

ISOTEC[®]

LINEA



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THE INSULATION SYSTEM FOR NON VENTILATED METAL ROOFS AND WALLS.



ISOTEC
— LINEA

The insulation system for non ventilated metal roofs and walls.

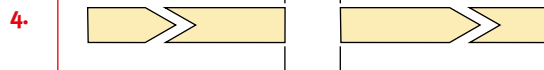
ISOTEC LINEA are polyurethane (PIR or PUR) insulation panels for **wall and roof applications** with metal finishing layer. The panels realize an insulated support structure on which **zinc, copper and other non-ventilated metal finishings** can be immediately applied.

Linea panels comes from 30 years experience of Brianza Plastica production of Isotec polyurethane roofing and wall-solutions.

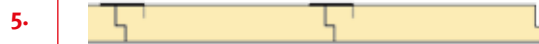


* other widths available on demand

1. Galvanized steel stiffener.
2. Rigid, flame-retardant, expanded polyurethane (PIR or PUR).
3. Coated on both surfaces by a sheet of embossed aluminium.

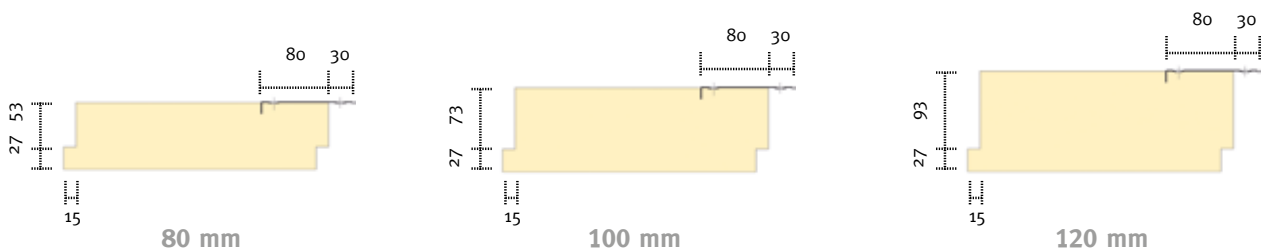


Dovetail (crosswise side): insulation continuity.



Batten (longitudinal side): elimination of any risk of thermal bridges.

Thicknesses

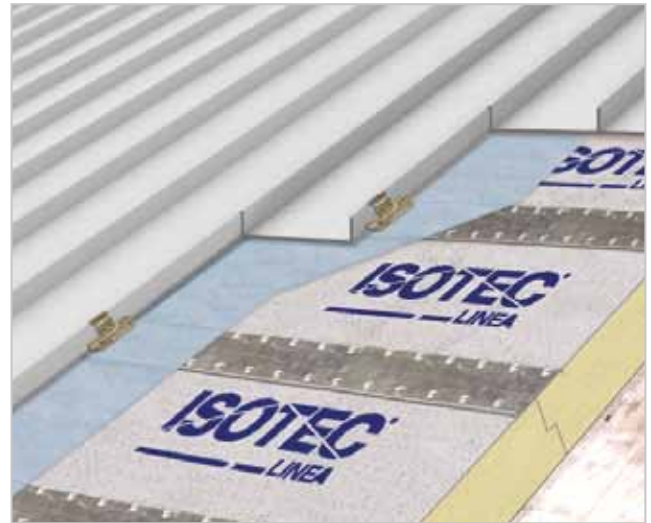




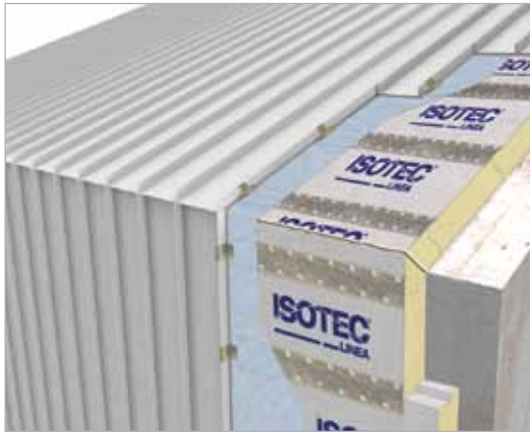
Examples of installations on non-ventilated coverings.

Roof

- Fix the panel to the below substrate by screws, employing the holes on the metal stiffener.
- Lay the waterproof tissue on the panels.
- Apply the metal sheet and fix it with the clips on the stiffener.

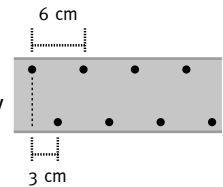


Isotec Linea on a continuous concrete slab structure with metal roof.



Isotec Linea advantages:

- **integrated metal stiffener**, whose holes every 6 cm allow for a quick and easy fixing of the panel without drilling
- the integrated profile provides a **perfect substructure** for the clips and metal finishing
- **easy handling, quick installation** thanks to its size and lightweight
- the complete coating with embossed aluminum foil and the metal stiffener instead of wood makes it a **long-lasting product**
- once installed, the panels realize a **self-loaded and insulated surface**



Wall

- Place the panel on the wall with metal stiffener - horizontal in case of vertical metal sheets or vertical in case of horizontal metal sheets - by fixing it to the wall by screws, employing the holes on the metal stiffener.
- Lay the waterproof tissue on the panels.
- Apply the metal sheet and fix it with the clips on the stiffener.

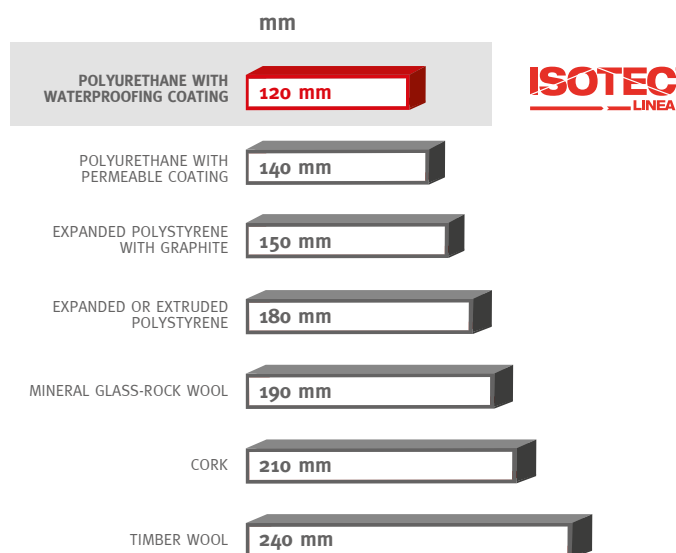


Isotec Linea on a continuous concrete slab structure with metal wall.

CHARACTERISTIC	U.M.	VALUE	TEST METHOD
Density	kg/m ³	38,0	UNI EN ISO 845
Initial Thermal Conductivity $\lambda_{mean,i}$	W/mK	0,021	UNI EN 12667
Declared Thermal Conductivity λ_0 (after pondered ageing of 25 years)	W/mK	0,024	UNI EN 13165 Appendix A and C
Thermal Conductance U	W/m ² K	0,30 - 80 mm 0,24 - 100 mm 0,20 - 120 mm	$U = \lambda_0 / d$ (d = thickness panel in m)
Declared Thermal Resistance R_0 (after pondered ageing of 25 years)	m ² K/W	3,33 - 80 mm 4,17 - 100 mm 5,00 - 120 mm	UNI EN 13165 Appendix A and C
Constant temperature	°C	- 50 ÷ + 100	UNI 9051
Dimensional stability DS(TH)	class	8	UNI EN 1604
Stress Resistance to 10% Deformation CS(10)	KPa kg/cm ²	≥ 120 ≥ 1,22	UNI EN 826 UNI EN 826
Water vapor Resistance [μ]	//	> 50000	UNI EN 12086
Long term Water Absorption WL(T)	%	< 0,6	UNI EN 12087
Specific heat	J/kgK	1100	Calorimetric
Emission of dangerous substances	//	conform	UNI EN 13165 Appendix ZA
Fire reaction	euroclass	F (PUR)	EN 13501-1
	euroclass	D (PIR)	EN 13501-1, EN 13823, EN 11925-2

The panels have a technical approval and CE marking and their production is certificated according to ISO 9001:2008.

Comparative histogram of the thicknesses of various insulating materials required to achieve a value $U=0,20$ W/m²K *



*Source ANPE 2011

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Quality Management System
UNI EN ISO 9001:2008
CERT. N° 106



ISO 9001:2008
CERTIFIED QUALITY
MANAGEMENT SYSTEM