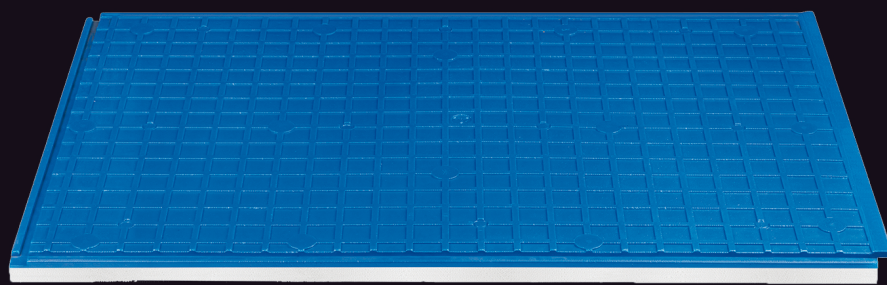


Conventional underfloor radiant panels



VARMO FLAT Technical Data Sheet

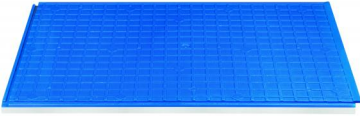
Flat insulating panels

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VARMO FLAT

Flat insulating panels



DESCRIPTION

Insulating panels in sintered expanded polystyrene, with interlocking perimeter edges and covered with blue thermoplastic film.


The film acts as a vapor barrier.

The geometry of the bas-relief panels helps the positioning of pipes of any diameter.

ADVANTAGES

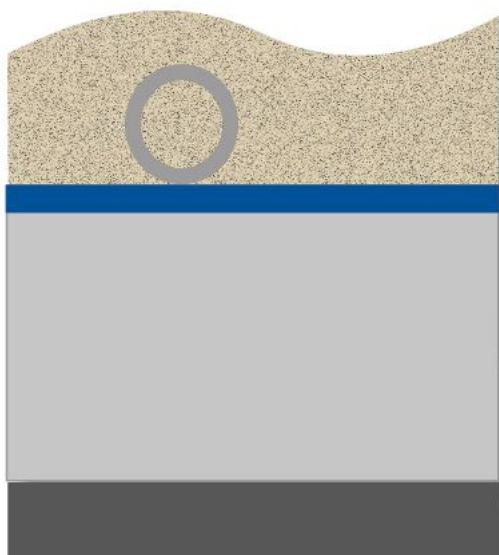
- Can be laid on pre-existing floors
- Quick and easy to install
- Immediate walkability of the floor after installation
- Suitable for industrial plants or with heavy loads
- No limitations on the choice of floor coverings
- Positioning of the pipes facilitated by the geometry of the bas-relief panels




FIELDS OF APPLICATION

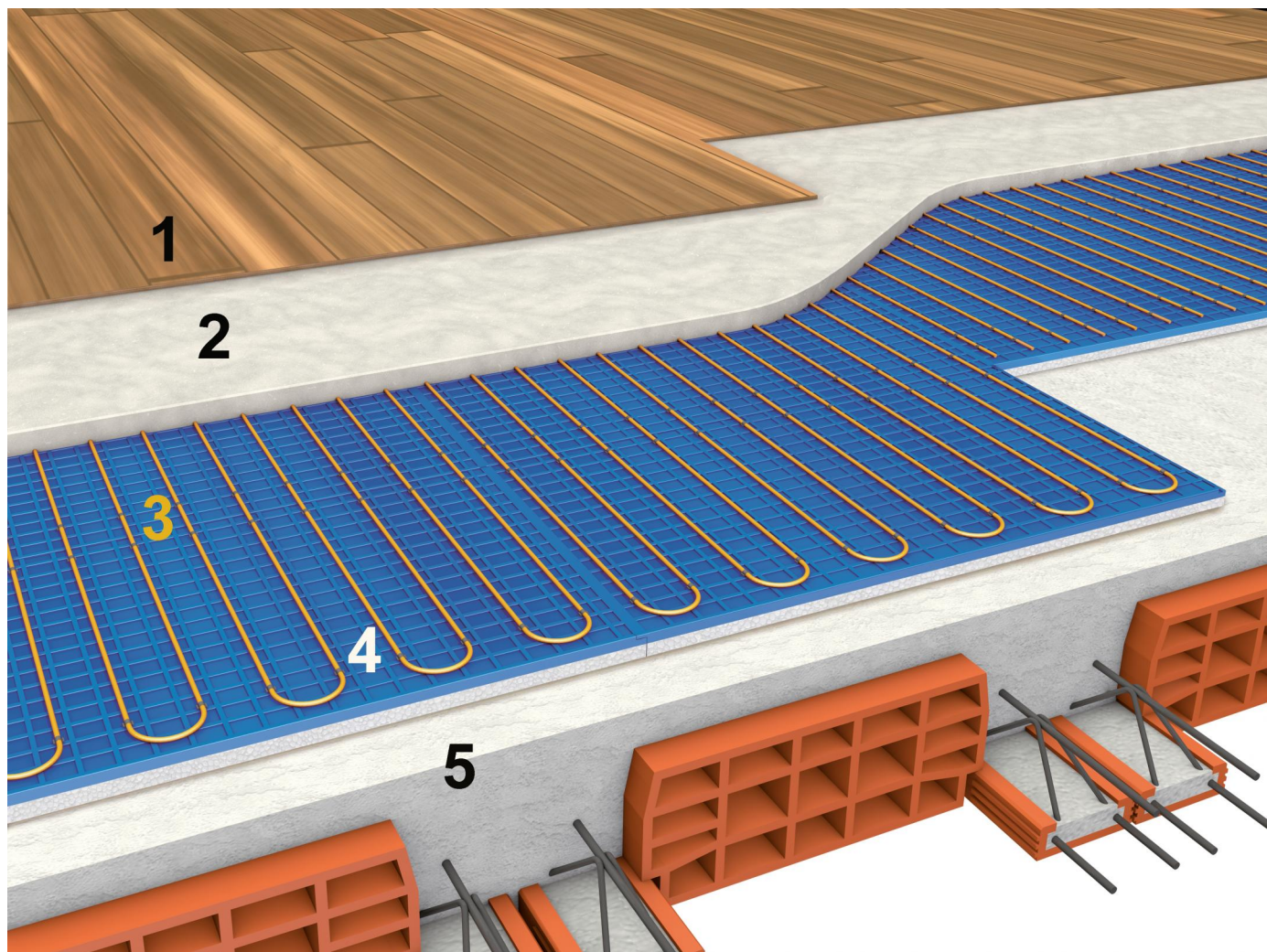
APPLICATIONS	
	floor heating (low temperature)

PANEL SECTION GUIDE

Varmo Flat
da 20 a 40



LEGEND	REFERENCE
	Screed
	Insulating
	Solothurn



LEGEND	DESCRIPTION
1	Floor covering
2	Screed
3	Pipe
4	Varmo Flat panel
5	Stable solid and flat substrate

TECHNICAL INFORMATION

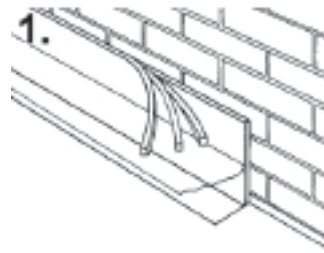
	PI00VPB200000H	PI00VPB300000H	PI00VPB400000H
Insulation Height (mm)	20	30	40
Pipes (mm)	all		
Total panel size (mm)	1400 x 800 mm (1.12 m ²)		
Panels per pack (n). Minimum quantity	26	17	13
m ² per pack	29.12	19.04	14.56
Thermal conductivity EN 12 667 W/mK	0.032		
Declared thermal resistance Rd (m ² K / W)	0.62	0.94	1.25
Cover film	Blue thermoformed cover film		
Density (EPS) (kg / m ³)	K300		
Minimum installation pitch (mm)	50		
Fire resistant EN 13501-1	Euroclasse E		
Resistant to compression at 10% deformation EN 826 (KPa)	300		
Resistance to vapor diffusion EN 12086 (μ)	50-110		

COMPONENTS

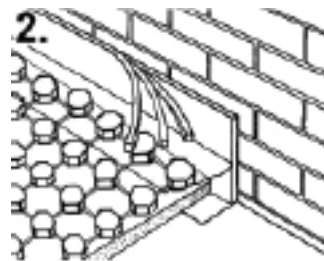
COMPONENTS	
	MIXING UNIT
	MANIFOLDS
	PIPE
	PIPE CLIP FOR BOSSED
	BAR
	PERIMETER EDGING
	EXPANSION JOINT
	ELBOW
	STABILIZER NETWORK
	VAPOR BARRIER
	ADDITIVE

INSTALLATION INSTRUCTIONS

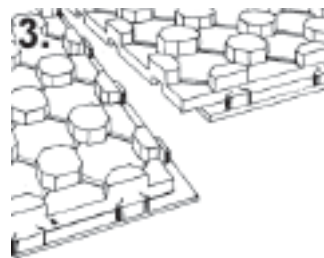
Fix the perimeter strip around the entire perimeter of the room, on the columns and on each vertical element, above the plaster.



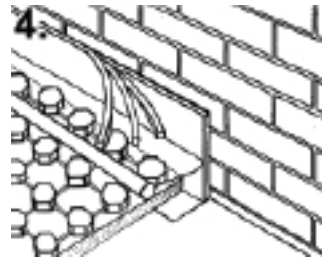
Lay the insulating plates adhering to the perimeter strip.



The joints must be staggered to make the whole more stable.



Lay the polyethylene sheet of the band over the insulating plate and lay the polyethylene pipe on top of it in order to avoid possible infiltration of the screed.

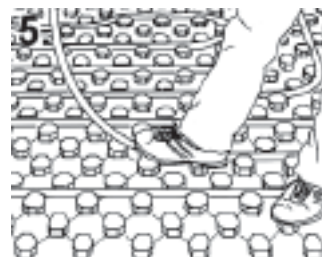


CIRCUIT REALIZATION

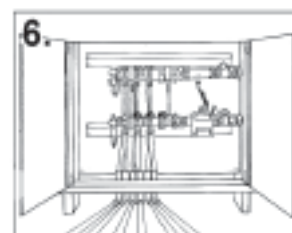
Once the panels have been fixed to the floor, you can proceed with the installation of the pipe by inserting it into the grooves on the panels.



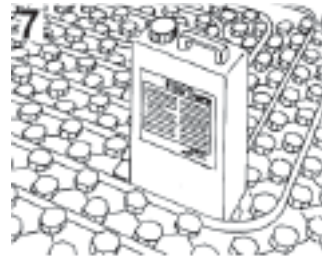
When laying the pipe, start from the delivery manifold following a double spiral pattern, unless otherwise specified in the project.



At the point of exit from the floor, the pipes must be protected with the fixing bends.



The additive in the amount of 150-200 gr / m² must be added to the laying casting.



RECOMMENDATIONS

For all the details on the installation of VARMO, it is advisable to carefully read the VARMO CATALOGUE which can be downloaded from the website www.generalfittings.it or consult the General Fittings technical office.



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