

 	<b>Thermocore Panel Product Data Sheet</b>	<b>Ref</b>	<b>QP-03 - RD-031</b>
		<b>Issue</b>	<b>03</b>
		<b>Issue Date</b>	<b>08/06/22</b>
<b>Approved by</b>	<b>Gavin Rees</b>	<b>Page</b>	<b>Page 1 of 2</b>

#### Product Highlights

- |                        |               |
|------------------------|---------------|
| ✓ Excellent insulation | ✓ Easy to cut |
| ✓ Lightweight          | ✓ Durable     |
| ✓ Thermally efficient  | ✓ Hygienic    |
| ✓ Clean room ready     |               |

#### Standard Specification

- |   |   |
|---|---|
| - 1190mm module width   | - White Polyester lining 0.5mm gauge                                      |
| - Architecturally flat, V-rib, micro-rib, and castellation profiles | - White Polyester lining 0.7mm gauge                                      |
| - PIR C32 (32kg/m <sup>3</sup> density) – TC32                      | - Minimum panel length – 1.8m (shorter lengths subject to cutting charge) |
| - PIR C40 (40g/m <sup>3</sup> density) – TC40                       | - All panel lengths subject to technical verification                     |

#### Product Tolerances \*

Length	Width	Thickness	Corners	Flatness	Joint Gap
± 10mm	± 2mm	± 1mm	+2mm/-0mm	1.5mm from the theoretical flat plane over a distance of 700mm	+3mm/-0mm

#### Insulation Test Results

Panel Thickness (mm)	TC C32		Panel Thickness (mm)	TC 40	
	U-value	R-value		U-value	R-value
	Wm <sup>-2</sup> K <sup>-1</sup>	m <sup>2</sup> K/W		Wm <sup>-2</sup> K <sup>-1</sup>	m <sup>2</sup> K/W
40	0.5	1.99	100	0.21	4.72
50	0.41	2.44	125	0.17	5.85
75	0.28	3.58	150	0.14	6.99
			175	0.12	8.12
			200	0.11	9.26

#### Weighted Sound Reduction (dB)

Core Thickness (mm)	TC 32	Panel Weight Per KG/M <sup>2</sup>	TC 40	Panel Weight Per KG/M <sup>2</sup>
40	19	8.92		
50	20	9.56		
75	21	10.2		
100			22	11.64
125			24	12.64
150			25	13.64
175			26	14.64
200			27	15.64

\* product is produced strictly to EN14509 manufacturing tolerances

#### Application

Thermocore is an insulated wall and ceiling panel offering exceptional u-values, mechanical stability and excellent flatness.

Suitable for clean rooms as well as temperature-controlled applications, the Thermocore range is versatile, lightweight and easy to install.

Thermocore panels have a PIR core. This closed cell foam has excellent thermal performance, good shear and tensile strength, relative to its weight. These benefits make our insulated panels ideal for freezers, chill stores and areas of high humidity.

#### Contact



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## ISOCLAD Thermocore Panel

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