



Hermetel Oy  
13

SFS EN 14509:2014

1.	<b>Product type</b>	Self-supporting metal faced sandwich panels				
2.	<b>Product name and identification of the construction product</b>	Hermetel 65 mm clean room panels Hermetel 80 mm cold room panels Hermetel 100 mm and 150 mm freezer room panels				
	<b>Product</b>	<b>Thickness</b>	<b>Weight</b> (0,6mm steel faces)	<b>Core material</b>	<b>Face materials</b>	<b>Coatings</b>
	Clean room panels	65 mm	13,5 kg/m <sup>2</sup>	PUR 42 kg/m <sup>3</sup>	Available options: • Hot-dip galvanized steel DX51D 0,6 mm or 0,7 mm  • Stainless steel 1.4301 / AISI 304 2B 0,6 – 1,0 mm	Options:  • Powder coated • Polyester coated • Uncoated
	Cold room panels	80 mm	14,5 kg/m <sup>2</sup>			
Freezer room panels	100 mm	15,5 kg/m <sup>2</sup>				
	150 mm	17 kg/m <sup>2</sup>				
3.	<b>Intended use of the product</b>	Walls and ceilings of cold storage rooms and clean rooms within the interiors of existing buildings.				
4.	<b>Name and contact address of the manufacturer</b>	Hermetel Oy Ollostentie 46, 16300 Orimattila, FINLAND				
5.	<b>System of assessment and verification of constancy of performance</b>	AVCP 3				
6.	<b>Notified body (hEN)</b> In case of the declaration of performance concerning a construction product covered by a harmonised standard	hEN: SFS EN 14509:2014  VTT Expert Services Oy (NB no.0809) have carried out testing of thermal conductivity, test report no.VTT-S04052- 13  TÜV Eesti OÜ (NB no.1526) have carried out testing of ignitability with single flame source (EN ISO 11925-2), test report no. 047-14TM and test report no. 050-14TM				
7.	<b>Declared Performances</b>					
<b>Characteristic</b>		<b>Performance</b>			<b>Harmonised standard</b>	
Thermal transmittance, (U-value)		<ul style="list-style-type: none"> <li>■ 65 mm: 0,36 W / m<sup>2</sup>K</li> <li>■ 80 mm: 0,29 W / m<sup>2</sup>K</li> <li>■ 100 mm: 0,24 W / m<sup>2</sup>K</li> <li>■ 150 mm: 0,16 W / m<sup>2</sup>K</li> </ul>			SFS EN 14509:2014	
Thermal conductivity, λ <sub>Declared</sub>		0,024 W/mK				

Tensile strength	0,04 MPa	SFS EN 14509:2014
Shear strength	0,09 MPa	
Shear modulus (core material)	2,9 MPa	
Reduced shear strength after long term load (100 000 h)	0,045 MPa	
Compressive strength (core material)	0,15 MPa	
Bending resistance in span	NPD	
Wrinkling stress	NPD	
Creep coefficient	NPD	
Reaction to fire (Building material's fire classification (according to SFS-EN 13501-2))	Class E - Products capable of resisting SFS-EN ISO 11925-1 small flame attack test without substantial flame spread.	
Fire resistance	NPD	
Water permeability	NPD	
Air permeability	NPD	
Water vapor permeability	Impermeable	
Airborne sound insulation, $R_w$ (C ; $C_{tr}$ )	<ul style="list-style-type: none"> <li>■ 65-100 mm: 26 dB (-3; -4)</li> <li>■ 150 mm: 27 dB (-3; -5)</li> </ul>	
Sound absorption	NPD	
Resistance to point and access loads (ceilings)	PASS – Temporary maintenance access only, max 120 kg. Max span 3,6m.	
Dimensional tolerances	PASS	

The performance of the product identified in points 1 and 2 is in conformity with the declared performances in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

**Place and date:**

Orimattila, 6.8.2019




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Juha Ritala  
Director, Hermetel Oy