



**GLAPOR PRICE LIST 2014**  
**Foam glass boards / Accessories**  
**BELGIUM**

## GLAPOR INSULATING BOARDS PG 900

Heat-insulating material for buildings; Products made from foam glass (CG) EN 13167

General building approval Germany: Z-23.15-1755

### Areas of application

- Ceiling and floor insulation
- Interior insulation
- Perimeter insulation



Insulation boards PG 900	Quantity base	Prices per m <sup>2</sup>					Price per m <sup>3</sup>
		40 mm	60 mm	80 mm	100 mm	120 mm	
	up to 100 m <sup>3</sup>	13,60 €	20,40 €	27,20 €	34,00 €	38,90 €	340,00 €

Shipping surcharge for low quantities	for object quantities up to 5 m <sup>3</sup>	100,00 € (Net price)
Euro pallet	per piece	11,00 € (Net price)
Portable fork lift or hydraulic lift (subject to availability)	lump sum	160,00 € (Net price)

### Form of delivery

Delivery of insulating boards and accessories will only be made on Euro pallets.

Quantity per pallet	L x W in mm	40 mm	60 mm	80 mm	100 mm	120 mm
Standard format	800x600	-	34 St./16,32 m <sup>2</sup>	24 St./11,52 m <sup>2</sup>	20 St./9,6 m <sup>2</sup>	16 St./7,68 m <sup>2</sup>
Standard format	600x400	120 St./23,04 m <sup>2</sup>	68 St./16,32 m <sup>2</sup>	-	-	-
Special format large*	1200x800	-	-	-	10 St./9,6 m <sup>2</sup>	8 St./7,68 m <sup>2</sup>
Special format small*	600x400	-	-	48 St./11,52 m <sup>2</sup>	40 St./9,6 m <sup>2</sup>	32 St./7,68 m <sup>2</sup>

\* delayed delivery times; further special formats on request and possibly at higher prices

**HIGH COMPRESSION STRENGTH - HIGHLY INSULATING AGAINST HEAT AND COLD - FIRE RESISTANT - ANTI-CAPILLARY ACTION - LIGHTWEIGHT - RODENT-PROOF - ECOLOGICAL**

### Product properties

Material	100 % high-quality recycled glass
Colour	grey
Bulk density	135-145 kg/m <sup>3</sup>
Thermal conductivity $\lambda_D$	0,060 W/mK
Specific thermal conductivity	850 J/kgK
Coefficient of thermal expansion	$8,5 \times 10^{-6}$
Water-vapour diffusion	steam-tight
Average compression strength, confidence level 95%	1,13 - 1,19 N/mm <sup>2</sup>
2,5 % fractile	0,97 N/mm <sup>2</sup>
7,5 % fractile	1,015 N/mm <sup>2</sup>
Module of elasticity E (Insulating board 120 mm mit 2x2 mm bitumen)	90 N/mm <sup>2</sup>
Difference of planeness $S_{max}$	≤ 2 mm
Tolerance of length/width/thickness	± 2 mm
Deviation from perpendicular length and width $S_b$	≤ 6 mm /m
Deviation from perpendicular thickness $S_d$	≤ 2 mm

## GLAPOR INSULATING BOARDS PG 700

Heat-insulating board with slope, made from foam glass from industrially produced recycled glass as per (CG) EN 13167; 2009-02  
General building approval Germany: Z-23.15-1755

### Areas of application

- Ceiling and floor insulation
- Interior insulation
- Perimeter insulation



Insulation boards PG 700	Quantity base	Prices per m <sup>2</sup>					Price per m <sup>3</sup>
		40 mm	60 mm	80 mm	100 mm	120 mm	
	up to 100 m <sup>3</sup>	12,10 €	18,20 €	24,20 €	30,30 €	34,60 €	303,00 €

Shipping surcharge for low quantities	for object quantities up to 5 m <sup>3</sup>	100,00 € (Net price)
Euro pallet	per piece	11,00 € (Net price)
Portable fork lift or hydraulic lift (subject to availability)	lump sum	160,00 € (Net price)

### Form of delivery

Delivery of insulating boards and accessories will only be made on Euro pallets.

Quantity per pallet	L x W in mm	40 mm	60 mm	80 mm	100 mm	120 mm
Standard format	800x600	-	34 St./16,32 m <sup>2</sup>	24 St./11,52 m <sup>2</sup>	20 St./9,6 m <sup>2</sup>	16 St./7,68 m <sup>2</sup>
Standard format	600x400	120 St./23,04 m <sup>2</sup>	68 St./16,32 m <sup>2</sup>	-	-	-
Special format large*	1200x800	-	-	-	10 St./9,6 m <sup>2</sup>	8 St./7,68 m <sup>2</sup>
Special format small*	600x400	-	-	48 St./11,52 m <sup>2</sup>	40 St./9,6 m <sup>2</sup>	32 St./7,68 m <sup>2</sup>

\* delayed delivery times; further special formats on request and possibly at higher prices

**HIGH COMPRESSION STRENGTH - HIGHLY INSULATING AGAINST HEAT AND COLD - FIRE RESISTANT - ANTI-CAPILLARY ACTION - LIGHTWEIGHT - RODENT-PROOF - ECOLOGICAL**

### Product properties

Material	100 % high-quality recycled glass
Colour	grey
Bulk density	135-145 kg/m <sup>3</sup>
Thermal conductivity $\lambda_D$	0,060 W/mK
Specific thermal conductivity	850 J/kgK
Coefficient of thermal expansion	$8,5 \times 10^{-6}$
Water-vapour diffusion	steam-tight
Average compression strength, confidence level 95%	0,89 - 0,93 N/mm <sup>2</sup>
2,5 % fractile	0,74 N/mm <sup>2</sup>
7,5 % fractile	0,78 N/mm <sup>2</sup>
Module of elasticity E (Insulating board 120 mm mit 2x2 mm bitumen)	90 N/mm <sup>2</sup>
Difference of planeness $S_{max}$	$\leq 2$ mm
Tolerance of length/width/thickness	$\pm 2$ mm
Deviation from perpendicular length and width $S_b$	$\leq 6$ mm /m
Deviation from perpendicular thickness $S_d$	$\leq 2$ mm

## GLAPOR Heat-insulating gradient boards PG 900/PG 700

Heat-insulating board made from foam glass from industrially produced recycled glass as per (CG)  
EN 13167; 2009-02, with slope cut  
General building approval Germany: Z-23.15-1755

### Areas of application

- Ceiling and floor insulation
- Sealing of buildings

Gradient boards 1 %, 1,7 %, 2 %, 2,5 %, 3,3 %, 5 %  
Boards with special gradient on request



Gradient boards	Quantity base	Price is calculated as follows:		
		Basic price/m <sup>3</sup> plus surcharge for cutting of gradient/m <sup>2</sup>		
		PG700 Basic price/m <sup>3</sup>	PG 900 Basic price/m <sup>3</sup>	Cutting of gradient/m <sup>2</sup>
	up to 100 m	303,00 €	340,00 €	17,01 €

### Calculation example (PG 700, average thickness 163 mm):

Basic price for quantities up to 100 m <sup>3</sup>	303,00 €	/m <sup>3</sup> * 0,163 m	49,39 € /m <sup>2</sup>
Cutting of gradient			17,01 € /m <sup>2</sup>
Total price per m <sup>2</sup>			66,40 € /m <sup>2</sup>

Shipping surcharge for low quantities	for object quantities up to 5 m <sup>3</sup>	100,00 € (Net price)
Euro pallet	per piece	11,00 € (Net price)
Portable fork lift or hydraulic lift (subject to availability)	lump sum	160,00 € (Net price)

### Form of delivery

Delivery of insulating boards and accessories will only be made on Euro pallets.

**HIGH COMPRESSION STRENGTH - HIGHLY INSULATING AGAINST HEAT AND COLD - FIRE RESISTANT - ANTI-CAPILLARY ACTION - LIGHTWEIGHT - RODENT-PROOF - ECOLOGICAL**

Further product properties

see data forms PG 700 and PG 900

Please note for slope cut roof systems:

The exact average thickness can only be determined after the drawing of the gradient plan has been issued. For this reason the price per square metre or the quantity may change. These deviations will be considered in the invoice!

The preparation of the drawings for the slope cut roof system as well as the calculation of the building physics and hydraulic will exclusively be made for the preparation of the offer price and will be considered as service offered by our company. It is not a consultancy service but an integral part of our offer.

A liability of our company, for whatever legal reason, is restricted to intent and gross negligence, unless life, body or health will be damaged. For the rest our liability is excluded.

## GLAPOR ACCESSORIES INSULATING BOARDS

### INSULATION HOLDERS

Description	Board thickness	Unit	Price €
GLAPOR Insulation holder 25 high-grade steel	40-60 mm	100 pieces	204,00 €
GLAPOR Insulation holder 45 high-grade steel	70-100 mm	100 pieces	225,20 €
GLAPOR Insulation holder 65 high-grade steel	> 100 mm	100 pieces	287,30 €



### ADHESIVES

Description	Price €
Cold bitumen* see photo on the right Pecimor DK (PCI)	on request

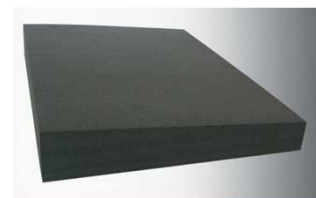
\*Please stick to the recommended, application-related GLAPOR laying instructions



### GLAPOR INSULATING WEDGE

#### Areas of application

Connections and counter slope



Description	Dimensions	Packaging	Unit	Price €/pc.
GLAPOR Insulating wedge 40/80	40/80 x 800 x 600 mm	max. 34 pcs. / pallet	pieces	20,60 €
GLAPOR Insulating wedge 80/120	80/120 x 800 x 600 mm	max. 20 pcs. / pallet	pieces	29,30 €

Shipping surcharge per pallet

Form of delivery on Euro pallets

lump sum

per piece

on request

11,00 €

(Net price)

### GLAPOR ADJUSTMENT BOARDS

#### Areas of application

Connections and counter slope



Description	Dimensions	Packaging	Unit	Price €/pc.
GLAPOR Adjustment board 30	30 x 600 x 300 mm	order-related	pieces	9,00 €
GLAPOR Adjustment board 20	20 x 600 x 300 mm	order-related	pieces	8,20 €

Shipping surcharge per pallet

Form of delivery on Euro pallets

lump sum

per piece

on request

11,00 €

(Net price)

### GLAPOR CONNECTION WEDGE

#### Areas of application

For the connection of rising components



Description	Dimensions	Packaging	Unit	Price €/m
GLAPOR Connection wedge	80 x 80 mm	order-related	m	5,90 €
GLAPOR Connection wedge	100 x 100 mm	order-related	m	7,50 €
GLAPOR Connection wedge	120 x 120 mm	order-related	m	9,40 €

Shipping surcharge per pallet

Form of delivery on Euro pallets

lump sum

per piece

on request

11,00 €

(Net price)

## GLAPOR INSULATING GRAVEL SG 800 P

Load-bearing thermal insulation under foundation and floor slabs  
Lightweight aggregate as per DIN 13 055-2 C E

### Areas of application

- Perimeter insulation in the floor structure
- Lightweight aggregate as insulating and levelling fill
- Formable fill on tunnels, enclosures and underground / storage structures



GLAPOR Insulating gravel SG 800 P	Quantity	Price €/m³
Delivery only as full loads (possibly combined with other bulk goods)	1 m³	58,30 €

Packaging	Form of delivery	Surcharge €/m³
	Big Bag 1,5 m³	8,00 € (Net price)
	Big Bag 3,0 m³	5,00 € (Net price)
	Textile chute for distribution on the construction site	2,50 € (Rental price, net)
	Loose	Without surcharge

**HIGH COMPRESSION STRENGTH - HIGHLY INSULATING AGAINST HEAT AND COLD - FIRE RESISTANT - ANTI-CAPILLARY ACTION - LIGHTWEIGHT - RODENT-PROOF - ECOLOGICAL**

### Product properties

Material	100 % high-quality recycled glass DIN 52104-1, procedure G	
Density, bulk	150 - 170 kg/m³	EN 1097-3
Weight, compressed fill	195 - 220 kg/m³	compression 1,3:1
Particle size distribution, bulk	32-63 mm	EN 933-1
Flotation, compressed fill	6,5 kN/m³	compression 1,3:1
Thermal conductivity, compressed fill $\lambda_D$	0,085 W/mK	EN 12667 / EN 12939
Compaction factor	1,3 : 1	
Minimum installation thickness, compressed	15 cm	
Rated compression stress $f_{cd}$ compression < 2 %	370 kPa	DIN EN 826
Porosity, compressed fill	approx. 15 vol. %	
Combustibility - material class	A1	EN 13501-1
Smoke and drip formation	none	

## GLAPOR Modules for insulating gravel

### GLAPOR PERIMETER INSULATION BRICKS

Pre-assembled perimeter insulation brick, two-ply, for concrete slabs

**Areas of application** Perimeter insulation formwork for insulation gravel and concrete slab

**Special applications** Hillside location  
Boundary buildings

Object-related production with various dimensions or cell filling coating possible on request



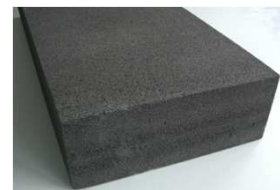
Description	Dimensions	Unit	Price €/pc.
GLAPOR Perimeter insulation brick 70/40	700 x 920 x 240 mm (coverage 800 mm)	pieces	98,00 €
GLAPOR Perimeter insulation brick 60/30	600 x 920 x 240 mm (coverage 800 mm)	pieces	85,50 €
GLAPOR Perimeter insulation brick 50/20	500 x 920 x 240 mm (coverage 800 mm)	pieces	70,00 €
Euro pallet		per piece	11,00 €

**Packaging** Order-related  
**Qty./Pal.** max. 6 pcs./Pal.  
**Delivery form** on pallets

### GLAPOR PIPELINE INSULATION BOARD

#### Areas of application

Pipeline insulation of drainage systems in the foam glass gravel bed to avoid thermal bridges



Description	Dimensions	Thickness	Unit	Price €/pc.
GLAPOR Pipeline insulation board	800 x 300 mm	120 mm	pieces	22,30 €
Shipping surcharge per pallet in Germany			lump sum	on request
Euro pallet			per piece	11,00 €

**Packaging** Order related  
**Qty./Pal.** max. 32 pcs./Pal.  
**Delivery form** on pallets



## GLAPOR FILLING GRANULES GG 40/90

Lightweight foam glass granules made from industrially produced recycled glass

### Areas of application

- To be used as filler for floors, arches, landscape preservation, garden and landscape architecture
- As soil replacement



GLAPOR Filling granules GG 40/90	Quantity	Price €/m <sup>3</sup>
Delivery only as full loads (possibly combined with other bulk goods)	1 m <sup>3</sup>	on request

Delivery form	Packaging	Surcharge €/m <sup>3</sup>
	Big Bag 1,5 m <sup>3</sup>	8,00 € (Net price)
	Big Bag 3,0 m <sup>3</sup>	5,00 € (Net price)
	Textile chute for distribution on the construction site	2,50 € (Rental price, net)
	Loose	Without surcharge

### Product properties

Material	100 % high-quality recycled glass	
Colour	grey	
Density, bulk	130-180 kg/m <sup>3</sup>	
Rated value for bulk density (compressed 1,3:1 and humid)*	350 kg/m <sup>3</sup>	
Particle size distribution, bulk	40-90 mm	EN 933-1
Flotation, compressed fill	7,5 kN/m <sup>3</sup>	compression 1,3:1
Thermal conductivity**, compressed fill 1,3:1, λ <sub>R</sub>	0,140 W/mK	
Maximum compression stress *** of the fill with a compaction factor of 1,3:1 and a compression of <2%	90 kPa	EN 826
Minimum installation thickness, compressed	20 cm	
Installation and compaction in layers	≤ 40 cm	Thickness of the loose fill
Compaction factor, recommended compaction dependent on the application	1,1 to 1,5:1	Factor
Combustibility - material class	A1	EN 13501-1

\* The granules may contain moisture dependent on production and storage.

\*\* The specific value for the thermal conductivity only serves for the calculation of components and may not be taken into account for the thermal insulation certificate

\*\*\* The characteristic value for the determined compression stress may not be used for the calculation of components relevant to stability.



## GLAPOR LIGHTWEIGHT GRANULES GG 20/50

Lightweight foam glass granules made from industrially produced recycled glass

### Areas of application

- To be used as filler for floors, arches, landscape preservation, garden and landscape architecture
- As soil replacement



GLAPOR Lightweight granules GG 20/50	Quantity	Price €/m³
Delivery only as full loads (possibly combined with other bulk goods)	1 m³	on request

Delivery form	Packaging	Surcharge €/m³
	Big Bag 1,5 m³	8,00 € (Net price)
	Big Bag 3,0 m³	5,00 € (Net price)
	Textile chute for distribution on the construction site	2,50 € (Rental price, net)
	Loose	Without surcharge

### Product properties

Material	100 % high-quality recycled glass	
Colour	grey	
Density, bulk	130-180 kg/m³	EN 1097-6
Rated value for bulk density (compressed 1,3:1 and humid)*	350 kg/m³	EN 1097-3
Particle size distribution, bulk	20-40 mm	EN 933-1
Flotation, compressed fill	7,5 kN/m³	Compression 1,3:1
Thermal conductivity**, compressed fill 1,3:1, $\lambda_R$	0,140 W/(mK)	WN 12667
Maximum compression stress *** of the fill with a compaction factor of 1,3:1 and a compression of	90 kPa	EN 826
Minimum installation thickness, compressed	9 cm	Thickness of the loose fill
Installation and compaction in layers	≤ 40 cm	
Compaction factor, recommended compaction	1,1 to 1,5:1	Factor
Combustibility - material class	A1	EN 13501-1

\* The granules may contain moisture dependent on production and storage.

\*\* The specific value for the thermal conductivity only serves for the calculation of components and may not be taken into account for the thermal insulation certificate

\*\*\* The characteristic value for the determined compression stress may not be used for the calculation of components relevant to stability.

## GLAPOR MICRO GRANULES GG 0/15

### Areas of application

- To be used as filler for floors, arches, landscape preservation, garden and landscape architecture
- As soil replacement



GLAPOR Micro granules GG 0/15	Quantity	Price €/m³
Delivery only as full loads (possibly combined with other bulk goods)	1 m³	on request

Delivery form	Packaging	ZuschlagsPrice €/m³
	Big Bag 1,5 m³	8,00 € (Net price)
	Big Bag 3,0 m³	5,00 € (Net price)
	Textile chute for distribution on the construction site	2,50 € (Rental price, net)
	Loose	Without surcharge

### Product properties

Material	100 % high-quality recycled glass	
Colour	grey	
Density, bulk	130-180 kg/m³	EN 1097-6
Rated value for bulk density (compressed 1,3:1 and humid)*	350 kg/m³	EN 1097-3
Particle size distribution, bulk	8-20 mm	EN 933-1
Flotation, compressed fill	7,5 kN/m³	Compression 1,3:1
Thermal conductivity**, compressed fill 1,3:1, $\lambda_R$	0,140 W/(mK)	WN 12667
Maximum compression stress *** of the fill with a compaction factor of 1,3:1 and a compression of <2%	90 kPa	EN 826
Minimum installation thickness, compressed	5 cm	
Installation and compaction in layers	≤ 40 cm	Thickness of the loose fill
Compaction factor, recommended compaction dependent on the application	1,1 bis 1,5:1	Factor
Combustibility - material class	A1	EN 13501-1

\* The granules may contain moisture dependent on production and storage.

\*\* The specific value for the thermal conductivity only serves for the calculation of components and may not be taken into account for the thermal insulation certificate

\*\*\* The characteristic value for the determined compression stress may not be used for the calculation of components relevant to stability.

## GLAPOR DELIVERY DETAILS AND SERVICE

### Orders



Only written orders are accepted. The customer will receive an order confirmation for each order. After the order has been confirmed, please report any deviations to our customer service by 8:00 AM of the following working day. Please ensure that every order is confirmed so that we may serve you better.

### Delivery



Delivery: Free site or at place of unloading, provided that access by lorry with semi-trailer respectively truck trailer will be feasible. Bulk goods in loose form will be unloaded. Big bags and pallets will not be unloaded. Road practicability: Please check access road for lorries with a maximum length of 18 m and a height of 4,20 m. Pallets: GLAPOR reusable packaging means that you can sell delivered Euro pallets to local industries and trading partners. For pallets quantities exceeding 200 pcs. GLAPOR will pick up undamaged and clean pallets by appointment at a price of € 9,-/pc. Textile unloading chute: The GLAPOR textile chute will be brought to your site together with your delivery of insulating gravel and taken back by the forwarder after the installation. For longer rental periods our despatch department will coordinate this for you.

### Delivery times



For standard materials within one week after order confirmation as a rule. Special productions as per order confirmation.

**Downtime:** The lorry must be unloaded within 90 minutes.

After this time has elapsed the customer will be charged a stallage in the amount of EUR 50 per hour or fraction thereof. After 4 hours the customer will be charged all additional costs caused by the downtime.

### Delivery time and delivery time changes



**Delivery dates:** Indicated delivery dates and delivery deadlines will be met if possible, however they are always subject to change. Claims for delayed delivery, especially claims for damages are not possible. Delivery time change:

.... **prior to loading:** Our customer service will check whether the delivery date can be changed without any additional costs. If this is not possible, we will have to charge a change and cancellation fee in the amount of 150,- €.

.... **after departure:** In this case we will have to charge to you the arising costs for taking back the delivery.

### Customer service



Our sales specialists and engineers will be pleased to assist you with any questions and information in regards to products, offer, orders on hand and shipping information. On request we will also assist you with laying and installation instructions on your site. Texts for invitation to tender and technical data can be seen on our homepage at [www.glapor.com](http://www.glapor.com).

Use the advantages of GLAPOR with the competence from several product lines.

### Warenrücknahme General terms of sale

Nicht verunreinigte sortenreine Schaumglasplatten oder -schotter kann/können im Werk

All offers and delivery contracts are subject to our General Terms of Sale which we assume to be known and which can be downloaded from our homepage.

### Disposal of packaging material

GLAPOR is connected to the disposal system INTERSEROH which ensures the taking back and environmentally sound utilization of the transport packaging.

### Pricing

All listed prices are not yet including transport costs as well as the valid VAT.