

Conventional underfloor radiant panels

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**VARMO WELD Technical Data Sheet**

Heat-sealed insulating panels

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## VARMO WELD

## Heat-sealed insulating panels



### DESCRIPTION

VARMO WELD insulating panels are made of sintered expanded polystyrene. They are extremely versatile and designed for laying pipes from 16 to 17 mm in diameter.

They are equipped with interlocking perimeter edges.

VARMO WELD panels are coated with black thermoplastic film with a vapor barrier function.

Installation is easy and immediate, guaranteeing speed of installation.

It complies with the regulations in force regarding thermal insulation and with UNI EN 13163 of 2009 and UNI EN 1264-4 standards; it has CE marking.

## ADVANTAGES

- Can be laid on pre-existing floors
- Quick and easy to install
- Immediate walkability of the floor after installation
- No limitations on the choice of floor coverings

## FIELDS OF APPLICATION

### APPLICATIONS

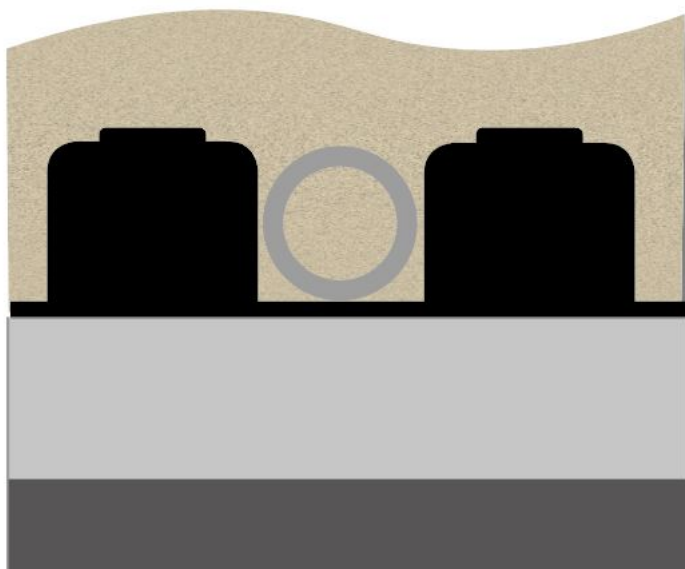





floor heating (low temperature)

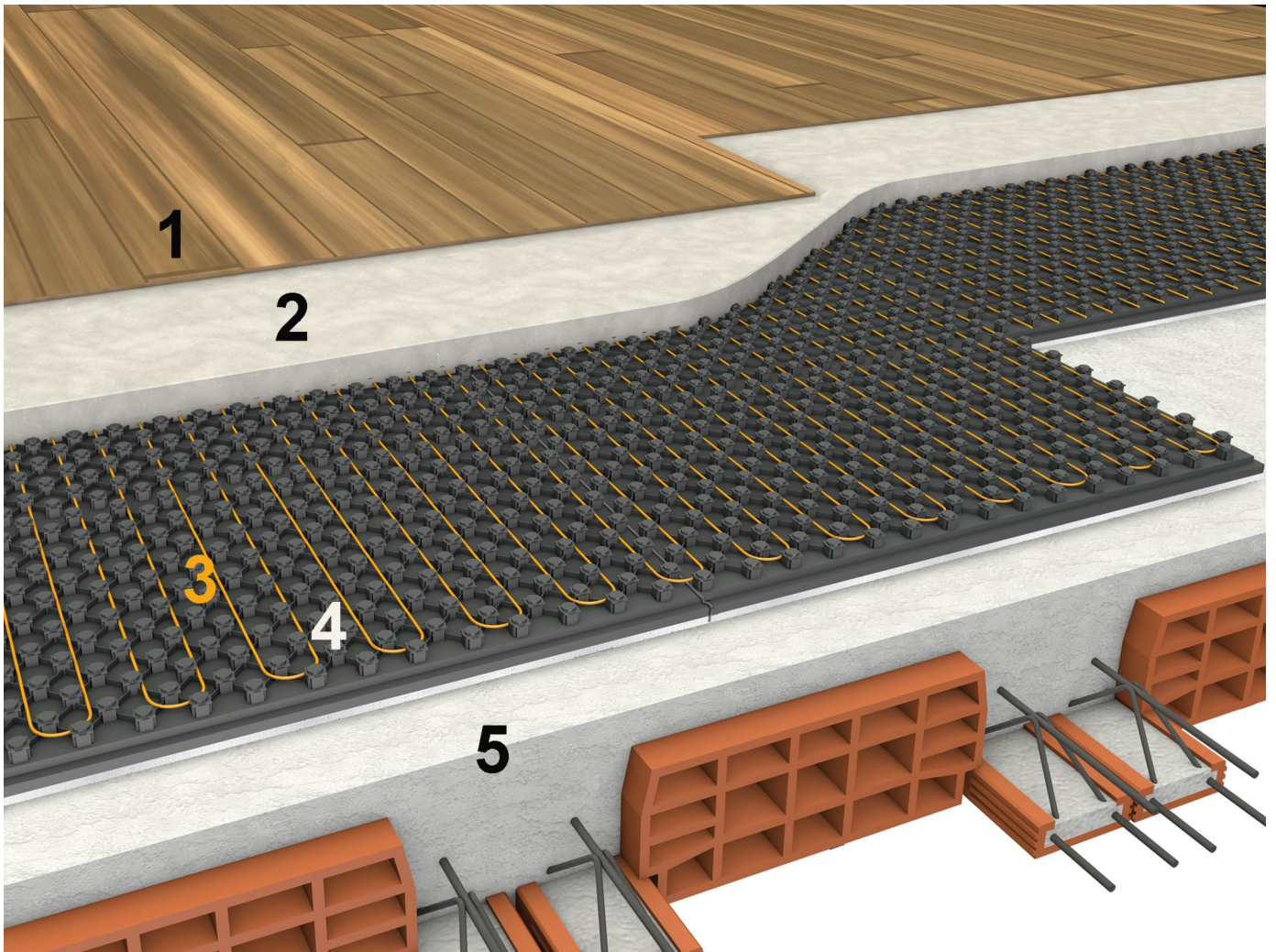


## PANEL GUIDE

### Varmo Weld da 40 a 55 mm



LEGEND	REFERENCE
	Screed
	Insulating
	Solothurn



LEGEND	DESCRIPTION
1	Floor coating
2	Screed
3	Pipe
4	Varmo Weld Panel
5	Substrate

## TECHNICAL INFORMATION

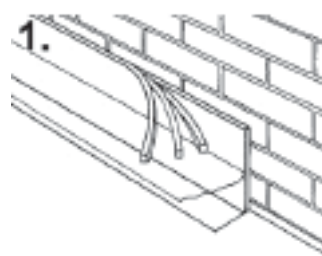
	PI00VWN401525H	PI00VWN452025H	PI00VWN553025H
Total Height (mm)	40 (15+25)	45 (20+25)	55 (30+25)
Pipes (mm)	16-17		
Total panel size (mm)	1400 x 800 mm (1.12 m <sup>2</sup> )		
Panels per pack (n). Minimum quantity	14	11	9
m <sup>2</sup> per pack	20.16	17.92	13.44
Thermal conductivity EN 12 667 W/mK	0.034		
Declared thermal resistance Rd (m <sup>2</sup> K / W)	0.8	1.15	1.45
Cover film	Black thermoformed cover film		
Density (EPS) (kg / m <sup>3</sup> )	K150		
Minimum installation pitch (mm)	50		
Fire resistant EN 13501-1	Euroclasse E		
Resistant to compression at 10% deformation EN 826 (KPa)	150		
Resistance to vapor diffusion EN 12086 (μ)	30-70		

## COMPONENTS

COMPONENTS	
	MIXING UNIT
	MANIFOLDS
	PIPES
	PIPE CLIP
	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.



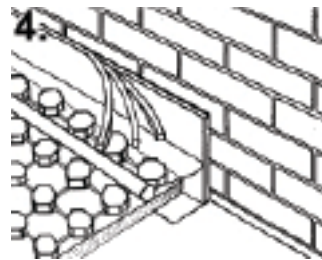
Lay the insulating plates adhering to the perimeter strip.



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.

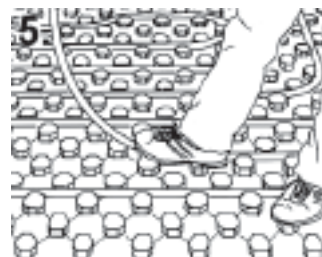


#### CIRCUIT REALIZATION

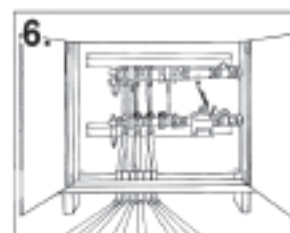
Once the panels have been fixed to the floor, you can proceed with the installation of the pipe by inserting it into the grooves on the panels.



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 / m<sup>2</sup> 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](http://www.generalfittings.it) or consult the General Fittings technical office.





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