



No. B-002-CPR-03/C-002-CPR-08

Declaration of Performance

- 1. Type**
Expanded Polystyrene
- 2. Identification**
Sundolitt S80
- 3. Intended use**
Factory made expanded polystyrene (EPS) products - Thermal insulation for buildings.
- 4. Manufacturers name and address**
Sundolitt as
Krog Skolevej 3
7190 Billund

E-mail: sundolitt.kundeservice@sundolitt.com
- 5. Name and address on authorised representative**
Not relevant.
- 6. System of assessment and verification of constancy of performance (AVCP)**
AVCP system 3
- 7. Notified body**
Teknologisk Institut – identification number 1235.

ITT test for B-002-CPR-03: Thermal conductivity [Report 2100], Compressive strength [Report 366445], Wateruptake, long term [Bundled Report 1001892-03-03 and 03070WL/t].

ITT test for C-002-CPR-08: Thermal conductivity [Report 7022-25], Compressive strength [Report 966445], Wateruptake, long term [Bundled Report 978803 and 03070WL/t].

System
System 3
- 8. Declared Performance**

Essential characteristic	Performance	Note
Tolerances:		DS/EN13163:2012+A2:2016
Thickness	Class T(2)	
Length	Class L(3)	
Width	Class W(3)	
Squarness	Class S(5)	
Flatness	Class P(30)	

Thermal resistance	Thermal resistance (R_D)	Thickness Resistance (D_N and T) 50 mm 1,30 m ² K/W 100 mm 2,60 m ² K/W 150 mm 3,90 m ² K/W 200 mm 5,25 m ² K/W 250 mm 6,55 m ² K/W	
	Thermal conductivitet (λ_D)	0,038 W/mK	
Reaction to fire	Reaction to fire	NPD (Euroclass F)	
Durability of reaction to fire against heat, weathering and ageing/degradation	Durability characteristics	No change over time	
Durability of thermal conductivity against heat, weathering and ageing/degradation	Thermal resistance and conductivity	No change over time	
	Durability characteristics	No use. NPD	
Compressive strength	Compressive strength, short term (10% def.) (CS(10))	80 kPa	
Shear- and Bending strength	Bending strength (BS)	125 kPa	
	Shear strength (TR)	60 kPa	acc. Annex F.3*
Durability of compressive strength ageing and degradation	Compressive creep long term (2%) (CC)	24 kPa	acc. Annex F.2*
	Freeze-thaw resistance FTCD/FTCI	No use. NPD	
	Long term thickness reduction (CP)	No use. NPD	
Wateruptake long term	Long term waterabsorption by immersion (WL(T))	5 vol.%	
	Long term water absorption by diffusion (WD(V))	No use. NPD	
Watervapor permeability	Watervapor transmission/	μ 20 to 40 δ 0,015 to 0,030	acc. Annex F.4*

	permeability (MU or Z)	mg/(Pa.h.m)	
Impact noise transmission (floors)	Dynamic stiffness	No use. NPD (SD)	
	Thickness d_L	No use. NPD Class T	
	Compressability	No use. NPD (CP)	
Continuous glowing combustion		No use. NPD	
Release of dangerous substances to indoor environment		NPD. European test methods under development.	

*Reference to DS/EN 13163:2012+A2:2016. NPD = No Performance Determined The performance for

9. Sundolitt S80 is in conformity with the declared performance in point 8 – Declared performance.

This declaration is issued under the sole responsibility of Sundolitt as, Krog Skolevej 3, 7190 Billund.

Signed for and on behalf of Sundolitt as:



Claus Jørgensen, Techn. Chief
Billund, December the 31st 2020

Sundolitt as
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CVR nr. 35 90 91 17