

TECHNICAL DATA SHEET

PRODUCT DETAILS

SUPERCCEL® 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.

The panel is available in the following standard dimensions:

1200 x 2400 mm

1200 x 600 mm

THERMAL CONDUCTIVITY λ_D	0,019 W/mK / 0,021 W/mK
SUGGESTED APPLICATION	Insulation of flat roofs under fixed synthetic membranes and/or cold bituminous membranes. Insulation for tiled or slanted pitched warm roofs. Insulation for walls and/or floors. External insulation system.
PROFILES	Standard flat profile edges or tongue and groove fastening system.
FACINGS	Saturated glass tissue on both faces.

CHARACTERISTICS AND PERFORMANCES - EN 13166:2016

PROPERTIES	NORMS	UNITS	VALUES															
			25	30	40	50	60	70	80	90	100	120	130	140	150	160		
Thickness		mm																
Thickness tolerance	EN 823	mm	-2/+2			-2/+3						-2/+5						
Length	EN 822	mm	600 up to 4800															
Width	EN 822	mm	1200															
Compressive strength	EN 826	kPa	≥ 150															
Dimensional stability	EN 1604	%																
		Thickness: 48 hrs at (70 ± 2) °C & relative humidity of (90 ± 5)%	≤ 1,5 %															
		Length & Width: 48 hrs at (70 ± 2) °C & relative humidity of (90 ± 5)%	≤ 1,5 %															
Water absorption by immersion	EN 1609	Kg/m ²	≤ 1															
Water vapor permeability and transmission	EN 12086	μ	40															
Reaction to fire	EN 13501-1	Euroclass	B s ₁ d ₀															
Operating temperature range		°C	-50 / +120															
Specific heat capacity		J/Kg K	1750															
Apparent mass	EN 1602	Kg/m ³	35 ± 1,5															

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				

TOLERANCES AND NOTES

Notes	Stability to the temperature	SUPERCCEL® performs well 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) - T. + 39 0382.81.59.79 info@resineisolanti.com</p>
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