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EN 14509:2013

DECLARATION OF PERFORMANCE

No. 77

1. Product's unique identification code - type: **HPP FDD**

2. Type, batch, series number or any other element which allows identifying the construction product as it is required under article 11 paragraph(4):

Sound absorbtion sandwich panels, with both sides of metallic sheets (galvanised sheets) and mineral wool core.

Thickness 50 mm, galvanized sheet thickness 0,6; 0,5; 0,4 mm/ perforated galvanized sheet thickness 0,6mm and insulation of mineral wool: density 100 kg/mm³.

3. Intended uses for the construction product, in accordance with the applicable harmonized technical specifications as it is provided by the manufacturer:

Provided use: EXTERIOR WALLS

4. Social name or trademark and manufacturer's contact address as it is required under the article 11 paragraph(5):

**SC Impro SRL
Chisoda, DN 59, km 8+550 m stanga, jud. Timis
Tel: 0356 461 461, fax: 0356 461 460**

5. As applicable, name and authorised representative's contact address whose mandate covers the responsibilities specified at article 12 paragraph(2):

**SC Impro SRL
Chisoda, DN 59, km 8+550 m stanga, jud. Timis
Tel: 0356 461 461, fax: 0356 461 460**

6. System/verification and evaluation systems regarding the constant construction product performance as it is required in annex V:

System 3

7. Harmonized standard:

EN 14509:2013

8. Product's performances:

Characteristics	Standard testing	Standard provisions	Declared values
A. Mechanical properties for one metal face			
Tensile strenght for the zinc-coated sheet: σ_c – yield/flow strenght σ_r – tensile strenght A_{80} – elongation after tearing	SR EN 14509:2013	$\sigma_c = 228,6$ MPa $\sigma_r = 335,2$ MPa $A_{80} = 25,6$ % SR EN 10002/1-2002	Coil 0.6mm: $\sigma_c = 358,3$ MPa; $\sigma_r = 380,3$ MPa; $A_{80} = 21,6$ %
B. Mechanical properties for a panel and for the core material			
Shear strenght	SR EN 14509:2013 (A.3) EN 12090	$f_{cv} \geq 0.045$ MPa	$f_{cv} = 0,154$ MPa, 80mm panel
Shear modulus core	SR EN 14509:2013 (A.3) EN 12090	$G \geq 2.3$ MPa	$G = 6,08$ MPa, 80mm panel
Compressive strenght and modulus coere for the mineral wool	SR EN 14509:2013 (A.2) EN 826		$\sigma_{10} = 0,08$ MPa, 80mm panel
Transverse tensile strenght on the panel	SR EN 14509:2013 (A.1) SR EN 13162:2003	$f_{ct} \geq 0.018$ MPa	$f_{ct} = 0.1363$ MPa, 80mm panel
Acoustic insulation	SR EN 14509:2013 (A.14)		$R_w = 33$ dB; 50mm panel $R_w = 34$ dB; 80mm panel $R_w = 34$ dB; 100mm panel $R_w = 34$ dB; 150mm panel
Bending resistance in span – bending +	SR EN 14509:2013 (A.5)		$M_u = 2.90$ kNm/m for 80mm panel (opening 2.90m)*
Wrinkling stress (exterior face) – in span	SR EN 14509:2013 (E.7)		$\sigma_w = 72.5$ MPa for 80mm panel (opening 2.90m)*
Wrinkling stress(interior face)- in span	SR EN 14509:2013 (E.7)		$\sigma_w = 60.4$ MPa for 80mm panel (opening 4.90m)*
Thermal transmittance	SR EN 14509:2013 (5.2.2)		$U = 0,78$ W /(m^2K), 50mm panel $U = 0,50$ W /(m^2K), 80mm panel $U = 0,41$ W /(m^2K), 100mm panel $U = 0,34$ W /(m^2K), 120mm panel $U = 0,28$ W /(m^2K), 150mm panel
Durability	SR EN 14509:2013 (5.2.3), (B.3.5)	$f_{C17} - f_{C128} \leq 3(f_{C10} - f_{C17})$ $f_{C128} \geq 40\% f_{C10}$	Satisfy
Fire reaction	SR EN 14509:2013 (5.2.4.2)		class A1
Fire resistance	SR EN 14509:2013 (5.2.4.3)		EI 15 for 50mm panel EI 60 for 80mm panel EI 120 for 100mm panel EI 180 for 120mm panel EI 180 for 150mm panel
Water permeability	SR EN 14509:2013 (5.2.6)		Impervious, Class C
Air permeability	SR EN 14509:2013 (5.2.7)		Impervious
Water vapor permeability	SR EN 14509:2013 (5.2.8)		Impervious
Dimensional variation (geometrical parameters)	SR EN 14509:2013 (5.2.5) (Anexa D)		Satisfy

9. Product's performance identified at points 1 and 2 is in accordance with the performance declared at point 8. This declaration of performance is issued on the exclusive liability of the manufacturer identified at point 4.

Warranty – 2 years – available only if the montage, storage and handling instructions provided by the manufacturer are respected.

Signed for and in the name of the manufacturer by:

Filip Zadka
Technical director
Impro SRL, Timisoara

A handwritten signature in blue ink, appearing to read 'Zadka', is written below the printed name and title.