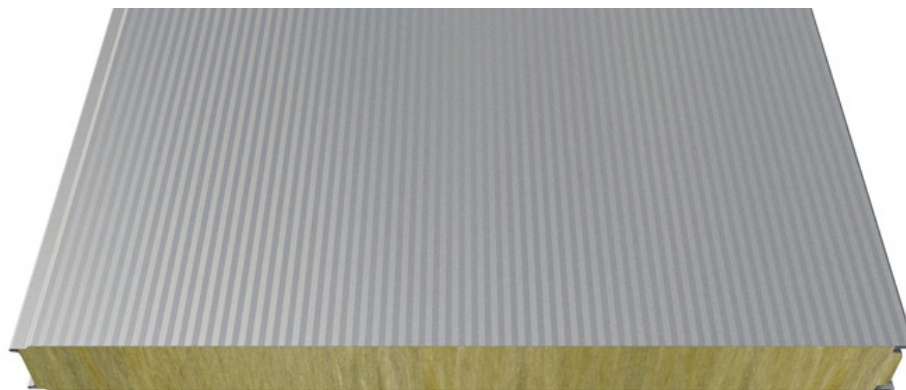
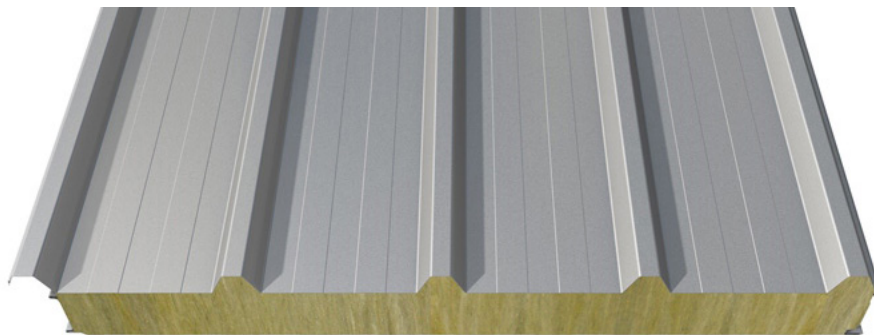


FischerFIREPROOF MW - Power T Declaration of Performance



DECLARATION OF PERFORMANCE

No. DoP Trimoterm Power T, 07.02.2020_en

1. Unique identification code of the product-type:

Trimoterm Power T, type FTV, FTV HL, SNV

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:

Trimo d.o.o., Prijateljeva cesta 12, 8210 Trebnje, Slovenia.

4. Authorised representative: Not applicable

5. System/s of AVCP:

System 1 (reaction to fire)

System 3 (other properties)

6a. Harmonised standard:

EN 14509:2013, 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 - 2115.

Notified body/ies:

1404 – ZAG Ljubljana

7. Declared performances for Trimoterm Power T, type FTV, FTV HL, SNV

MASS

THICKNESS	TYPE			REFERENCE
	FTV	FTV HL	SNV	
50	13,5	13,7	14,8	kg/m ²
60	14,4	14,6	15,7	
80	16,2	16,4	17,5	
100	18,0	18,2	19,3	
120	19,8	20,0	21,1	
133	21,0	21,2	-	
150	22,5	22,7	23,9	
172	24,5	24,7	25,9	
200	27,0	27,2	28,4	
220	29,8	29,0	-	
240	30,6	30,8	32,0	
250	31,5	31,7	-	

Note: mass calculated for steel sheet thickness combination 0,55 mm (external) and 0,5 mm (internal)

WRINKLING STRENGTH – EXTERNAL SIDE - IN THE SPAN

THICKNESS	PROFILE TYPE			REFERENCE	
	M	M3, M8, S, G, V, V2, V6	T		
50	108	94	313	MPa	EN 14509
60	110	94	313		
80	113	102	286		
100	117	110	258		
120	120	118	231		
133	122	118	-		
150	125	118	231		
172	129	118	231		
200	134	118	231		
220	138	112	-		
240	141	106	231		
250	143	103	-		

WRINKLING STRENGTH – EXTERNAL SIDE - IN THE SPAN (ELEVATED TEMPERATURE)

THICKNESS	PROFILE TYPE			REFERENCE	
	M	M3, M8, S, G, V, V2, V6	T		
50	100	87	313	MPa	EN 14509
60	102	87	313		
80	105	95	286		
100	109	102	258		
120	112	110	231		
133	113	110	-		
150	116	110	231		
172	120	110	231		
200	125	110	231		
220	128	104	-		
240	131	99	231		
250	133	96	-		

WRINKLING STRENGTH – EXTERNAL SIDE - AT CENTRAL SUPPORT

THICKNESS	PROFILE TYPE			REFERENCE	
	M	M3, M8, S, G, V, V2, V6	T		
50	86	75	313	MPa	EN 14509
60	87	74	313		
80	87	79	286		
100	88	83	258		
120	88	86	231		
133	87	84	-		
150	86	81	231		
172	86	79	231		
200	86	76	231		
220	86	69	-		
240	85	64	231		
250	84	61	-		

WRINKLING STRENGTH – EXTERNAL SIDE - AT CENTRAL SUPPORT (ELEVATED TEMPERATURE)

THICKNESS	PROFILE TYPE			REFERENCE	
	M	M3, M8, S, G, V, V2, V6	T		
50	80	70	313	MPa	EN 14509
60	81	69	313		
80	81	73	286		
100	82	77	258		
120	81	80	231		
133	81	78	-		
150	80	76	231		
172	80	74	231		
200	80	70	231		
220	80	65	-		
240	79	59	231		
250	78	57	-		

WRINKLING STRENGTH – INTERNAL SIDE - IN THE SPAN

THICKNESS	PROFILE TYPE			REFERENCE	
	M	M2	S, G, V, V2, V6		
50	-	126	94	MPa	EN 14509
60	-	129	94		
80	-	134	102		
100	-	140	110		
120	-	145	118		
133	-	144	118		
150	-	144	118		
172	-	143	118		
200	-	142	118		
220	-	141	112		
240	-	140	106		
250	-	140	103		

WRINKLING STRENGTH – INTERNAL SIDE - AT CENTRAL SUPPORT

THICKNESS	PROFILE TYPE			REFERENCE	
	M	M2	S, G, V, V2, V6		
50	-	113	85	MPa	EN 14509
60	-	115	84		
80	-	117	89		
100	-	119	94		
120	-	120	98		
133	-	117	96		
150	-	114	93		
172	-	110	91		
200	-	105	87		
220	-	102	81		
240	-	98	74		
250	-	97	71		

MECHANICAL RESISTANCE

THICKNESS	SHEAR STRENGTH	REDUCED LONG TERM SHEAR STRENGTH	SHEAR MODULUS (CORE)	COMPRESSIVE STRENGTH (CORE)	TENSILE STRENGTH	REFERENCE	
50	0,06	0,03	3,70	0,07	0,12	MPa	EN 14509
60	0,05	0,03	3,70	0,07			
80	0,05	0,03	3,70	0,07			
100	0,05	0,03	3,70	0,07			
120	0,05	0,03	2,70	0,07			
133	0,05	0,03	2,70	0,07			
150	0,05	0,03	2,70	0,07			
172	0,05	0,03	2,70	0,07			
200	0,04	0,02	2,70	0,06			
220	0,04	0,02	2,70	0,06			
240	0,04	0,02	2,70	0,06			
250	0,04	0,02	2,70	0,06			

CREEP COEFFICIENT (ALL THICKNESSES)

CREEP COEFFICIENT		REFERENCE
Creep coefficient 2 000 h	0,5	EN 14509
Creep coefficient 100 000 h	0,8	

THERMAL TRANSMITTANCE

THICKNESS	FTV, FTV HL	Ψ (FTV)	Ψ (FTV HL)	SNV	Ψ (SNV)	REFERENCE
50	0,71	0,034	0,046	0,69	0,018	W/m ² K EN 14509
60	0,60	0,020	0,027	0,59	0,013	
80	0,46	0,010	0,014	0,45	0,007	
100	0,37	0,006	0,008	0,37	0,005	
120	0,31	0,004	0,006	0,31	0,004	
133	0,28	0,003	0,005	-	-	
150	0,25	0,003	0,004	0,25	0,002	
172	0,22	0,002	0,003	0,22	0,002	
200	0,19	0,002	0,002	0,19	0,001	
220	0,17	0,001	0,002	-	-	
240	0,16	0,001	0,001	0,16	0,001	
250	0,15	0,001	0,001	-	-	

Note: thermal transmittance calculated for steel sheet thickness combination 0,7 mm (external) and 0,7 mm (internal)

FIRE RESISTANCE

THICKNESS	WALL					REFERENCE
	FTV		FTV HL ¹		SNV	
	On request Horizontal/ Vertical	Default Horizontal/ Vertical	On request Horizontal/ Vertical	Default Horizontal/ Vertical	Default Horizontal/ Vertical	
50	NPD / NPD	NPD / NPD	NPD / NPD	NPD / NPD	NPD / NPD	EN 14509
60	NPD / NPD	NPD / NPD	NPD / NPD	NPD / NPD	NPD / NPD	
80	NPD / NPD	NPD / NPD	NPD / NPD	NPD / EI30	NPD / NPD	
100	NPD / EI30	EI120 / EI120	NPD / NPD	NPD / EI60	EI120 / NPD	
120	EI60 / EI60	EI120 / EI120	EI60 / EI60	NPD / EI120	EI120 / NPD	
133	EI60 / EI60	EI120 / EI120	EI60 / EI60	NPD / EI120	-	
150	EI60 / EI60	EI180 / EI180	EI60 / EI60	EI180 / EI180	EI120 / NPD	
172	EI60 / EI60	EI180 / EI180	EI60 / EI60	EI 240 / EI180	EI120 / NPD	
200	EI240 / EI120	EI240 / EI180	EI60 / EI60	EI 240 / EI180	EI120 / NPD	
220	EI240 / EI120	EI240 / EI180	EI60 / EI60	EI 240 / EI180	-	
240	EI240 / EI120	EI240 / EI180	EI60 / EI60	EI 240 / EI180	EI120 / NPD	
250	EI240 / EI120	EI240 / EI180	EI60 / EI60	EI 240 / EI180	-	

For more information regarding details and spans contact Trimo d.o.o / Technical Support

¹ valid only i->o

*Fire resistance for wall use type defined on base of EN 1364-1 testing on 3 x 3 m furnace, classified on base of EN 13501-2 with additional consideration of EN 14509 - Annex C.2.4. and EN 15254-5 - Ch.5 - T2.

FIRE RESISTANCE

THICKNESS	CEILING		ROOF	REFERENCE
	FTV	SNV	SNV	
50	NPD	NPD	NPD	EN 14509
60	NPD	NPD	NPD	
80	NPD	NPD	NPD	
100	EI120	REI120	REI120	
120	EI120	REI120	REI120	
133	EI120	-	-	
150	EI120	REI120	REI120	
172	EI120	REI120	REI120	
200	EI120	REI120	REI120	
220	EI120	-	-	
240	EI120	REI120	REI120	
250	EI120	-	-	

For more information regarding details and spans contact Trimo d.o.o / Technical Support

*Fire resistance for ceiling use type defined on base of EN 1364-2 testing on 3 x 4 m furnace, classified on base of EN 13501-2 with additional consideration of EN 14509 - Annex C.2.4.

**Fire resistance for roof use type defined on base of EN 1365-1 testing on 3 x 4 m furnace, classified on base of EN 13501-2.

AIRBORNE SOUND INSULATION R_w (C;Ctr)

THICKNESS	FTV, FTV HL	SNV	REFERENCE	
50	NPD	NPD	dB	EN 14509
60	NPD	NPD		
80	NPD	NPD		
100	NPD	NPD		
120	30 (-1;-3)	NPD		
133	30 (-1;-3)	-		
150	30 (-1;-3)	NPD		
172	30 (-1;-3)	NPD		
200	30 (-1;-3)	NPD		
220	30 (-1;-3)	-		
240	30 (-1;-3)	NPD		
250	30 (-1;-3)	-		

WATER PERMEABILITY

THICKNESS	WALL	ROOF	REFERENCE
	FTV, FTV HL	SNV	
All	Class A (1200 Pa)	Class B (900 Pa)	EN 14509

AIR PERMEABILITY

THICKNESS	WALL		ROOF	REFERENCE
	FTV	FTV HL	SNV	
All	n = 1,5 C= 0,00005	n = 0,8055: C= 0,008996	n= 1,00: C= 0,00019	EN 14509

OTHER CHARACTERISTICS - ALL THICKNESSES

CHARACTERISTICS	PROPERTIES			REFERENCE	
CORE TYPE, NOMINAL DENSITY	Stone wool, 90			kg/m ³	EN 14509
THERMAL CONDUCTIVITY	0,039			W/mK	EN 14509
EXTERNAL AND INTERNAL STEEL GRADE	S320GD				
EXTERNAL SHEET	0,5 - 0,8			mm	EN 10346
INTERNAL SHEET	0,4 - 0,8			mm	
EXTERNAL COATING	SP, HDP, PUR, PUR-PA, PVDF, PVC(P)				EN 10169
INTERNAL COATING	SP, HDP, PUR, PUR-PA, PVDF, PVC(P), PVC(F), PET(F)				EN 10169
EXTERNAL FIRE PERFORMANCE (ROOF)	B _{ROOF} (t1,t2,t3)				EN 13501-5
REACTION TO FIRE	Class	Coating	Profile		EN 13501-1
	A2-s1, d0	SP, HDP, PUR, PUR-PA, PVDF, PET (F)	M, M2, M3, M8, S, G, V, V2, V6, T		
	A2-s2, d0	PVC (F)			
	C-s2, d0	PVC (P)			
SOUND ABSORPTION	NPD			dB	
DURABILITY – ALL COLORS	Pass				EN 14509
RESISTANCE TO POINT LOAD	1,5 kN / 5 m				
REPEATED ACCESS LOAD	NPD				
WATER VAPOUR PERMEABILITY	Impermeable				

Hazards identification: according to GHS/CLP EC N°1272/2008 the product is not classified.

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:

Robert Ajdič
Head of Quality department
Trebnje, 07.02.2020



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Deutsch 09.2021