

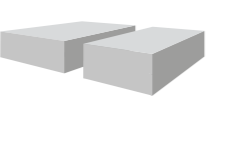
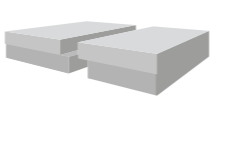
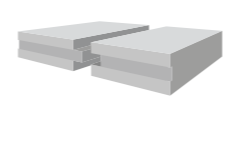


TECHNICAL CARD IZOPROOF® ALu INSULATION BOARDS

IZOPROOF®

IZOPROOF® ALu		Product details:				
Description of board:		The IZOPROOF® ALu insulation boards comprise of a PIR rigid foam thermal insulation core. The boards are protected on both sides with a gas tight aluminium foil lining thickness 50 µm. The board is intended for the insulation of flat roofs in the glued and mechanical system.				
Certificates / Approvals:		 				
CE mark	■					
ISO 9001, ISO 14001 System certificates	■					
Compatibility with EN 13165+A2 and EN 13172	■					
Tests of thermal properties ITB	■					
Fire classifications	■					
Admitted to trading in the EU	■					
		  				
		<table border="1"> <tr> <td>FIT (flat milling)</td> <td>LAP (stepwise milling)*</td> <td>TAG (tongue and groove)*</td> </tr> </table>		FIT (flat milling)	LAP (stepwise milling)*	TAG (tongue and groove)*
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		* dimensions of boards with joint types are 2 to 4 % smaller				
Information about product safety:		Information about substances contained in the product referred to in Art. 31 and 33 of the Regulation (CE) No.1907/2006 (REACH): Not applicable.				
Instruction:		<p>Boards can be installed in one or multiple layers in an interlocking manner. Boards should fit tightly to each other. The substructure needs to be stable.</p> <p>Install mechanically with fasteners, glue or suspend - depending on the kind of substructure and type of waterproofing. Prevent from pulling the fasteners through the board. Secure against the impact of weather conditions. The boards are not load-bearing elements.</p> <p>Additional information is available in the Technical Catalogue at the website www.termpir.eu</p>				

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Kind of core:		Rigid polyisocyanurate foam (PIR)																																																				
Apparent PIR core density:		$\rho = 30 \text{ kg/m}^3$																																																				
Declared heat transfer coefficient for lining:		for $(20 \leq d_n \leq 250 \text{ mm})$: $\lambda_D = 0,022 \text{ (W/m}\cdot\text{K)}$																																																				
Standard board dimensions [mm]:		600 x 1200 / 1200 x 2400 (minus the depth of the joint)																																																				
Available boards dimensions [mm]:		1000 x 1200 / 1200 x 1200 / 1200 x 1800 / 1200 x 3000 (minus the depth of the joint)																																																				
		<table border="1"> <tr> <td colspan="2">Coefficient: $U \text{ [W/m}^2\cdot\text{K]}$, w_g $U = 1 / (R_e + R_D + R_i)$</td> <td colspan="2"></td> </tr> <tr> <td rowspan="2">For a given nominal thickness [mm]</td> <td>Thermal resistance: $R_D \text{ [m}^2\cdot\text{K/W]}$</td> <td>20</td> <td>30</td> </tr> <tr> <td></td> <td>0,96</td> <td>0,67</td> </tr> <tr> <td rowspan="2">60</td> <td rowspan="2">0,35</td> <td>40</td> <td>50</td> </tr> <tr> <td>1,85</td> <td>2,30</td> </tr> <tr> <td rowspan="2">70</td> <td rowspan="2">0,29</td> <td>80</td> <td>90</td> </tr> <tr> <td>3,70</td> <td>4,15</td> </tr> <tr> <td rowspan="2">100</td> <td rowspan="2">0,21</td> <td>120</td> <td>130</td> </tr> <tr> <td>5,55</td> <td>6,05</td> </tr> <tr> <td rowspan="2">140</td> <td rowspan="2">0,15</td> <td>160</td> <td>170</td> </tr> <tr> <td>7,45</td> <td>7,90</td> </tr> <tr> <td rowspan="2">180</td> <td rowspan="2">0,12</td> <td>200</td> <td>210</td> </tr> <tr> <td>9,30</td> <td>9,75</td> </tr> <tr> <td rowspan="2">220</td> <td rowspan="2">0,10</td> <td>240</td> <td>250</td> </tr> <tr> <td>11,15</td> <td>11,60</td> </tr> <tr> <td colspan="2"></td> <td>10,75</td> <td>0,09</td> </tr> </table>		Coefficient: $U \text{ [W/m}^2\cdot\text{K]}$, w_g $U = 1 / (R_e + R_D + R_i)$				For a given nominal thickness [mm]	Thermal resistance: $R_D \text{ [m}^2\cdot\text{K/W]}$	20	30		0,96	0,67	60	0,35	40	50	1,85	2,30	70	0,29	80	90	3,70	4,15	100	0,21	120	130	5,55	6,05	140	0,15	160	170	7,45	7,90	180	0,12	200	210	9,30	9,75	220	0,10	240	250	11,15	11,60			10,75	0,09
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Compressive strength at 10% of deformation:		CS(10/Y)120																																																				
Flatness after one-sided moisting:		$\leq 10 \text{ mm} / \text{FW2}$																																																				
Long-term absorption upon complete immersion:		$\leq 2 \text{ \% [kg/kg]} / \text{WL(T)2}$																																																				
Dimensional stability:		for $(20 \leq d_n < 50 \text{ mm})$: DS(70,-)1 for $(50 \leq d_n \leq 250 \text{ mm})$: DS(-20,-)2 / DS(70,90)3																																																				
Reaction to fire (of the product as placed on the market):		E - IZOPROOF® ALu (20-49: F class, 50-250: E class)																																																				

Insulation boards from G6r-Stal

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Buildings:	Intended use of the board:	
residential, high density housing	on rafter insulation system on pitched roofs	<input type="checkbox"/>
residential	under rafter insulation system on pitched roof	<input type="checkbox"/>
residential, retail and industrial	build Up Roofs [BUR] - Flat roofs, mechanically fastened	<input checked="" type="checkbox"/>
residential, retail and industrial	build Up Roofs [BUR] - Flat roofs, adhesive or glued systems	<input checked="" type="checkbox"/>
residential, retail and industrial	triple layered external walls - cavity walls	<input type="checkbox"/>
residential, retail and industrial	double layered external walls - ETICS system	<input type="checkbox"/>
residential, retail and industrial	basement and foundation walls	<input type="checkbox"/>
residential, retail and industrial	partition walls	<input type="checkbox"/>
residential, retail and industrial	slabs between floors	<input type="checkbox"/>
residential, retail and industrial	ground floor slabs	<input type="checkbox"/>
ivestock, industrial	suspended ceilings - high pressure washable	<input type="checkbox"/>
existing, historic, stair-cores	internal wall insulation	<input type="checkbox"/>
prefabricated concrete walls	highly resistant to corrosion caused by concrete	<input type="checkbox"/>

the board recommended for use boards that can be used boards that can not be used