



## DECLARATION OF PERFORMANCE

No. DoP TESLA TFV, TFV+, TFH, TK5 Pi

1. Unique identification code of the product-type: TESLA TFV, TFV+, TFH, TK5 Pi
2. Intended use/es:
  - Self-supporting double skin metal faced insulating sandwich panels.
  - Roofs and roof cladding,
  - External walls and wall cladding,
  - Walls (including partitions) and ceilings within the building envelope.
3. Manufacturer:  
Ivković Investemet Gropup doo Ratina, Vladislava Maržika 7, 36212 Ratina, Kraljevo, R Srbija  
Adresa proizvodnje: Tesla panels, Njegoševa 2D, 22310 Šimanovci, R Srbija
4. Authorised representative: Not applicable
5. System/s of AVCP:  
System 1 (resction to fire)  
System 3 (other properties)
6. Harmonised standard: 14509, Self-supporting double skin metal faced insulating panels - Factory made products  
- Specifications  
Certificate of constancy of performance issued by NB 1404-ZAG Ljubljana, No. **1404 - CPR - 3648**

Notified body/ies:  
1404 - ZAG Ljubljana

### Kancelarije

Milutina Milankovića 11  
11070 Novi Beograd

### Proizvodnja

Njegoševa 2d  
22310 Šimanovci



### Kontakt

+ 381 36 5110 110  
info@teslapanels.rs

### piB / mb

101071410  
07365705

7. Declared performance for TESLA TFV, TFV+, TFH, TK5 Pi

**MASS**

THICKNESS	TFV	TFV +	TFH	TK5	UNIT
100	11,53	11,81	11,8	12,27	kg/m <sup>2</sup>
120	12,34	12,62	12,61	13,08	
150	13,4	13,69	13,68	14,15	
200	15,58	15,86	15,85	-	

Note: mass calculated for steel sheet thickness combination 0,5 mm (external) and 0,4 mm (internal)

**MECHANICAL RESISTANCE**

**TESLA TFV, TFV+, TFH**

THICKNESS	SHEAR STRENGTH	SHEAR MODULS	COMPRESSIVE STRENGTH	TENSILE STRENGTH	UNIT
100	0,140	6,500	0,100	0,070	MPa
120	0,140	6,640	0,120	0,070	
150	0,140	6,850	0,120	0,070	
200	0,120	7,200	0,100	0,070	

**TESLA TK5**

THICKNESS	SHEAR STRENGTH	SHEAR MODULS	COMPRESSIVE STRENGTH	TENSILE STRENGTH	UNIT
100	0,140	10,300	0,120	0,070	MPa
120	0,140	7,780	0,120	0,070	
150	0,140	4,000	0,120	0,070	

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### THERMAL TRANSMITTANCE

THICKNESS	TFV	TFV+	TFH	TK5	UNIT
100	0,200	0,200	0,200	0,200	W/m <sup>2</sup> *K
120	0,170	0,170	0,170	0,170	
150	0,130	0,130	0,130	0,133	
200	0,100	0,100	0,100	-	

Note: thermal transmittance calculated for steel sheet thickness combination 0,5mm (external) and 0,4mm (internal)

### FIRE RESISTANCE

THICKNESS	WALL			ROOF	STANDARD
	VERTICAL	HORIZONTAL	STANDARD		
100	EI 30	EI 30 *	EN 1364 - 1 :2015	EI 30	EN 1364 - 2 :2014
120	EI 30	EI 30 *		EI 30	
150	EI 30	EI 30 *		EI 30	
200	EI 30	EI 30 *		-	

\*EI 30 for restrained top edge, for unrestrained top edge is EI 20

### OTHER CHARACTERISTICS – ALL THICKNESSES

CHARACTERISTICS	PROPERTIES	REFERENCE	
CORE TYPE, NOMINAL DENSITY	PIR THICKNESS 100 - 200 mm: 40 (30,6-41,4)	kg/m <sup>3</sup>	EN 14 509
THERMAL CONDUCTIVITY	0,020	W/mK	EN 14 509
EXTERNAL AND INTERNAL STEEL GRADE	S250GD		
EXTERNAL STEEL SHEET	0,5 - 0,7	mm	EN 10 346
INTERNAL STEEL SHEET	0,4 - 0,7	mm	
EXTERNAL COATING	SP, HDP, PUR, PVDF, PVC	EN 10 169	
INTERNAL COATING	SP, HDP, PUR, PVDF, PVC		
EXTERNAL STEEL SHEET PROFILATION FOR WALLS	"S" ; "M" ; "G"		
INTERNAL STEEL SHEET PROFILATION FOR WALLS	"S" ; "G"		
REACTION TO FIRE	B - s2, d0	EN 13 501-1	
SOUND ABSORPTION	NPD	dB	EN 14 509

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8. The performance of the product identified above is in conformity with the set of declared performance/s.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole Responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Jelena Uščumlić

Head of Quality control

Šimanovci, 05.07.2023

  
IVKOVIĆ | Investment Group  
doo  
Ratina

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