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EN 14509:2013

DECLARATION OF PERFORMANCE

No. 74

1. Product's unique identification code - type: **HPT MTD**

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

Self supporting isolating sandwich panels, with both sides of metallic sheets (galvanised sheets) and mineral wool core.

Thickness 100 mm, galvanized sheet thickness 0,6; 0,5; 0,4 mm; 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: ROOFS

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:

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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: $\sigma_c = 389$ 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	$f_{cv} = 0,148$ MPa, 80mm* panel
Shear modulus core	SR EN 14509:2013 (A.3) EN 12090	$G \geq 2,3$ MPa	$G = 5,96$ MPa, 80mm* panel
Creep coefficient	SR EN 14509:2013 (5.2.1.3)		$\phi_1 = 1.5$ at 2000h $\phi_1 = 4$ at 100 000h
Compressive strenght and modulus coere for the mineral wool	SR EN 14509:2013 (A.2) EN 826		$\sigma_{10} = 0,07$ 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	$f_{ct} = 0,129$ MPa, 80mm* panel
Bending resistance in span – bending +	SR EN 14509:2013 (A.5)		$M_u = 6,55$ kNm/m for 80mm panel (opening 4.90m)*
Wrinkling stress (exterior face) – in span - from temperature difference (tint=20 °; text=55°)	SR EN 14509:2013 (E.7)		$\sigma_w = 197$ MPa for 80mm panel (opening 4.90m)* $\sigma_w = 3,4$ MPa for 80mm panel (opening 4.90m)*
Wrinkling stress (interior face)- in span	SR EN 14509:2013 (E.7)		$\sigma_w = 117$ MPa for 80mm panel (opening 4.90m)*
Thermal transmittance	SR EN 14509:2013 (5.2.2)		$U = 0,81$ W/(m ² K), 50mm panel $U = 0,52$ W/(m ² K), 80mm panel $U = 0,42$ W/(m ² K), 100mm panel $U = 0,35$ W/(m ² K), 120mm panel $U = 0,29$ W/(m ² K), 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)		REI 30 for 50mm panel REI 60 for 80mm panel REI 120 for 100mm panel REI 120 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

