



18  
EN 14509:2013

## DECLARATION OF PERFORMANCE

No. 72

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 (galvanized sheets) and mineral wool core.**

**Thickness 60 mm, galvanized sheet thickness 0,6; 0,5; 0,4 mm; insulation of mineral wool: density 100 kg/mm<sup>3</sup>.**

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 1**

7. In declaration of performance's case, for a construction product covered by a harmonized standard:

**Societatea de certificare ICECON CERT SRL – Soseaua Pantelimon nr.266, sector 2, Bucuresti, Romania,  
Registru Numar:2204 – CPR – 0421**

8. In declaration of performance's case for a construction product for which there has been issued a technical european evaluation:

**EN 14509:2013**

9. Product's performances:

| Characteristics   | Standard testing                           | Standard provisions   | Declared values   |
|---|--|---|---|
| <b>A. Mechanical properties for one metal face</b>  |  |   |   |
| Tensile strenght for the zinc-coated sheet:<br>$\sigma_c$ – yield/flow strenght<br>$\sigma_r$ – tensile strenght<br>$A_{80}$ – elongation after tearing | SR EN 14509:2013                           | $\sigma_c = 228,6$ MPa<br>$\sigma_r = 335,2$ MPa<br>$A_{80} = 25,6$ %<br><br>SR EN 10002/1-2002 | Coil 0,6mm:<br><br>$\sigma_c = 389$ MPa;<br>$\sigma_r = 380,3$ MPa;<br>$A_{80} = 21,6$ %  |
| <b>B. Mechanical properties for a panel and for the core material</b>   |  |   |   |
| Shear strenght  | SR EN 14509:2013 (A.3)<br>EN 12090         | $f_{cv} \geq 0,045$ MPa   | $f_{cv} = 0,148$ MPa, 80mm* panel   |
| Shear modulus core  | SR EN 14509:2013 (A.3)<br>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<br>$\phi_1 = 4$ at 100 000h   |
| Compressive strenght and modulus coere for the mineral wool   | SR EN 14509:2013 (A.2)<br>EN 826           |   | $\sigma_{10} = 0,07$ MPa, 80mm* panel   |
| Transverse tensile strenght on the panel  | SR EN 14509:2013 (A.1)<br>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)*<br>$\sigma_w = 3,4$ 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 <sup>2</sup> K), 50mm panel<br>$U = 0,52$ W /(m <sup>2</sup> K), 80mm panel<br>$U = 0,42$ W /(m <sup>2</sup> K), 100mm panel<br>$U = 0,35$ W /(m <sup>2</sup> K), 120mm panel<br>$U = 0,29$ W /(m <sup>2</sup> K), 150mm panel |
| Durability  | SR EN 14509:2013 (5.2.3), (B.3.5)          | $f_{C17} - f_{C128} \leq 3(f_{C10} - f_{C17})$<br>$f_{C128} \geq 40\% f_{C10}$                  | 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<br>REI 60 for 80mm panel<br>REI 120 for 100mm panel<br>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   |

10. Product's performance identified at points 1 and 2 is in accordance with the performance declared at point 9. 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**

