



Declaration of Performance number B-2485

## Declaration of Performance

No. LP125-CPR-2018/05/22

1. *Unique identification code of the product-type:*

Lindab Panel **PLUS**

2. *Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):*

- Thickness and Weight of Lindab Panel PLUS

Nominal Thickness	Actual Thickness	Weight
70 mm	68 mm	18 kg/m <sup>2</sup>
100 mm	97 mm	21 kg/m <sup>2</sup>
120 mm	117 mm	24 kg/m <sup>2</sup>
150 mm	148 mm	28 kg/m <sup>2</sup>
175 mm	168 mm	30 kg/m <sup>2</sup>
200 mm	197 mm	34 kg/m <sup>2</sup>
240 mm	237 mm	39 kg/m <sup>2</sup>
300 mm	297 mm	46 kg/m <sup>2</sup>

- Core Material: Rock wool
- Density: 125 kg/m<sup>2</sup>
- Steel Thickness: 0,5 mm / 0,6 mm / 0,7 mm
- Coating system: PE / HBP / HBPM / PVDF

3. *Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:*

- Fire partitioning wall, external and internal wall or ceiling

4. *Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):*

- Lindab Profil AB, Svartöns industriområde, 971 88 Luleå Sweden

5. *System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:*

- System 3 for all characteristics

6. *In case of the declaration of performance concerning a construction product covered by a harmonized standard:*

- RISE(SP) Research Institutes of Sweden, nr 0402, performed tests regarding Reaction to Fire, Fire Resistance, Water permeability, Air permeability and Durability.
- RISE(SP) Research Institutes of Sweden, nr 0402, performed Test reports, Performance reports and Classification reports according to system 3.

DOP Declaration of Performance sandwich panel mineral wool - PLUS.docx

## 7. Declared performance:

Essential characteristics	Performance Lindab Panel PLUS	Harmonized technical specification
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<b>Thermal transmittance</b>	Thickness	W/m <sup>2</sup> K	EN 14509:2013
	70 mm	0,61	
	100 mm	0,43	
	120 mm	0,36	
	150 mm	0,29	
	175 mm	0,26	
	200 mm	0,22	
	240 mm	0,18	
	300 mm	0,15	

<b>Mechanical resistance</b>	PLUS-panel	EN 14509:2013
Tensile strength	0,15 MPa (=15 ton/m <sup>2</sup> )	
Shear strength	0,09 MPa	
Shear modulus	6,0 MPa	
Compression strength	0,12 MPa	
Wrinkling stress, span	130 MPa	
Wrinkling stress, span ,t=240mm	120 MPa	
Wrinkling stress, span ,t=300mm	115 MPa	
Creep coefficient t=2000h	0,18	
Creep coefficient t=100 000h	0,22	

<b>Fire performance</b>			EN 14509:2013
Reaction to fire (Euro class)	B-s1,d0		
	Thickness	Resistance	
Fire resistance ceiling	120 mm	EI60*	max 4,4 meter
Fire resistance wall	70 mm	NPD	
	100 mm	EI30	
	120 mm	EI90	
	150 mm	EI180*	
	175 mm	EI180*	
	200 mm	EI180*	
	240 mm	EI180*	
Fire resistance wall with impact	200 mm	EI90-M	
	240 mm	EI90-M	
	300 mm	EI90-M	

\* Fire reinforced joint

<b>Permeability</b>			EN 14509:2013
Water permeability	Class A (1200 Pa)		
- Horizontal installation	Class A (1200 Pa)		
- Vertical installation			
Air permeability (50 Pa)			
- Horizontal installation	0,5 m <sup>3</sup> /m <sup>2</sup> /h (0,14 l/m <sup>2</sup> /s)		
- Vertical installation	0,8 m <sup>3</sup> /m <sup>2</sup> /h (0,23 l/m <sup>2</sup> /s)		
Water vapor permeability	NPD		



<b>Sound performance</b>	Thn=Thickness	EN 14509:2013
Sound reduction $R_w$	30 dB (Thn=100 mm)	
<b>Dimensional variation</b>	Passed	EN 14509:2013
<b>Durability</b>	Passed	EN 14509:2013

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance 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:

Carina Petersson  
Product Manager, Lindab Profil AB  
Luleå 2018/05/22