

Technical Data

GLAPOR Insulation gravel SG 600 E



characterization:

Factory made cellular glass loose fill according to EAD 040394-00-1201

application areas:

load bearing and thermal insulation layer underneath floor slabs
a thermal insulation/frost protection layer in areas with in-ground frost (also in road construction)
lightweight fill

characteristics: general		perform.	dimension	specification / value
product / material / composition		100	%	high-quality recycled glass
colour		grey		
characteristics: Europe		perform.	dimension	specification / value
compressive stress $f_{1,3 : 1 + \text{deformation} = 10 \%}$		≥ 480	kPa	EN 826
particle size *		16 - 63	mm	EN 933-1
loose bulk density ** dry		100 - 120	kg/m ³	EN 1097-3
thermal conductivity $\lambda_{D \text{ dry}}$		0,080	W/mK	EN 12667
thermal conductivity $\lambda_{D \text{ moist (correction factor 1,2)}}$		0,096	W/mK	ETA-20/0192
oedometer modulus $E_{OED \text{ (load level: 500 kPa)}}$		≈ 2630	kPa	ETA-20/0192
creep strain $\text{compression (load level: 250 kPa)}$		$\approx 5,2$	%	ETA-20/0192
brand behavior		A 1	Klasse	EN 13501
characteristics: national		perform.	dimension	specification / value
shear parameter	cohesion c	$\approx 26,9$	kN/m ²	german: DIN 18137-3
	friction angle ϕ	≈ 31	°	german: DIN 18137-3
	Nominal shear stress $\text{(load level: 250 kN/m}^2\text{)}$	$\approx 92,5$	kN/m ²	german: DIN 18137-3
coefficient of permeability		$\approx 3,8 \cdot 10^{-4}$	m/s	german: DIN 18130-1, Ann. B
further characteristics		perform.	dimension	specification / value
stiffness modulus Es		13000	kPa	german: abZ/aBg Z-23.34-1778
buoyancy $\text{(1,3 : 1 compressed)}$		$\approx 1,4$	kN	
resisting horizontal forces		30	%	according normal stress
capillary-breaking		yes		
health / fire protection / finishing		perform.	dimension	specification / value
compression factor load bearing		1,3 : 1	Vol.-%	ETA-20/0192
min. installation thickness $\text{load bearing (1,3 : 1 compressed)}$		≥ 150	mm	german: abZ/aBg Z-23.34-1778
max. installation thickness $\text{load bearing (1,3 : 1 compressed)}$		≤ 900	mm	german: abZ/aBg Z-23.34-1778
delivery format / Package				
loose form / loose form at bulk material cloth				
Big Bag:		1,5 m ³	3,0 m ³	

* The specification of the grain size refers to $\geq 75\%$ of all grains; according to the standard, oversize (max. 10% up to twice the grain size) and undersize can be included.

** The insulation gravel may contain moisture due to storage and installation.

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