

TECHNICAL SHEET

STIROTHERMAL SILENT REFLECT

Product description: **STIROTHERMAL SILENT REFLECT** –boards of expanded polystyrene in a mold which is vacuum –coated with silver metalized PE foil.



Technical data: The product meets the demands of the standards EN 13163:2012 +A1:2015

Usable size:	1050 x 750mm
Usable surface:	0,7875m ²
Total size:	1075 x 775mm
Total thickness:	57mm
Total insulation thickness:	32mm
Pipe spacing:	75,150,225mm
Pipe diameter:	Ø16-Ø20mm
Heat form resistance:	80°C continuous

CE designation code:

EPS-EN 13163–L(3)-W(3)-T(1)-S(5)-P(10)-BS50-CP2-DS(N)5-DS(70,-)3-SD30

Characteristic	EN Method	Unit	Declaration EN 13163:2012 +A1:2015		
Length	822	mm	± 3		
Width	822	mm	± 3		
Thickness	823	mm	+15% or 3mm ^a		
Squareness	824	mm	± 5		
Flatness	825	mm/m	± 10		
Bending strength	12089	kPa	≥ 50		
Compressibility	12431	mm	≤ 2		
Dimensional stability	1603	%	± 0,5		
Dimensional stability at 70°C	1604	%	≤ 3		
Reaction to fire	13501-1	/	E		
Thermal resistance λ _D	12667	W/m.K	0.038		
Dynamic stiffness	29502-1	MN/m ³	mm	SD	dB
			32/30	30	26

^awhich gives maximum numerical tolerance

*improving the insulation against impact sound ΔLW_R(dB) at the screed mass >75kg/m²!

Thickness, d _N (mm)	32/30+25
Thermal resistance, R _D (m ² K/W)	0,80

Use and

instillation:

Stirotermal Silent Reflect plates are used not only for thermal insulation of floors with underfloor heating but also as impact sound insulation, the level of which is reduced by 26dB. The octagonal conical plugs enable the installation of pipes with a diameter of 16 to 20 mm at a distance of at least 7.5 cm, without additional fastening of the pipes. The special shape of the edges allows the plates to be firmly joined. The board is suitable for installation under a cement screed, in living and office spaces where sound shock insulation is required, with a permissible uniform load of up to 1000 kg / m². When installing the underfloor heating system and pouring the concrete screed, take special care not to damage the plates and heating pipes..

Packaging:

Plates are packaged in packages in:

- PE-foil: 10 pieces → 7,875 m²
- carton box: 13 pieces → 10,2375 m².

Handling, storage

and transport:

During handling, transport and storage it is forbidden to smoke or work with open fire. Store in a covered area, protected from direct sunlight - the effects of UV radiation, heat, flame, prevent contact with incompatible materials / chemicals and with sharp or hard materials. When handling, transport and storage avoid stacking on the edge of the product, to prevent damage to the edges.

Disposal considerations of waste:

Product packaging after use should be transferred to a packaging waste processing company.

Certificates:

ITT on ZAG Ljubljana



Declaration of performance no.: DoP-04-TI-009/23-01, according to Regulation (EU) no.305/2011

The system of quality is conform with EN ISO 9001