

OPTIMAL

Product 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 multiflexible thermal and sound insulation is the best solution for standard constructions with up to 140 mm 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.



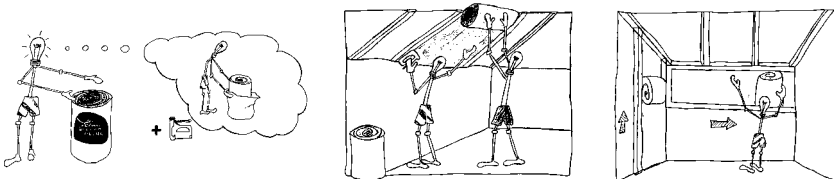
WOOL PROTECTION

- 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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FORM OF DELIVERY

DIMENSIONS*

Width: 250 – 2.300 mm in 50 mm increments (250, 300, 350, 400 mm,...)

Thickness: 30 – 140 mm in 10 mm increments (30, 40, 50, 60 mm,...)

Article	kg/m ³	Thickness (mm)	Width (mm)	Lengths (mm)	Item/PU	m ² /PU	PU/Pal	m ² /Pal
OPI18	18	30	600	12.000	2	14,40	22	316,80
OPI18	18	40	600	12.000	2	14,40	17	244,80
OPI18	18	40	650	12.000	2	11,70	17	265,20
OPI18	18	50	600	9.000	2	10,80	18	194,40
OPI18	18	50	650	9.000	2	11,70	18	210,60
OPI18	18	60	600	9.000	2	10,80	15	162,00
OPI18	18	60	650	9.000	2	11,70	15	175,50
OPI18	18	80	600	6.000	2	7,20	18	129,60
OPI18	18	80	650	6.000	2	7,80	18	140,40
OPI18	18	80	800	6.000	1	4,80	18	86,40
OPI18	18	100	600	6.000	2	7,20	14	100,80
OPI18	18	100	650	6.000	2	7,80	14	109,20
OPI18	18	120	600	6.000	2	7,20	12	86,40
OPI18	18	120	650	6.000	2	7,80	12	93,60
OPI18	18	120	800	6.000	2	4,80	12	57,60
OPI18	18	140	600	3.000	2	3,60	19	68,40
OPI18	18	140	650	3.000	2	3,90	19	74,10

*Special sizes available from a minimum quantity of 4,56 m³ at no extra charge.



TECHNICAL DATA

European technical approval	ETA-07/0214						
Nature Plus®	0103-1006-099-1						
Thermal conductivity λ _{tr}	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						

*Perforated Plasterboard thickness 12 mm, perforation Ø 18/18 – 5 mm, **IOLENA Optimal** thickness 40 mm, 60 mm back ventilation.



ECOLOGICAL PARAMETERS

Compliant with the NaturePlus® Life cycle assessment **IOLENA**

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 CO ₂ storage (GWP 100 total)	0,83	kg CO ₂ -equiv./kg
Acidification potential of soil and water (AP)	4,63E-03	kg SO ₂ -equiv./kg
Potential for the formation of tropospheric ozone (POCP)	8,04E-04	kg C ₂ H ₄ -equiv./kg
Eutrophication potential (EP)	2,08E-03	kg PO ₄ ³⁻ -equiv./kg

