

# Technical Data

## GLAPOR Cellular Glass Board PG 1600



### characterization:

- EN 13167: Thermal insulation products for buildings
- ETA-20/0220: External horizontal and vertical thermal insulation of in-ground constr. in non-structural applications (also in case of groundwater)
- ETA-20/0220: Load bearing layer and thermal insulation underneath foundation slabs

### application areas:

External and internal insulation of roof, ceiling and walls, internal insulation for floors, under screed, behind cladding, against soil

application area according DIN 4108-10:2015

DAD, DAA dx, DI, DEO, WAB, WAA, WAP, WZ, WI, WTR, PW dx, PB dx

characteristics: general	performance	dimension	specification / value
product / material / composition	100	%	high-quality recycled glass
colour	grey		
characteristics: EN	performance	dimension	specification / value
Density $\pm 10\%$	155	kg/m <sup>3</sup>	EN 1602
Thermal conductivity $\lambda_D$	0,058	W/mK	EN 12667 / EN 12939
Compressive strength	1600	CS(Y)	EN 13167
Bending strength	600	BS	EN 13167
Tensile strength	150	TR	EN 13167
Point load	0,5	PL(P)	EN 13167
Reaction to Fire	A 1	Euroclass	EN 13501-1
characteristics: national (Germany)	performance	dimension	specification / value
Calculation value for thermal conductivity	0,060	W/mK	DE: Abg Z-23.34-2115
Thermal conductivity $\lambda_{10^\circ\text{C}}$	0,058	W/mK	EN 12667 / EN 12939
Thermal conductivity $\lambda_{-160^\circ\text{C}}$	0,036	W/mK	EN 12667 / EN 12939
Thermal conductivity $\lambda_{150^\circ\text{C}}$	0,082	W/mK	EN 12667 / EN 12939
Nominal value for compressive strength $f_{c,Nenn}$	1600	kPa	DE: Abg Z-23.34-2116
Calculation value for compressive strength $f_{cd}$	670	kPa	DE: Abg Z-23.34-2116
Average compressive strength	$\geq 1750$	kPa	EN 826
5 % fractile of compressive strength	$\geq 1600$	kPa	
further characteristics	performance	dimension	specification / value
Specific heat	900	J/kg·K	
Thermal expansion coefficient	$9,0 \cdot 10^{-6}$	K <sup>-1</sup>	
Water vapor diffusion resistance value $\mu$	$\infty$		characteristic value = 40 000
Elasticity mod. (D = 120 mm, 2 parts 2 mm bitumen capping)	$\sim 150$	N/mm <sup>2</sup>	
application temperature	- 270 to + 450	°C	
German disposal key	AVV 170202		German waste directory
delivery format / Package	performance	dimension	specification / value
thickness $\pm 2$		80, 100, 120 mm	EN 823
Length $\pm 2$		800 (600, 1200) mm	EN 822
Width $\pm 2$		600 (300, 800) mm	EN 822
Packaging		euro-pallet	

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