



Declaration of Performance

No: SIPS02-CPR-2017-08-03

1. **Unique identification code of the product type:**
Hemsec SIPs panel

See tables hereunder...
2. **Intended use:**
Load- bearing thermal insulation SIPs for building as per ETAG 019.
For external walls, internal walls and roofs.
3. **Manufacturer:**
Hemsec Manufacturing Ltd
Stoney Lane,
Rainhill,
Prescot,
Merseyside.
L35 9LL
4. **Authorised Representative:**
N/A
5. **System of AVCP:**
System 1
- 6b. **European Assessment Document:**
ETAG 019
European Technical Assessment
17-0517
Technical Assessment Body
Exova BM Trada (NB 1224)
CE Certificate Number 1224-CPR-1130

7. Declared performance table: According ETAG 019

Table 1

Essential Characteristics	Performance	Unit	Declared Performance				
			100mm Hemsec SIPs Panel 15mm either side	125mm Hemsec SIPs Panel 15mm either side	150mm Hemsec SIPs Panel 15mm either side	175mm Hemsec SIPs Panel 15mm either side	200mm Hemsec SIPs Panel 15mm either side
Product name and overall thickness							
OSB thickness							
External walls	Vertical load capacity*	kN	80	80	80	80	80
	Horizontal load capacity*	kN	3.03	4.12	5.2	6.29	7.37
	Combined vertical/Horizontal load capacity**	Vertical (kN/m) Horizontal (kPa)	50 1.66	50 3.09	80 2.77	80 2.63	80 1.66
	Racking load capacity***	kN	17.0	17.0	17.0	17.0	17.0
	Characteristic pull-out capacity a. for Spax screws*****	kN	0.696	0.696	0.696	0.696	0.696
	Shear capacity b. for nails*****	kN	0.74	0.74	0.74	0.74	0.74
Internal loadbearing walls	Vertical load capacity*	kN	80	80	80	80	80
	Racking load capacity***	kN	17.0	17.0	17.0	17.0	17.0
Roof structures	Snow and/or wind load capacity *****	kPa	1.72	2.55	3.66	4.32	5.37
	Concentrated imposed load capacity		NPD	NPD	NPD	NPD	NPD
	Horizontal bending on edge load capacity		NPD	NPD	NPD	NPD	NPD
	Characteristic pull-out capacity a. for Spax screws *****	kN	0.696	0.696	0.696	0.696	0.696
	Shear capacity b. for nails*****	kN	0.74	0.74	0.74	0.74	0.74
	Reaction to fire	Classification according to Euroclasses in EN 13501-1		D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0
Resistance to fire	Classification according to EN 13501-2		NPD	NPD	NPD	NPD	NPD
External fire performance of roof covering	Classification according to prEN 13501-5		NPD	NPD	NPD	NPD	NPD
Water vapour permeability and moisture resistance	Assessed to be acceptable in relation to the intended use of the building and any limitations regarding climatic zones		NPD	NPD	NPD	NPD	NPD
Watertightness							
a) External envelope	Assessed to be acceptable in relation to any limitations regarding climatic zones		NPD	NPD	NPD	NPD	NPD
b) Internal surfaces	Assessed to be acceptable		NPD	NPD	NPD	NPD	NPD
Release of dangerous substances	Declaration of dangerous substances		NPD	NPD	NPD	NPD	NPD
Impact resistance	Assessed to be acceptable by judgement or measured Horizontal soft and hard body impact resistance of walls measured vertical impact load resistance of floors and roofs		NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	Weighted apparent sound reduction index for separating walls	Rw dB	44	44	44	44	44
	Weighted apparent sound reduction index for all other walls	Rw dB	37	37	37	37	37
	Weighted apparent sound reduction index for external walls and roof		NPD	NPD	NPD	NPD	NPD
Sound absorption	Sound absorption coefficient of internal surfaces		NPD	NPD	NPD	NPD	NPD
Thermal resistance & thermal transmittance	Exterior walls & roof, Rt	m2K/W	2.75	3.65	4.65	5.55	6.45
	Exterior walls & roof, Ut	W/m2K	0.36	0.27	0.21	0.18	0.15
	Windows and external doors		NPD	NPD	NPD	NPD	NPD
	Internal walls		NPD	NPD	NPD	NPD	NPD
Air permeability	Measured air leakage of type tested buildings and/or components		NPD	NPD	NPD	NPD	NPD
Thermal inertia	Information on relevant data		NPD	NPD	NPD	NPD	NPD
Aspects of durability	Assessed to be acceptable in relation to intended use and the effect on performance		Suitable for Service Classes 1&2	Suitable for Service Classes 1&2	Suitable for Service Classes 1&2	Suitable for Service Classes 1&2	Suitable for Service Classes 1&2
Aspects of serviceability	Maximum deflections at serviceability limit state related to the loadbearing capacities declared under ER 1		NPD	NPD	NPD	NPD	NPD
	Stiffness against floor vibrations		NPD	NPD	NPD	NPD	NPD
Identification	Values of appropriate identification parameters		NPD	NPD	NPD	NPD	NPD

Notes:

- * Values quoted for short term on 2.4m panels. No eccentricity is applied.
- ** Values quoted are for 50kN for 100 and 125mm thick panels and 80kN for 150,175 and 200mm thick panels. No vertical eccentricity is applied.
- *** Values quoted for on 2.4m panels
- ****Nail shear capacity as quoted from the Manual for the design of timber building structures to Eurocode 5
- ***** Values are for Pull-out Loads
- ***** Values are for 3.0m Span Short Term Loading (vertical infill panels or horizontal roof panels)

8. Appropriate Technical Documentation

The performance of the product identified above is in conformity with the set if declared performance/s. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Stephen Painter, Managing Director

Hemsec Manufacturing Ltd

on 03.08.2017