

# DECLARATION OF PERFORMANCE

No. 27DOP-2022-EN

## 1. Unique identification code of the product type:

**EKOPRODUR S0541**

**PCC Prodex piana zamkniętokomórkowa natryskowa o wysokiej gęstości**

## 2. Intended use:

Construction Products: In-situ formed sprayed rigid polyurethane (PUR) foam products.

Intended uses: Thermal insulation of roofs and floors.

## 3. Manufacturer:

PCC Prodex Sp. z o.o.

56-120 Brzeg Dolny, str. Henryka Sienkiewicza 4, Poland

## 4. System(s) of assessment and verification of constancy of performance:

System 3

## 5. Harmonized standard:

EN 14315-1:2013

## 6. Notified bodies:

Instytut Techniki Budowlanej (1488)

Forschungsinstitut für Wärmeschutz (0751)

Polskie Centrum Badań i Certyfikacji (1434)

## 7. Declared performance:

Table 1 Declared Performance

Essential characteristics according to EN 14315-1:2013	Performance characteristics	Declared level/class
Reaction to fire	Reaction to fire	E
Water permeability	Short-term water absorption by partial immersion, $W_p$	0,10 kg/m <sup>2</sup>
Thermal resistance	Thermal conductivity coefficient, $\lambda_{mean,i}$	0,020 W/mK
	Thermal conductivity coefficient, $\lambda_{90,90}$	0,021 W/mK
Water vapor permeability	Water vapor diffusion resistance coefficient, $\mu$	≥ 70
Compressive strength	Compressive stress at 10% relative deformation, $\sigma_{10}$	CS(10/Y)300
Durability of reaction to fire against ageing/degradation	Durability of properties	Does not deteriorate over time
Durability of thermal resistance against ageing/degradation	Thermal conductivity coefficient $\lambda_D$ taking into account aging	For thickness: $d_N < 80$ mm $\lambda_D = 0,026$ W/(m·K) For thickness: $80$ mm ≤ $d_N < 120$ mm $\lambda_D = 0,024$ W/(m·K) For thickness: $d_N \geq 120$ mm $\lambda_D = 0,023$ W/(m·K)
	Thermal resistance $R_D$ taking into account aging	Refer to table 2
	Dimensional stability	DS(70,90)3 DS(-20,-)3
Durability of compressive strength against ageing/degradation	Durability of properties	Does not decrease with time (remains constant or increases due to air diffusion into foam cells)
Continuous glowing combustion	Continuous glowing combustion	NPD

Table 2 Declared thermal resistance depending on the thickness of the product

$\lambda_D$ [W/(m·K)]	0,026	0,026	0,026	0,026	0,026	0,026	0,026	0,026	0,026	0,026	0,024	<b>0,024</b>	0,024
$d$ [mm]	30	35	40	45	50	55	60	65	70	75	80	<b>84</b>	85
$R_D$ [(m <sup>2</sup> K)/W]	1,154	1,346	1,538	1,731	1,923	2,115	2,308	2,500	2,692	2,885	3,333	<b>3,500</b>	3,542
$\lambda_D$ [W/(m·K)]	0,024	0,024	0,024	0,024	0,023	0,023	0,023	0,023	0,023	0,023	0,023	0,023	0,023
$d$ [mm]	90	95	100	110	120	130	140	150	160	170	180	190	200
$R_D$ [(m <sup>2</sup> K)/W]	3,750	3,958	4,167	4,583	5,217	5,652	6,087	6,522	6,957	7,391	7,826	8,261	8,696

The performance of the product identified above is in line 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 above.

On behalf of the manufacturer signed by:

Magdalena Wasielewska  
Technologist

Brzeg Dolny, 13.07.2023