ISOTEC

Isotec is an insulation and structural panel perfect for roofs.
Its insulating core in rigid, polyurethane foam is surrounded by water and flameproof embossed aluminum. What makes it structural is its ALUZINK steel section. The holes built into the section channel any leaks by the top roofing layer right into the eaves and ensure a perfectly ventilated roof.

Isotec has the following dimensions:
Lenght: 390 cm
Width: from 19 to 69 cm
Thickness: 60 and 80 mm standard, 100 and 120 mm on request.

Dimensions tolerance:
Lenght: +/- 10 mm (UNI 9051:87)
Width: +/- 5 mm (UNI 9051:87)
Thickness: +5 / -2 mm , but for 60 mm it is +/- 3 mm(UNI 9051:87)

The ISOTEC System will:

- Insulate the entire construction;
- protect from leaks by the top roofing layer;
- provide a rational solution for the vapor barrier;
- ensure excellent ventilation for the final roofing layer;
- provide a safe foothold for fast, easy roofing work.

TECHNICAL FEATURES

Insulation and structural panel in rigid, closed-cell produced polyurethane foam produced continuosly under a constant Quality Control (UNI EN ISO 9001:2000 - Certificate n° 106 SQP/IIP).

CHARACTERISTICS	UNIT	VALUES	REFERENCES
Density	Kg/m^3	38,00	UNI EN ISO 845
Initial Thermal Conductivity λ [lambda] (at 10°)	W/mk	0,021	UNI EN 12667
Stabilized Thermal Conductivity λ [lambda] (at 10°)	W/mk	0,024	UNI EN 13165 A C
Unit transmittance U (ISOTEC 60 mm)	W/m^2k	0,400	UNI EN ISO 6946
Unit transmittance U (ISOTEC 80 mm)	W/m^2k	0,300	UNI EN ISO 6946
Unit transmittance U (ISOTEC 100 mm)	W/m^2k	0,240	UNI EN ISO 6946
Unit transmittance U (ISOTEC 120 mm)	W/m^2k	0,200	UNI EN ISO 6946
Thermal Resistance R (ISOTEC 60 mm)	m^2k/W	2,500	UNI EN 13165 A C
Thermal Resistance R (ISOTEC 80 mm)	m^2k/W	3,330	UNI EN 13165 A C
Thermal Resistance R (ISOTEC 100 mm)	m^2k/W	4,170	UNI EN 13165 A C
Thermal Resistance R (ISOTEC 120 mm)	m^2k/W	5,000	UNI EN 13165 A C
Thermal Constancy	°C	-50÷+100	UNI 9051
Compression Resistance	Kg/cm^2	1,22	UNI EN 826
Bend Resistance	Kg/cm	2,50	UNI 7031
Resistance to water vapor spread	=	∞	=
Water Absorption	%	0,6	UNI EN 12087

CE certificate No. CPD / 0497 / 001 / 04