

DECLARATION OF PERFORMANCE

n. 04 CPR 01/07/2013

1. Unique identification code of the product-type:
SUPERCEL® VITRUM is a high performance rigid thermoset with a phenolic resin insulation core and glass tissue based facings covering both the upper and lower side of the panel.
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	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
Thermal conductivity λ_D	W/mK	0,021							0,019									
Thermal resistance R	m ² K/W	0,95	1,43	1,90	2,38	2,86	3,33	4,21	4,74	5,26	5,79	6,32	6,84	7,37	7,89	8,42	8,95	9,47
Thermal resistance R_D	m²K/W	0,95	1,40	1,90	2,35	2,85	3,30	4,20	4,70	5,25	5,75	6,30	6,80	7,35	7,85	8,40	8,90	9,45
Thermal transmittance U _D	W/m ² K	1,05	0,71	0,53	0,43	0,35	0,30	0,24	0,21	0,19	0,17	0,16	0,15	0,14	0,13	0,12	0,11	0,11
Durability of Thermal Resistance against heat, weathering, aging and 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	VALUES																	CODE
Thickness (d _N)		mm	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
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	%	<div>≤ 1,5 %</div>																	[DS(70,90)] [DS(-20,-)]
Thickness: 48hrs at (70 ± 2)°C & relative humidity of (90 ± 5)% / 48hrs at -20°C																				
Length & Width: 48hrs at (70 ± 2)°C & relative humidity of (90 ± 5)% / 48hrs at -20°C																				<div>≤ 1,5 %</div>
Water absorption by immersion	EN 1609 EN 12087	kg/m²	≤ 1																	[WS2] [WL(P)4]
Water vapor permeability and transmission	EN 12086	μ	40																	-
Reaction to fire	EN 13501-1	Euroclass	B s ₁ d ₀																	RtF
Durability of reaction to fire against heat, weathering, aging and 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/kgK	1750																	-
Apparent mass	EN 1602	kg/m³	35 ± 1,5																	[AD35]
Closed cell content	EN ISO4590	%	-																	[CV]
Tensile strength	EN 1607	kPa	≥ 80																	[TR80]
Compressive creep	EN 1606	%	NPD																	-
Bending strength	EN 12089	kPa	NPD																	-
Release of dangerous substances			No harmonized standard - conducted VOC tests																	-
Continuous glowing combustion			No harmonized standard - NPD																	-

DESIGNATION CODE



PF - EN 13166
T1 - DS(70,90) - DS(-20,-) - CS(10/Y)150 - WS2 - WL(P)4 - AD35 - TR80 - CV

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| 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, 30/10/2019

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	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
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