SYNTHOS XPS PRIME 25 (IR)

Extruded polystyrene board

Declaration of Performance
No SK/P25R/2013/02
Date of compilation: 2013-12-16

1. **Unique identification code of the product type:**
   SYNTHOS XPS Prime 25IR

2. **Element allowing identification of the construction product:**
   Production date given on the label.

3. **Intended applications of building products with the accordance to harmonized technical specification:**
   - Thermal insulation for buildings

4. **Trade name and contact address of the manufacturer:**
   SYNTHOS XPS PRIME 25 (IR)
   Synthos Kralupy a.s.
   O. Wichterleho 810
   278 01 Kralupy nad Vltavou,
   Czech Republic

5. **System of assessment and verification of constancy of performance of the construction product:**
   System 3

6. Pursuant to the harmonized standard EN 13164 Centrum stavebního inženýrství, a.s., [Centre of Building Construction Engeneering Inc.,] (nr 1390), conducted initial type test in System 3 and issued test Reports No.: 1390-CPD-0372/13/P.

7. **Declared performance** – Table No. 1

Essential characteristics	Performance	Harmonized technical specification:
Thermal resistance and thermal conductivity	Table No. 2 below	EN 13164:2013
Stability of thermal resistance under the effect ageing and degradation	(a)	EN 13164:2013
Reaction to fire	Euroclass E	EN 13164:2013
Durability of reaction to fire against heat, weathering, ageing/ degradation	no changes	EN 13164:2013
Reaction to fire of the product in standardized assemblies simulating end-use applications	NPD	EN 13164:2013

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Contionus glowing combustion	NPD	EN 13164:2013
Length and width	At nominal length and width ≤ 1500 mm: ± 8 mm > 1500 mm: ± 10 mm	EN 13164:2013
Thickness within T1 thickness tolerance class	20 ÷ 30 mm	EN 13164:2013
Squareness on length and width	5 mm/m	EN 13164:2013
Flatness	At nominal length and width 6 mm/m	EN 13164:2013
Dimensional stability at 70°C and 90% relative humidity	Relative changes in length, width and thickness not exceeding 5%	EN 13164:2013
Deformation under specific conditions of compressive load of 40 kPa and at temperature of 70°C	NPD	EN 13164:2013
Compressive strength	≥250 kPa	EN 13164:2013
Stability of stress in pressure under the effect of ageing and degradation - compressive creep	NPD	EN 13164:2013
Long term water absorption by total immersion	≤ 1.5%	EN 13164:2013
Long term water absorption by diffusion	NPD	EN 13164:2013
Stability of thermal resistance under the effect of heat, weather, ageing and degradation- freeze-thaw resistance after long term water diffusion test	NPD	EN 13164:2013
Stability of thermal resistance under the effect of heat, weather, ageing and degradation - freeze - thaw resistance after long term water absorption by total immersion	NPD	EN 13164:2013
Water vapour diffusion resistance factor	≥ 100	EN 13164:2013
Tensile strength perpendicular to faces	≥ 200 kPa	EN 13164:2013
Release of dangerous substances	NPD	EN 13164:2013
Shear strength	NPD	EN 13164:2013

(a) In conformity with Annex C, EN 13164: 2013, the declared value of thermal resistance given in Table 2 allows for modifications in thermal conductivity of Synthos XPS Prime by the effect of time.

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Table No. 2. Heat values for particular thickness

Thickness [mm]	Coefficient of heat conductivity λ_D [W/mK]	Thermal resistance R_D [m^2K/W]
20	≤ 0,032	≥ 0,55
30	≤ 0,033	≥ 0,80

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

HSE&Q Manager

Norbert Eichler

Plant Manager

Jolanta Brudnicka

Kralupy nad Vltavou, 2013-12-16

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