

GRP-plastic gratings GRATING TYPE SCH 38/17C_IFR

Mesh width		mm 38 x 38				
	Height	mm	20			
Cover density		mm 3				
	Bar thickness	mm 7 surface mm 5 underside				
	Colour	Gre RAL	ey RAL 7004 -specification	n		
	D				Polyester resin	
	Kaw material			Glastaser I Haloç	Direkt Roving + Matte Typ "E" gen-free inorganic fillers	
	Resin		Elastic mo	odule	Breakdown tension	
	IFR		15000 N	ЛРа	250 MPa	
S	Standard plates			ORECTON	Sec.	
m	m 1220 x 3660	SETTICE AND				
		Bir Diner				
		C'IN				
14	(
**	+ mm 5					
Tolerance	plate dimension					
	± mm 2 height					
	Surface	A	١	with quartz	Slip-resistant grade R13 V10 standard DIN E51130	
Fire behaviour		Self-ext	inguishing		Spread <u><</u> 25 standard ASTM E84-98	
		Level Bfl-S1 standard EN 13501-1				
Ageing resistance		Accel 5 poi	erated agein nts on the gr alternating c temperature	ng test with UV-lc rey scale and wit ycles of 4 hours t 50°C, irradiated	Imp in accordance with ASTM G154-06 passed with thout any obvious defects (1500 hours exposure with JV temperature 60°C and 4 hours condensation by UVB-lamps 313 nm, irradiation 0.71 W/m ²	
		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				

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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		THE REAL PROPERTY OF THE PARTY
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	l	[kg/m²]
30	4350	8700
50	900	1850
70	300	650
90	1 <i>5</i> 0	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
90	50	150

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	A CONTRACTOR OF A CONTRACTOR O	CONCENTRATED LOAD	
Distance between	maximum permissible load	Distance between	maximum permissible load
[cm]	[kg/m²]	[cm]	[kg/m²]
30	6450	30	950
50	2300	50	550
70	1150	70	400
90	700	90	300

- 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 ٠ 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 38/25C_IFR

Mesh width		mm 38 x 38					
Height		mm	28		6		
Cover thickness		mm	3				
Bar thick	ness	mm 7 surface mm 5 underside		<u> </u>			
Colour		Grey RAL 7004 RAL-specification					
					Polye	ester resin	
Raw mate	erial			Glass fibre I	Direct R	toving + Panel Type "E"	
				Haloç	gen-free	e inorganic fillers	
Resin			Elastic mo	odule		Breakdown tension	
IFR			15000 N	МРа		250 MPa	
Standard plates				MRECTION TO		0	
mm 1000 x	2000	Stine arts					
mm 1000 x	4038	2.382 NC BAR DIRECTION				C BAR DIREC	
mm 1220 x	3660						
Weight kg/	m² 20						
± plate	mm 5 dimension						
Tolerance ± mr	n 2 height						
Surfac	e	А		with quartz		Slip-resistant grade R13 V4 standard DIN E51130	
Fire behaviour		Self-ext	inguishing		Spread ≤ 25 standard ASTM E84-98		
		Level Bfl-S1 standard EN 13501-1				el Bfl-S1 standard EN 13501-1	
		A 1		a tot when the	•	ACTA CIE4 Of and the	
Ageing resistance		5 poi	nts on the g alternating c temperature	rey scale and with cycles of 4 hours to 50°C, irradiated	ithout a UV temp I by UVI	ny obvious defects (1500 hours exposure with perature 60°C and 4 hours condensation B-lamps 313 nm, irradiation 0.71 W/m ²	
		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					

GRP-plastic gratings GRATING TYPE SCH 38/25C_IFR

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		THE REAL PROPERTY OF THE PARTY
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	I	[kg/m²]
50	2450	4900
70	850	1750
90	400	800
	000	150

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[[kg/m²]
50	750	1 <i>5</i> 00
70	350	750
90	200	450
110	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: 0.20 – the breaking load is 5 times the specified landing).

DISTRIBUTED LOAD	A CONTRACTOR OF A CONTRACTOR O		CONCENTRATED LOAD	
Distance between	maximum permissible load		Distance between	maximum permissible load
[cm]	[kg/m²]	[kg/m²]	[cm]	[kg/m²]
50	4500		50	1100
70	2300		70	800
90	1350		90	600
110	900		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 38/30C_IFR

Mesh width	mm 38 x 38					
Height	mm 33					
Cover thickness	mm 3					
Bar thickness	mm 7 surface mm 5 underside					
Colour	Grey RAL 7004 RAL-specification	n				
			Polvester resin			
Raw material		Glass fibre D	irect Roving + Panel Type "E"			
		Haloge	en-free inorganic fillers			
Resin	Elastic mo	dule	Breakdown tension			
IFR	1 <i>5</i> 000 M	ЛРа	250 MPa			
Standard plates		RECTION				
mm 1000 x 2000	RORTINGBE	SET NE BRON				
mm 1000 x 4038		-38 NC BAR DIRECTION				
mm 1220 x 3660						
Weight kg/m ² 23						
± mm 5 plate dimension						
± mm 2 height			Allon			
		nt i				
Surface	A	with quartz	Slip-resistant grade K13 V4 standard DIN EST130			
			Spread < 25 standard ASTM E84-98			
Fire behaviour	Self-extinguishing		Level Bfl-S1 standard EN 13501-1			
Ageing resistance	Accelerated agein 5 points on the gr alternating c temperature	g test with UV-lan rey scale and with ycles of 4 hours U 50°C, irradiated b	np in accordance with ASTM G154-06 passed with nout any obvious defects (1500 hours exposure with V temperature 60°C and 4 hours condensation by UVB-lamps 313 nm, irradiation 0.71 W/m ²			
	After passing throu UNI EN ISO 9142/9	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				

GRP-plastic gratings GRATING TYPE SCH 38/30C_IFR

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		HILLING AND
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[[kg/m²]
50	3850	7750
70	1400	2800
90	650	1300
110	350	700

CONCENTRATED LOAD			
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100	
[cm]	[[kg/m²]	
50	1200	2400	
70	600	1200	
90	350	700	
110	250	500	

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	A CONTRACTOR OF THE OWNER	CONCENTRATED LOAD	
Distance between	maximum permissible load	Distance between	maximum permissible load
[cm]	[kg/m²]	[cm]	[kg/m²]
50	6200	50	1550
70	3150	70	1100
90	1900	90	850
110	1250	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.



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GRP-plastic gratings GRATING TYPE SCH 38/38C_IFR

Mesh width	mm 38 x 38	
Height	mm 42	
Cover thickness	mm 3	
Bar thickness	mm 7 surface mm 5 underside	42
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	250 MPa			



Surface	А	with quartz		Slip-resistant grade R13 V4 standard DIN E51130			
			Spread ≤ 25 standard ASTM E84-98				
Fire behaviour	Self-ext	inauishina					
		Le	vel Bfl-S1 standard EN 13501-1				
	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						

eing resistance	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 standard UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show any remaining defects

GRP-plastic gratings GRATING TYPE SCH 38/38C_IFR

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		THEFT
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]		[kg/m²]
50	7050	14150
70	2550	5150
90	1200	2400
110	650	1300

CONCENTRATED LOAD		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[[kg/m²]
50	2200	4400
70	1100	2250
90	650	1350
110	450	900

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	A A A A A A A A A A A A A A A A A A A	CONCENTRATED LOAD	
Distance between	maximum permissible load	Distance between	maximum permissible load
[cm]	[kg/m²]	[cm]	[kg/m²]
50	9350	50	2300
70	4750	70	1650
90	2850	90	1300
110	1900	110	1050

- 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 52/52C_IFR

	Mesh width	mm 52 x 52 main mesh mm 26 x 26 side mesh		ain mesh le mesh		
	Height	mm 55				
(Cover thickness	mm 3				
	Bar thickness	mn mn	n 7 surface n 5 underside)		
	Colour	Gro RA	ey RAL 7004 L-specificatio	n	مملك	
					Polyester resin	
	Raw material			Glass fibre [Direct Roving + Panel Type "E"	
				Halog	jen-free inorganic fillers	
	Resin		Elastic mo	dula	Breakdown tension	
	IFR		1 5000 Å	APa	250 MPa	
	II IX		100007		200 Mil d	
	Standard plates			-110 ¹⁴ 7 ~		
m	im 1000 x 3000		OPORTING BA	ORE	SUPPORTING	
m	m 1000 x 4050		- Sup-		C BAR DIR	
					LECTON	
W	/eight kg/m² 30					
	± mm 5 plate dimension					
Tolerance						
	± mm z neight					
	Surface	А	,	with quartz	Slip-resistant grade R13 V4 standard DIN E51130	
Fire behaviour			Self-extinguishing Level Bfl-S1 standard EN 13501-1		Spread ≤ 25 standard ASTM E84-98	
		Self-ex			Level Bfl-S1 standard EN 13501-1	
A	geing resistance	Accel 5 poi	erated ageir ints on the g alternating c temperature	ig test with UV-la rey scale and wit ycles of 4 hours U 50°C, irradiated	mp in accordance with ASTM G154-06 passed with hout any obvious defects (1500 hours exposure with JV temperature 60°C and 4 hours condensation by UVB-lamps 313 nm, irradiation 0.71 W/m ²	
After passing through the cycles heat, cold and moisture in accordance with UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show any rem				at, cold and moisture in accordance with the standard cycles type D3) they do not show any remaining defects		

GRP-plastic gratings GRATING TYPE SCH 52/52C_IFR

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		
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100
[cm]	[kg/m²]	
70	4750	9550
90	2250	4500
110	1200	2450
130	700	1450

CONCENTRATED LOAD			
Distance between the carriers	Load with deflection = 1/200	Load with deflection = 1/100	
[cm]	[kg/m²]		
70	2050	4150	
90	1250	2500	
110	800	1650	
130	600	1200	

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	A REAL PROPERTY AND A REAL	CONCENTRATED LOAD	
Distance between	maximum permissible load	Distance between the carriers [cm]	maximum permissible load
[cm]	[kg/m²]		[kg/m²]
70	6500	70	2250
90	3950	90	1750
110	2600	110	1450
130	1850	130	1200

- 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.