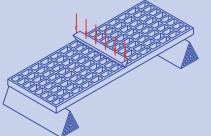
SUGGESTED MAXIMUM LOADS

Carrier type	Linear at both ends of the plate
Limits depend on	Deflection (downward expansion under load)
the maximum permitted deflection is 1/100 of the difference between the carriers	
In accordance with the standard DIN 25437-3 the deflection of the floor covering under exposure to the agreed load must not exceed 1/200 of the span, whilst the height difference to the neighbouring joint must not exceed 4 mm.	

DISTRIBUTED LOAD			CONCENTRATED LOAD		
					
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100	Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m ²]		[cm]	[kg/m ²]	
50	15100	30200	50	4700	9450
70	5500	11000	70	2400	4800
90	2550	5150	90	1450	2900
110	1400	2800	110	950	1950

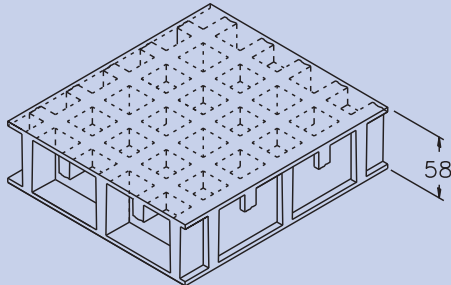
All lower loads are permissible.

Limits depend on the permissible tensions (depending on the load). The **maximum permissible tension** is 1/5 of the breakdown tension (safety number: 5 – the breaking load is 5 times the specified loading).

DISTRIBUTED LOAD		CONCENTRATED LOAD	
			
Distance between the carriers [cm]	maximum permissible load [kg/m ²]	Distance between the carriers [cm]	maximum permissible load [kg/m ²]
50	12400	50	3100
70	6300	70	2200
90	3800	90	1700
110	2550	110	1400

All lower loads are permissible.

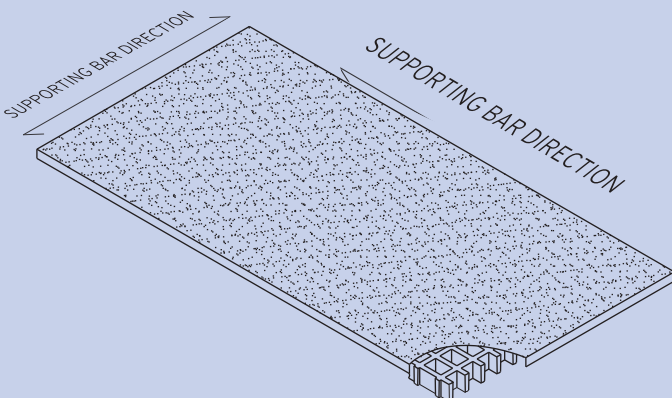
- The data provided in the table should be considered reference values for the standard materials at the surrounding temperature. Even though they are not to be considered guaranteed characteristics, they are based on our experience and are provided to the best of our knowledge.
- In conformity with standard DIN 25437-3 the following associated reduction factors must be considered: 0.75 for interior areas, 0.65 for outdoor areas and 0.50 for media exposure.
- Irrespective of environmental influences, the chemical stability must be checked by establishing contact with ProMetall's technical department.
- At higher loads the pressure resistance must be checked.

Mesh width	mm 52 x 52 main mesh mm 26 x 26 side mesh	
Height	mm 58	
Cover thickness	mm 3 top cover mm 3 bottom cover	
Bar thickness	mm 7 surface mm 5 underside	
Colour	Grey RAL 7004 RAL-specification	

Raw material	Polyester resin
	Glass fibre Direct Roving + Panel Type "E"
	Halogen-free inorganic fillers

Resin	Elastic module	Breakdown voltage
IFR	15000 MPa	130 MPa

Standard plates	
mm 1000 x 3000	
mm 1000 x 4050	
Weight kg/m² 40	
Tolerance	± mm 5 plate dimension
	± mm 2 height



An isometric technical drawing of a rectangular GRP plastic grating plate. The plate is shown from a perspective view, revealing its top surface and side profile. The top surface is covered with a dense, uniform pattern of small, dark, circular or oval-shaped holes. Two parallel arrows, one along the top edge and one along the right edge, both point towards the top-right corner and are labeled "SUPPORTING BAR DIRECTION". At the bottom-right corner, a small section of the plate is shown in a cutaway or exploded view, revealing a grid of raised rectangular ribs that form the underside of the plate. The overall color scheme is light blue for the plate and dark blue for the holes and text.

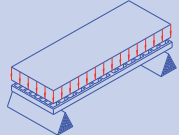
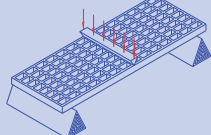
Surface	A	with quartz	Slip-resistant grade R13 V4 standard DIN E51130
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Fire behaviour	Self-extinguishing	Spread ≤ 25 standard ASTM E84-98
		Level Bfl-S1 standard EN 13501-1

Ageing resistance	Accelerated ageing test with UV-lamp in accordance with ASTM G154-06 passed with 5 points on the grey scale and without any obvious defects (1500 hours exposure with alternating cycles of 4 hours UV temperature 60°C and 4 hours condensation temperature 50°C, irradiated by UVB-lamps 313 nm, irradiation 0.71 W/m²).
	After passing through the cycles heat, cold and moisture in accordance with the standard UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show any remaining defects.

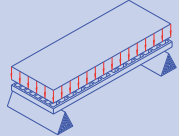
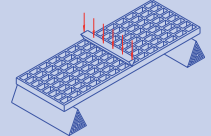
SUGGESTED MAXIMUM LOADS

Carrier	Linear at both ends of the plate
Limits depend on	Deflection (downward expansion under load)
the maximum permitted deflection is 1/100 of the difference between the carriers	
In accordance with the standard DIN 25437-3 the deflection of the floor covering under exposure to the agreed load must not exceed 1/200 of the span, whilst the height difference to the neighbouring joint must not exceed 4 mm.	

DISTRIBUTED LOAD			CONCENTRATED LOAD		
					
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100	Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]		[cm]	[kg/m²]	
70	10100	20250	70	4400	8850
90	4750	9500	90	2650	5350
110	2600	5200	110	1750	3550
130	1550	3150	130	1250	2550

All lower loads are permissible.

Limits depend on the permissible tensions (depending on the load). The **maximum permissible tension** is 1/5 of the breakdown tension (safety number: 5 – the breaking load is 5 times the specified loading).

DISTRIBUTED LOAD		CONCENTRATED LOAD	
			
Distance between the carriers [cm]	maximum permissible load [kg/m²]	Distance between the carriers [cm]	maximum permissible load [kg/m²]
70	8800	70	3050
90	5300	90	2400
110	3550	110	1950
130	2550	130	1650

All lower loads are permissible.

- The data provided in the table should be considered reference values for the standard materials at the surrounding temperature. Even though they are not to be considered guaranteed characteristics, they are based on our experience and are provided to the best of our knowledge.
- In conformity with standard DIN 25437-3 the following associated reduction factors must be considered: 0.75 for interior areas, 0.65 for outdoor areas and 0.50 for media exposure.
- Irrespective of environmental influences, the chemical stability must be checked by establishing contact with ProMetall's technical department.
- At higher loads the pressure resistance must be checked.