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EN 14509:2013

## DECLARATION OF PERFORMANCE

No. 40

1. Product's unique identification code - type: **HPT TD5**

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 two metal boards(galvanised sheets) and polyurethane foam core, thickness 150 mm.**

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:

<b>Coefficient</b>	<b>Measure unit</b>	<b>Values</b>				
Thermal transmittance	W/m <sup>2</sup> k	Sheet thickness	04/04	05/04	05/05	06/05
			0,140	0,140	0,140	0,140
Thermal conductivity	W/mk	Sheet thickness	04/04	05/04	05/05	06/05
			0,021	0,021	0,021	0,021
<b>Mechanical resistance</b>						
Tensile strength	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			0,090	0,059	0,059	0,059
Shear strength	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			0,090	0,127	0,127	0,127
Long-term reduced shear modulus	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			0,040	0,0635	0,0635	0,0635
Shear modulus core	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			1,470	2,049	2,049	2,049
Compressive strength core	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			0,090	0,127	0,127	0,127
Creep coefficient		Sheet thickness	04/04	05/04	05/05	06/05
		t=2000h	2,4	0,74	0,74	0,74
		t=100 000h	7,0	1,15	1,15	1,15
<b>Bending resistance in span</b>						
Bending +	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			4,410	6,610	6,610	6,610
Bending + elevated temperature	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			4,140	2,710	2,710	2,710
Bending -	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			1,700	3,410	3,410	3,410
Bending - elevated temperature	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			1,600	1,390	1,390	1,390
<b>Bending resistance at an internal support</b>						
Bending +	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			1,940	4,090	4,090	4,090
Bending + elevated emperature	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			1,820	1,680	1,680	1,680
Bending -	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			3,270	4,820	4,820	4,820
Bending - elevated temperature	kNm/m	Sheet thickness	04/04	05/04	05/05	06/05
			3,060	1,980	1,980	1,980
<b>Wrinkling stress (ext. face)</b>						
In span	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			-	-	-	-
In span elevated temperature	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			-	-	-	-
At a central support	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			-	-	-	-
At a central support elevated temperature	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			-	-	-	-

Coefficient	Measure unit	Values				
Wrinkling stress (int. face) - In span	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			44	73	73	73
Wrinkling stress (int. face) - At a central support	Mpa	Sheet thickness	04/04	05/04	05/05	06/05
			46	89	89	89
Fire reaction		Sheet thickness	04/04	05/04	05/05	06/05
			C-s3,d0			
Fire resistance		Sheet thickness	04/04	05/04	05/05	06/05
			RE30/REI15			
Fire exposure to roof test		Sheet thickness	04/04	05/04	05/05	06/05
			FROOF			
Water Permeability		Sheet thickness	04/04	05/04	05/05	06/05
			IMPERVIOUS			
Air permeability		Sheet thickness	04/04	05/04	05/05	06/05
			IMPERVIOUS			
Water vapor permeability		Sheet thickness	04/04	05/04	05/05	06/05
			IMPERVIOUS			
Sound insulation		Sheet thickness	04/04	05/04	05/05	06/05
			NPD			
Sound absorption		Sheet thickness	04/04	05/04	05/05	06/05
			NPD			
Durability		Sheet thickness	04/04	05/04	05/05	06/05
			Satisfy DUR 1			

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**