



Thermal insulation system for ventilated façades

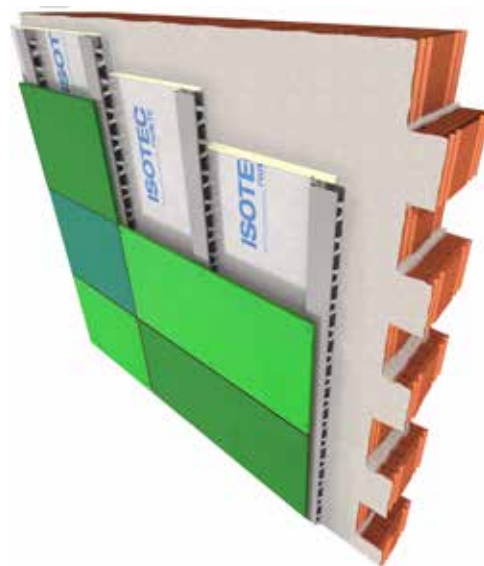
Isotec Parete is a thermal insulation system that enables the dry installation of an insulating and structural jacket to create ventilated façades. Isotec Parete offers a new system for ventilated façades that employs a single technical solution to realize a continuous and homogeneous outer insulation and a structure for the external cladding. Furthermore, the load-bearing perforated stiffener creates a ventilated air chamber between the insulating panel and the outer wall covering.

- The ends of the panels are cut in a dovetail fashion to ensure the continuity of the insulation.
- Both surfaces of the Isotec Parete are covered by embossed aluminium sheet that makes it waterproof.
- Load bearing 4cm-high steel perforated stiffener.
- The Isotec Parete panel is shaped with opposing battens reducing the risk of thermal bridges.
- Thickness: 60, 80, 100, 120 and 160 mm
- Width from 250 to 730 mm
- The Isotec Parete panel is made of self-extinguishing rigid polyurethane foam (PIR or PUR)

Available in the **ISOTEC PARETE BLACK** version too, fire reaction class B-s2, d0

- ADVANTAGES:**
- > BETTER INSULATING (POLYURETHANE)
 - > VENTILATION
 - > PROTECTION AGAINST MOISTURE, HUMIDITY AND ACCIDENTAL INFILTRATION
 - > FAST AND COST-EFFECTIVE INSTALLATION IN ANY WEATHER CONDITIONS
 - > ENERGY SAVING





TECHNICAL DATA SHEET

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_D (after pondered ageing of 25 years)	W/mK	0,022	UNI EN 13165 Appendix A and C
Thermal Conductance U	W/m ² K	0,37 - 60 mm 0,28 - 80 mm 0,22 - 100 mm 0,18 - 120 mm 0,14 - 160 mm	$u = \lambda_D / d$ (d = thickness panel in m)
Declared Thermal Resistance R_D (after pondered ageing of 25 years)	m ² K/W	2,70 - 60 mm 3,60 - 80 mm 4,50 - 100 mm 5,45 - 120 mm 7,25 - 160 mm	UNI EN 13165
Constant temperature	°C	- 50 ÷ +100	UNI 9051
Dimensional stability DS(70)	level	3	UNI EN 1604
Stress Resistance to 10% deformation CS(10Y)	kPa	≥ 120	UNI EN 826
	kg/cm ²	≥ 1,22	UNI EN 826
Water vapor Resistance MU	μ	> 50.000	UNI EN 12086
Long term Water Absorption WL(T)	%	< 0,6	UNI EN 12087
Specific heat	J/KgK	1400	UNI EN ISO 10456
Fire reaction	euroclass	F (PUR)	EN 13501-1
	euroclass	D (PIR)	EN 113501-1, EN 13823, EN 11925-2

Isotec Parete bears the CE mark in compliance with the European Regulation 305/2011/CE, norms UNI EN 13165:2013 and UNI EN 13172:2008. System 3 (Organism certified by CSI S.p.A. n° 0497).

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