

## 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

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

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1. Trade name: GRP-G  
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.
  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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<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

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1. Trade name: GRP-SBKO  
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.
- 
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-BQ

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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	