

Thermoformed insulating panel

P115

Description

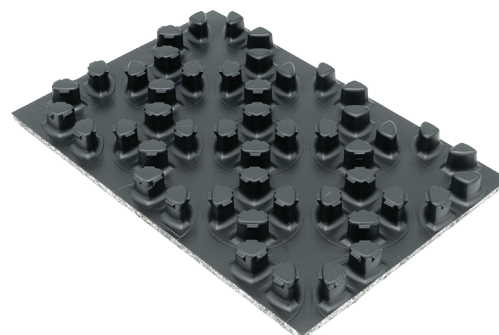
Insulating panel for low-floor radiant systems, made of white EPS sintered expanded polystyrene, coupled with a black HIPS laminated polystyrene thermoformed film with a thickness of 650 μm .

The panel is CE-marked and is suitable for water-powered radiant systems for heating and cooling integrated into structures according to the UNI EN 1264 standards.

50mm pipe laying pitch.

Suitable for plastic pipes outer diameter 16mm-17mm.

The special shape of the mushrooms with undercut allows the pipes to be laid without the use of fixing clips.



Physical Properties

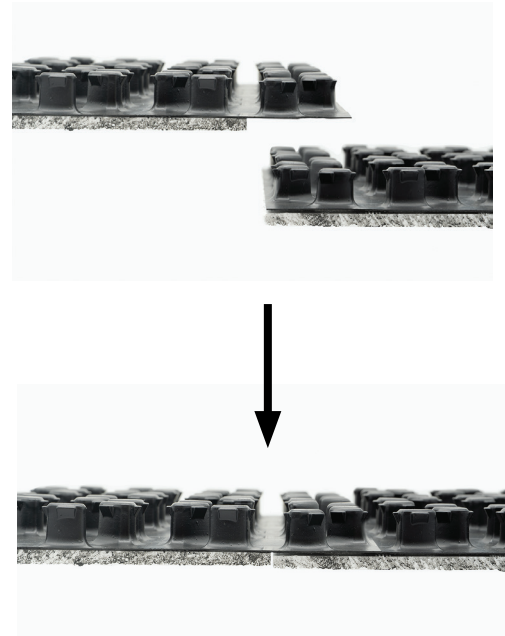
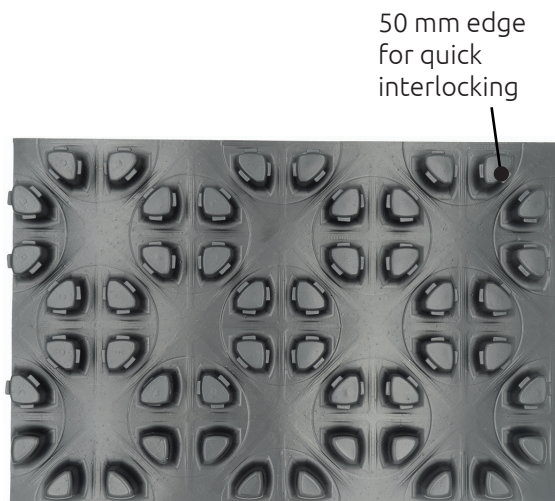
Features	Code EN 1264	Control method	Unit of measurement	88P1152399	88P1152899
Useful thickness	-	-	mm	5	10
Clew height	-	-	mm	18	18
Total panel thickness	-	-	mm	23	28
EPS class				400	200
Thermal res. on effective average thickness $R_{\lambda,ins}$	-	UNI EN 1264-3:2009	$\text{m}^2\text{K/W}$	0.28	0.42
Durability of thermal cond. against heat, atm. agents, degradation, ageing.	-	UNI EN 13163	-	The thermal conductivity of the EPS does not change over time	
Clew spacing	-	-	mm	50	
Thermal Conductivity	λ_p	EN 12667	W/mK	0.032	0.033
Durability of reaction to fire against heat, atmospheric agents, degradation, ageing.	-	UNI EN 13163	-	The reaction to fire of the EPS does not change over time	
10% deformation compressive strength	CS(10) 200	UNI EN 826	kPa	200	
	CS(10) 400			400	
Water absorption through long-term immersion	WL(T)	UNI EN 12087	% by volume	6.0	2.0
Reaction to fire	-	ISO 11925-2	EUROCLASS	EUROCLASS - E - UNI EN 13501	
Resistance to water vapour diffusion	-	UNI 8054	μ	50-100	40-100
Thickness dim. tolerance d_N	-	UNI EN 823	mm	± 2	
Stability dim. at 23°C / 50% R.H. $\Delta\epsilon_t$; $\Delta\epsilon_d$	-	UNI EN 1603	%	0.2	
HIPS water vapour diff. res.	-	UNI EN 12086	μ	10,000	

Dimensions and packaging

	Unit of measurement	88P1152399	88P1152899
Panel dimensions	mm	1400x800	
Box sizes	mm	1450x850	
Panel surface	m^2	1.12	
pcs/box	-	12	24
m^2/box	-	13.44	26.88

/ Sideband coupling system

The P115 panel, thanks to the particular shape of the perimeter edges, allows a simple and effective coupling system with overlapping of the interlocking edges between the panels, thus avoiding any thermal bridges.



/ Certifications

The P115 panel is available with CAM (Minimum Environmental Criteria) certificate. Add " CAM " to the end of the code, then 88P1152399CAM and 88P1152899CAM.

/ Warnings

The choice of the type and thickness of the panel with all the attached technical characteristics is the responsibility of a qualified technician.