

# Technical data sheet

## BauderVIP TE Standard



V10 08.05.2024

<b>Product description</b>	BauderVIP TE is a vacuum insulated panel with a high thermal performance. The good insulating properties achieved by this product come from the high-performance pyrogenic silica core. This core is surrounded by a multi-layer high-barrier film, and then the air is removed from the silica so that a vacuum is created. The vacuum core is then protected on the top side by a high-density 17mm PIR and the underside is protected by a 3mm rubber granule mat. Available in two sizes of 1000mm x1000mm and 1000mm x 500mm and two thicknesses, 60mm or 80mm.		
<b>Application fields</b>	Thermal insulation under waterproofing for use in areas with limited upstand height and is ideally suited to balconies and terraces. Can also be used as a packer board in tapered schemes to boost average U Value. A Bauder specific project design and calculation must be completed to confirm the overall U-value achieved for the entire roof. The VIP TE boards cannot be cut, as this will affect the insulating properties of the vacuum core.		
<b>Facing</b>	top:	BauderPIR 17 mm	
	bottom:	Rubber granule mat 3 mm	
<b>Core</b>	VIP core 40mm or 60mm		
<b>Board edge</b>	Straight, not rebated.		
<b>European Technical Assessment Number</b>	13 / 0493		
<b>Article Number (Thickness)</b>	30260060 = 1000mm x 1000mm x 60mm 30260065 = 1000mm x 500mm x 60mm 30260080 = 1000mm x 1000mm x 80mm 30260085 = 1000mm x 500mm x 80mm		

Characteristic	Test method	Unit	Value
<b>Length &amp; Width</b>	EN 822	mm	1000 x 1000, 1000 x 500
<b>Thickness of VIP core</b>	EN 823	mm	40, 60
<b>Thickness of PIR top layer</b>	EN 823	mm	17
<b>Thickness of rubber granule mat</b>	-	mm	3
<b>Mass per unit area</b>		kg/m <sup>2</sup>	13 for 60mm panel 17 for 80mm panel
<b>Reaction to fire</b>	EN 13501 - 1	Class	E
<b>Compressive Strength 10% compression</b>	EN 826	-	0.19 N/mm <sup>2</sup> 190kPa 19,000kg/m <sup>2</sup>
<b>Thermal conductivity (λ<sub>D</sub>) - (EU) VIP core</b>	EN 12667	W/mK	0.0072
<b>Ageing supplement</b>		W/mK	0.0021
<b>Thermal conductivity (λ<sub>D</sub>) - (EU) BauderPIR</b>	EN 12667	W/mK	0.028
Characteristic	Test method	Unit	Value
<b>U Value 60mm panel</b>	-	W/(m <sup>2</sup> K)	0.157
<b>U Value 80mm panel</b>	-	W/(m <sup>2</sup> K)	0.107



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<b>Product surface finish</b>	When equipment/plant is to be located on the finished roof a maximum permanent load of 2,400Kg/m <sup>2</sup> (24 kPa) (24KN/m <sup>2</sup> ) can be supported with a 2% compression expected. Please refer to the Bauder Installation Guide and project specification for installation guidance.
<b>Product storage guidance</b>	Store the materials outdoors with suitable robust UV resistant, flame-retardant tarpaulin. Ensure the product(s) are clear of buildings and any other storage areas. The products must not be exposed to a direct naked flame or other ignition sources, or to solvents or other chemicals. All insulation boards must be kept dry, on pallets and off the ground. The packaging of Bauder Insulation products should not be considered adequate for weather protection. Where there are storage containers on site, these may be suitable for storing products.
<b>Packaging material</b>	The product will be delivered on wooden pallets (readily recyclable) with shrink wrap (80% re-cycled material & readily recyclable) and PET plastic ties (100% re-cycled content & readily re-cyclable) with cardboard (readily recyclable) around the edges and paper (readily recyclable) between layers to protect the product.
<b>Handling/PPE</b>	All persons using the product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using the product, installers should be provided with, and wear, suitable personal protective equipment.
<b>Shelf life</b>	When stored correctly, the product has no stated shelf life.
<b>Disposal guidance</b>	Rigid polyurethane foam waste can be disposed of with household waste or commercial waste similar to household waste (European waste catalogue EWC number 170604 "Insulation material"). Disposing of any waste material must be carried out in accordance with national regulations. Recommended EWC waste codes: 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.
<b>Further information/documents</b>	Current documents such as DoC's, DoP's (where relevant), brochures, installation guides, etc. can be found by visiting <a href="http://www.bauder.co.uk">www.bauder.co.uk</a>
<b>Certification and environmental information</b>	<p><b>European Technical Approval:</b> ETA-13/0493</p> <p><b>International Standards Organisation (ISO):</b> ISO 9001:2015 Quality Management Certificates EN1271 (UK) and 70499/03-15_e (Germany)</p> <p>ISO 14001:2015 Environmental Management Certificates A10552 (UK) and 70499/03-15_d (Germany)</p> <p>ISO 50001: 2011 Energy Management Certificate 70499/03-15_c (Germany)</p> <p><b>Ozone depletion potential (ODP):</b> Zero</p>
<b>Safety Data Sheet</b>	Safety Data Sheets are designed to provide the necessary information to recipients of substances and mixtures in the EU & UK. This product is classed as an article; therefore, this product does not have a requirement for a Safety Data Sheet.



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