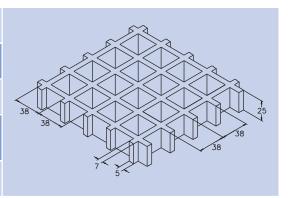


GRP-plastic gratings GRATING TYPE SCH 38/25_IFR

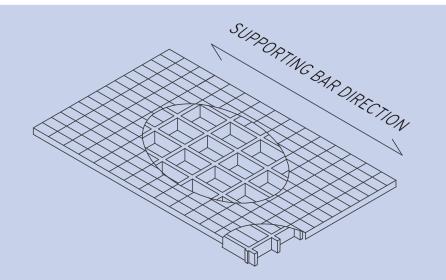
Mesh width	mm 38 x 38
Inside diameter	mm 31 x 31
Height	mm 25
Bar thickness	mm 7 surface mm 5 underside
Colour	Grey RAL 7004 RAL-specification



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

Resin	Elastic module	Breakdown tension
IFR	1 <i>5</i> 000 MPa	325 MPa

S		
mı	m 1000 x 3000	
mm 1000 x 4038		
mı	m 1220 x 3660	
W		
Tolerance	± mm 5 plate dimension	
Totorance	± mm 2 height	



	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130
Surface	М	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130
	А	with quartz	Slip-resistant grade R13 V10 standard DIN E51130

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)





Carrier	Linear at both ends of the plate		
	Limits depend on Deflection (downward expansion under load)		
the maximum permissible 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		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	I	[kg/m²]
30	4250	8550
50	900	1850
70	300	650
90	150	300

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]
30	800	1600
50	250	550
70	100	250

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 specified landing).

maximum permissible load
[kg/m²]
8800
3150
1600
950

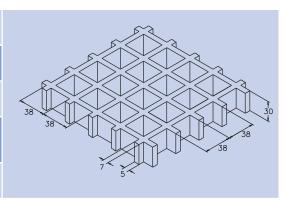
CONCENTRATED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m²]
30	1300
50	750
70	550
90	400

- 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.



GRP-plastic gratings GRATING TYPE SCH 38/30_IFR

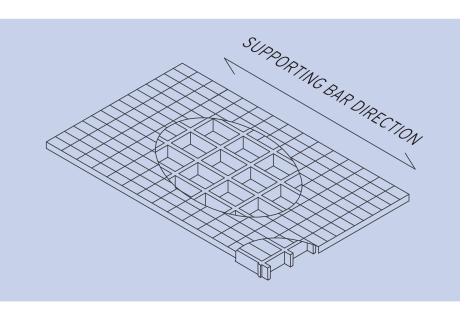
Mesh width	mm 38 x 38
Inside diameter	mm 31 x 31
Height	mm 30
Bar thickness	mm 7 surface mm 5 underside
Colour	Grey RAL 7004 RAL-specification



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

Resin	Elastic module	Breakdown tension
IFR	15000 MPa	325 MPa

Standard plates		
mm 1000 x 2000		
mm 1000 x 3000		
mm 1000 x 4038		
mm 1220 x 3660		
Weight kg/m² 15		
Tolerance	± mm 5 plate dimension	
iolerance	± mm 2 height	



	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130
Surface	М	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130
		with quartz	Slip-resistant grade R13 V10 standard DIN E51130

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)



Carrier	Linear at both ends of the plate	
	Limits depend on Deflection (downward expansion under load)	
	the maximum permissible 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		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	I	[kg/m²]
50	1600	3200
70	550	1150
90	250	500
110	150	300

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]
50	500	1000
70	250	500
90	150	300

All lower loads are permissible.

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

DISTRIBUTED LOAD	
Distance between the carriers [cm]	maximum permissible load
	[kg/m²]
50	4700
70	2400
90	1450
110	950

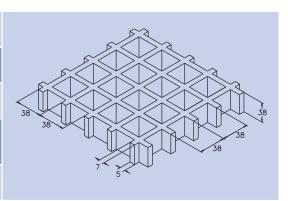
CONCENTRATED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m²]
50	1150
70	800
90	650
110	500

- 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.



GRP-plastic gratings GRATING TYPE SCH 38/38_IFR

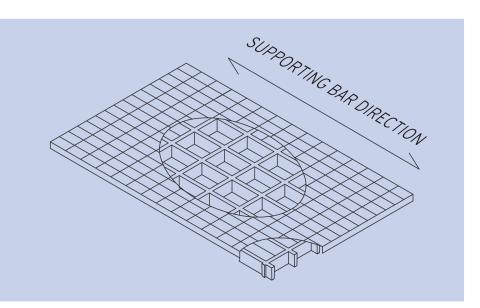
Mesh width	mm 38 x 38
Inside diameter	mm 31 x 31
Height	mm 38
Bar thickness	mm 7 surface mm 5 underside
Colour	Grey RAL 7004 RAL-specification



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

Resin	Elastic module	Breakdown tension
IFR	1 <i>5</i> 000 MPa	325 MPa

Standard plates		
mm 1500 x 2000		
mm 1000 x 3000		
mm 1000 x 4038		
mm 1220 x 3660		
mm 1220 x 4038		
Weight kg/m ² 18		
Tolerance	± mm 5 plate dimension	
lolerance	± mm 2 height	



	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130
Surface	М	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130
	Α	with quartz	Slip-resistant grade R13 V10 standard DIN E51130

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)



Carrier	Linear at both ends of the plate

Limits depend on Deflection (downward expansion under load)

the maximum permissible 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 jointmust not exceed 4 mm.

DISTRIBUTED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	I	[kg/m²]
50	3250	6500
70	1150	2350
90	550	1100
110	300	600

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[[kg/m²]
50	1000	2000
70	500	1000
90	300	600
110	200	400

All lower loads are permissible.

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

DISTRIBUTED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m²]
50	7300
70	3700
90	2250
110	1500

CONCENTRATED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m²]
50	1800
70	1300
90	1000
110	800

- 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.



GRP-plastic gratings GRATING TYPE SCH 30/28_IFR

Mesh width	mm	100 x 30		
Inside diameter	mm	92 x 22		100
Height	mm	28		
Bar thickness		1 8 surface 1 7 underside		30 8
Colour	Ор	al green		7
			Po	olyester resin
Raw material		Glass		ct Roving + Panel Type "E"
			Halogen-	free inorganic fillers
Resin		Elastic module		Breakdown tension
IFR		15000 MPa		325 MPa
Standard plates		, chon	7,	
mm 1000 x <u>2000</u>	SUPPORTNC BARDINECTION			
mm 1500 x <u>2000</u>		NC BAR OUD		
				CTON
Weight kg/m ² 13				
± mm 5 plate dimension				
Tolerance ± mm 2 height				
	S	smooth		Slip-resistant grade R10 V10 standard DIN E51130
Surface	М	concave "Menis	cus"	Slip-resistant grade R13 V10 standard DIN E51130
	Α	with quartz		Slip-resistant grade R13 V10 standard DIN E51130
Fire behaviour	Spread ≤ 25 standard ASTM E84-98 Self-extinguishing Level Bfl-S1 standard EN 13501-1		oread ≤ 25 standard ASTM E84-98	
			evel 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)		t any obvious defects (1500 hours exposure with emperature 60°C and 4 hours condensation JVB-lamps 313 nm, irradiation 0.71 W/m²)	
	After passing through the cycles heat, cold and moisture in accordance UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show an			cold and moisture in accordance with the standard es type D3) they do not show any remaining defects



Carrier Linear at both ends of the plate

Limits depend on Deflection (downward expansion under load)

the maximum permissible 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 jointmust not exceed 4 mm.

DISTRIBUTED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	I	[kg/m²]
50	1750	3500
70	600	1250
90	300	600
110	150	300

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]
50	500	1050
70	250	550
90	150	300

All lower loads are permissible.

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

maximum permissible load
[kg/m²]
6400
3250
1950
1300

CONCENTRATED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m ²]
50	1600
70	1150
90	850
110	700

- 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.



GRP-plastic gratings GRATING TYPE SCH 60/28_IFR

Open gratings - rectangular mesh

The GRP gratings with rectangular mesh are suitable for fences in industrial and civilian environments where the GRP's typical characteristics really come into their own (corrosion-resistant, electric insulator, diamagnetic, heat-resistant, resistant to UV-rays, light, maintenance-free, high mechanical resistance, easy to process).

Mesh width	mm 100 x	60			
Inside diameter	mm 92 x 5	2	1,000		
Height	mm 28				
Bar thickness	mm 8 surfa	ıce	60 28		
	mm 7 unde				
Colour	Grey RAL 7 RAL-specific		0 7		
			Polyester resin		
Raw material		Glass fibre D	Direct Roving + Panel Type "E"		
		Halog	en-free inorganic fillers		
Standard plates		$\mathcal{S}_{\mathcal{U}_{\mathcal{D}_{n}}}$			
mm 1500 x <u>2000</u>	SUPPORTING BARDIRECTION				
Weight kg/m ² 9					
± mm 5 plate dimension ± mm 2 height					
Surface	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130		
			0 1 05 - 1 1 1 07 1 00		
Fire behaviour	Self-extinguishi	ng	Spread ≤ 25 standard ASTM E84-98		
		Grade V-O standard UL94 Vertical Burning Test			
Ageing resistance	5 points on the alternation temperor	he grey scale and with ing cycles of 4 hours Uniture 50°C, irradiated	mp in accordance with ASTM G154-06 passed with hout any obvious defects (1500 hours exposure with IV temperature 60°C and 4 hours condensation by UVB-lamps 313 nm, irradiation 0.71 W/m²		
	UNI EN ISO 91	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			

^{*} Upon request also available in other colours



Mesh width

mm 100 x 60

GRP-plastic gratings GRATING TYPE SCH 60/25_IFR

Mesh width	mm 100 x 60)	100	
Inside diameter	mm 93 x 53			
Height	mm 25			
Bar thickness	mm 7 surface		60 25	
	mm 5 undersi			
Colour	Grey RAL 700 RAL-specifica		7 5	
			Polyester resin	
Raw material		Glass fibre D	irect Roving + Panel Type "E"	
		Halog	en-free inorganic fillers	
Standard plates			5//2	
mm 1500 x <u>2000</u>	SUPPORTING BAR DIRFCTION			
Weight kg/m² 7				
t mm 5 plate dimension t mm 2 height				
Surface	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130	
		Spread ≤ 25 standard ASTM E84-98		
Fire behaviour	Self-extinguishing		rade V-0 standard UL94 Vertical Burning Test	
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/m ²			
	After passing through the cycles heat, cold and moisture in accordance with the standar UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show any remaining defe			

^{*} Upon request also available in other colours



GRP-plastic gratings GRATING TYPE SCH 52/30_IFR

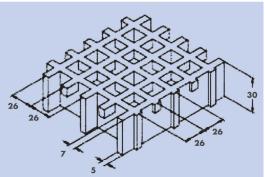
 Mesh width
 mm 52 x 52 main mesh mm 26 x 26 side mesh

 Inside diameter
 mm 19 x 19

 Height
 mm 30

 Bar thickness
 mm 7 surface mm 5 underside

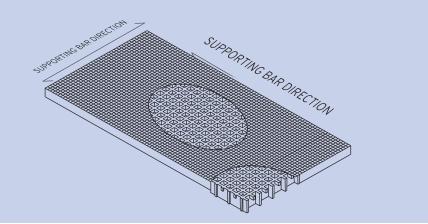
 Colour
 Grey RAL 7004 RAL-specification



	·				
	Polyester resin				
Raw material	Raw material Glass fibre Direct Roving + Panel Type "E"				
	Halogen-free inorganic fillers				
Resin	Elastic module	Breakdown tension			
IFR (Grey)	15000 MPa	325 MPa			
Standard plates					
	aticilat /				

mm 1000 x 2000
mm 1000 x 3000
mm 1220 x 4050
Weight kg/m² 15

= mm 5
plate dimension
= mm 2 height



	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130
Surface	М	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130
	А	with quartz	Slip-resistant grade R13 V10 standard DIN E51130

Fire behaviour Self-	Solf-oxtinguishing	Spread ≤ 25 standard ASTM E84-98	
The behaviour	Fire behaviour Self-extinguishing	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



Carrier Linear at both ends of the plate

Limits depend on Deflection (downward expansion under load)

the maximum permissible 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		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]	
50	1700	3400
70	600	1200
90	250	550
110	150	300

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]	
50	500	1050
70	250	500
90	150	300

All lower loads are permissible.

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

DISTRIBUTED LOAD	
Distance between the carriers [cm]	maximum permissible load
	[kg/m²]
50	4350
70	2200
90	1350
110	800

CONCENTRATED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m²]
50	1050
70	750
90	600
110	450

- 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.



GRP-plastic gratings GRATING TYPE SCH 52/40_IFR

Mesh width	mm 52 x 52 main mesh			
	mm 26 x 26 side mesh			
Inside diameter	mm 19 x 19			
Height	mm 40)	20 40	
Bar thickness		surface underside	26 26 26	
Colour		RAL 7004 pecification	5	
D		Cl (tl	Polyester resin	
Raw material			Direct Roving + Panel Type "E" ogen-free inorganic fillers	
		Tidio	gen-nee morganic miers	
Resin		Elastic module	Breakdown tension	
IFR		15000 MPa	325 MPa	
Standard plates		. C. 10 th 7 M	SUPD-	
mm 1000 x 2000	TORTING R.			
mm 1000 x 3000	SUPPORTING BAR DIRECTION			
mm 1220 x 4050				
Weight kg/m ² 21				
± mm 5				
Tolerance plate dimension				
± mm 2 height				
	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130	
Surface	М	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130	
	А	with quartz	Slip-resistant grade R13 V10 standard DIN E51130	
Fire behaviour	Spr Self-extinguishing		Spread ≤ 25 standard ASTM E84-98	
The Deliaviour	Jeii-exiing	Joishing	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/m ²			



GRP-plastic gratings GRATING TYPE SCH 52/40_IFR

SUGGESTED MAXIMUM LOADS

Carrier Linear at both ends of the plate

Limits depend on Deflection (downward expansion under load)

the maximum permissible 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		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[[kg/m²]
50	3950	7950
70	1450	2900
90	650	1350
110	350	700

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]
50	1200	2450
70	600	1250
90	350	750
110	250	500

All lower loads are permissible.

Limits depend on the permissible tensions (depending on the load). The maximum permissible deflection is 1/100 of the difference between the carriers.

DISTRIBUTED LOAD	
Distance between the carriers [cm]	maximum permissible load
	[kg/m²]
50	7800
70	4000
90	2400
110	1600
110	.300

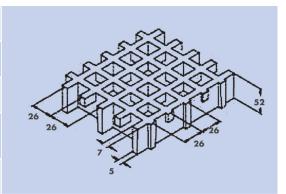
CONCENTRATED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m²]
50	1950
70	1400
90	1050
110	850

- 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.



GRP-plastic gratings GRATING TYPE SCH 52/52_IFR

Mesh width	mm 52 x 52 main mesh mm 26 x 26 side mesh
Inside diameter	mm 19 x 19
Height	mm 52
Bar thickness	mm 7 surface mm 5 underside
Colour	Grey RAL 7004 RAL-specification

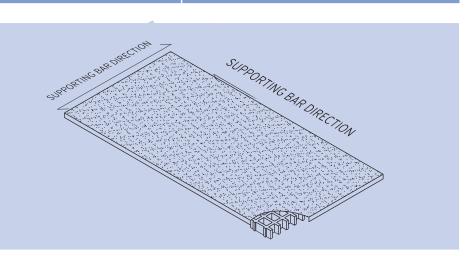


	Polyester resin	
Raw material	Glass fibre Direct Roving + Panel Type "E"	
	Halogen-free inorganic fillers	

Resin	Elastic module	Breakdown tension
IFR	1 <i>5</i> 000 MPa	325 MPa

Standard plates		
mm 1000 x 2000		
mm 1000 x 3000		
mm 1000 x 4050		
Weight kg/m ² 26		
Tolerance	± mm 5 plate dimension	
. C.C. GITICO		

± mm 2 height



	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130
Surface	М	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130
	А	with quartz	Slip-resistant grade R13 V10 standard DIN E51130

Fire behaviour	Self-extinguishing	Spread ≤ 25 standard ASTM E84-98
Fire benaviour Self-exilinguishing	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



GRP-plastic gratings GRATING TYPE SCH 52/52_IFR

SUGGESTED MAXIMUM LOADS

Carrier Linear at both ends of the plate

Limits depend on Deflection (downward expansion under load)

the maximum permissible 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		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	I	[kg/m²]
70	3900	7800
90	1800	3650
110	1000	2000
130	600	1200

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]
70	1700	3400
90	1000	2050
110	650	1350
130	450	950

All lower loads are permissible.

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

maximum permissible load
[kg/m²]
8350
5050
3350
2400

CONCENTRATED LOAD	
Distance between the carriers	maximum permissible load
[cm]	[kg/m²]
70	2900
90	2250
110	1850
130	1550

- 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.



GRP-plastic gratings GRATING TYPE SCH 12/30_IFR

Open gratings - micro mesh

The GRP gratings with micro mesh are suitable for implementing raised treads, in accordance with the strictest EU-standards. The heel-proof format is particularly suitable for applications in the civilian sector.

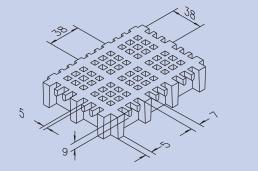
Appliances:

- Water cycle
- Plants for treatment of backflow water
- Plants for waste treatment
- Chemical industry
- Galvanic industry

- Raw material industry
- Transports
- Ship building
- Energy
- Telecommunication

- Food industry
- Urban facilities
- Outdoor and marinas

Mesh width	mm 38 x 38 main mesh mm 12 x 12 side mesh
Inside diameter	mm 8 x 8
Height	mm 30
Bar thickness	mm 7 surface
	mm 5 underside
Colour	Grey RAL 7004 RAL-specification (approximate)



		Grey RAL 7004 RAL-specification (approximate)		
	Colour			9 7 5
				Polyester resin
	Raw material		Glass fibre	e Direct Roving + Panel Type "E"
	Naw malerial	· //		ogen-free inorganic fillers
				ogen mee mengeme mene
	Resin		Elastic module	Breakdown tension
	IFR		15000 MPa	325 MPa
Ş	Standard plates	SUPPORTNIC BARDIAECTION		
m	m 1220 x 3660			
m	m 1000 x 4038			
		- Arecylon.		
\A	/eight kg/m² 16			
V				
Tolerance	± mm 5 plate dimension			
ioioi arico	± mm 2 height			
		S		
			smooth	Slip-resistant grade R10 V10 standard DIN E51130
Surface		М	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130
		Α	with quartz	Slip-resistant grade R13 V10 standard DIN E51130
Fire behaviour Self-extinguishing Spread ≤ 25 standard ASTM E84-98 Level Bfl-S1 standard EN 13501-1		Spread < 25 standard ASTM E84-98		
		Self-extinguishing		Level Bfl-S1 standard EN 13501-1
A	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			vithout any obvious defects (1500 hours exposure with s UV temperature 60°C and 4 hours condensation



Carrier	Linear at both ends of the plate		
	Limits depend on Deflection (downward expansion under load)		
the maximum permissible 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		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	I	[kg/m²]
50	2100	4250
70	750	1550
90	350	700
110	200	400

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]
50	650	1300
70	300	650
90	200	400
110	100	250

All lower loads are permissible.

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

DISTRIBUTED LOAD	
Distance between the carriers [cm]	maximum permissible load
	[kg/m²]
50	5150
70	2600
90	1550
110	1050

CONCENTRATED LOAD	
Distance between the carriers [cm]	maximum permissible load
	[kg/m²]
50	1250
70	900
90	700
110	550

- 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.
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- 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.