Traditional panels

VARMO ROLL

VARMO ROLL Technical Data Sheet

Insulation panel in rolls

GENERAL FITTINGS
YOUNIQUE · ITALIAN

Contents

Roll insulation panels

VARMO ROLL

DESCRIPTION

VARMO ROLL panels are made of closed-cell expanded polystyrene, with self-gluing perimeter edges and coated with reflective aluminised sheathing and silk-screen printing with squares useful for the installation pitch (50 mm) of pipes of any diameter.
Equipped with a film that acts as a vapour barrier, VARMO ROLL is the ideal solution for underfloor heating and cooling systems. VARMO ROLL has CE marking and complies with UNI EN 13163 and UNI EN 1264-4.
Recommendations: the panel must always be protected from direct sunlight and stored in a dry, ventilated place, away from heat sources and open flames.

ADVANTAGES

- Can be laid on pre-existing pavements
- Quick and easy to install
- No limitation in the choice of coatings
- Versatile: no embossing means no constraints
- Optimum heat distribution with the pipe completely embedded evenly in the screed
- Heat-reflecting film helping the laying of pipes
- Immediate walkability of the floor after installation

FIELDS OF APPLICATION

APPLICATIONS	
	Underfloor heating
	Wet solution
	Cement screed (40-45mm above pipe)
	Self-levelling screed (thickness 20-25mm)

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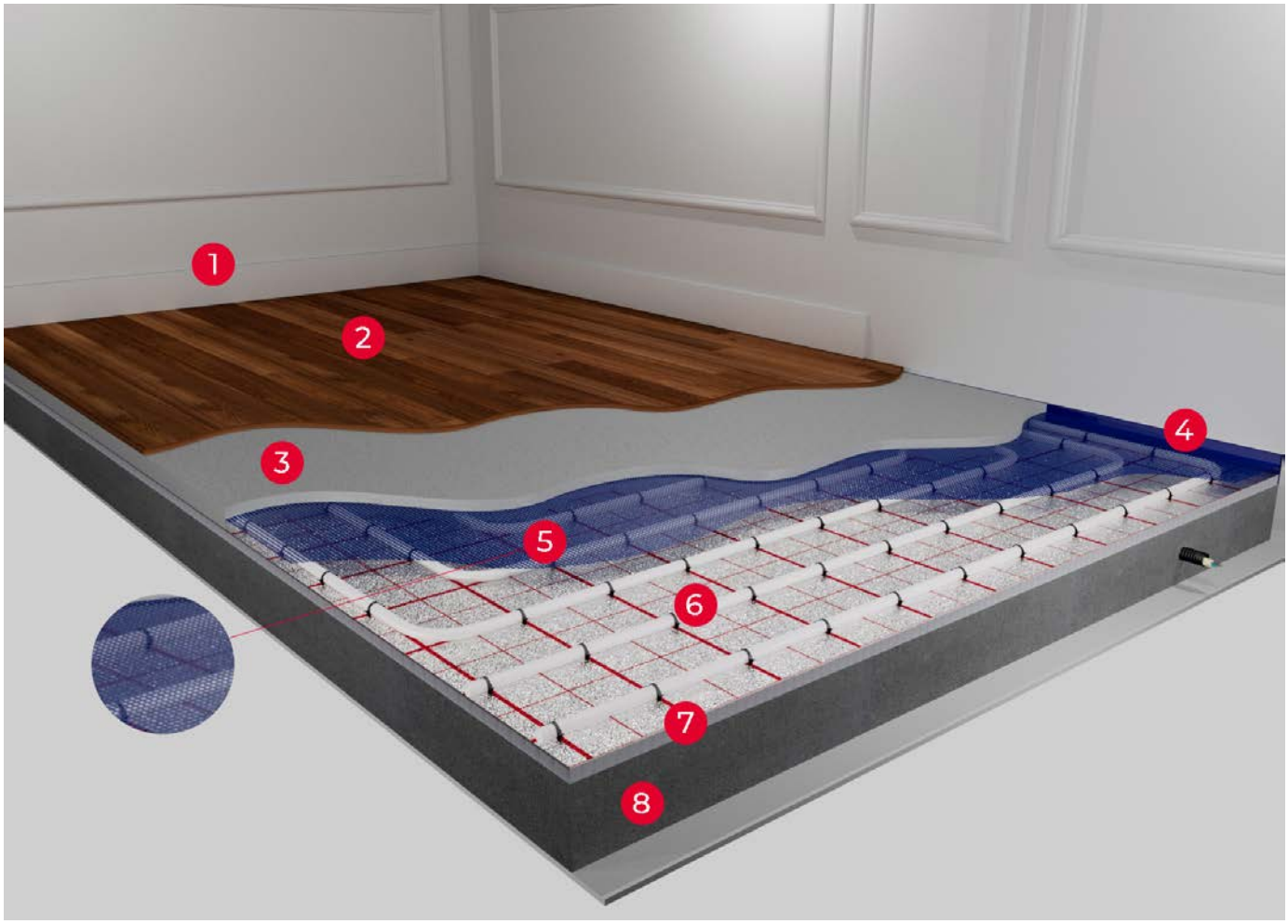
DIMENSIONAL FEATURES

	PI00VRW200000H	PI00VRW300000H	PI00VRW400000H
Panel thickness (mm)	20	30	40
Roll length (m)	10		
Roll surface (m2)	10		
Roll width (m)	1		
Laying grid (mm)	50x50		
Pipe diameter (mm)	all		
Type of packaging	Roll strapping and pallet filming		

STRATIGRAPHY



LEGEND	DESCRIPTION
1	Skirting
2	Covering
3	Screed
4	Edge Strip
5	Fibreglass mesh
6	Pipe
7	Varmo Roll insulating panel
8	Floor slab

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PHYSICAL FEATURES

	Reference standard	EPS / Class	VARMO ROLL (all codes)
Declared thermal conductivity λD [W/mK]	UNI EN 12667	150	0.033
Compressive strenght at 10% strain σ10 [kPa]	UNI EN 826	150 / CS(10)150	150
Long-term water absorption WLT [%]	UNI EN 12087	150 / WL(T)0,5	0.5
Tolerance dim. thickness dN [mm]	UNI EN 823	T(2)	±2
Dim. stabiligy at 23°C / 50% U.R. Δεl	UNI EN 1603	DS(N)2	0.2
Resistance to vapour diffusion EPS μ	UNI EN 12086	150 / Z 30-70	30-70
Reaction to fire	EN ISO 11925-2 + EC1	EUROCLASS - E - UNI EN 13501	
Fire resistance against heat, atmospheric agents, degradation, ageing	UNI EN 13163	The fire behaviour of EPS does not change over time	

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THERMAL RESISTANCE

	Thermal resistance R□,ins [m2K/W]
PI00VRW200000H	0.61
PI00VRW300000H	0.91
PI00VRW400000H	1.21

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