



OPTIMAL

Data sheet



Item number
Density
Raw material
Application

OPI01800BR24
18 kg/m³
100% wool sustainable, durable, recyclable, without synthetic additives
Roof extension, Ceiling - overhead insulation, Interior wall, Interior room air renovation: partition walls, installation level, wooden construction

PRODUCT DESCRIPTION



- The multi-flexible thermal and sound insulation is the best solution for standard constructions with up to 140mm insulation thickness. The thickness is elastic and also encloses cable ducts without further processing.
- The insulation roll with the beam felt for quick mechanical fixing into the horizontal and inclined supporting structures (rafters, frames, transoms, etc.)
- Small excesses in width flexibly adapt to the construction.

WOOL PROTECTION

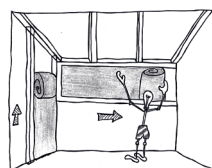
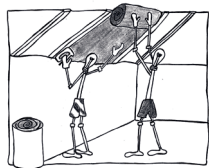


- Biocide-free wool protection, long-term tested by EAD/CUAP standards and patented procedure.
- **IONIC PROTECT®** is a slight alteration of the molecular protein structure of the wool fibre through a plasma-ion treatment. This specific process is unique as it permanently prevents the wool from being a nutritional source for wool parasites/linge.
- Through the wool protection, our products have an **unlimited shelf-life**.

INSTALLATION



- **Quick installation**, no waste and dust collect. Ideally suited for working overhead.
- Insert the insulation rolls from bottom to top and fix the surface felt to the rafters by stapling it laterally.
- The rolls can be cut to length by **tearing by hand** or with the ISOLENA cutting device.



PROPERTIES



Sheep wool insulation



Air purification



Humidity regulation



Sound insulation
fire protection



Sustainable



Wool protection

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ISOLENA NEWSLETTER

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FORM OF DELIVERY DIMENSIONS*

Width: 250 - 2400mm in 50mm increments
Thickness: 30 - 140mm in 10mm increments

Article	kg/m ³	Thickness (mm)	Width (mm)	Lengths (mm)	Item /PU	PU m ²
OPI 18	18	30	600	12.000	2	14,40
OPI 18	18	40	600	12.000	2	14,40
OPI 18	18	40	650	12.000	2	11,70
OPI 18	18	50	600	9.000	2	10,80
OPI 18	18	50	650	9.000	2	11,70
OPI 18	18	60	600	9.000	2	10,80
OPI 18	18	60	650	9.000	2	11,70
OPI 18	18	80	600	6.000	2	7,20
OPI 18	18	80	650	6.000	2	7,80
OPI 18	18	80	800	6.000	1	4,80
OPI 18	18	100	600	6.000	2	7,20
OPI 18	18	100	650	6.000	2	7,80
OPI 18	18	120	600	6.000	2	7,20
OPI 18	18	120	650	6.000	2	7,80
OPI 18	18	120	800	6.000	2	4,80
OPI 18	18	140	600	3.000	2	3,60
OPI 18	18	140	650	3.000	2	3,90

Special sizes* available from a minimum quantity of 4.56 m³ at no extra charge.

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D TECHNICAL DATA

European technical approval	ETA-07/0214						
Nature Plus®	0103-1006-099-1						
Thermal conductivity λ _r	0,038 W/mK						
Vapour diffusion resistance factor μ	1						
Specific heat capacity c	1760 J/kgK						
Length-related flow resistance according to EN 29053	r=4,1 kPa s/m ²						
Fire behaviour according to EN 13501-1	D-s2, d0; CH: RF3						
Fire behaviour according to acoustic ceiling element according to EN 13501-1*	B-s1, d0						
Degree of sound absorption with a thickness of 50 mm according to ISO 354	f [Hz]	125	250	500	1.000	2.000	4.000
	α _s	0,43	0,47	0,68	0,76	0,86	0,95
Assessed degree of sound absorption D.50 mm according to ÖNORM EN ISO 11654	α _w = 0,75						
Mould growth intensity according to EN ISO 846	0						

* Plasterboard 12mm thickness, punching 18/18 - 5mm diameter, Isolena Optimal thickness 40mm, 60mm rear ventilation

ECOLOGICAL PARAMETERS

Compliant with the NaturePlus® Life cycle assessment ISOLENA

Use of non-renewable primary energy without the non-renewable primary energy carriers used as raw material (PENRE [MJ, lower calorific value])	23,44	MJ/kg
Global warming potential Total of GHG emissions and CO2 storage (GWP 100 Summe)	0,83	kg CO ₂ -äquiv. / kg
Acidification potential of soil and water (AP)	4,63E-03	kg SO ₂ -äquiv. / kg
Potential for the formation of tropospheric ozone (POCP)	8,04E-04	kg C ₂ H ₄ -äquiv. / kg
Eutrophication potential (EP)	2,08E-03	kg PO ₄ ³⁻ -äquiv. / kg

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Partner

