

## Technical data sheet – GRP gratings

### GRP-gratings - moulded

<b>GRP-K gratings with concave surface (R 13)</b>	
Widths	6 to 7 mm
Height	25, 30, 38 mm
Pitch	38 x 38 mm
Panel size	3660 x 1220 mm
Height	25 mm
Pitch	40 x 40 mm
Panel size	2000 x 1000 mm
Height	30, 38 mm
Pitch	40 x 40 mm
Panel size	2000 x 1000 mm 3000 x 1000 mm
Height	30 mm
Pitch	19 x 19 mm
Panel size	2000 x 1000 mm 4000 x 1000 mm
Height	50 mm
Pitch	50 x 50 mm
Panel size	3660 x 1220 mm
The gratings can also be delivered with sanded surface (GRP-BK)	

<b>GRP-G gratings with polished surface</b>	
Widths	6 to 8 mm
Height	15, 20, 25, 28, 30, 35, 38, 40 mm
Pitch	38 x 38 mm
Panel size	2002 x 1002 mm 2502 x 1002 mm 3002 x 1002 mm 2002 x 1312 mm 2502 x 1312 mm
Height	25, 28, 30 mm
Pitch	51 x 21 mm
Panel size	2002 x 1002 mm
Height	30, 38 mm
Pitch	19 x 19 mm
Panel size	2002 x 1002 mm
Also possible with closed, serrated and sanded surface (closed at one or two sides)	

<b>GRP-S heavy duty gratings</b>	
Widths	6 to 11 mm
Height	25, 30, 35, 40, 45 mm
Pitch	38 x 38 mm
Panel size	2002 x 1002 mm 2502 x 1002 mm
Height	50, 55, 60 mm
Pitch	38 x 38 mm
Panel size	2005 x 1005 mm
Height	25, 30, 35, 40, 45, 50, 55, 60 mm
Pitch	100 x 25 mm
Panel size	2005 x 1005 mm
The gratings can also be delivered with sanded surface (GRP-BKO)	
Also possible with closed, serrated and sanded surface (closed at one or two sides)	

## Information about GRP-gratings from Lichtgitter

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Product:	Lichtgitter GRP-gratings, GRP-K
Type	GRP-K (glass fiber reinforced gratings-concave)
Material:	Glass fiber E-glass, unsaturated polyester-resin
Colour:	Light grey (RAL 7035) respectively on request

Length	Width	Height	Pitch	Weight	Panel weight
1000 mm	2000 mm	25 mm	40 x 40 mm	12,0 kg/m <sup>2</sup>	24,0 kg/m <sup>2</sup>
1000 mm	2000 mm	30 mm	40 x 40 mm	14,4 kg/m <sup>2</sup>	28,8 kg/m <sup>2</sup>
1220 mm	3660 mm	30 mm	38 x 38 mm	14,4 kg/m <sup>2</sup>	64,4 kg/m <sup>2</sup>
1000 mm	3000 mm	38 mm	40 x 40 mm	18,2 kg/m <sup>2</sup>	55,1 kg/m <sup>2</sup>
1220 mm	3660 mm	38 mm	38 x 38 mm	18,2 kg/m <sup>2</sup>	81,4 kg/m <sup>2</sup>

Tolerance	: length	+1/-4 mm
	: width	+1/-4 mm
	: height	+2/-2 mm
	: weight	+10/-10%

Percentage of resin and glass fiber	: resin	approx. 68%
	: glass fiber	approx. 32%

Further indications:

- The GRP-gratings, type GRP-K are UV-resistant
- Fire classification B2 (normal ignition acc. to DIN 4102 part 1)
- The GRP-gratings, type GRP-K have a resistance of conductive discharge of  $1.098 \times 10^{-17} \text{m}/\text{ohm} \times \text{mm}^2$
- The GRP-gratings, type GRP have a low level of conduction temperature
- The GRP-gratings, type GRP-K reach the serrated classification R 13

## Load table – GRP-gratings

Load table GRP-gratings, type GRP-G, width 6 to 8 mm															
				Span in mm											
weight	weight/m <sup>2</sup>	pitch		500	600	700	800	900	1000	1100	1200	1300	1400	1500	
25	12,5	34x38	Fv	650	420	350	280	240	170						
			f	2,5	3,0	3,5	4,0	4,5	5,0						
			Fp	260	190	170	150	135	100						
			f1	2,5	3	3,5	4,0	4,5	5,0						
28	13,5	34x38	Fv	750	450	380	300	270	190	140	115				
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0				
			Fp	295	210	190	165	150	120	90	75				
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0				
30	15	34x38	Fv	1200	680	580	480	400	310	240	180	140			
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5			
			Fp	470	310	285	255	225	190	155	120	95			
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5			
35	17	34x38	Fv	1700	920	840	635	550	420	290	250	180	140		
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0		
			Fp	650	420	390	350	310	260	190	165	125	95		
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0		
38	18,5	34x38	Fv	1900	1000	890	670	580	450	375	280	210	160	120	
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	
			Fp	740	450	425	370	325	280	245	190	145	110	85	
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	
40	19,5	34x38	Fv	2250	1100	920	710	620	490	400	300	230	180	135	
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	
			Fp	880	495	450	390	350	305	260	200	160	125	95	
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	

Fv = Area load in kgm<sup>2</sup>

f = Deflection in mm at load Fv

Fp = Concentrated load in kg on an area of 200 x 200 mm

f1 = Deflection in mm at Fp

The mentioned values are average values of the current production and vary within a certain range of tolerance. Our knowledge and experiences form the basis for the information given in this presentation and therefore are recommendations without obligation. Our customers take the full responsibility for the used products and have to verify the correct application. The user has to take into consideration laws, instructions and possible rights of protection of third parties.

## Load table – GRP-gratings

Load table GRP-gratings, type GRP-G, width 6 to 8 mm														
Height	Weight/m <sup>2</sup>	Pitch		Span in mm										
				500	600	700	800	900	1000	1100	1200	1300	1400	1500
25	16,5	51x21	Fv	910	800	620	550	480	325					
			f	2,5	3,0	3,5	4,0	4,5	5,0					
			Fp	380	360	310	270	220	150					
			f1	2,5	3	3,5	4,0	4,5	5,0					
28	18,5	51x21	Fv	1050	875	680	575	510	350					
			f	2,5	3,0	3,5	4,0	4,5	5,0					
			Fp	420	390	340	300	250	180					
			f1	2,5	3,0	3,5	4,0	4,5	5,0					
30	20,5	51x21	Fv	1300	950	790	660	530	375					
			f	2,5	3,0	3,5	4,0	4,5	5,0					
			Fp	500	420	370	30	285	220					
			f1	2,5	3,0	3,5	4,0	4,5	5,0					
30	17	19x19	Fv	1300	780	680	550	460	350					
			f	2,5	3,0	3,5	4,0	4,5	5,0					
			Fp	500	350	300	270	250	215					
			f1	2,5	3,0	3,5	4,0	4,5	5,0					
30	16	25 x 25	Fv	1020	700	620	500	420	320					
			f	2,5	3,0	3,5	4,0	4,5	5,0					
			Fp	410	315	260	240	220	170					
			f1	2,5	3,0	3,5	4,0	4,5	5,0					

- Fv = Area load in kgm<sup>2</sup>  
 f = Deflection in mm at load Fv  
 Fp = Concentrated load in kg on an area of 200 x 200 mm  
 f1 = Deflection in mm at Fp

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## Load table – GRP-gratings

Load table GRP-gratings, type GRP-K, width 6 to 7 mm														
Height	Weight/m <sup>2</sup>	Pitch	Span in mm											
				500	600	700	800	900	1000	1100	1200	1300	1400	1500
26	12,0	38x38	Fv	400	350	300	200	200	150	150	100			
			f	4,0	4,0	6,0	10,0	12,0	12,0	13,0	15,0			
			Fp	350	250	200	150	100	100	100	75			
			f1	3,0	4,0	4,0	4,5	4,5	6,0	9,0	10,0			
30	14,5	38x38	Fv	400	400	400	350	300	300	250	200	150	100	
			f	3,0	3,5	4,0	4,0	8,0	12,5	13,0	15,0	17,0	20,0	
			Fp	600	400	250	150	150	150	150	150	100	75	
			f1	3,0	3,0	3,5	4,0	4,5	5,5	7,0	9,0	11,0	13,0	
38	18,0	38x381	Fv	1100	1000	900	700	400	350	300	250	200	150	100
			f	3,5	3,5	4,0	4,5	5,0	5,5	7,0	9,0	11,0	13,0	16,0
			Fp	750	700	600	450	300	200	200	175	150	100	75
			f1	3,0	3,5	3,5	4,0	4,0	4,0	5,5	7,0	9,0	11,0	12,0

Fv = Area load in kgm<sup>2</sup>

f = Deflection in mm at load Fv

Fp = Concentrated load in kg on an area of 200 x 200 mm

f1 = Deflection in mm at Fp

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## Load table – GRP-gratings

Load table GRP-gratings, type GRP-S, width 6 to 11 mm														
Height	Weight/m <sup>2</sup>	Pitch	Span in mm											
				500	600	700	800	900	1000	1100	1200	1300	1400	1500
25	15,0	100x25	Fv	1000	685	570	400	370	340	280	220			
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
			Fp	395	300	270	220	195	175	160	135			
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
30	18,0	100x25	Fv	1480	1050	950	760	680	470	370	260			
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
			Fp	580	470	430	400	370	295	240	175			
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
35	21,0	100x25	Fv	2240	1460	1210	970	890	625	560	380			
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
			Fp	875	650	600	520	480	390	355	270			
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
40	25,0	100x25	Fv	2820	1600	1350	1120	960	710	640	465	395	270	140
			f	2,5	3	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	1100	720	670	610	540	440	410	330	270	190	100
			f1	2,5	3	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
45	29,0	100x25	Fv	3850	2480	1970	1600	1360	1010	895	715	570	460	340
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	1450	1110	980	880	765	630	590	490	395	320	220
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
50	34,0	100x25	Fv	4680	3325	2780	2310	2025	1515	1320	1110	875	795	560
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	1830	1500	1400	1270	1140	940	860	740	600	550	380
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
55	39,0	100x25	Fv	5850	5200	3875	3050	2350	2050	1760	1350	1120	875	625
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	2300	2100	1900	1650	1380	1250	1140	910	770	620	440
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
60	44	100x25	Fv	7750	6500	5875	4900	3700	3000	2550	1980	1610	1170	920
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	3050	2800	2600	2450	2100	1850	1500	1350	1110	810	620
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5

- Fv = Area load in kgm<sup>2</sup>  
 f = Deflection in mm at load Fv  
 Fp = Concentrated load in kg on an area of 200 x 200 mm  
 f1 = Deflection in mm at Fp

The mentioned values are average values of the current production and vary within a certain range of tolerance. Our knowledge and experiences form the basis for the information given in this presentation and therefore are recommendations without obligation. Our customers take the full responsibility for the used products and have to verify the correct application. The user has to take into consideration laws, instructions and possible rights of protection of third parties.

Load table GRP-gratings, type GRP-S, width 6 to 11 mm														
			Span in mm											
Height	Weight/m <sup>2</sup>	Pitch		500	600	700	800	900	1000	1100	1200	1300	1400	1500
25	15,0	34x38	Fv	750	500	450	320	260	190	170	110			
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
			Fp	300	240	220	180	150	120	100	75			
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
30	18,0	34x38	Fv	1200	850	710	600	540	380	300	220			
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
			Fp	470	380	330	300	250	220	185	140			
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
35	21,0	34x38	Fv	1650	1180	960	780	720	500	460	320			
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
			Fp	650	530	480	425	380	310	280	220			
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0			
40	25,0	34x38	Fv	2000	1300	1100	900	780	580	520	380	300	220	120
			f	2,5	3	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	780	585	540	495	440	360	330	260	220	155	85
			f1	2,5	3	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
45	29,0	34x38	Fv	2800	2000	1600	1280	1050	820	720	580	470	375	280
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	1100	900	810	704	590	500	465	390	320	260	190
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
50	34,0	34x38	Fv	3700	2700	2240	1880	1520	1200	1080	900	800	660	470
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	1445	1210	1120	1030	860	750	700	600	520	450	330
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
55	39,0	34x38	Fv	4700	4200	3100	2400	1880	1650	1450	1080	900	700	500
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	1840	1700	1550	1320	1110	1020	940	720	620	490	350
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5

Load table GRP-gratings, type GRP-S, width 6 to 11 mm														
			Span in mm											
Height	Weight/m <sup>2</sup>	Pitch		500	600	700	800	900	1000	1100	1200	1300	1400	1500
60	44,0	34x38	Fv	6200	5200	4350	3700	3100	2500	2000	1600	1300	950	750
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	2450	2300	2200	2000	1790	1530	1300	1080	890	665	500
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
65	50,0	34x38	Fv	6820	5720	5160	4200	3300	2700	2200	1760	1430	1050	820
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	2650	2560	2470	2150	1950	1690	1440	1180	990	740	580
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
70	56,0	34x38	Fv	7160	6000	5000	4100	3400	2800	2280	1830	1480	1090	850
			f	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5
			Fp	2790	2700	2510	2250	2050	1750	1490	1235	1020	790	600
			f1	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5

- Fv = Area load in kgm<sup>2</sup>
- f = Deflection in mm at load Fv
- Fp = Concentrated load in kg on an area of 200 x 200 mm
- f1 = Deflection in mm at Fp

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Lichtgitter GmbH

Date: 06.01.2003

Product: Lichtgitter GRP-gratings, type GRP-K

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1. Trade name: GRP-K  
Company: Lichtgitter GmbH  
Siemensstrasse  
48703 Stadtlohn/Germany  
Tel.: +49/2563/911-203 Fax: +49/2563/911-6192

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2. Composition/indications regarding the components  
Glass fiber reinforcement, high quality of resin in hardening condition

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3. Possible hazards:  
None

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4. First aid assistance in case of dust accident  
After inhalation: Take care for fresh air, if necessary call for a doctor  
After eye contact: Open the eyes wide and clean the eyes with a lot of clean water, if necessary call for a doctor

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5. Instructions in case of fire:  
Suitable for extinguishing the fire: everything (e.g. water, extinguish powder, foam, sand, CO<sub>2</sub>, etc.). Due to security reasons not suitable: in full water jet. In case of fire mostly aluminium oxide, water and depending on the presence of oxygen and burn temperature carbon dioxide and carbon monoxide can be expected as fire decomposition product.

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6. Instructions in case of unintentional release  
Not relevant

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7. Handling and storage  
No special instructions, Vbf-classification: none

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8. Check of the dirt emission and personal protection equipment  
Taking care of good dust exhauster devices during the work with GRP-gratings.  
Personal protection equipment: protection clothes, breathing equipment, protection glasses.

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9. Physical and chemical particularities  
Form: firm; Colour: grey or upon request; Smell: none, possible a little bit of styrene  
Density: approx. 1,85

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10. Stability and reactivity  
Dangerous reaction: If dust is getting hotter and is be deposited in the machine, it is possible that without any heat supply a fire can break out in the machine.  
Dangerous decomposition products: no decomposition in case of proper use.

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11. Indications regarding ecology  
Neutral in the water

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12. Comment regarding disposal  
By taking into consideration the local public instruction it can be kept together with the normal house garbage.

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13. Indications regarding transport  
No hazardous material acc. to the national and international instructions.

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14. Instructions  
This product is no hazardous material acc. to the German corresponding instructions and acc. to the European Law.

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15. Other indications  
These indications are based on the present knowledge and form no guarantee for qualities. The buyer of our product has to follow the existing laws and instructions.

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## Safety data sheet

acc. to 91/155/EWG

Lichtgitter GmbH

Date: 06.01.2003

Product: Lichtgitter GRP-gratings, type GRP-G

- 
1. Trade name: GRP-G  
Company: Lichtgitter GmbH  
Siemensstrasse  
48703 Stadtlohn/Germany  
Tel.: +49/2563/911-203 Fax: +49/2563/911-6192

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  2. Composition/indications regarding the components  
Glass fiber reinforcement, high quality of resin in hardening condition

---

  3. Possible hazards:  
None

---

  4. First aid assistance in case of dust accident  
After inhalation: Take care for fresh air, if necessary call for a doctor  
After eye contact: Open the eyes wide and clean the eyes with a lot of clean water, if necessary call for a doctor

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  6. Instructions in case of unintentional release  
Not relevant

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  7. Handling and storage  
No special instructions, Vbf-classification: none

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- 
10. Stability and reactivity  
Dangerous reaction: If dust is getting hotter and is be deposited in the machine, it is possible that without any heat supply a fire can break out in the machine.  
  
Dangerous decomposition products: no decomposition in case of proper use.
- 
11. Indications regarding ecology  
Neutral in the water
- 
12. Comment regarding disposal  
By taking into consideration the local public instruction it can be kept together with the normal house garbage.
- 
13. Indications regarding transport  
No hazardous material acc. to the national and international instructions.
- 
14. Instructions  
This product is no hazardous material acc. to the German corresponding instructions and acc. to the European Law.
- 
15. Other indications  
These indications are based on the present knowledge and form no guarantee for qualities. The buyer of our product has to follow the existing laws and instructions.
-

<b>GRP-BK gratings with sanded surface (R 13)</b>	
Widths	6 to 7 mm
Height	25, 30, 38 mm
Pitch	38 x 38 mm
Panel size	3660 x 1220 mm
Height	25 mm
Pitch	40 x 40 mm
Panel size	2000 x 1000 mm
Height	30, 38 mm
Pitch	40 x 40 mm
Panel size	2000 x 1000 mm 3000 x 1000 mm
Height	30 mm
Pitch	19 x 19 mm
Panel size	2000 x 1000 mm 4000 x 1000 mm
Height	50 mm
Pitch	50 x 50 mm
Panel size	3660 x 1220 mm

<b>GRP-BQ gratings with sanded surface</b>	
Widths	6 to 8 mm
Height	15, 20, 25, 28, 30, 35, 38, 40 mm
Pitch	38 x 38 mm
Panel size	2002 x 1002 mm 2502 x 1002 mm 3002 x 1002 mm 2002 x 1312 mm 2502 x 1312 mm
Height	25, 28, 30 mm
Pitch	51 x 21 mm
Panel size	2002 x 1002 mm
Height	30 mm
Pitch	19 x 19 mm
Panel size	2002 x 1002 mm

<b>GRP-BKO gratings with sanded surface</b>	
Widths	9 to 11 mm
Height	25, 28, 30, 35, 38, 40 mm
Pitch	38 x 38 mm
Panel size	2002 x 1002 mm 2502 x 1002 mm 3002 x 1002 mm 2002 x 1312 mm 2502 x 1312 mm
Height	25, 28, 30, 38 mm
Pitch	51 x 21 mm
Panel size	2002 x 1002 mm
Height	30 mm
Pitch	19 x 19 mm
Panel size	2002 x 1002 mm

## Safety data sheet

acc. to 91/155/EWG

Lichtgitter GmbH  
Date: 06.01.2003  
Product: Lichtgitter GRP-gratings, type GRP-SBKO

- 
1. Trade name: GRP-SBKO  
Company: Lichtgitter GmbH  
Siemensstrasse  
48703 Stadtlohn/Germany  
Tel.: +49/2563/911-203 Fax: +49/2563/911-6192
  2. Composition/indications regarding the components  
Glass fiber reinforcement, high quality of resin in hardening condition
  3. Possible hazards:  
None
  4. First aid assistance in case of dust accident  
After inhalation: Take care for fresh air, if necessary call for a doctor  
After eye contact: Open the eyes wide and clean the eyes with a lot of clean water, if necessary call for a doctor
  5. Instructions in case of fire:  
Suitable for extinguishing the fire: everything (e.g. water, extinguish powder, foam, sand, CO<sub>2</sub>, etc.). Due to security reasons not suitable: in full water jet. In case of fire mostly aluminium oxide, water and depending on the presence of oxygen and burn temperature carbon dioxide and carbon monoxide can be expected as fire decomposition product.
  6. Instructions in case of unintentional release  
Not relevant
  7. Handling and storage  
No special instructions, Vbf-classification: none
  8. Check of the dirt emission and personal protection equipment  
Taking care of good dust exhauster devices during the work with GRP-gratings.  
Personal protection equipment: protection clothes, breathing equipment, protection glasses.

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9. Physical and chemical particularities  
Form: firm; Colour: grey or upon request; Smell: none, possible a little bit of styrene  
Density: approx. 1,85
- 
10. Stability and reactivity  
Dangerous reaction: If dust is getting hotter and is be deposited in the machine, it is possible that without any heat supply a fire can break out in the machine.  
  
Dangerous decomposition products: no decomposition in case of proper use.
- 
11. Indications regarding ecology  
Neutral in the water
- 
12. Comment regarding disposal  
By taking into consideration the local public instruction it can be kept together with the normal house garbage.
- 
13. Indications regarding transport  
No hazardous material acc. to the national and international instructions.
- 
14. Instructions  
This product is no hazardous material acc. to the German corresponding instructions and acc. to the European Law.
- 
15. Other indications  
These indications are based on the present knowledge and form no guarantee for qualities. The buyer of our product has to follow the existing laws and instructions.
-

## Safety data sheet

acc. to 91/155/EWG

Lichtgitter GmbH

Date: 06.01.2003

Product: Lichtgitter GRP-gratings, type GRP-BQ

- 
1. Trade name: GRP-BQ  
Company: Lichtgitter GmbH  
Siemensstrasse  
48703 Stadtlohn/Germany  
Tel.: +49/2563/911-203 Fax: +49/2563/911-6192

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  2. Composition/indications regarding the components  
Glass fiber reinforcement, high quality of resin in hardening condition

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  3. Possible hazards:  
None

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  4. First aid assistance in case of dust accident  
After inhalation: Take care for fresh air, if necessary call for a doctor  
After eye contact: Open the eyes wide and clean the eyes with a lot of clean water, if necessary call for a doctor

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  5. Instructions in case of fire:  
Suitable for extinguishing the fire: everything (e.g. water, extinguish powder, foam, sand, CO<sub>2</sub>, etc.). Due to security reasons not suitable: in full water jet. In case of fire mostly aluminium oxide, water and depending on the presence of oxygen and burn temperature carbon dioxide and carbon monoxide can be expected as fire decomposition product.

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  6. Instructions in case of unintentional release  
Not relevant

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  7. Handling and storage  
No special instructions, Vbf-classification: none
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## GRP-gratings – pultruded

<b>GRP gratings, pultruded with profiles out of rectangular tubes</b>	
Height*	25 mm
Rectangular tube	b 20 x h 25 mm
Distance of profile	5 – 50 mm
Panel size**	6000 x 2000 mm
Height*	30 mm
Rectangular tube	b 30 x h 30 mm
Distance of profile	5 – 50 mm
Panel size**	6000 x 2000 mm
Height*	40 mm
Rectangular tube	b 30 x h 25 mm
Distance of profile	5 – 50 mm
Panel size**	6000 x 2000 mm
* U-profile plus 5 mm	
** Tailor-made production possible	

<b>GRP gratings, pultruded with grooved/sanded surface</b>	
Height	30 mm
Width of bars	10 mm
Distance of profile	14,5, 20, 30 mm
Panel size	Tailor-made production
Height	38 mm
Width of bars	15 mm
Distance of profile	14,5, 20, 30 mm
Panel size	Tailor-made production
Height	60 mm
Width of bars	20 mm
Distance of profile	14,5, 19,5, 29,5 mm
Panel size	Tailor-made production

### Operational areas / Range of applications

<b>GRP-gratings</b>	
Operational areas	Range of applications
- Food and beverage industry	- Platform, landings and walkways
- Paper and wood pulp industry	- Stairtreads
- Pharmaceutical industry	- Ramps
- Vehicle and aeronautical construction	- Channels and shaft coverings
- Synthetic and rubber industry	- Production and transfer streets
- Offshore plants	- Shielding of dangerous areas
- Naval and shipyards	- Sewage works
- Textile fibre and textile paper industries	- Chloride, bleaching and filter plants
- Pickling and galvanizing plants	- Kitchens
- Petrochemical industry	
- Food processing industry	