

Stonewool Insulation Plate

Technical Data Sheet 12/2023



Stonewool Insulation Plate

Insulator

Product Description

Stonewool board for overcoating which is produced with high technology. Stonewool overcoating board, which contains complex fiber structure formed by interlocked fibers inside, creates resistance to withstand high pressure in lower densities. The structure of Hair- Braiding fiber makes the application of overcoating on the stonewool more resistant and strong. Thus, the load capacity on the construction and surface increases.

Storage

Packages should be covered and kept indoors. In order to not experience performance losses, they should be protected against outdoor environment, moisture and water. Store in a dry and clean environment.

Standards referred to

TS EN 13162

Fields of Application

Used at outside of the buildings under the stucco for heat, sound insulation and fire protection.

Properties

- High quality thermal insulation
- A1 class non-combustible material
- High sound insulation
- Moisture-resistant
- Prevention from rotting, deterioration, moulding, corrosion and rusting

Technical Data

Description	Unit	120 / 30	120 / 40	120 / 50	120 / 60	120 / 70	120 / 80	120 / 100	Standard
Density	kg/m ³	120							TS EN 1602
Thickness	mm	30	40	50	60	70	80	100	TS EN 823
Thermal Conduction Coefficient	W/mK	0,035							TS EN 12667
Reaction to fire	class	A1							TS EN 13501-1
Length dimensional tolerance	%	±2							TS EN 13162
Width dimensional tolerance	%	±1,5							TS EN 13162
Maximum squareness	mm	2							TS EN 824
Surface smoothness	mm	1,8							TS EN 825
Dimensional stability	mm	< 1							TS EN 1604
Compressive Strength (%10 Deformation)	kPa	≥ 25	≥ 30	≥ 35		≥ 38	≥ 40	≥ 50	TS EN 826
Tensile stress vertical to faces	kPa	≥ 7,5			≥ 15				TS EN 1607
Thermal Resistance (RValue)	m ² K/W	0.86	1.14	1.43	1.71	2	2.29	2.86	TS EN 13162
Maximum operable temperature	°C	760							-
Melting point	°C	> 1000							DIN 4102
Water vapor diffusion resistance factor	μ	1							TS EN 12086
Short term water absorption	kg/m ²	< 1							TS EN 1609
Long term water absorption	kg/m ²	< 3							TS EN 12087

Technical Data

Description	Unit	150 / 30	150 / 40	150 / 50	150 / 60	150 / 70	150 / 80	150 / 100	Standard
Density	kg/m ³	150							TS EN 1602
Thickness	mm	30	40	50	60	70	80	100	TS EN 823
Thermal Conduction Coefficient	W/mK	0,035							TS EN 12667
Reaction to fire	class	A1							TS EN 13501-1
Length dimensional tolerance	mm	±2							TS EN 13162
Width dimensional tolerance	mm	±1,5							TS EN 13162
Maximum squareness	mm	2							TS EN 824
Surface smoothness	mm	1,8							TS EN 825
Dimensional stability	mm	< 1							TS EN 1604
Compressive Strength (%10 Deformation)	kPa	≥ 25	≥ 30	≥ 40	≥ 50	≥ 60	≥ 65	≥ 80	TS EN 826
Tensile stress vertical to faces	kPa	≥ 7,5			≥ 15				TS EN 1607
Thermal Resistance (RValue)	m ² K/W	0.86	1.14	1.43	1.71	2	2.29	2.86	TS EN 13162
Maximum operable temperature	°C	760							-
Melting point	°C	> 1000							DIN 4102
Water vapor diffusion resistance factor	μ	1							TS EN 12086
Short term water absorption	kg/m ²	< 1							TS EN 1609
Long term water absorption	kg/m ²	< 3							TS EN 12087

Product Range

Description	Thickness (mm)	Width (mm)	Length (mm)	Packaging (pcs./pack)	Package area (m ²)	Paket Ağırlık (kg)	Material Number
Stonewool 120 DNS	30	600	1200	8	5,76	20,736	670691
	40			6	4,32	20,736	655273
	50			4	2,88	17,28	655299
	60			3	2,16	15,552	670692
	70			3	2,16	18,144	670695
	80			3	2,16	20,736	670696
	100			3	2,16	25,92	670698
Stonewool 150 DNS	30	600	1200	8	5,76	25,92	666646
	40			6	4,32	25,92	655238
	50			4	2,88	21,6	655302
	60			3	2,16	19,44	666645
	70			3	2,16	22,68	670699
	80			3	2,16	25,92	658377
	100			3	2,16	32,4	661552

System Performance Values

For detailed information please refer to;
[Knauf Techninal Website](#)
[Document Center](#)

Application

Application should be done acc. to the applicable standards and acc. to the Knauf Technical Brochures of the respective drywall system.

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