

## DECLARATION OF PERFORMANCE

### n. 04 CPR 01/07/2013

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

## THERMAL CONDUCTIVITY AND THERMAL RESISTANCE

### EN 13166:2012+A2:2016

Thickness (d <sub>N</sub> )	mm	25	30	40	50	60	70	80	90	100	120	130	140	150	160	
<b>Thermal conductivity λ<sub>D</sub></b>	<b>W/mK</b>	<b>0,021</b>							<b>0,019</b>							
Thermal resistance R	m <sup>2</sup> 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	
<b>Thermal resistance R<sub>D</sub></b>	<b>m<sup>2</sup>K/W</b>	<b>1,15</b>	<b>1,40</b>	<b>1,90</b>	<b>2,35</b>	<b>2,85</b>	<b>3,30</b>	<b>4,20</b>	<b>4,70</b>	<b>5,25</b>	<b>6,30</b>	<b>6,80</b>	<b>7,35</b>	<b>7,85</b>	<b>8,40</b>	
Trasmittanza termica U <sub>D</sub>	W/m <sup>2</sup> 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 <sub>D</sub> & λ <sub>D</sub>				

6. Declared performances (cont.)

**CHARACTERISTICS AND PERFORMANCES  
EN 13166:2012+A2:2016**

PROPERTIES	NORMS	UNITS	VALUES																CODE																
			25	30	40	50	60	70	80	90	100	120	130	140	150	160																			
Thickness (d <sub>N</sub> )		mm																																	
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)% Thickness: 48 hrs at -20°C  Length & Width: 48 hrs at (70 ± 2) °C & relative humidity of (90 ± 5)% Length & Width: 48 hrs at -20°C																[DS(70,90)]; [DS(-20,-)]																
																			≤ 1,5 %																[DS(70,90)]; [DS(20,-)]
																			≤ 1,5 %																[DS(70,90)]; [DS(20,-)]
Water absorption by immersion	EN 1609 EN 12087	kg/m <sup>2</sup>	≤ 1																[WS2]; [WL(P)4]																
Water vapor permeability and transmission	EN 12086	μ	40																-																
Reaction to fire	EN 13501-1	Euroclass	B s <sub>1</sub> d <sub>0</sub>																RtF																
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 <sup>3</sup>	35 ± 1,5																[AD35]																
Closed cell content	EN ISO4590	%	-																[CV]																
Tensile strength	EN 1607	kPa	70																[TR70]																
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																-																	

## DESIGNATION CODE



PF - EN 13166  
T1 - DS(70,90) - DS(-20,-) - CS(10/Y)150 - WS2 - WL(P)4 - AD35 - TR70 - CV

## DoP n. 04 CPR 01/07/2013

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

Milan, 25/08/2019

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	SUPERCEL® 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 <a href="mailto:info@resineisolanti.com">info@resineisolanti.com</a></p>
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