



DECLARATION OF PERFORMANCE

No 01DOP-2019-EN

1. Unique identification code of the product type:

EKOPRODUR S0329

PU EN14315-1-DS(TH)3-CCC4-CT3(20)-GT8(20)-TFT10(20)-FRC36(20)-W0,11-CS(10/Y)150-DLT(1)5-MU35-A3

2. Intended use:

Thermal insulating products for buildings. For professional usage as an in-situ formed sprayed rigid polyurethane (PUR) foam for buildings and industrial objects.

Intended uses: Thermal insulation of walls and ceilings.

3. Manufacturer:

PCC Prodex Sp. z o.o.

56-120 Brzeg Dolny, ul. Henryka Sienkiewicza 4

4. System of AVCP:

System 3

5. Harmonized standard:

EN 14315-1:2013-06

Notified body:

No 1488

Instytut Techniki Budowlanej
00-611 Warszawa, ul. Filtrowa 1

6. Declared performance:

Essential characteristics in accordance with PN-EN 14315-1:2013-06	Performance
Reaction to fire	Class E
Short-term water absorption by partial immersion, W_p	0,11 kg/m ²
Thermal resistance and thermal conductivity, declared aged heat transfer coefficient λ_D	One diffusion-tight lining For thickness $d_N < 40$ mm $\lambda_D = 0,028$ W/mK For thickness $40 \text{ mm} \leq d_N < 60$ mm $\lambda_D = 0,027$ W/mK For thickness $d_N \geq 60$ mm $\lambda_D = 0,026$ W/mK See Appendix 1
Water vapour diffusion resistance factor, μ	MU35
Compressive stress at 10% deformation, σ_{10}	CS(10\Y)150
Durability of reaction to fire against ageing/degradation	Does not decrease with time
Durability of thermal resistance against ageing/degradation	Aged heat transfer coefficient λ_D determined according to Annex C, predicting 25 years ageing
Durability of compressive strength against ageing/degradation	Does not decrease with time or improves due to air diffusion to foam cells
Continuous glow combustion	NPD

7. The performance of the product identified above is in conformity with the set of declared performance. 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:

Magdalena Wasielewska
Technologist

Brzeg Dolny, 16.10.2019

PCC PRODEX Spółka z o.o.
Technolog
M. Wasielewska
Magdalena Wasielewska

Prezes Zarządu
Krzysztof Bulka

Siedziba główna: Brzeg Dolny
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PCC. synergies at work

PCC PRODEX Sp. z o.o., ul. Sienkiewicza 4, 56-120 Brzeg Dolny

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Appendix 1. Insulation characteristics versus material thickness. One diffusion-tight lining.

$\lambda_D \left[\frac{W}{mK} \right]$	$d [mm]$	$R \left[\frac{m^2 K}{W} \right]$	$U \left[\frac{W}{m^2 K} \right]$
0,028	30	1,071	0,933
0,028	35	1,250	0,800
0,028	40	1,429	0,700
0,027	45	1,667	0,600
0,027	50	1,852	0,540
0,027	55	2,037	0,491
0,027	60	2,222	0,450
0,026	65	2,500	0,400
0,026	70	2,692	0,371
0,026	75	2,885	0,347
0,026	80	3,077	0,325
0,026	90	3,462	0,289
0,026	100	3,846	0,260
0,026	110	4,231	0,236
0,026	120	4,615	0,217
0,026	130	5,000	0,200
0,026	140	5,385	0,186
0,026	150	5,769	0,173
0,026	160	6,154	0,163
0,026	170	6,538	0,153
0,026	180	6,923	0,144
0,026	190	7,308	0,137
0,026	200	7,692	0,130
0,026	210	8,077	0,124
0,026	220	8,462	0,118
0,026	230	8,846	0,113
0,026	240	9,231	0,108
0,026	250	9,615	0,104
0,026	260	10,000	0,100
0,026	270	10,385	0,096
0,026	280	10,769	0,093
0,026	290	11,154	0,090
0,026	300	11,538	0,087

Materials with an oxygen diffusion level of less than 4.5 ml per 24 hours per m², measured at 20 ° C, in accordance with ASTM 3985 (e.g. metal sheet not less than 50 µm thick) are considered diffusion-tight. By. PN EN 14315-1: 2013-06 points C.5.1.

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Appendix 2. Dependence of thermal resistance on insulation thickness. Both facings open with diffusion.

$\lambda_D \left[\frac{W}{mK} \right]$	$d [mm]$	$R \left[\frac{m^2 K}{W} \right]$	$U \left[\frac{W}{m^2 K} \right]$
0,028	30	1,071	0,933
0,028	35	1,250	0,800
0,028	40	1,429	0,700
0,028	45	1,607	0,622
0,028	50	1,786	0,560
0,028	55	1,964	0,509
0,028	60	2,143	0,467
0,028	65	2,321	0,431
0,028	70	2,500	0,400
0,028	75	2,679	0,373
0,028	80	2,857	0,350
0,027	85	3,148	0,318
0,027	90	3,333	0,300
0,027	95	3,519	0,284
0,027	100	3,704	0,270
0,027	110	4,074	0,245
0,027	120	4,615	0,217
0,026	130	5,000	0,200
0,026	140	5,385	0,186
0,026	150	5,769	0,173
0,026	160	6,154	0,163
0,026	170	6,538	0,153
0,026	180	6,923	0,144
0,026	190	7,308	0,137
0,026	200	7,692	0,130
0,026	210	8,077	0,124
0,026	220	8,462	0,118
0,026	230	8,846	0,113
0,026	240	9,231	0,108
0,026	250	9,615	0,104
0,026	260	10,000	0,100
0,026	270	10,385	0,096
0,026	280	10,769	0,093
0,026	290	11,154	0,090
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