



Fireproof FAÇADE Panels Trimoterm FTV

The outstanding technical properties of Trimoterm FTV fireproof façade panels are the result of careful material selection and modern production processes.

Technical Data

Technical data FTV STANDARD	FTV 50**	FTV 60	FTV 80	FTV 100	FTV 120	FTV 150	FTV 200	FTV 240**	
Panel thickness [mm]	50	60	80	100	120	150	200	240	
Weight FTV 1000 [kg/m ²]	Fe0.6/Fe0.6	16.3	17.5	19.9	22.3	24.7	28.3	34.3	39.1
Weight FTV 1200 [kg/m ²]	Fe0.6/Fe0.6	16.1	17.3	19.7	22.1	24.5	28.1	34.1	38.9
U Thermal conductivity [W/m ² K] * (EN ISO 6946)		0.61	0.47	0.39	0.32	0.26	0.20		
Fire resistance class * (acc to EN 1364-1, EN 13501-2)			EI 60	EI 90	EI 120	→	→	→	
Combustibility of insulant core (acc to EN 13501-1)	Non - combustible, class A1								
Rw Sound reduction [dB] * (EN ISO 717-1)		30	32	→					
Cover width [mm]	1000 and 1200								
Panel length [m]	up to 14								

* Measured on Trimoterm FTV STANDARD 1000 panels. Deviations from value to accommodate the legislation of individual countries are possible.

** At the stage of testing.

Technical data FTV INVISIO	FTV H 60	FTV H 80	FTV H 100	FTV H 120	FTV H 150	
Panel thickness [mm]	60	80	100	120	150	
Weight FTV H [kg/m ²]	Fe 0.6 / Fe 0.6	17.7	20.1	22.5	24.9	28.5
U Thermal conductivity [W/m ² K] ** (EN ISO 6946)	0.61	0.47	0.39	0.32	0.26	
Fire resistance class * (acc to EN 1364-1, EN 13501-2)		EI 60	EI 90	EI 120	→	
Combustibility of insulant core (acc to EN 13501-1)	Non - combustible, class A1					
Rw Sound reduction [dB] ** (EN ISO 717-1)	30	32	→			
Cover width [mm]	1000					
Panel length [m]	up to 14					

* Fireproofing technical evaluation of Trimoterm FTV and FTV H wall panels in accordance with DIN EN 1364-1; IBMB Braunschweig.

** Values measured on the panels Trimoterm FTV 1000 STANDARD.

Trimoterm STANDARD

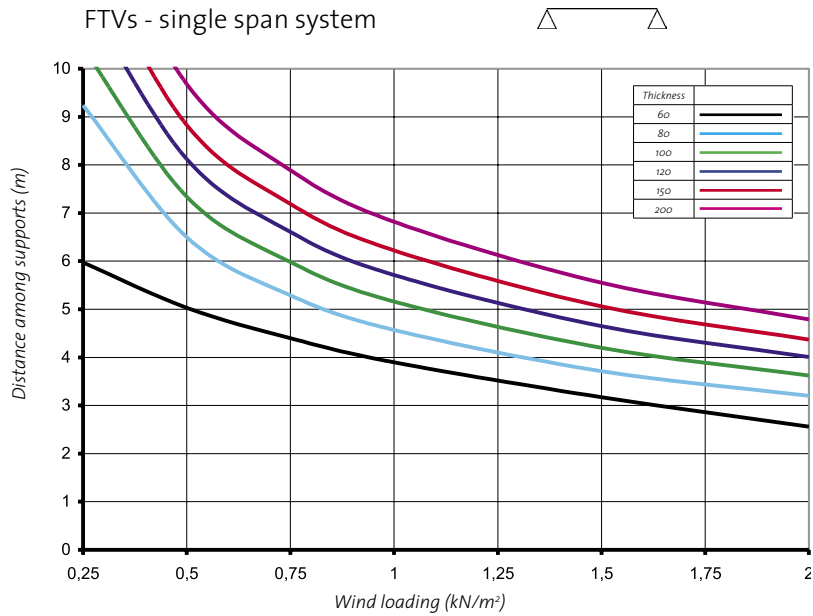
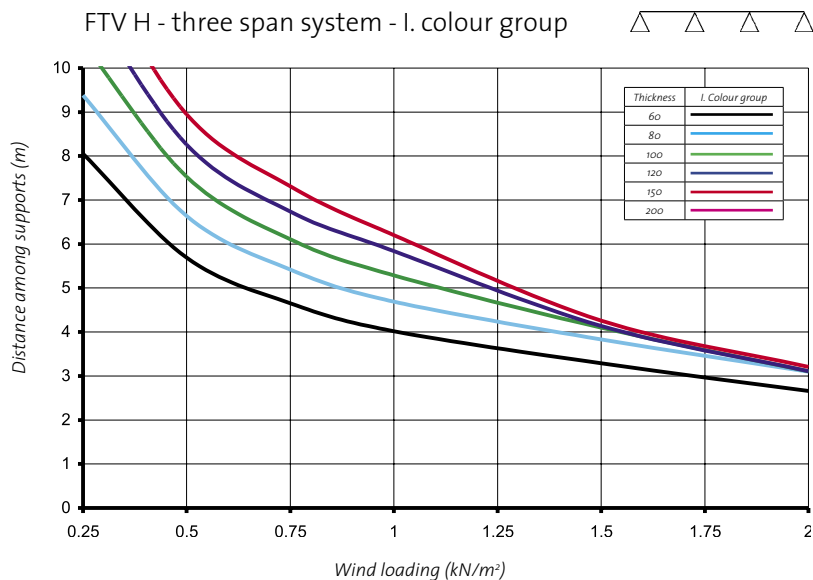
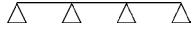
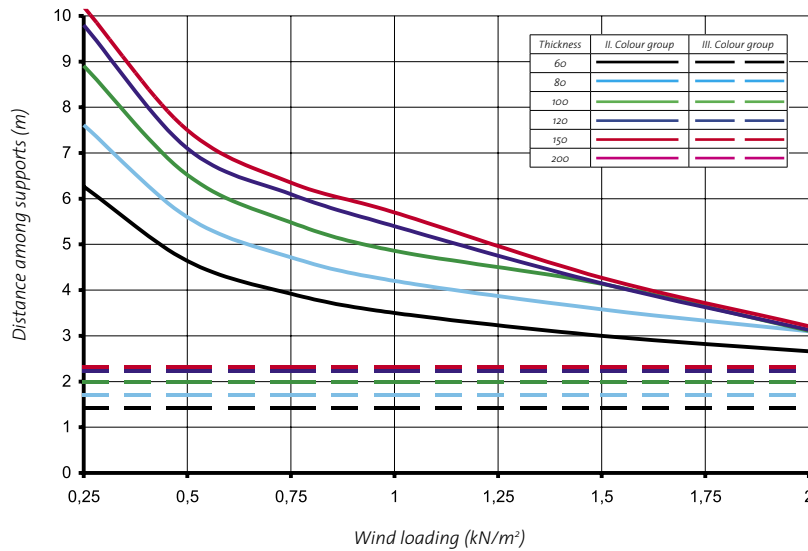


Diagram of allowed distances for panels Trimoterm STANDARD considers the least favourable load cases because of wind and temperature loading in compliance with the general sales permit No. Z-10.4-240. Curves of load-bearing capacity have been calculated by means of software package Sand Stat 4[®] for standard profile types for single-span static system of building in and closed facilities with normal internal temperatures. Fixing and required width of supports shall be proved for each individual case of building in.

Trimoterm INVISIO



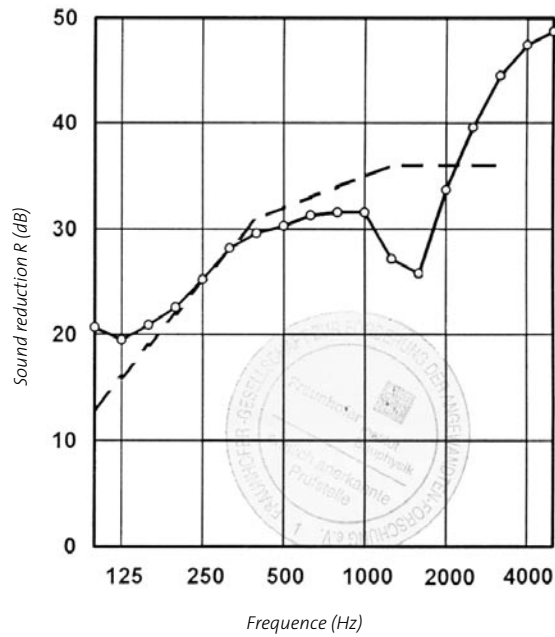
FTV H - three span system - II. and III. colour group 



Diagrams of allowed loading for panels Trimoterm FTV H consider the least favourable load bearing cases because of wind and temperature loading. Curves of load bearing capacity have been calculated by means of software package Sand Stat 4[®] for standard profile type and fixing of type A for closed facilities with normal internal temperatures and central façade area. The fundamental division of colour shades into colour groups I, II, III is stated in the table. Width of supports has to be proved for each individual case of building in and fixing in the edge areas of the facility shall be controlled.

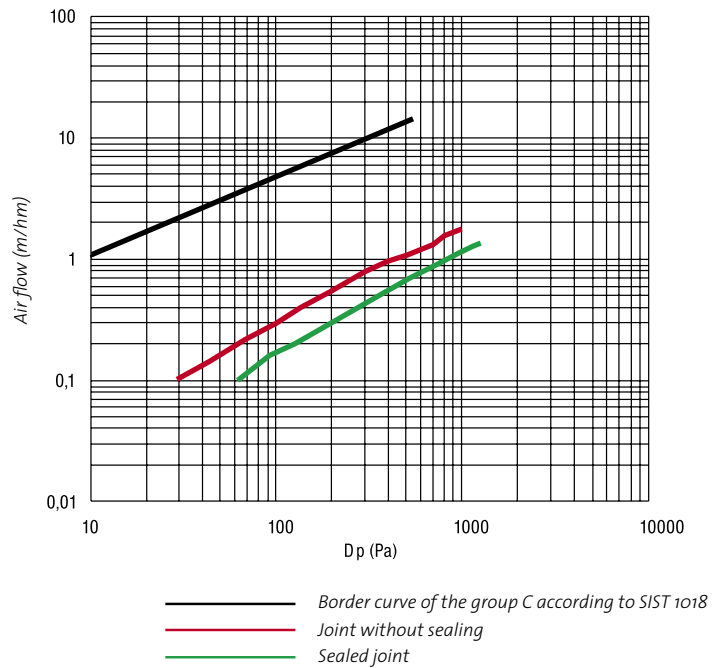
RAL	Colour shade	Colour group
9010	pure white	I.
9002	grey white	I.
7035	light grey	I.
7032	cream grey	II.
7002	olive grey	II.
9006	aluminium white	II.
6010	grass green	III.
3009	oxide red	III.
7016	anthracite grey	III.

Sound Insulation



Sound insulation R has been measured on panel Trimoterm FTV 80 - Report No. P-BA 235/1998, Fraunhofer Institut Bauphysik Stuttgart.

Air-tightness



Air-tightness of panel joints has been measured on panel Trimoterm FTV 80 - Report No. P 1231/98-520-1, ZAG Ljubljana.

Coatings

Metal sheet is preliminary hot galvanised and colour pre-coated. Thickness of a zinc layer is 275 g (Zn)/m² (EN 10326, EN 10327) while colour coating is performed by "Coil Coating" procedure. This denotes painting between cylinders and drying in a furnace at a temperature of minimum 200°C.

Basic properties		SP	PVDF
Class of anticorrosive protection according to DIN 55928/1		III	III
Marking of anticorrosive system according to DIN 55928/8		3-160.2	3-600.1
Temperature resistance (°C)		up to +80	up to +110
Thickness of a layer (my)		25	25
External climate	Normal	•	•••
	Urban and industrial	•	•••
	Harsh industrial	-	••
Maritime climate	1 to 10 km from the coast	-	••
	< 1 km from the coast	-	•
Conditions of buildings interiors	t ≤ 25°C , φ ≤ 80 %	•••	•••
	t ≤ 25°C , φ > 80 %	••	••
	t ≤ 50°C , φ > 80 %	-	••
	Without heating	•	••

- Suitable without reservations
- Very suitable
- Suitable
- Unsuitable

Two types of metal sheet coatings are used:

- Protection based on polyester marked as SP - standard protection.
- Protection based on polyvinyl idenfluoride marked as PVDF - available on request.

Certificates



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Trimo

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