



# TECHNICAL DATA SHEET POLIFLOOR TECHNIC



UNI EN 13163:13

POLIFLOOR TECHNIC is an insulation panel for radiant floor systems, made of expanded polystyrene foam with closed cells, with a HIPS thermoformed laminate 600 microns shell. The panel is CE marked and suitable for Water based surface embedded heating and cooling systems according to the UNI EN 1264.

ISO 9001 : 08 certified  
Regulation (EU) No 305/2011  
C.F.C. o H.C.F.C. Free

## DIMENSIONAL CHARACTERISTICS

CHARACTERISTIC	PFTT Code									CHARACTERISTIC	VALUE
	607	608	609	610	614	615	616	617	618		
Insulation thickness [mm]	10	20	30	40	50	60	70	80	90	Altezza bugna [mm]	22
Effective thickness $s_{ins}^*$ [mm]	14	24	34	44	54	64	74	84	94	Gap [mm]	50
Panels thickness [mm]	32	42	52	62	72	82	92	102	112	Pipes diameter allowed [mm]	16 - 17
Pieces per package [mm]	24	16	12	10	8	7	DD	DD	DD	Useful dimensions [mm]	1400 x 800
m <sup>2</sup> per package [mm]	26,88	17,92	13,44	11,2	8,96	7,84	DD	DD	DD	Overall dimension [mm]	1450 x 850
Package	SCA	SCA	SCA	SCA	SCA	SCA	DD	DD	DD	Panel area [m <sup>2</sup> ]	1,12
Package volume [m <sup>3</sup> ]	0,7	0,7	0,7	0,7	0,7	0,7	DD	DD	DD	*average effective thickness as defined on UNI EN 1264-3 DD =to be defined	

## PANEL FISICAL CHARACTERISTICS

CHARACTERISTIC	STANDARD	EPS	PFTT code									CLASS
			607	608	609	610	614	615	616	617	618	
Thermal resistance of the insulating layer $R_{\lambda,ins}$ [m <sup>2</sup> K/W]	UNI EN 1264-3:09	150	===	0,69	0,97	1,26	1,54	1,83	2,11	2,40	2,69	
		200	0,41	0,71	1,00	1,29	1,59	1,88	2,18	2,47	2,76	
Declared thermal conductivity $\lambda_D$ [W/mK]	UNI EN 13163:13	150	0,034									0,034
		200	0,033									0,033
Durabilità di conducibilità termica contro calore, agenti atmosferici, degradazione, invecchiamento	UNI EN 13163:13	150	No change in thermal conductivity properties for EPS products									
		200										
Reazione al fuoco	EN ISO 11925-2:10 + EC1:11	150	EUROCLASSE - E- UNI EN 13501:11									E
		200	EUROCLASSE - E- UNI EN 13501:11									E
Durability of reaction to fire against heat, weathering, ageing/degradation	UNI EN 13163:13	150	No change in reaction to fire properties for EPS products									E
		200	products									E
Compressive stress at 10 % deformation $\sigma_{10}$ [KPa]	UNI EN 826:13	150	150									CS(10)150
		200	200									CS(10)200
Long term water absorption by immersion $W_{it}$ [%]	UNI EN 12087:13	150	0,5									WL(T)0,5
		200	2									WL(T)2
Dimensional tolerances thickness $d_N$ [mm]	UNI EN 823:13	150	± 2									T(2)
		200	± 2									T(2)
Dimensional stability at 23°C / 50% U.R. $\Delta\epsilon_1$ ; $\Delta\epsilon_d$ [%]	UNI EN 1603:13	150	0,2									DS(N)2
		200	0,2									DS(N)2
EPS water vapour diffusion resistance factor $\mu$ [num]	UNI EN 12086:13	150	30-70									Z 30-70
		200	40-100									Z 40-100
HIPS water vapour diffusion resistance factor $\mu$ [num]	UNI EN 12086:13	HIPS	10.000									===



Avoid contact with paints, solvents, adhesives or sealing with EPS  
Store covered, avoid exposure to direct sunlight

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