



No. C-006-CPR-10

## Declaration of Performance

- 1. Type**  
Expanded Polystyrene
- 2. Identification**  
Sundolitt S400MX (former name MX400)
- 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](mailto: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: Thermal conductivity [Bounded Report 07068-65], Compressive strength [Report 0310/409918], Wateruptake, long therm [Bounded Report 0310/409918].

**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)	
Squariness	Class S(5)	
Flatness	Class P(30)	

Thermal resistance	Thermal resistance ( $R_D$ )	Thickness Resistance ( $D_N$ and T) 50 mm 1,50 m <sup>2</sup> K/W 100 mm 3,00 m <sup>2</sup> K/W 150 mm 4,50 m <sup>2</sup> K/W 200 mm 6,05 m <sup>2</sup> K/W 250 mm 7,55 m <sup>2</sup> K/W	
	Thermal conductivitet ( $\lambda_D$ )	0,033 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))	400 kPa	
Shear- and Bending strength	Bending strength (BS)	600 kPa	
	Shear strength (TR)	300 kPa	acc. Annex F.3*
Durability of compressive strength ageing and degradation	Compressive creep long term (2%) (CC)	120 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/	$\mu$ 40 to 1000 $\delta$ 0,006 to 0,01	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	
	Compressibility	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

9. The performance for Sundolitt S400MX 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 31st 2020

**Sundolitt as**  
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