

SYNTHOS XPS PRIME G 25

Extruded polystyrene board

Declaration of Performance

no. SD/PG25/2024/01

Date of compilation: 2024-01-01

1. Unique identification code of the product-type:

Synthos XPS PRIME G 25

2. Intended use:

Thermal insulation for buildings

Thermal insulation and light weight fill products for civil engineering applications.

3. Manufacturer:

Synthos Dwory 7 spółka z ograniczoną odpowiedzialnością

ul. Chemików 1

32-600 Oświęcim

POLAND

4. System of assessment and verification of constancy of performance:

System 3

5. Harmonised standards: EN 13164:2012+A1:2015; EN 14934:2007

Notified Bodies:

Instytut Techniki Budowlanej (NB 1488)

Universität Stuttgart für die Materialprüfungsanstalt Universität Stuttgart (NB 0672)

6. Declared performances - Table no.1

Essential characteristics	Performance		Harmonized technical specification
Thermal resistance	Thermal resistance and thermal conductivity	Table no. 2, below	EN 13164:2012+A1:2015
	Thickness		
Reaction to fire	Euroclass characteristic	Euroclass E	EN 13164:2012+A1:2015
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	No change	EN 13164:2012+A1:2015
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance and thermal conductivity	Table no. 2, below	EN 13164:2012+A1:2015
	Durability characteristics	DS(70,90)	EN 13164:2012+A1:2015
	Freeze-thaw resistance after long term water diffusion test	NPD	EN 13164:2012+A1:2015

	Freeze-thaw resistance after long term water absorption by total immersion	FTCI2	EN 13164:2012+A1:2015
Compressive strength	Compressive strength at 10% of deformation	CS(10/Y)250	EN 13164:2012+A1:2015
Tensile/flexural strength	Tensile strength perpendicular to faces	TR100	EN 13164:2012+A1:2015
Durability of compressive strength against ageing/degradation	Compressive creep	NPD	EN 13164:2012+A1:2015
Water permeability	Long term water absorption by total immersion	WL(T)0,7	EN 13164:2012+A1:2015
	Long term water absorption by diffusion	Table no. 3, below	EN 13164:2012+A1:2015
Water vapour permeability	Water vapour transmission	NPD	EN 13164:2012+A1:2015
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD	EN 13164:2012+A1:2015
Glowing combustion	Continuous glowing combustion	NPD	EN 13164:2012+A1:2015
Reaction to fire	Reaction to fire	Euroclass E	EN 14934:2007
Glowing combustion	Continuous glowing combustion	NPD	EN 14934:2007
Resistance against dynamic loads	Resistance against cyclic compressive loading	NPD	EN 14934:2007
Water permeability	Long term water absorption by total immersion	WL(T)0,7	EN 14934:2007
	Long term water absorption by diffusion	NPD	EN 14934:2007
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD	EN 14934:2007
Thermal resistance	Thermal resistance and thermal conductivity	Table no. 2,below	EN 14934:2007
	Thickness		EN 14934:2007
Water vapour permeability	Water vapour transmission	NPD	EN 14934:2007

Compressive strength	Compressive strength at 2% of deformation	CS(2/Y)100	EN 14934:2007
	Compressive strength at 5% of deformation	CS(5/Y)200	EN 14934:2007
	Compressive strength at 10% of deformation	CS(10/Y)250	EN 14934:2007
Tensile/flexural strength	Flexural strength	BS300	EN 14934:2007
Durability of reaction to fire against heat, weathering, ageing/ degradation	-	No change	EN 14934:2007
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance and thermal conductivity	Table no.2, below	EN 14934:2007
	Dimensional stability at 23°C and 90% relative humidity	NPD	EN 14934:2007
	Dimensional stability at (70 °C)	NPD	EN 14934:2007
	Dimensional stability at 70°C and 90% relative humidity	DS(TH)	EN 14934:2007
	Deformation under specific conditions of compressive load of 40 kPa and at temperature of 70°C	NPD	EN 14934:2007
	Freeze-thaw resistance	NPD	EN 14934:2007
Durability of compressive strength against ageing/ degradation	Compressive creep	NPD	EN 14934:2007
	Freeze-thaw resistance	NPD	EN 14934:2007
Durability of resistance against dynamic loads	Resistance to cyclic compressive load	NPD	EN 14934:2007
Durability of resistance against chemical and biological agents	-	NPD	EN 14934:2007

Table no. 2. Heat values for particular thickness

Thickness In the class of tolerance T1 [mm]	Coefficient of thermal conductivity λ_D [W/mK]	Thermal resistance R_D [m ² K/W]
20	$\leq 0,033$	$\geq 0,60$
30	$\leq 0,033$	$\geq 0,90$

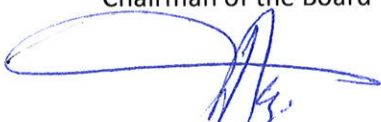
Table no. 3. Long term water absorption by diffusion for particular thickness

Thickness [mm]	Long term water absorption by diffusion – declared level
20	WD(V)5
30	WD(V)4

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

Signed for and on behalf of the manufacturer by:

Chairman of the Board



Artur Pawłowski

Oświęcim, 2024-01-01