

Declaration of Performance
HERMETEL OY

No.E1-0009-ENG

1.	Product type	Self-supporting metal faced sandwich panels				
2.	Product name and identification of the construction product	Hermetel 65 mm clean room panels Hermetel 80 mm cold room panels Hermetel 100 mm and 150 mm freezer room panels				
	Product	Thickness	Weight <small>(0,6mm steel faces)</small>	Core material	Face materials	Coatings
	Clean room panels	65 mm	13,5 kg/m ²	PUR 42 kg/m ³	Available options: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Powder coated • Polyester • Uncoated
	Cold room panels	80 mm	14,5 kg/m ²			
Freezer room panels	100 mm	15,5 kg/m ²				
	150 mm	17 kg/m ²				
3.	Intended use of the product	Walls and ceilings of cold storage spaces and clean rooms within the interiors of existing buildings.				
4.	Name and contact address of the manufacturer	Hermetel Oy Ollostentie 46, 16300 Orimattila, FINLAND				
5.	System of assessment and verification of constancy of performance	AVCP 3				
6.	Notified body (hEN) 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.	Declared Performances					
Characteristic		Performance			Harmonised standard	
Thermal transmittance, (U-value)		<ul style="list-style-type: none"> ■ 65 mm: 0,36 W / m²K ■ 80 mm: 0,29 W / m²K ■ 100 mm: 0,24 W / m²K ■ 150 mm: 0,16 W / m²K 			SFS EN 14509:2014	


Thermal conductivity, $\lambda_{\text{Declared}}$	0,024 W/mK	
Tensile strength	0,06 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)	0,14 MPa	
Bending resistance in span	NPD	
Wrinkling stress	NPD	
Creep coefficient	NPD	
Reaction to fire	F	
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"> ■ 65-100 mm: 26 dB (-3; -4) ■ 150 mm: 27 dB (-3; -5) 	
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, 22.1.2018



Juha Ritala
Director, Hermetel Oy