

HEALTHY INSULATION CAN NATURALLY DO MORE.

ISOLENA

Technical data sheet

OPTIMAL 18kg/m³



Sheep's wool insulation ISOLENA Optimal with biocide-free wool protection Ionic Protect® made from 100% pure sheep's wool without synthetic additives or supporting fibres. The insulating material is renewable, durable, reusable, fully recyclable and certified with the NaturePlus eco-label.

Form of delivery

Article variants according to price list, special dimensions and formats on request.



CE CE-002/OPI/2020-01-15

Thickness mm	Width mm	Length mm
30	600	12 000
40	600	12 000
50	600	9 000
50	625	9 000
50	650	9 000
60	600	9 000
60	650	9 000
80	600	6 000
80	625	6 000
80	650	6 000
100	600	6 000
120	600	6 000
140	600	3 000

Applications

Thermal insulation: Ceiling - not accessible, Top floor ceiling, tie-beam roof, External wall, Facade insulation, Roof insulation, Between rafter insulation, Rafter insulation

Sound insulation: Ceiling insulation, suspended ceiling, Sound proof ceiling, Acoustic ceiling, Floor, Sub floor insulation, Floor insulation

Thermal and sound insulation: Internal wall, Partition wall insulation, Installation level, Partition wall lining, Room air renovation

Technical data: Product

Property	Value	Unit of measurement	Standard
Mould growth intensity	0		EAD 040005-00-1201 Annex B
Eco-label NaturePlus	0103-1006-099-1		
Thermal conductivity	0,038	tr W/mK	
Length-related flow resistance kPa s/m ²	4,1	kPa s/m ²	EN 29053-1
Weighted Sound Absorption Coefficient	0,75	w	EN ISO 11654
Resistance to insect pests	Klasse 0		EAD 040005-00-1201, Annex C
Vapour diffusion resistance factor μ	1	μ	EN ISO 12572
Water absorption during short-term, partial immersion WS	0,98-2,45	kg/m ²	EN 1609
Specific heat capacity c	1760	J/kg K	
European technical approval	ETA-07/0214		



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Technical data: Product

Property	Value	Unit of measurement	Standard
Water absorption during long-term, partial immersion WL(P)	0,98-2,45	kg/m ²	EN ISO 16535
Borates toxic to reproduction: None			DIN EN 16516
Fire behavior	D-s2, d0		DIN EN 13501-1
Fire behaviour group according to VKF fire protection guidelines (Switzerland)	RF3		SN EN 13501-1

Technical data: System

Proof of property: 007			
Property	Value	Unit of measurement	Standard
Fire behavior	B-s1, d0		EN 13501-1
Aufbaubeschreibung			
- Gelochte Gipskartonplatte, Dicke 1 mm, Lochung 18/18-5			
- 40mm Schafwolldämmung Optimal 18 kg/m ²			
- 60mm Hinterlüftung			

Proof of property: 038			
Property	Value	Unit of measurement	Standard
Fire resistance class	EI90		EN 13501-2
Aufbaubeschreibung			
- Nichttragende, gedämmte Doppelständerwand mit Metallständerwerk Knauf W115			
- Beplankung auf beiden Seiten mit zwei Lagen 12,5 mm Knauf Platten GKF und zwei Lagen 50 mm Schafwolldämmung Optimal 18 kg/m ³			

Proof of property: 039			
Property	Value	Unit of measurement	Standard
Weighted sound reduction index	47 dB	Rw	ÖNORM EN ISO 717-1
Aufbaubeschreibung			
Einfach beplankte Knauf Einfachständerwand W111 mit 80 mm Schafwolldämmung Optimal 18 kg/m ³			

Proof of property: 042			
Property	Value	Unit of measurement	Standard
Weighted sound reduction index	54 dB	Rw	ÖNORM EN ISO 717-1
Aufbaubeschreibung			
Doppelt beplankte Knauf Einfachständerwand W112 mit 80 mm Schafwolldämmung Optimal 18 kg/m ³			

Proof of property: 043			
Property	Value	Unit of measurement	Standard
Weighted sound reduction index	67 dB	Rw	ÖNORM EN ISO 10140-2
Aufbaubeschreibung			
Doppelt beplankte Knauf Doppelständerwand W115 mit 2 x 80 mm Schafwolldämmung Optimal 18 kg/m ³			

Ecological indicators

All ecological indicators according to EN-15804 such as GWP total, GWP biogenic, PENRT etc. can be found in the [Environmental Product Declaration](#) (EPD).

Useful additional documents such as tender texts, links to building material databases etc. can be found in compact form in the [download area](#) of our website

Test certificates upon request.

