



Declaration of performance

No. 011.7-29.03.2017

1. Unique identification code of the product-type: **Laminated underfloor heating plates RUND 20 EPS 200-EN13163-T(2)-L(3)-W(3)-Sb(5)-P(10)-DS(N)2-DLT(1)5-BS250-CS(10)200**
2. Intended use: **thermal insulation of buildings**
3. Manufacturer: **HIRSCH Porozell Ltd., RO-Rascruci no.368A, Cluj County**
Phone: + 40 (0)264-207181 / fax. + 40 (0)264-207190
e-mail office.cluj@hirsch-gruppe.com
4. Authorized representative: not relevant
5. System of assessment and verification of constancy of performance: **system 3**
6. Harmonised standard: **SR EN 13163:2012+A2:2016**
Notified Body : **Identification No. 1841 - INCD URBAN-INCERC, branch Cluj Napoca, Calea Floresti 117, 400.524**
7. Declared performance:

Essential characteristics		Harmonised technical specification	Class	Declared performance
Dimensions : -Lenght		SR EN 822	L(3)	± 3 mm
-Width		SR EN 822	W(3)	± 3 mm
-Thickness		SR EN 823	T(2)	± 2 mm
-Squareness		SR EN 824	Sb(5)	± 5 mm
-Flatness		SR EN 825	P(10)	± 10 mm
Reaction to fire Continuous glowing combustions		SR EN 13501	E	
Water permeability : Long term water absorption by immersion		SR EN 12087	WL(T)3	≤ 3 %
Release of dangerous substances to the indoor environment		NPD		
Acoustic absorption indexes. (EPS products have no significant airborne sound asorption properties)		NPD		
Impact noise transmission index (for floors)	Dynamic stiffness	NPD		
	Thickness dL	SR EN 12431	T(1)	-1 mm
	Compressibility	CP2		
Thermal resistance : -Thermal resistance			RD	0,57 m ² K/W
- Thermal conductivity		SR EN 12667	λ	0,035 W/(mK)
- Thickness		SR EN 823	T(1)	
Water steam permeability	Water steam transmission μ	SR EN 13163	30 - 70	Table F2
Compressive strenght	Compressive stress at 10% deformation	SR EN 826	CS(10)200	200 kPa
Deformation under specified compressive load and temperature conditions		SR EN 1605	DLT(1)5	≤ 5 %
Tensile/flexural strenght	Bending strenght	SR EN 12089	BS250	250 kPa
	Tensile strenght perpendicular to faces	SR EN 1607	TR150	150 kPa
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	fullfiled		
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance - thermal conductivity	fullfiled		
	Durability characteristics	SR EN 1604 SR EN 1603	DS(70,-)1 DS(N)2	1 % ± 0,2%
Durability of compressive strenght against ageing/degradation	Compressive creep	NPD		
	Freeze taw resistance	NPD		
	Long-term thickness reduction	NPD		

The performance of the product identified above is in conformity with the declared performance. This declaration of performance is issued in accordance with Regulation (UE) No. 305/2011, the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:
ing. Schweitzer Marius, General Manager.....

Râscruci 12.12.2019

Technical Data



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Name	Laminated underfloor heating plates RUND 20
Board size (length x width)	1030 x 530 mm
Effective size	1000 x 500 mm
Effective area	0,50 m ²
Grid distance for pipe	50 mm
Nominal thickness of insulation	20 mm
Total thickness	39 mm
Pipe dimension	16-18 mm
Name according EN 13163	EPS-EN 13163-T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-DLT(1)5-BS250-CS(10)200
Classif. building material accord. EN 13501-1	E
Heat conducting value	0,035 W/mK
Heat conducting resistance	0,57 m ² K/W
Heat stability	80° C
Max. load	60 kPa (6000 kg/ m ²)
Colour	black
Packaging unit	15 Pcs.
Effective area per box	7,5 m ²
Box size (L x W x T)	1040x542x564 mm

Transport and storage: The product is stable and inert when normal conditions of transport, storage and use. Vehicles must be covered and clean but not airtight, allowing natural ventilation. It is not allowed to transport plates from expanded polystyrene with other materials that can damage (diluent, fuel, paints). Storage spaces will be covered, ventilated, moisture away from heat sources and avoid exposure to sunlight.

Further information: The product should not come in contact with any material which reacts with EPS dissolving or causing swelling thereof as may be the case with some solvent-based adhesives, wood preservatives and other non-toxic and inert substances. EPS is not containing chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFC) or formaldehyde. When fitted EPS products, no need to take special precautions by operators because they are not toxic nor irritating.

Guarantee: deposit product is guaranteed for 2 years only if the above conditions are met.