Isover Intense

Hydrophilic mineral wool slabs

TECHNICAL SPECIFICATION

Hydrophilic mineral wool slabs are made of a mixture of igneous rocks (basalt, diabase, etc.), which melts at high temperatures, tears into fibres and the individual fibres are joined to one another by a binder. In contrast to building insulation, hydrophobizing oils are not added to this type of mineral wool. Therefore, the material holds water very well and creates a suitable environment for plant growth.

APPLICATION

Isover Intense are reinforced hydroaccumulation boards that are used as the bottom hydroaccumulation layer of intensive roof systems. They can also be used as a reinforcing layer above the Isover Flora boards in places where the roof is in more frequent use. Thanks to the increased capacity of hydroaccumulation, these boards can also be applied to sloping green roofs.

BENEFITS

- Increased strength allowing more frequent foot traffic.
- Excellent hydro-accumulative properties.
- Good heat-insulating effect even if wet.
- Health, environmentally friendly and recyclable.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Intense slabs are packed in PE film. The slabs have to be transported in covered vehicles under conditions that prevent them from getting too wet or damaged. They should be stored flat in a covered, dry space, up to the maximum layer height of 2 m.

DIMENSIONS AND PACKAGING

Thickness [mm]	Length × width [mm]	Volume per package			Quantity per palett	
		[pcs]	[m²]	[m³]	[m²]	[m³]
25	1200 × 1000	-	-	-	60.0	1.50
50	1000 × 600	5	3.0	0.15	30.0	1.50
100	1000 × 600	3	1.8	0.18	14.4	1.44

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value
Thermal technical properties			
Thermal conductivity coefficient in dry state λ_D	[W·m^{-1}·K^{-1}]	EN 12667	0.035
Thermal conductivity coefficient at max. humidity λ_{wmax} (78% vol.)	[W·m^{-1}·K^{-1}]	EN 12664	0.355
Specific heat capacity c_d	[J·kg^{-1}·K^{-1}]	ČSN 73 0540-3	800
Mechanical properties			
Compressive stress	[kPa]	EN 826	50
Fire safety properties			
Reaction to fire class	[-]	EN 13501-1+A1	A1
Maximum temperature for use	[°C]		200
Melting temperature t_t	[°C]	DIN 4102 part 17	≥ 1000

Isover
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Isover Intense

Slabs of hydrophilic mineral wool

TECHNICAL PARAMETERS

Parameter	Unit	Methodology		Value		
Hydrothermal properties				thickness 25 mm	thickness 50 mm	thickness 100 mm
Water permeability mod. K_r	[mm·min^{-1}]	FLL		111	140	149
Maximum water capacity WK_{max}	[vol.%]	FLL		92.2	90.7	89.6
Hydroacumulatory ability	[l·m^{-2}]			23.0	45.3	89.6
Water flow capacity on their plane at inclination at roof pitch $q_{s,g}$	[l·m^{-1}·s^{-1}]	EN ISO 12958	inclination 0°	0.57	1.12	2.30
			inclination 2°	0.60	1.19	2.41
			inclination 35°	0.71	1.38	2.86
Chemical properties						
pH	-	according to Act No. 156/1998 Coll.			6,5–8,5	
Decision on the registration of the substrate	-	according to Act No. 156/1998 Coll.			5510[1)]	
Other properties						
Volume weight dry	[kg·m^{-3}]	EN 1602			120	
Volume weight at maximum water capacity	[kg·m^{-3}]	EN 1602			1027	

[1)] Protocol upon request.

RELATED DOCUMENTS

- Declaration of Performance
- ISO 9001, ISO 14001, ISO 45001, ISO 50001
- Environmental product declaration
- FINAL PROTOCOL – substrate registration according to Act No. 156/1998 Coll. on fertilizers, as amended. Registration decision number: 5510
- ETA-23/0606 according to EAD 042461-00-1201

More about the product

www.isover.cz/en/products/isover-intense

4/11/2024 Information valid as of date of publication. The manufacturer reserves the right to change the data.

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