

Optimal performance down to the last detail - GEOMATERIALS Expanded Glass

APPROVALS/CERTIFICATES	
Building material approval - loose fill	DIBt Z-23.11-114
Laboratory test bvfs - minerally bound fill	A.No.: B5/504/16-1
CE certificate	EN 13055-1
THERMOCONDUCTIVITY	
Declared thermoconductivity λ (loose fill)	0.065 [W/m.K]
Declared thermoconductivity λ (bound)	0.070 - 0.09 [W/m.K] depending on formulation
WORKING/COMPRESSIVE STRENGTH	
Mixing time	At least 2 minutes (in acc. with DIN/Austrian standards)
Working time	approx. 30 minutes
Working temperature, min./max.	+5°/+35°C
Walkable after	approx. 24 h (depending on temperature and humidity)
Workability at layer thickness < 200 mm	CM 12% (approx. 4-5 days). Normative requirements for the residual moisture content for the further floor structure must be observed
Compressive strength after 24 h	0.7 N/mm ²
Traffic load	700 kN/m ²
GENERAL DATA	
Delivery	Sacks in different sizes, big bags, bulk delivery
Grain size	2/4 mm, other grain sizes on request
Loose bulk density	approx. 170–190 kg/m ³
Bound fresh mortar bulk density	290 kg/m ³
Minimum installation thickness	> 30 mm
Moisture content of expanded glass on delivery	≤ 0.5 M%
Water absorption for short-term immersion	< 2 kg/m ³
Building material class	A1 in accordance with DIN 4102, purely mineral
Diffusion properties	Breathable
Fire resistance and gassing with heat	Non-combustible class A1, no gas emission
Material radiation	No radiation or odors
Alkali resistance	Long-term resistance, no damage to concrete
Environmental impact	Considered to be uncontaminated excavated material, leaching test passed
Resistance to environmental influences	Resistant to aging, rodents, bacteria and rot

The technical guidelines for the use and installation of GEOMATERIALS Foam Glass and Expanded Glass are based on previous experience and the current state of the art. They are not project-specific.

We therefore assume no liability for the sufficiency and suitability for a particular project.

In all other respects, our liability and responsibility are governed solely by our general terms and conditions of business and are not extended by any statement in this folder or by the advice given by our technical sales representatives.