



Thermo Reflex Pro 18



Description: Thermal Insulating mat in 18 layers: 2 films of INSULAID polyester, metal reinforced, 3 sheep wool paddings, 6 polyethylene foam sheets, 7 sheets of metal reinforced polyester 12 µm thick.

GENERAL INDICATIONS

roll lenght	-	m.l.	9,81	+/-10%
roll eight	-	m	1,53	+/-10%
useful surface	-	m²	15	+/-20%
thickness	-	mm	25	+/-10%

CHEMICAL PHYSICAL FEATURES

weight	-	kg/m²	0,708	+/-10%
roll weight	-	kg	10,62	+/-20%
outer reinforced film weight	-	g/m²	97	+/- 20%
outer reinforced film thickness	-	µm	88	
breaking load of outer reinf. Film MD/CMD	ASTM D882	N/50mm	>30/>70	
elongation at break of outer reinf. Film MD/CMD	ASTM D882	%	30/30	
water vapour permeability	ASTM F1248	g/m²/24H	1,5	
Inner polyester film thickness	-	µm	12	
Emissivity	ASTM E1585	%	5	+/-2%
Reflectivity	ASTM E1585	%	95	+/-0,06%
Sheep wool padding	recyclable	g/m²	100	+/-20%

THERMAL PROPERTIES

PTO (Thermal Performance in Situ)	ISO 9869	m²K/W	5,50	+0/-0,5
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Measured in jobsites **IN REAL CONDITIONS OF USE** according to ISO 9869 standard with material applied according to our installation instructions with an air gap of 2 cm on every side in still air regime. Declared value has to be intent as an average value of summer and winter thermal resistance measuring sessions .

R (laboratory thermal resistance)	UNI EN ISO 12667	m²K/W	1,58
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Measured in laboratory **IN STEADY STATE CONDITIONS** (no wind, no solar gains, no temperature neither humidity changes). The standard is adapt for traditional thick thermoinsulating materials, so the thermal performances of the multifoil reflective mats are measured with these tests are **PEJORATIVE TOWARDS REAL CONDITIONS OF USE**. Is in phase of discussion in UE a specific standard for the determination of real performances of multifoil reflective mats.

ACOUSTICAL PROPERTIES

Rw (weighted sound reduction index)	dB(A)	50,00
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Certificate CSTB n°AC06-171, mat laid over a brick wall 50 mm thick and a 10 kg/m² counterwall. Acoustical performance before inmmstallation of ThermoReflex Pro18 Rw=43 db(A)

OVERLAPPING ADHESIVE

Recommended adhesive	100 P
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PACKAGING

type				
roll per pallet	-	n°	10	
m²/roll	-	m²	15	+/-20%
m²/pallet	-	m²	150	+/-20%

The information given in this data sheet is to the best of our knowledge true and correct, however new research results and practical experience can make revisions necessary. No guarantee or liability can be drawn from the information mentioned herein. Furthermore, is not our intention to violate any patents or licences.



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Quality system ISO 9001 and Environmental ISO14001 certified Company

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