

DECLARATION OF PERFORMANCE n. 04 CPR 01/07/2013

1.	Unique identification code of the product-type: SUPERCEL® ALUMEN is a high performance rigid thermoset with resin insulation core, an aluminum vapor barrier foil facing on the upper side and a saturated glass tissue facing on the lower side.
2.	Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: Thermal insulation for residential, commercial and industrial building.
3.	Name and contact address of manufacturer: Resine Isolanti O. Diena S.r.l. Viale Zanotti, 86 - 27027 Gropello Cairoli (PV) - IT T. + 39 0382.81.59.79 - info@resineisolanti.com
4.	System of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V: System 3
5.	In case of declaration of performance concerning a construction product covered by a harmonized standard: CSI S.p.a. Viale Lomabardia, 20 - 20021 Bollate (MI) - IT T. + 02 383.301 - info@csi-spa.com
6.	Declared performances (cont. also on page 2 of 3)

THERMAL CONDUCTIVITY AND THERMAL RESISTANCE EN 13166:2012+A2:2016

Thickness (d _N)	mm	25	30	40	50	60	70	80	90	100	120	130	140	150	160	
Thermal conductivity λ_D	W/mK	0,021							0,019							
Thermal resistance R	m ² K/W	1,19	1,43	1,90	2,38	2,86	3,33	4,21	4,74	5,26	6,32	6,84	7,37	7,89	8,42	
Thermal resistance R_D	m²K/W	1,15	1,40	1,90	2,35	2,85	3,30	4,20	4,70	5,25	6,30	6,80	7,35	7,85	8,40	
Trasmittanza termica U _D	W/m ² K	0,87	0,71	0,53	0,43	0,35	0,30	0,24	0,21	0,19	0,16	0,15	0,14	0,13	0,12	
Durability of Thermal Resistance against heat, weathering, aging / degradation				Determination of the aged values of thermal resistance and thermal conductivity								R _D & λ _D				

6.	Declared performances (cont.)																
CHARACTERISTICS AND PERFORMANCES - [EN 13166:2012+A2:2016]																	
PROPERTIES	NORMS	UNITS	UNITS								CODE						
Thickness (d _N)		mm	25	30	40	50	60	70	80	90	100	120	130	140	150	160	
Thickness tolerance	EN 823	mm	-2 / +2		-2 / +3				-2 / +5					[T1]			
Length	EN 822	mm	600 up to 4800									-					
Width	EN 822	mm	1200									-					
Compressive strength	EN 826	kPa	≥ 150									[CS(Y)150]					
Dimensional stability	EN 1604	%	Thickness: 48 hrs at (70 ± 2) °C & relative humidity of (90 ± 5)% / 48 hrs at -20°C Length & Width: 48 hrs at (70 ± 2) °C & relative humidity of (90 ± 5)% / 48 hrs at -20°C									[DS(70,90)]; [DS(-20,-)]					
												≤ 1,5					
												≤ 1,5		[DS(70,90)]; [DS(20,-)]			
Water absorption by immersion	EN 1609	kg/m ²	≤ 1									[WS2]; [WL(P)4]					
Water vapor permeability and transmission	EN 12086	μ	> 10000									-					
Reaction to fire	EN 13501-1	Euroclass	C s ₁ d ₀									RtF					
Fire propagation	BS 476-6		Index (I) not exceeding 12* Sub-index (i ₁) not exceeding 6*									-					
Flame spread	BS 476-7		Class 1*									-					
Durability of reaction to fire against heat, weathering, aging / degradation			The reaction to fire performance of the product, as above, does not change with time														
Operating temperature range		°C	-50 / +120									-					
Specific heat capacity		J/kg K	1750									-					
Apparent mass	EN 1602	kg/m ³	35 ± 1,5									[AD35]					
Closed cell content	EN ISO4590	%	-									[CV]					
Tensile strength	EN 1607	kPa	NPD									-					
Compressive creep	EN 1606	%	NPD									-					
Bending strength	EN 12089	kPa	NPD									-					
Release of dangerous substances			No harmonized standard - conducted VOC tests									-					
Continuous glowing combustion			A harmonized standard is under development									-					

*the results of the tests to BS 476-6:1989+A1: 2009 and BS 476-7: 1997, demonstrate that the product, as tested, **complies with the requirements for Class 0**, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000

DESIGNATION CODE



PF - EN 13166
T1 - DS(70,90) - DS(-20,-) - CS(10/Y)150 - WS2 - WL(P)4 - AD35 - CV

DoP n. 04 CPR 01/07/2013

7.	The performance of the product identified in point 1 is in conformity with the declared performance as listed in point 6 - tables “ Characteristics and Performance ” & “ Thermal conductivity and Thermal resistance ” - assessed under the harmonized standard EN 13166:2012+A2:2016
8.	This declaration of performance is issued under the responsibility of the manufacturer identified in point 3.

Milan, 10/05/2019

Signed for and behalf of the manufacturer by:

Marco Diena
Chief Executive Officer

RESINE ISOLANTI O. DIENA S.r.l.

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

TOLERANCES AND NOTES

Notes	Stability to the temperature	SUPERCCEL® performs well in in both extremely hot and extremely cold environments. With a temperature range of - 50°C e + 120°C.
	Aspect	Any possible little areas of non-adhesion between coats and foam are originated by the production process and don't prejudice in any way the physical-mechanical properties of the panels.

MORE INFORMATION

More information	<p>For more Information not present in this sheet, please contact the technical office of Resine Isolanti O. Diena S.r.l. Viale Zanotti, 86 - 27027 Gropello Cairoli (PV) - IT - T. + 39 0382.81.59.79 info@resineisolanti.com</p>
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