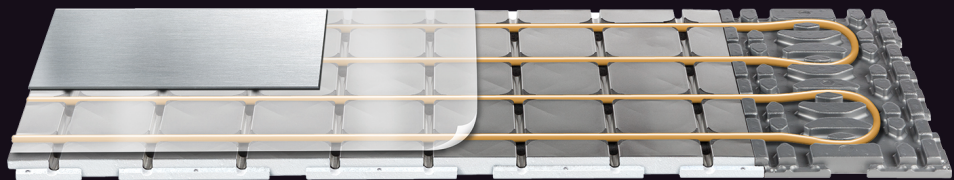


Dry underfloor radiant panels



VARMO ALU Technical Data Sheet

Insulating head and panel in expanded polystyrene covered with aluminium sheet

Contents

DESCRIPTION	3
ADVANTAGES	4
FIELDS OF APPLICATION	4
SECTION	5
TECHNICAL INFORMATION	7
COMPONENTS	8
INSTALLATION INSTRUCTIONS	9
RECOMMENDATIONS	11

VARMO ALU

Insulating head and panel in expanded polystyrene covered with aluminium sheet



DESCRIPTION

Expanded polystyrene panel covered with a removable aluminum sheet 0.3 mm thick. VARMO ALU radiant floor heat system consists of a panel, head, polyethylene sheet and galvanized steel sheets which together form a low inertia system, without the need for a screed. Ideal for systems with 16 - 17 mm pipe. Place the vapor barrier between the galvanized steel plate and the panel.

ADVANTAGES

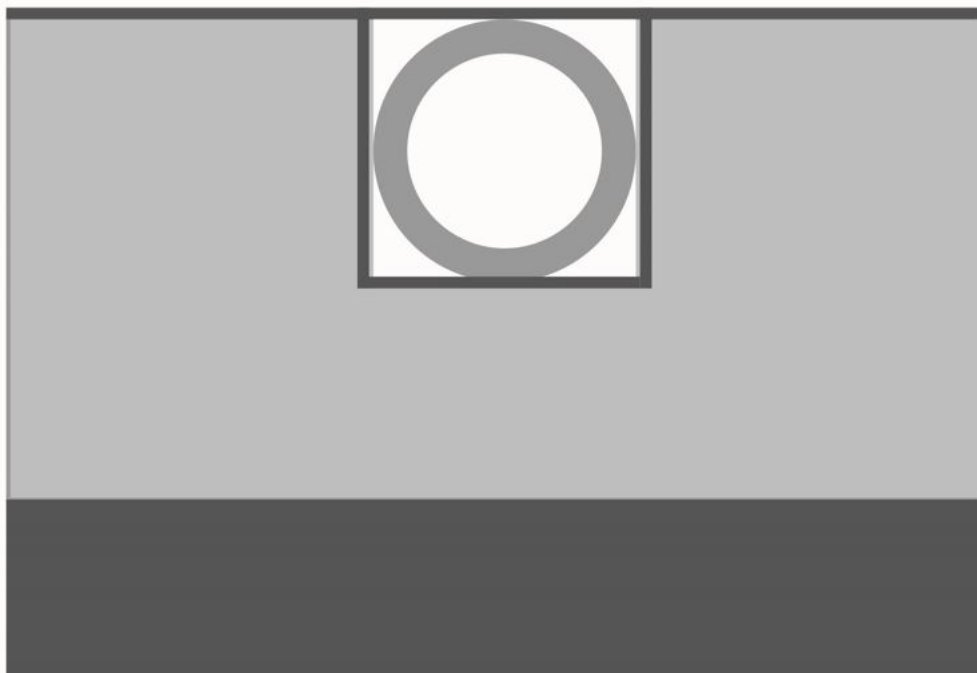
- Can be laid on pre-existing floors
- No limitations on the choice of floor coverings
- Heat-reflecting film with frame geometry that facilitates the laying of pipes

FIELDS OF APPLICATION

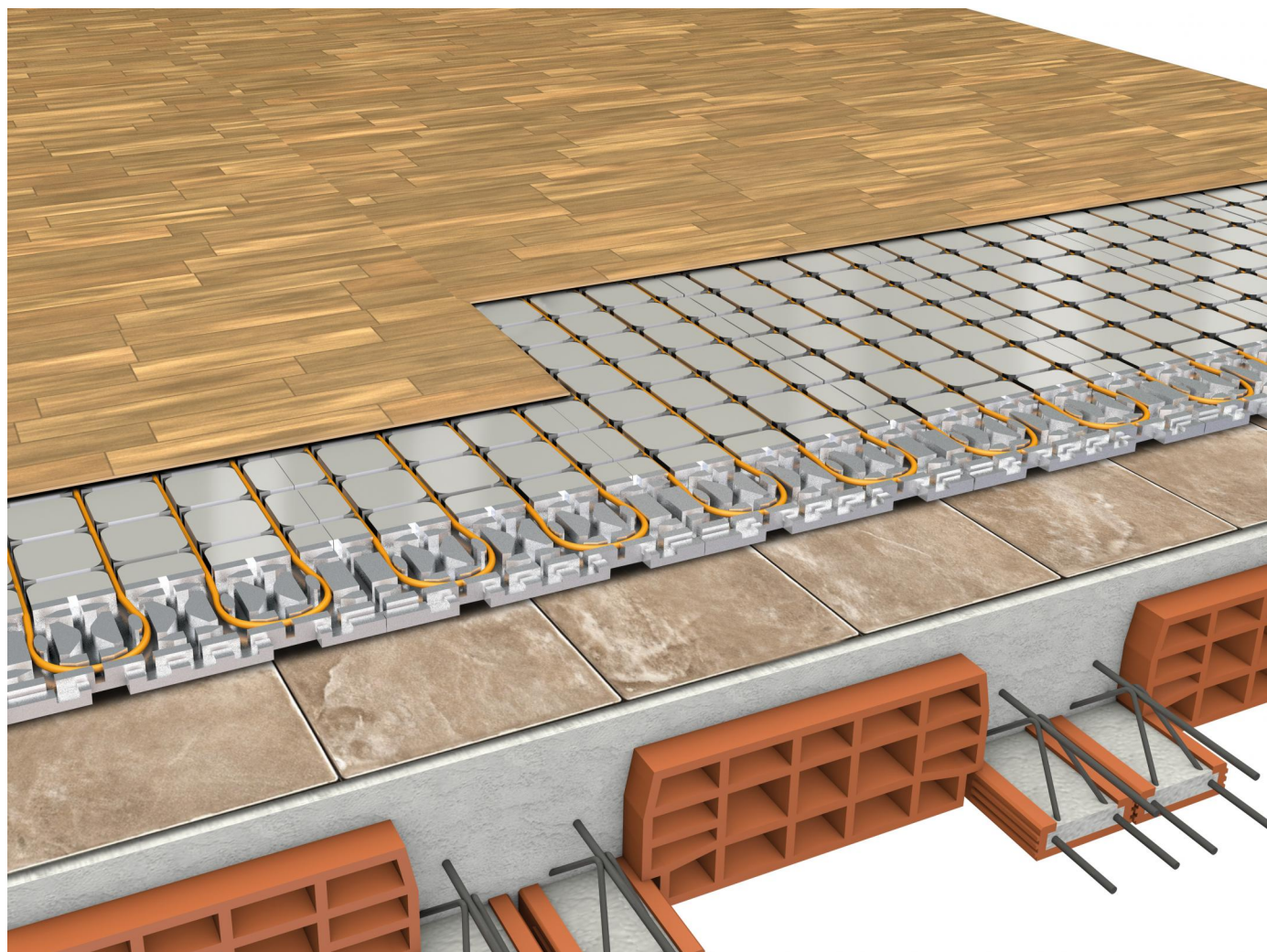
APPLICATIONS	
	floor heating (low temperature)

SECTION

Varmo Alu 28 mm



LEGEND	REFERENCE
	Screed
	Insulating
	Solothurn







LEGEND	DESCRIPTION
1	Floor covering
2	Varmo Alu panel
3	Pipe
4	Pre-existing flooring
5	Subfloor

TECHNICAL INFORMATION

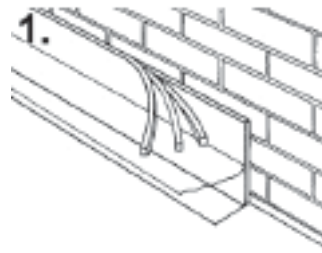
	POLYSTYRENE INSULATION PANEL COVERED WITH ALUMINIUM SHEET	POLYSTYRENE HEAT INSULATION PANEL COVERED WITH ALUMINIUM SHEET	GALVANIZED PLATE
TOTAL HEIGHT (mm)	28		1
Total panel size (mm)	1200 x 600	600 x 300	600 x 600 600 x 300 600 x 600 con adhesivo 600 x 300 con adhesivo
Pipes (mm)	16 -17		
Panels per pack (n). Minimum quantity	16	32	10
m ² per pack	11.52	5.76	1,80/3,60
Thermal conductivity EN 12 667 W/mK	0.033		-
Cover film	Aluminum 0.3 mm		-
Declared thermal resistance Rd (m ² K / W)	0.65		-
Density (EPS) (kg / m ³)	K200		-
Minimum installation pitch (mm)	150		
Fire resistant EN 13501-1 EN 13501-1	Class E	Clase E	-
Resistant to compression at 10% deformation EN 826 (KPa)	≥ 200		-
Resistance to vapor diffusion EN 12086 (μ)	40-100		-
Specific heat capacity EN 10456 8 (J / kgK Cp)	1450.000		-
Coefficient of linear thermal expansion K-	65 X 10 ⁻⁴		-
Limit operating temperature (°C)	80		-

COMPONENTS

COMPONENTS	
	MIXING UNIT
	MANIFOLDS
	PIPE
	PERIMETER EDGING
	ELBOW
	EXPANSION JOINT
	VAPOR BARRIER
	ADDITIVE

INSTALLATION INSTRUCTIONS

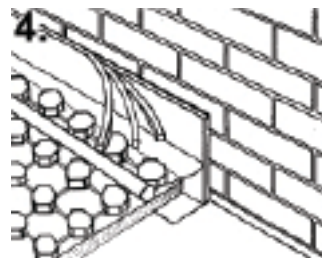
Fix the perimeter strip around the entire perimeter of the room, on the columns and on each vertical element, above the plaster.



Lay the insulating plates adhering to the perimeter strip.



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.

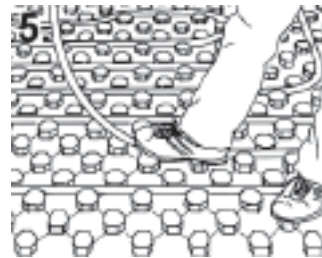


CIRCUIT REALIZATION

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.

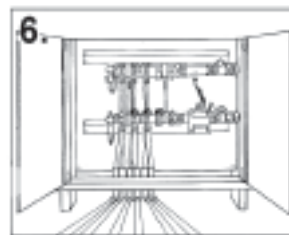


When laying the pipe, start from the delivery manifold following a double spiral pattern, unless otherwise specified in the project.



NB: place a polyethylene sheet between the aluminium and the galvanized plate for proper insulation.

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



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.



General Fittings Spa
Via Golgi, 73/75
25064 Gussago (BS) ITALY
Tel. +39 030 3739017
P.IVA 03448140172 - C.F. 01613110178
www.generalfittings.it