

TRIMO TRIMOTERM



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HORIZONTAL FAÇADE SYSTEM **TRIMOTERM FTV**

TABLE OF CONTENTS

1 TECHNICAL DESCRIPTION OF THE HORIZONTAL FAÇADE SYSTEM 1

- 1.1 General 1
- 1.2 Panel Profile 1
- 1.3 Panel Composition 3
- 1.4 Technical Data 3
- 1.5 Coatings 3

2 DESIGN PROCEDURE 4

- 2.1 Panel Thickness Selection 4
- 2.2 Structural Design Data 4
- 2.3 Fixing Methods 4
- 2.4 Sealing 4
- 2.5 Substructure Tolerances 5

3 RECOMMENDATIONS FOR INSTALLATION 7

- 3.1 Removing Protective Foil 7
- 3.2 Elements Cutting 8
- 3.3 Lifting Methods 8

4 INSTALLATION DETAILS 9

- 4.1.1 Connection to the Main Beam 9
- 4.1.2 Corner Element Detail 10
- 4.2 Fixing a Horizontal Façade to a Steel Structure 11
 - 4.2.1 Installation of a Load-bearing Steel Structure 11
 - 4.2.2 Fixing with HF102 Aluminium Fixing Profile 11
 - 4.2.3 Fixing to Middle Support with Multi-span System 12
 - 4.2.4 Temporary Fixing 12
 - 4.2.5 Assembly of Aluminium Profiles 14
- 4.3 Fixing a Horizontal Façade to a Concrete Structure 14
 - 4.3.1 Fixing a Horizontal Façade by a Levelling Profile 14
 - 4.3.2 Fixing a Horizontal Façade using Adjustable Substructure system HMP 2 15

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1. TECHNICAL DESCRIPTION OF THE HORIZONTAL FAÇADE SYSTEM

1.1 General

The basic horizontal façade system consists of Trimoterm FTV panels of standard modular widths 1000 and 1200 mm.

The range of applications for the horizontal joint façade system is extremely wide. They are suitable for business, commercial, leisure, trade and industrial buildings. The horizontal façade system has excellent technical properties, a long life span and allows creative freedom in building envelope design.

The system of Trimoterm fireproof panels ensures high fire resistance, excellent thermal and sound insulation. The panels are used primarily as a facade, partition walls, fire walls and ceilings, or even as a back up panels for variety of rainscreen façade systems.

1.2 Panel Profile

Fig. 1: Trimoterm FTV façade panels

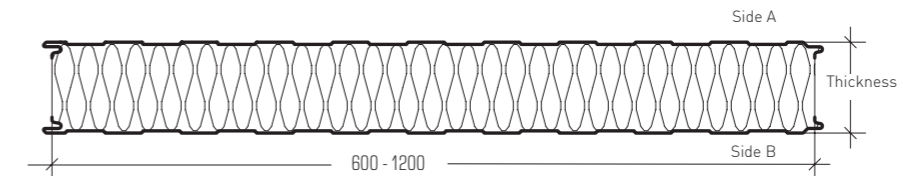
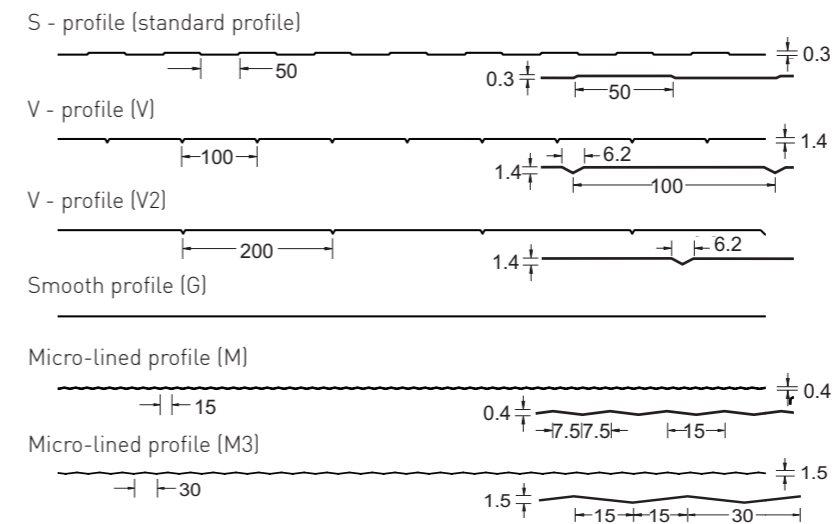


Fig. 1a: Possible forms of Trimoterm FTV 1000 façade panels

External Profile Types:



Internal Profile Types:

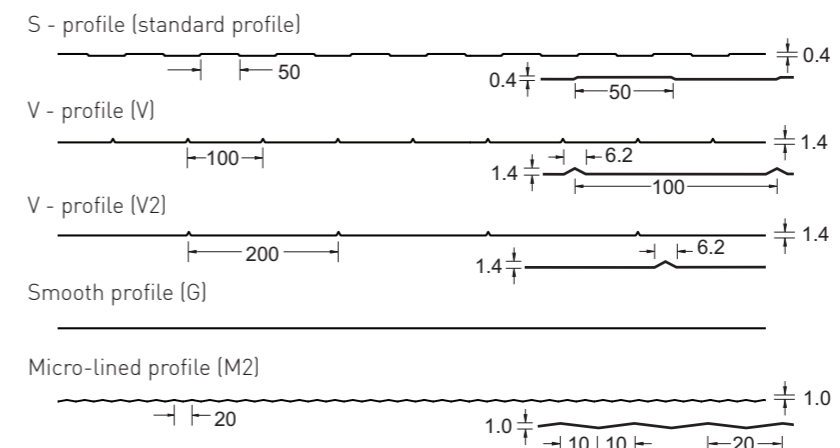
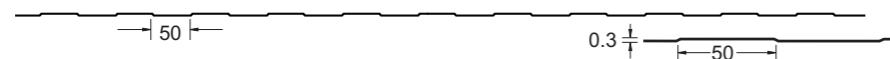


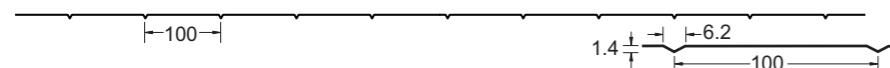
Fig. 1b: Possible forms of Trimoterm FTV 1200 façade panels

External Profile Types:

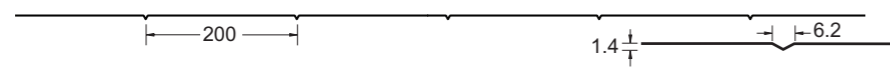
S - profile (standard profile)



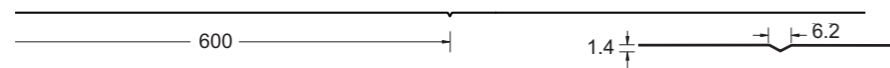
V - profile (V)



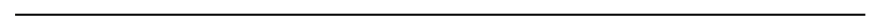
V - profile (V2)



V - profile (V6)



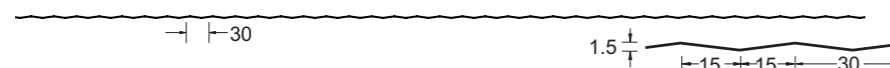
Smooth profile (G)



Micro-lined profile (M)

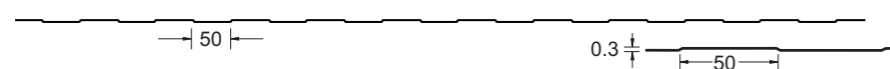


Micro-lined profile (M3)

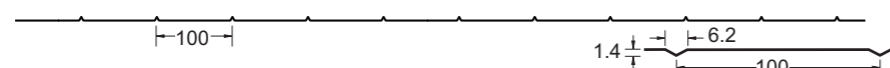


Internal Profile Types:

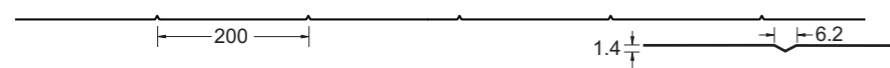
S - profile (standard profile)



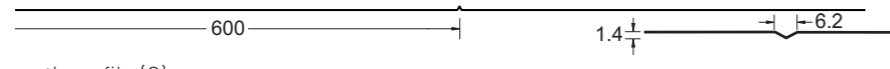
V - profile (V)



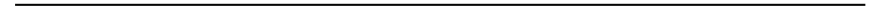
V - profile (V2)



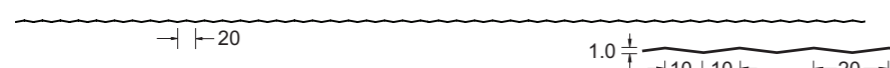
V - profile (V6)



Smooth profile (G)



Micro-lined profile (M2)



Profile Type	A	B
S - profile	•	•
V - profile (V, V2, V6)	•	•
Smooth profile (G)	•	•
Micro-lined profile (M, M3)	•	
Micro-lined profile (M2)		•

Side A marks the external side of a panel.
Steel sheet thickness for profile V2, V6, G-gladio is 0.7 mm.

NOTE: The arrangement of V profile (and all others) typically starts on the middle (centred) of panel steel sheet prior to forming stage. Module end, groove and the distance from the panel edge depends on Trimoterm panel module and may vary. Any other V profile arrangements are declared as non-standard and a subject of individual order. The arrangement of S profile typically starts on the middle (centred) of panel steel sheet prior to forming stage. Module end and the distance from the panel edge depends on Trimoterm panel module and may vary. **Complete panel range can be found in Fireproof panels Trimoterm brochure - Product Range.**

1.3 Panels Composition

Trimoterm FTV fireproof panels consist of two shallow profiled, coated sheet faces in thicknesses of 0.5 mm to 0.7 mm. The steel sheet is bonded to the panel core made of non-combustible mineral wool lamellas of class A1 (EN 13501-1). All three layers make a solid panel in a thickness of 50 - 240 mm. Standard width of the panels are 1000 and 1200 mm. Non standard panel width of 600 - 1200 mm can be made by a special request. A protective PVC film is applied to the panel surface to protect it during production handling and transport. Panels can be manufactured up to 14 m length.

1.4 Technical Data

Table 1: Technical data of Trimoterm FTV 1000 and FTV 1200 façade panels

Technical data FTV		FTV 50	FTV 60	FTV 80	FTV 100	FTV 120	FTV 133	FTV 150	FTV 172	FTV 200	FTV 240
Panel thickness [mm]		50	60	80	100	120	133	150	172	200	240
Weight FTV 1000 [kg/m ²]	Fe 0,6/Fe 0,6	16,3	17,5	19,9	22,3	24,7	26,3	28,3	31,0	34,3	39,1
Weight FTV 1200 [kg/m ²]	Fe 0,6/Fe 0,6	16,1	17,3	19,7	22,1	24,5	26,1	28,1	30,8	34,1	38,9
Cover width [mm]		1000 and 1200									
Panel length [m]		up to 14									

Complete Technical data is available in Trimoterm technical specification.

1.5 Coatings

Steel sheet metal is hot galvanised (net 275 g/m²) in compliance with EN 10346, and additionally protected by organic coating in accordance with the coil-coating process (DIN EN 10169/1).

The following basic types of organic coatings protection are applied to steel sheet metal:

- based on SP polyester
- based on PVDF polyvinylidene fluoride
- based on PUR polyurethane
- based on PVC polyvinyl chloride, coating or film

Individual types of organic protection with the basic characteristics are presented in Table 2.

Table 2: Basic characteristics of an individual type of organic coating or protection

TYPE OF CORROSION PROTECTION		SP	PVDF	PVDF+	PUR/PA	PVC(P)	PVC(F)	Stainless st.		
Total organic thickness [myl] [EN 13523-1]		25	25	35-57	50-65	175-200	120-150	304, 304L, 316, 316L		
Corrosion resistance category *	External EN 10169	RC3	RC3	RC4	RC5	RC5	RC3			
	Internal EN 10169	CPI3	CPI3	CPI5	CPI5	CPI5	CPI3			
Types of outdoor atmosphere/corrosivity category	C2	C2	•••	••••	••••	••••	••••		Intrnal use only	
	C2	C3	••	••••	••••	••••	••••			
	C2	C4			•••	••••	•••			
	C2	C2	C5- M	Internal use only category	Internal use only category	•	•			•••
	C2	C2	C5- M			•	•			•••
		C5 - I			•	•	•••			
Temperature resistance [°C]		80	110	110	110	60	60			
UV resistance category [EN 13523-10]		Ruv3	Ruv4	Ruv4	Ruv4	Ruv4	x			
Flexibility		••	•••	••••	••••	••••	••••			
Staining resistance		•••	••••	••••	••••	••	••••			

•••• suitable without reservations ••• very suitable •• suitable • suitable with reservations/contact Trimoterm - unsuitable

* The corrosive resistance class must be defined after consideration of indoor and outdoor conditions. Standardized outdoor environment climates: C1, C2, C3, C4, C5 M, and C5 I. Example: outdoor atmosphere C3 > select sheet metal with a stability class RC3 or RC4.
** Recommended use - north of the 45 north latitude parallel (Tmax 70 °C).

NOTE: A detailed explanation of the coating, together with instructions for the use and maintenance can be found in the Technical instructions for the use and maintenance of Trimoterm products.

2 DESIGN PROCEDURE

2.1 Panel Thickness Selection

With respect to the client's or project requirements or in accordance with the legislation appropriate thickness of Trimoterm FTV panel shall be selected. Thickness has a direct influence on the load-bearing capacity of the panel, thermal insulation of the façade and heat stability of the structure.

2.2 Structural Design Data

Advised distances between supports are determined in relation to the selected panel thickness, loads and support widths. Panels are structurally weakened where windows, doors and other openings are installed. Exact Structural calculation is available by contacting Trimo Technical Support team.

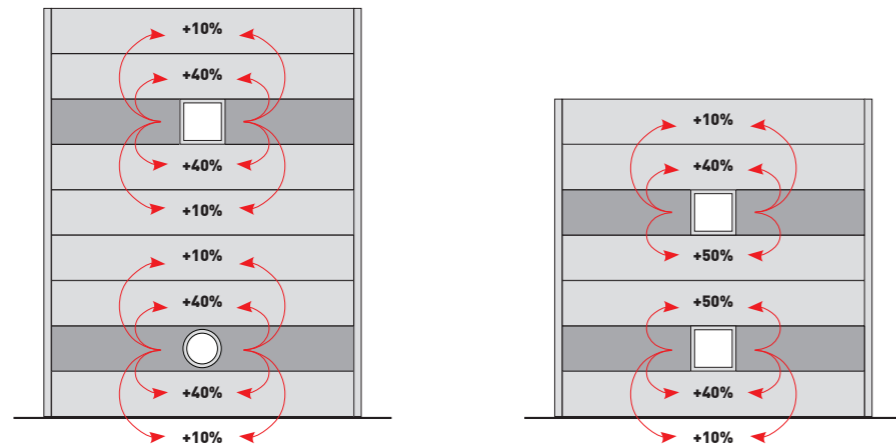
2.3 Fixing Methods

The fixing method is selected according to the structure type.

For steel structures:

- A distance profile is welded to a structure and the Trimoterm FTV panel is fixed to it by means of a specially made aluminium profile.
- Trimoterm FTV panel can be fixed directly to a flange if its thickness is not greater than 12 mm.
- For concrete structures the following fixing methods are available for Trimoterm FTV panels:
 - Fixing by a levelling profile for panels of 100 - 240 mm thickness.
 - Fixing by a wide levelling profile for panels of 60 and 80 mm thickness.

Fig. 2: Load transfer of a weakened panel to adjacent panels



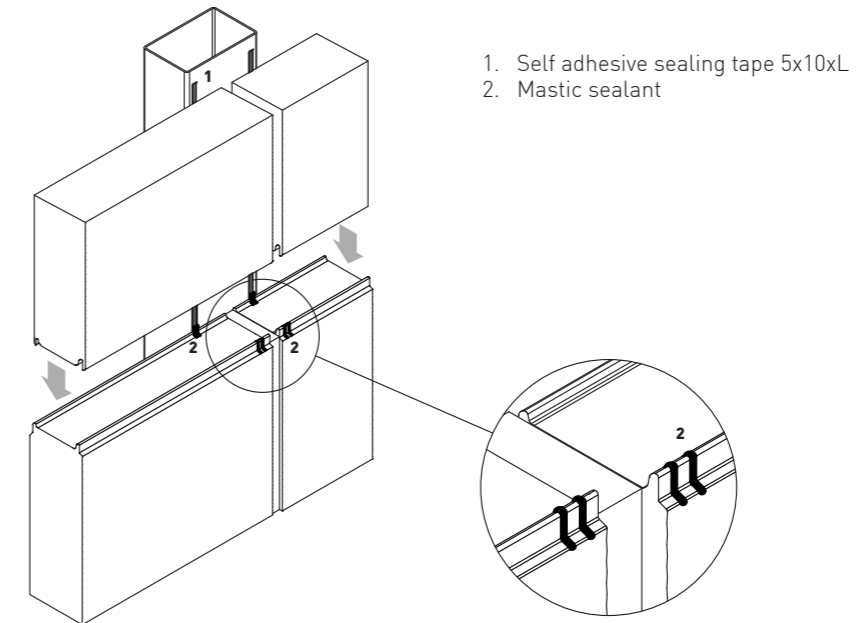
2.4 Sealing

When installing, great care must be taken to ensure that the panel is properly watertight, and all possible points of water ingress into the panel must be sealed with a durable elastic mastic sealant.

The following photo (Fig. 2a) shows an example of sealing the panel joint on the outside. We suggest sealing the inside of the panel in the same way to ensure vapour tightness.

➔ **NOTE: Façade elements must be protected from water and other liquids seeping into insulation during unloading right through to the end of the installation. It is the installer's responsibility to ensure that the panels are protected until the end of the installation. Trapped water/moisture in the panels can cause unfavourable internal corrosion in the panels. Panels should not be installed during snow, rain falls or during dense fog.**

Fig. 2a: Position of sealing components



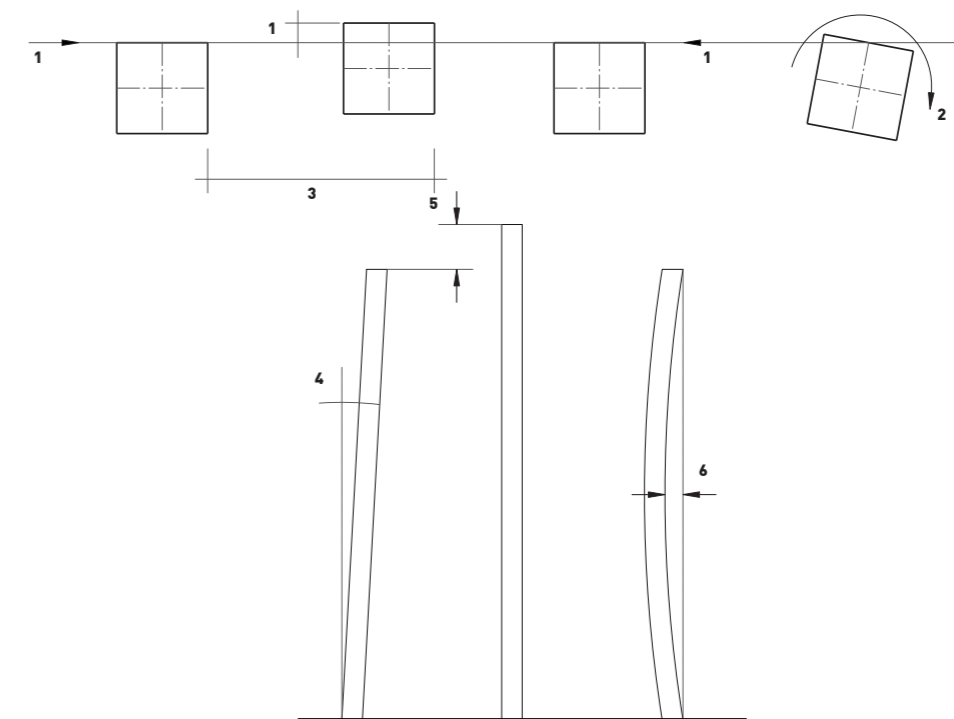
2.5 Substructure tolerances

When installing the panels, the prescribed tolerances of the load-bearing structure must be observed (IFBS guideline PA 09 - Performance tolerance in light metal structures point 3.1.1):

Tolerances (follow picture substructure tolerances 1):

- (1) columns alignment
 - single span system $\pm 2L / 1.000$ (L-column axis distance)
 - multispan system $\pm L / 1.000$ (L-column axis distance)
- (2) column torsion
 - single span system $\pm 1^\circ$ / column torsion
 - multispan system $\pm 0,5^\circ$
- (3) axis span tolerance: columns width <200 : ± 10 mm / columns width >200 : ± 20 mm
- (4) column inclination tolerances: $\pm 1^\circ$
- (5) column height difference tolerance: ± 20 mm
- (6) column curvature tolerance: $\pm 10,0$ mm / 10 m

Picture: Substructure tolerances 1





3 RECOMMENDATIONS FOR INSTALLATION

When erecting a horizontal façade panels must be correctly orientated, to allow water drainage (Fig. 3).

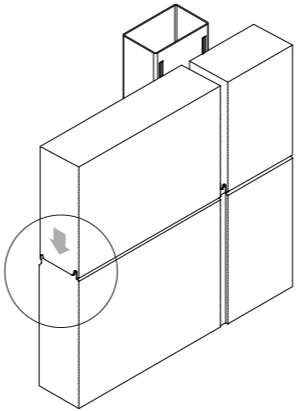
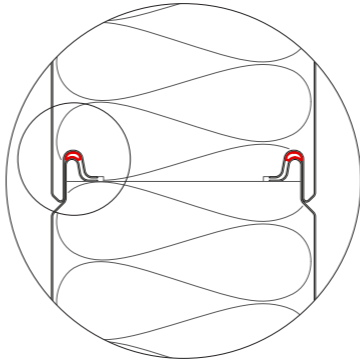


Fig. 3: Correct panel assembly on horizontal façades

Joint sealing tubes must be slightly compressed, at least to approx. 80% of their initial thickness. The internal joint tolerance is 2mm+/- 2 mm.

In order to achieve the correct degree of compression of the factory-installed seals (at least to approx. 80% of their initial thickness) it may be necessary to compress the panels before fixing them to the substructure. This requires the use of professional tools.



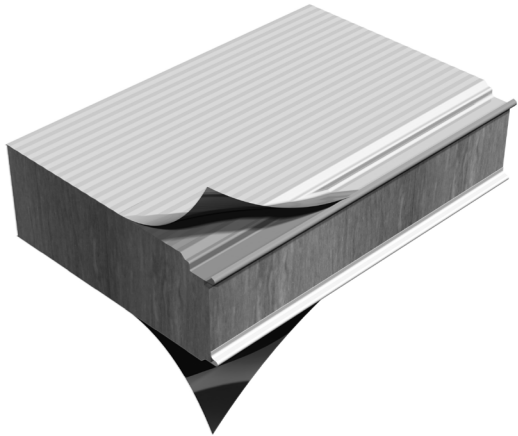
3.1 Removing Protective Foil

A protective foil, for the protection of colour coated surfaces, against any possible damage caused during transport, handling and assembly, is applied to the external face of Trimoterm FTV panels. The foil must be removed from the internal face before the installation of an individual panel. The foil on the external side is removed directly before the completion of works; it should be removed during the installation where it is necessary, (e.g. in a longitudinal joint of two panels, under screws, flashing ...) (Fig. 4). If panels are to be stored for a long period of time, the foil should be removed after three months. If panels are to be stored in the open air, they should be protected against the sun, if not, the removal of the foil may be problematic.

Fig 4: Removal of the protective foil

➔ **NOTE:**

- Every day, after ending of the installation, the protective foil must be completely removed from each facade element / facade.
- If the façade panels are to be stored in the open they should be protected against the sun; otherwise the complete removal of foil is no longer possible.
- During installation the foil must be removed from all joints of the façade panel.
- Façade elements must be protected from water and other liquids seeping into insulation during unloading right through to the end of the installation.



3.2 Elements Cutting

When cutting panels during assembly, only special scissors, cutting tools and saws that do not heat the cutting edge to a high temperature, should be used (Fig. 5). High temperatures can damage the anti-corrosive protection, in the immediate surrounding area of a cut. Therefore, the use of any grinding machines is prohibited for such purposes! All small metal particles, that appear as a result of cutting and drilling should be immediately removed from the panel surface, but certainly when the daily work has been completed.

Marking and scratching with nails or similar sharp objects can damage the protective coating.

Fig. 5: Elements cutting is allowed with sheet metal shears and saws

Recommended use



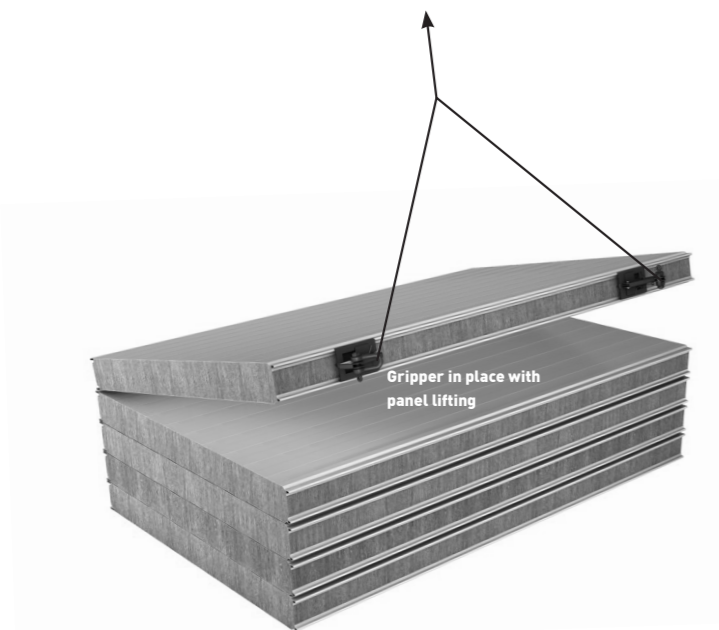
Restricted use



3.3 Lifting Methods

It is suggested that special mechanical grippers are used for the installation of a horizontal façade; these grippers are placed in the longitudinal joint of Trimoterm FTV panel (Fig. 6). Two grippers are needed for one lift and they are delivered with panels, when specially ordered. With gripper order Instructions for the use of grippers will be provided.

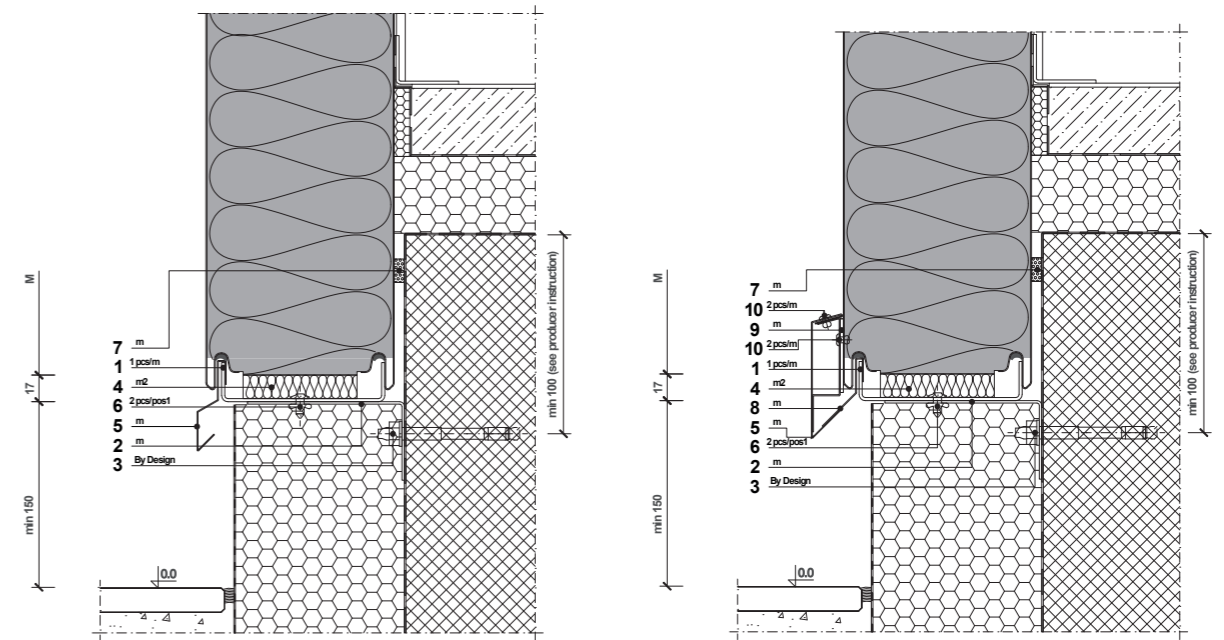
Fig.6: Gripper for the assembly of a horizontal façade



4 INSTALLATION DETAILS

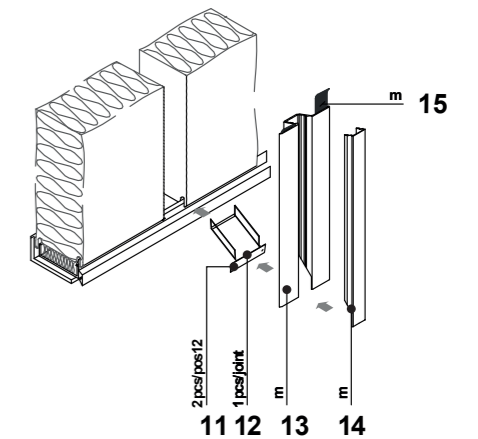
4.1.1 Connection to the Main Beam

Fig. 7: Connection of a horizontal façade to the main beam



1. Panel support profile (closing element)
2. Support profile
3. Anchor screw
4. Thermal insulation
5. Drip flashing
6. Bulb tite rivet 5,2xL
7. Self adhesive pre-compressed sealing tape
8. Drip flashing'
9. Self adhesive sealing tape 2x47x100 (under the fixing)
10. Rivet 4xL
11. Rivet 4x10
12. Profile drip flashing
13. Aluminium fixing profile HF102/1
14. Decorative extrusion HF102/2
15. Self adhesive sealing tape 6x25xL

Trimoterm FTV base detail 3D view



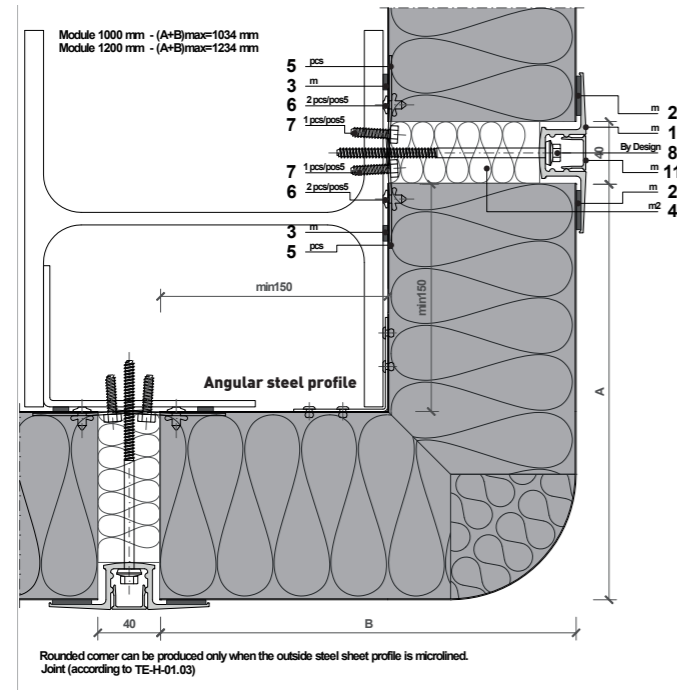
The assembly begins in the final grid line of a building. Before the first panel is fixed, the precision of substructure geometry must be checked.

Assembly sequence (Fig. 7):

- A support profile (Item 2) is to be fixed to the concrete main beam at a suitable height that serves as a horizontal levelling and riveting of the panel beam.
- A sealing tape is applied to a façade main beam (Item 7).
- Before fixing of an individual panel, a Z profile is to be fixed for temporary mounting.
- The panel is to be placed correctly (distance of 40 mm) and fixed to a distance profile over Z profiles, by means of self-tapping 6.3x25 screws.
- The space between two panels is filled with soft mineral wool.
- Dripping edge of HF102 aluminium-fixing profile is fixed to the foundations of a horizontal façade extension.
- Cover flashing is fixed over screws; subsequent to a butyl sealing being applied.
- Front extension of the aluminium fixing profile is to be carried out by a connecting component and sealing (bonding) with a polyurethane adhesive (e.g. Sikaflex).
- The required number of screws per m¹ of the aluminium profile is determined by static calculations or in accordance with Section 2.3 of Trimo Technical Instructions.

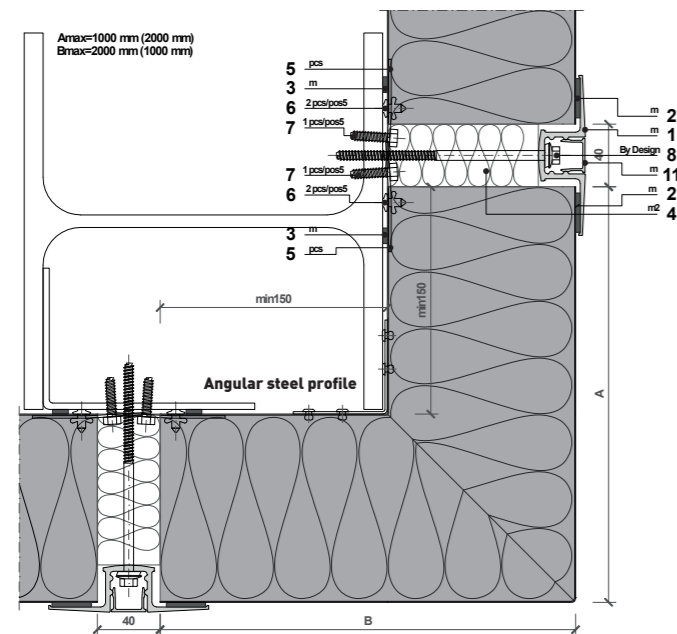
4.1.2 Corner Element Detail

Fig. 8: Rounded-off corner detail



1. HF102/1 aluminium fixing profile
2. Self adhesive sealing tape 6x25xL
3. Self adhesive sealing tape 5x10xL
4. Thermal insulation
5. Fixing element
6. Bulb-tite rivet 5,2xL
7. Self-tapping screw 6,3x25
8. Self-tapping screw
11. Decorative extrusion HF102/2

Fig. 9: Preformed sharp-edged corner



1. HF102/1 aluminium fixing profile
2. Self adhesive sealing tape 6x25xL
3. Self adhesive sealing tape 5x10xL
4. Thermal insulation
5. Fixing element
6. Bulb-tite rivet 5,2xL
7. Self-tapping screw 6,3x25
8. Self-tapping screw
11. Bulb-tite rivet 5,2x19,1

Assembly sequence:

- Angular steel profile L profile for fixing the rounded corner element and façade panels is initially secured to the steel structure.
- Horizontal arrangement of the panels follows, which are laid horizontally and attached to it.
- Fixing plates, for temporary mounting, are riveted to the inner side of the vertical radius or horizontal, sharp-edged, corner panel (Fig. 8 and 9) and then this pre-assembled panel is fixed to the structure, using a self-tapping screw.
- The space between two panels is filled with soft mineral wool.
- The aluminium profile is fixed over screws to hold the panels in place.
- Before fixing the HF102 fixing profile EPDM sealing tape 6x25 mm is applied.

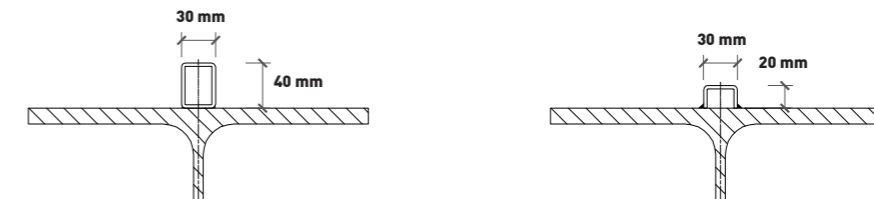
4.2 Fixing a Horizontal Façade to a Steel Structure

A steel structure, to which panels are fixed, should comply with ENV 1090-1 or Trimo internal requirements.

4.2.1 Installation of a Load-bearing Steel Structure

Additionally, for classic steel structures, a distance profile (Fig. 10) should be welded to the basic steel structure, for a fast and simple installation of a horizontal façade. If the thickness of the load-bearing structure is $b < 12$ mm, fitting of distance profiles is not required (Fig. 11) as it is possible to fix the panels directly.

Fig. 10: Distance profile

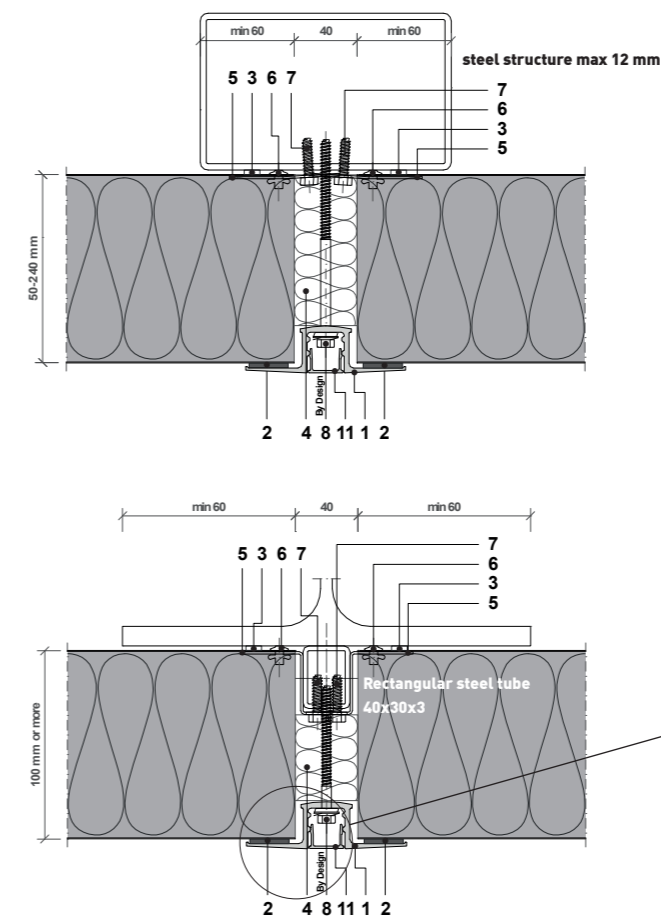


WARNING!

A box section 40x40x3 - St 37-2 is used as a distance profile for panel thickness exceeding 100 mm. Steel profile U 20x40x20x3 - St 37-2 is used as a distance profile for panel thickness 60 and 80 mm. A distance profile **IS NOT NECESSARY** when steel structure of < 12 mm is used (Fig. 11).

4.2.2 Fixing with HF102 Aluminium Fixing Profile

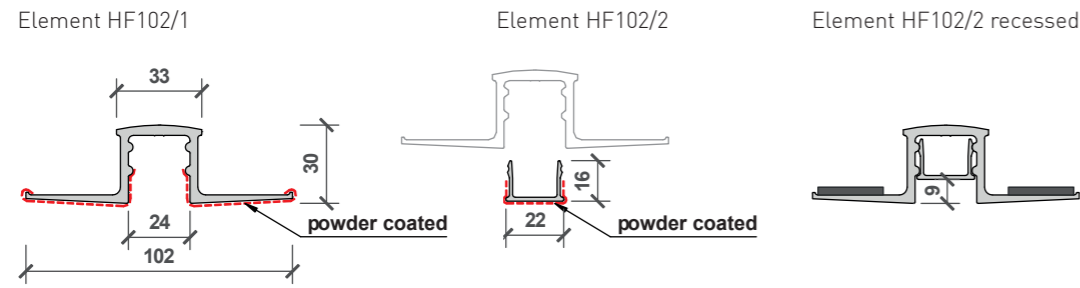
Fig. 11: Fixing of a horizontal façade to a steel structure, depends on the thickness of substructure



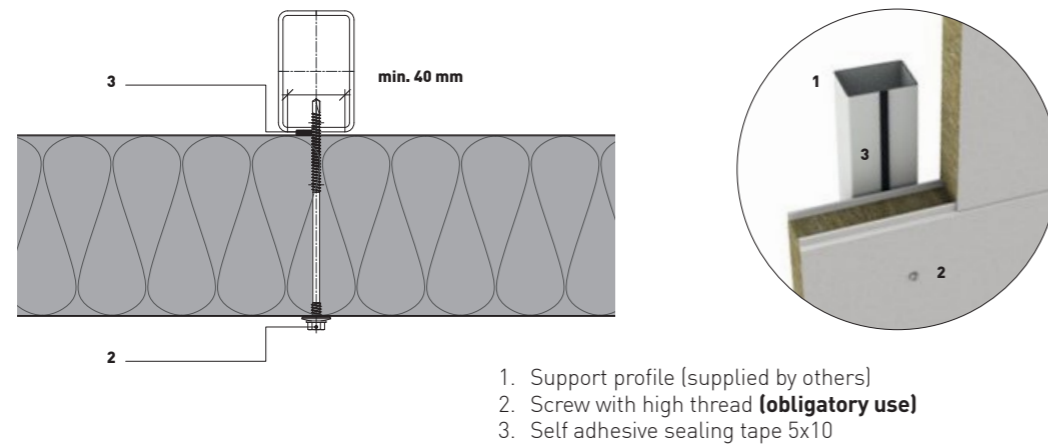
1. HF102/1 aluminium fixing profile
2. Self adhesive sealing tape 6x25xL
3. Self adhesive sealing tape 5x10xL
4. Thermal insulation
5. Fixing element
6. Bulb-tite rivet 5,2xL
7. Self-tapping screw 6,3x25
8. Self-tapping screw
11. Decorative extrusion HF102/2

NOTE: Distance between HF profile and Trimoterm panel needs to be 1-3 mm.

Fig. 12: HF102 aluminium fixing profile



4.2.3 Fixing to Middle Support with Multi-span System



1. Support profile (supplied by others)
2. Screw with high thread (**obligatory use**)
3. Self adhesive sealing tape 5x10

4.2.4 Temporary Fixing

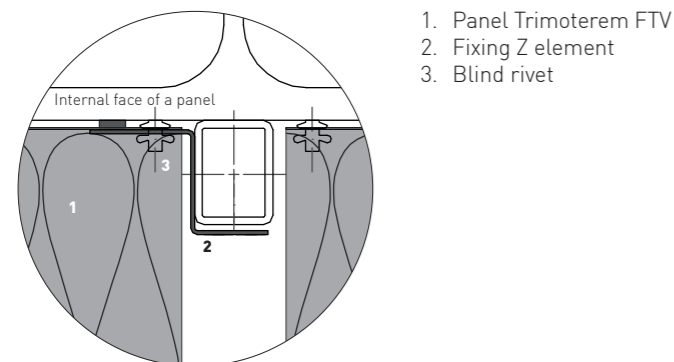
The temporary fixing of panels when placing the panels to the horizontal façade should be fixed in the short term, to the hot-rolled steel profiles.

To accommodate this temporary fixing, profiles (Z profile) are inserted by pressing between the core and the inner steel sheet of the panel and then fixed with 2 4x8 mm stainless steel rivets (Fig. 13). Panels are installed correctly when the opening in the vertical joint is 40 mm. Panels are fixed to the sub-structure through temporary fixing profiles with self-tapping screws 6,3x25 as follows:

- in central area - 1 piece / panel,
- edge area, buildings with side openings - 2 pieces / panel,
- areas with wind loads higher than 0.5 KN/m² - 2 pieces / panel.

After the completed installation, each individual, vertical joint should be concealed by fixing a HF102 aluminium profile.

Fig. 13: Temporary mounting



1. Panel Trimoterm FTV
2. Fixing Z element
3. Blind rivet

Fig. 14: Profiles types for temporary fixing (profile length: 120 mm)

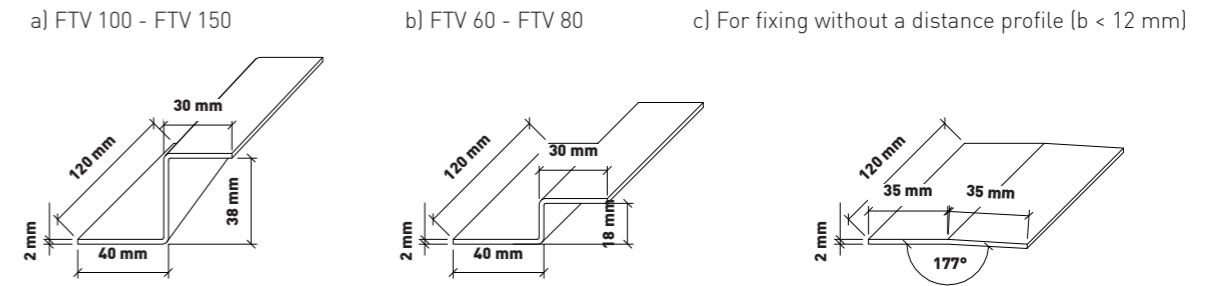


Fig. 15: Erection of a 100 to 240 mm thick panels

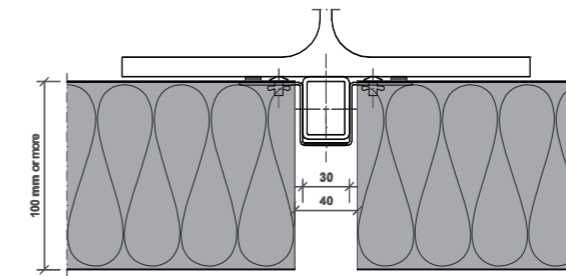


Fig. 16: Erection of panels in thickness types 60 and 100 mm

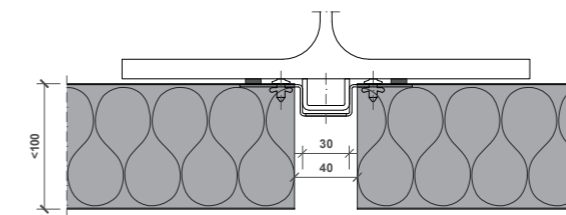
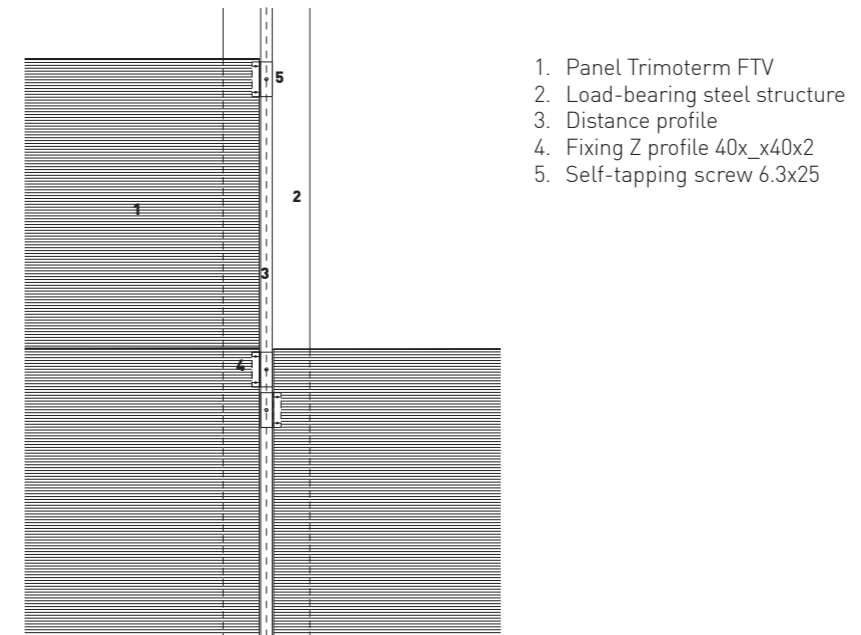


Fig. 17: Temporary mounting (1 piece / panel)



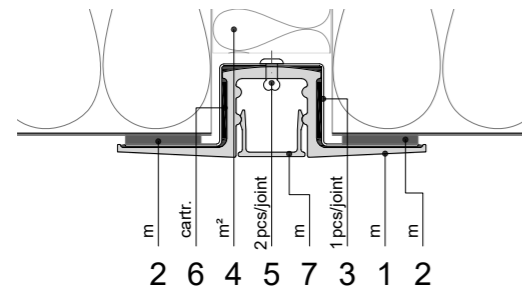
1. Panel Trimoterm FTV
2. Load-bearing steel structure
3. Distance profile
4. Fixing Z profile 40x_x40x2
5. Self-tapping screw 6.3x25

4.2.5 Assembly of Aluminium Profiles

Assembly of HF102 Aluminium Fixing Profile

Sealing tape EPDM 6x25 (Fig. 18) should be applied to the HF102 aluminium fixing profile prior to installation. Please note that a seal must be applied to the profile edge.

Fig. 18: Position of sealing tape on the HF102 aluminium profile

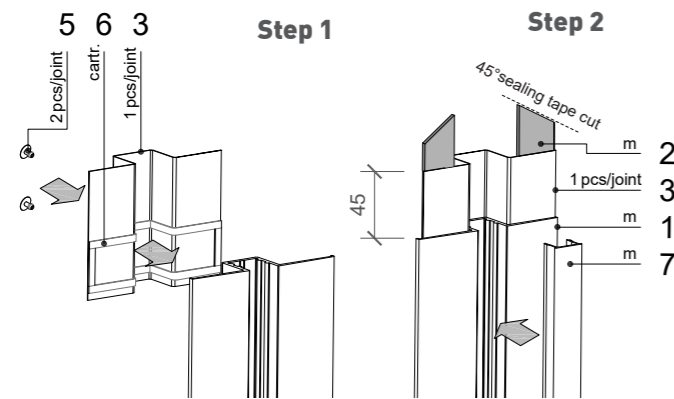


Cutting profiles to a required length, should be carried out by a suitable portable saw with a function that accommodates variable cutting angles. The deviation allowed is ± 0.5 mm at the width of 102 mm.

1. Fixing extrusion
2. Self-adhesive sealing tape 6x25xL
3. Prolongation flashing
4. Thermal insulation
5. Rivet 4x10
6. Mastic sealant
7. Decorative extrusion

Joining of HF102 aluminium fixing profiles

Fig. 19: Connecting aluminium element

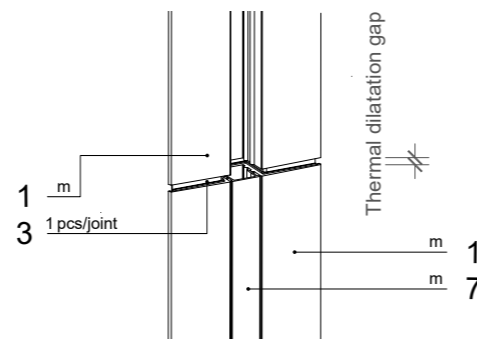


Step 1 Apply the mastic seal (pos.6) in two longitudinal and transversal stripes on prolongation flashing (pos.3). Install prolongation flashing (pos.3) with mastic seal on the Alu profile (pos.1) and fix it with a rivet (pos.5).

Step 2 Install the self adhesive sealing tape EPDM 6x25xL (pos.2) on inner side of the Alu fixing profile (pos.1). Prolongation of self adhesive sealing tape EPDM 6x25xL (pos.2) must be done at angle of 45°.

NOTE: Thermal dilatation gap on prolongation must be minimal 1 mm/1 m of profile +2 mm.

Fig. 20: Installation of a connecting element



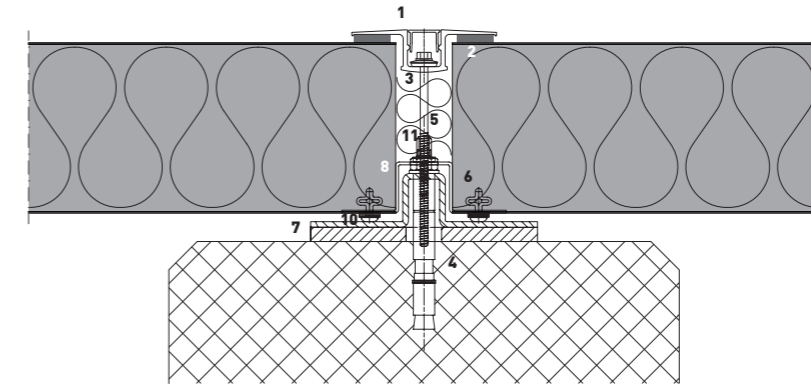
4.3 Fixing a Horizontal Façade to a Concrete Structure

The concrete structure onto which panels are to be fixed should comply with ENV 13670-1 or/and Trimo internal requirements.

4.3.1 Fixing a Horizontal Façade by a Levelling Profile

Fig. 21: presents a fixing method by levelling the base. This method is useful for Trimoterm FTV panels of higher thickness (100, 120, 150, 200 and 240 mm). Dimensions of the levelling profile are presented in the Trimo standard details.

Fig. 21: Fixing a Trimoterm FTV panel horizontal façade using a levelling structure

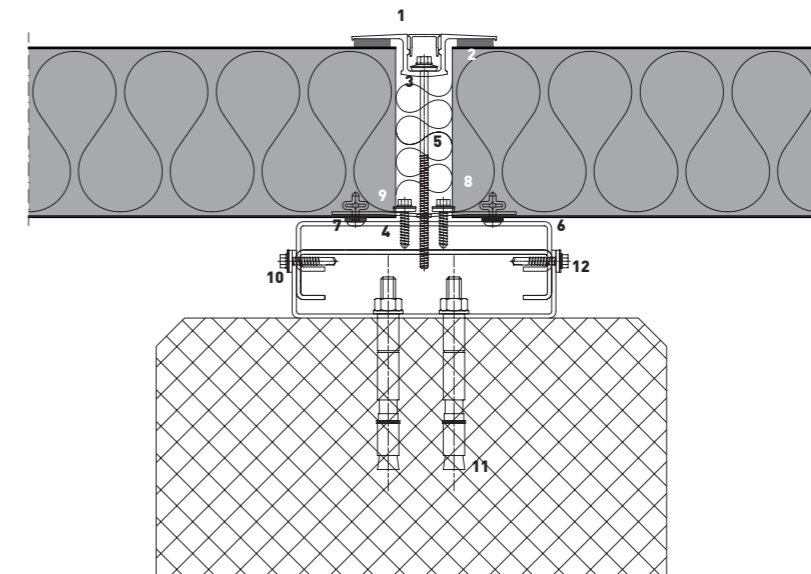


1. HF102 aluminium profile
2. Sealing tape EPDM 6x25
3. Self-tapping screw
4. Anchor bolt
5. Thermal insulation
6. Bulb-tite rivet 5,2x19,1
7. Leveling plate
8. Z profile
10. Sealing tape EPDM 3x20
11. Self-tapping screw 6,3x25

4.3.2 Fixing a Horizontal Façade using Adjustable Substructure system HMP 2

The adjustable substructure system is used to level out the main structure of the building or supporting wall, in order to install the Trimoterm FTV façade system. Image below (fig. 22) demonstrates the detail of adjustable substructure.

Fig. 22: Assembly mounting of Trimoterm FTV panels using a HMP 2



1. HF102 aluminium profile
2. Sealing tape 6x25
3. Self-tapping screw
4. Self-tapping screw 6,3x25
5. Thermal insulation
6. U bracket HMP-B
7. Sealing tape 3x15
8. Bulb-tite rivet 5,2x19,1
9. Fixing plate
10. C steel beam HMP-A
11. Anchor bolt
12. Self-tapping screw 6,3x25

NOTE: The following advice applies to fixing described in Sections 4.3.1 and 4.3.2:

- Suitable evenness of the overlying surface is assured by a levelling structure of a façade.
- Distances between anchor screws must be determined in accordance with a static calculation, relating to the properties of the building, wind loading, anchor type and the quality of the load-bearing structure.

HEADQUARTERS

TRIMO D.O.O.

PRIJATELJEVA CESTA 12,

8210 TREBNJE, SLOVENIA

T: +386 (0)7 34 60 200

F: +386 (0)7 34 60 127

TRIMO@TRIMO-GROUP.COM

WWW.TRIMO-GROUP.COM



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