


# POLIISO® VV

Polyisocyanurate rigid foam (PIR) panels faced, both sides, with a saturated glass veil

CHARACTERISTIC	NORM	UNIT	VALUES																								
<b>DIMENSIONS</b>																											
Thickness	EN 823	mm	20 - 140																								
Thickness tolerance class (T2)	EN 823 EN 13165	mm	Thickness < 50 mm																								
Thickness from 50 mm to 70 mm			-2 /+2																								
Thickness > 70 mm			-3 /+3																								
Length	EN 822	mm	1200																								
Width	EN 822	mm	600																								
<b>FINISHING</b>																											
Straight edges																											
<b>THERMAL CONDUCTIVITY AND THERMAL RESISTANCE</b>																											
Declared thermal conductivity	EN 13165 EN 12667	W/mK	Thickness from 20 mm to 40 mm																								
Thickness from 50 mm to 90 mm			0,027																								
Thickness from 100 mm to 140 mm			0,026																								
Declared thermal resistance (EN 13165)	<table border="1"> <tr> <td>Thickness (mm):</td> <td>20</td> <td>30</td> <td>40</td> <td>50</td> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> <td>120</td> <td>140</td> </tr> <tr> <td>Thermal resistance (m<sup>2</sup>K/W):</td> <td>0,74</td> <td>1,11</td> <td>1,48</td> <td>1,92</td> <td>2,31</td> <td>2,69</td> <td>3,08</td> <td>3,46</td> <td>4,00</td> <td>4,80</td> <td>5,60</td> </tr> </table>			Thickness (mm):	20	30	40	50	60	70	80	90	100	120	140	Thermal resistance (m <sup>2</sup> K/W):	0,74	1,11	1,48	1,92	2,31	2,69	3,08	3,46	4,00	4,80	5,60
Thickness (mm):	20	30	40	50	60	70	80	90	100	120	140																
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<b>COMPRESSIVE STRESS AT 10 % DEFORMATION - <math>\sigma_{10}</math></b>																											
Thickness from 20 mm to 140 mm	EN 826	kPa	≥ 150																								
<b>COMPRESSIVE CREEP AFTER 50 YEARS WITH CRUSHING ≤ 2 % - <math>\sigma_2</math></b>																											
Thickness from 20 mm to 140 mm	EN 1606	kPa	≥ 50																								
<b>DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS</b>																											
<u>Condition test: (48 ± 1) hours, (70 ± 2)°C e (90 ± 5)% U.R.</u>	EN 1604	%	Thickness change																								
			≤ 4																								
			Change in length and width																								
			≤ 1																								
<b>LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)</b>																											
Thickness from 20 mm to 140 mm	EN 12087	Vol. %	≤ 2																								
<b>WATER VAPOUR DIFFUSION RESISTANCE FACTOR (<math>\mu</math>)</b>																											
Thickness from 20 mm to 140 mm	EN 12086		30 - 50																								
<b>REACTION TO FIRE</b>																											
Reaction to fire	EN 13501-1	Euroclass	E																								

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