



MFT-FOX-VT-1L- HIDDEN CLAMPS

Hilti facade system



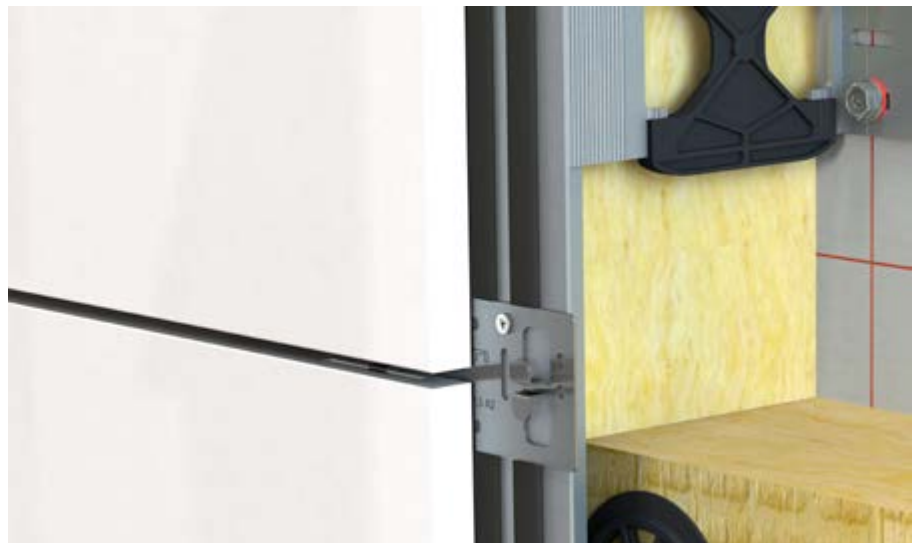
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MFT-FOX-VT-1L-hidden clamps



Ceramic





APPLICATION AND DESCRIPTION

MFT-FOX-VT-1L-hidden clamps

The system consists of thermal bridge free wall brackets and aluminum profiles, and is specifically designed for vertical substructures in ventilated façade by using stainless steel clamps to fix the cladding material to the substructure. The cladding material is slotted on the bottom and top side, providing invisible fixing method.

Wall brackets are supplied with powder coated base plate, according to the method of installation to the base material – anchors, screws and direct fastening – with different hole geometries in the base plate (available hole geometries are shown on Hilti website or on the following pages).

Wall brackets are designed with both fixed and flexible points to allow for thermal expansion of the profile. The fixed point takes the weight of the panels and substructure and the proportional wind loads, while the flexible point only assumes the proportional wind loads.

Vertical profiles are connected to the wall brackets with specially designed screws for fixed and flexible points. This allows virtually-frictionless sliding of the profiles against the wall brackets and keeps the profile connected by the fixed point in place. The flexible point makes sure that there are no additional loads on the substructure from the profile's expansion forces.

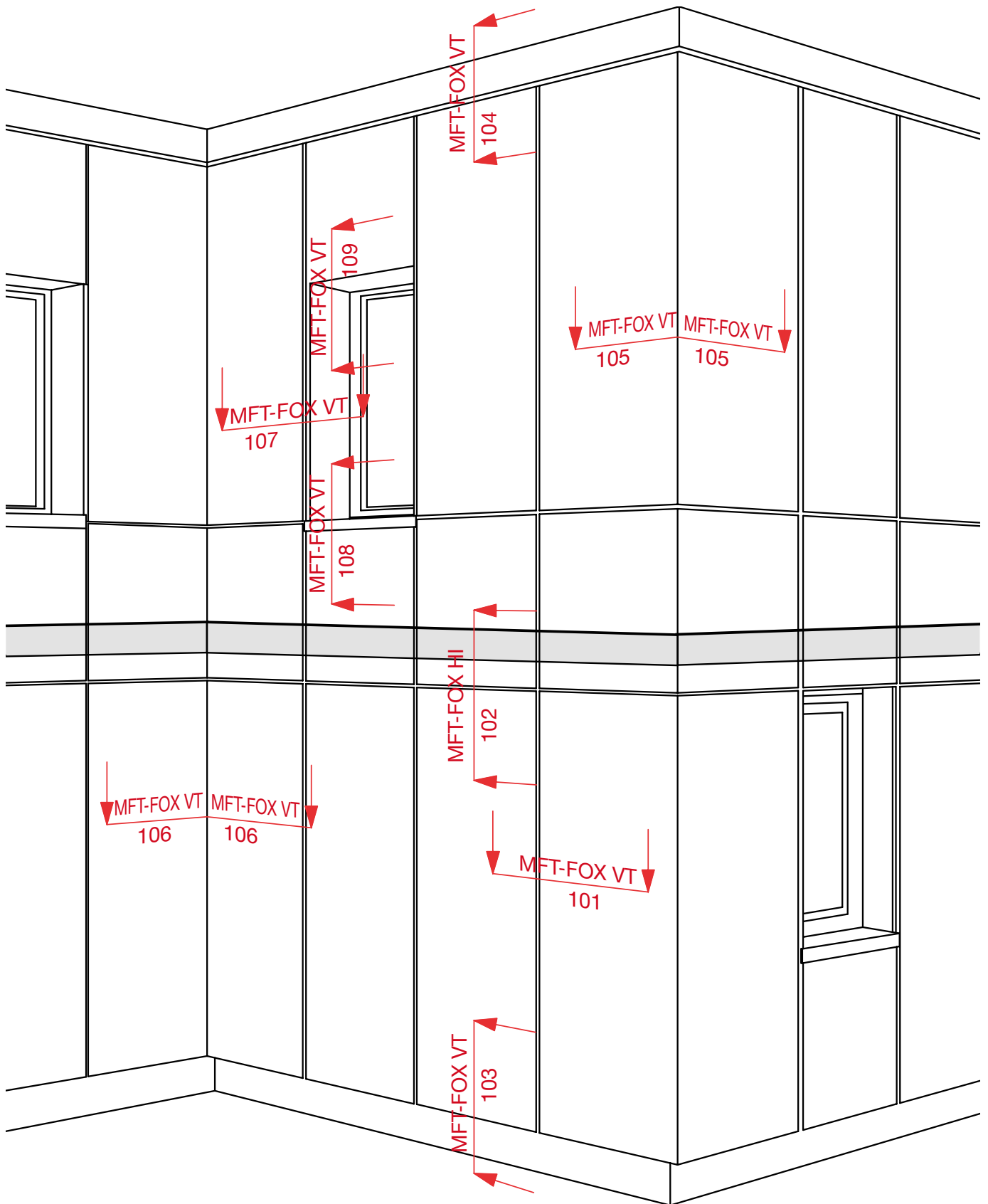
The adjustment of the profiles against the wall brackets is supported with a 'helping hand'. The helping hand keeps the profile in position whilst the profile is being fixed with screws, allowing a fast connection to the bracket. With this system, wall tolerances of up to 40 mm can be perfectly balanced. The wall brackets are available from 140 mm to 320 mm.

To avoid corrosion the base plate of the bracket is powder coated. The stainless steel clamps will be fixed by rivets or screws to the vertical profile.

Advantages:

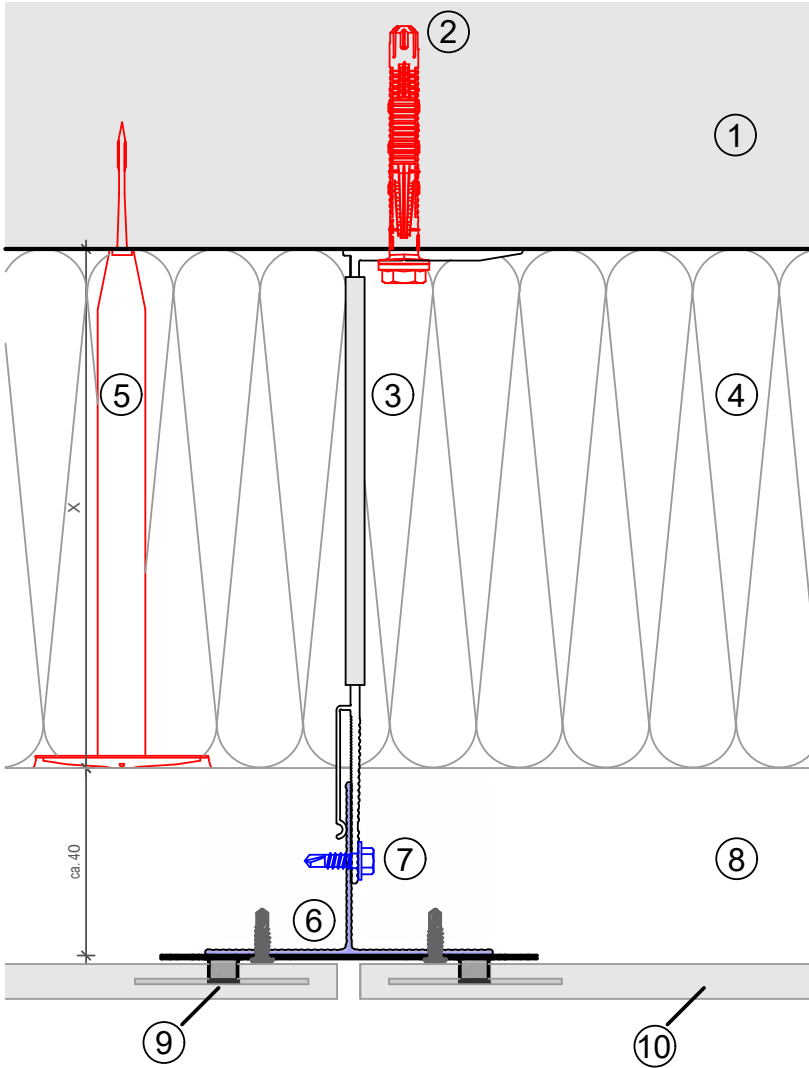
- Invisible panel fixation
- Flexible design using fixed and flexible points
- Bracket length from 140 mm to 320 mm
- 40 mm adjustment capability of the profiles in the wall brackets
- Avoiding contact corrosion by powder coated base plate
- Brackets can be mounted using a range of methods - anchors, screws or direct fastening
- Substructures can be designed with PROFIS Façade to generate technically sound and economically-optimized solutions

VIEW OF CLADDING



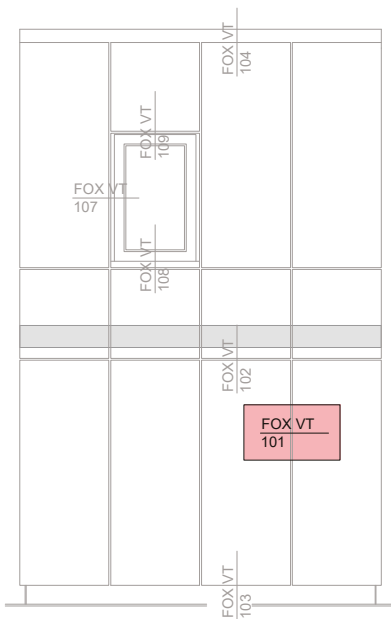
This is an interactive page! By clicking on a system part you get directed to the respective detail page.
Click on the move-back button to jump back to the CONTENT AND OVERVIEW.

MFT-FOX VT 101



Legend:

- ① Base material
- ② Anchor acc. to static
- ③ Bracket and isolator
- ④ Insulation
- ⑤ Fixing insulation
- ⑥ Profile
- ⑦ Self drilling screw
- ⑧ Ventilation gap
- ⑨ Hidden clamp
- ⑩ Cladding

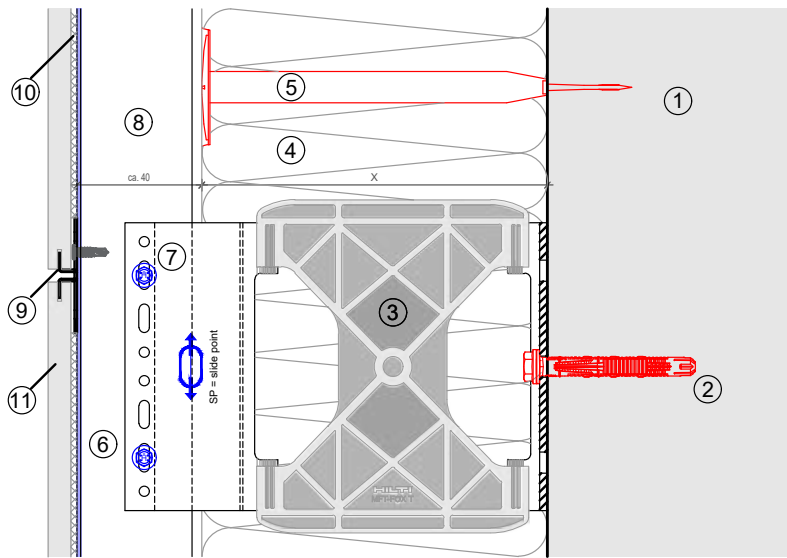


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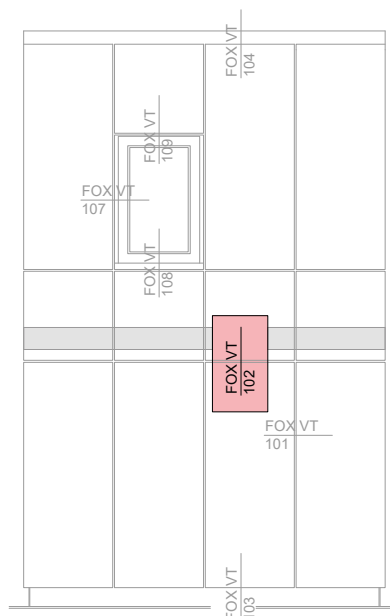
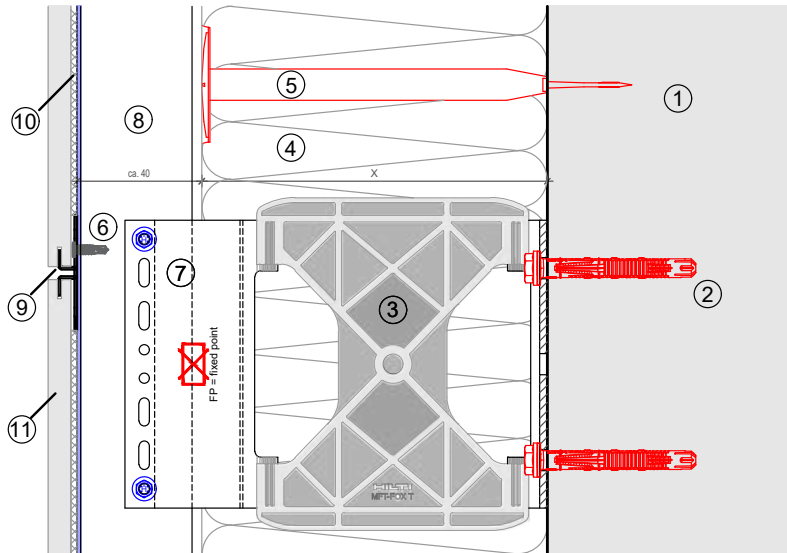
MFT-FOX VT 102

Legend:

- ① Base material
- ② Anchor acc. to static
- ③ Bracket and isolator
- ④ Insulation
- ⑤ Fixing insulation
- ⑥ Profile
- ⑦ Self drilling screw
- ⑧ Ventilation gap
- ⑨ Hidden clamp
- ⑩ Adhesive
- ⑪ Cladding



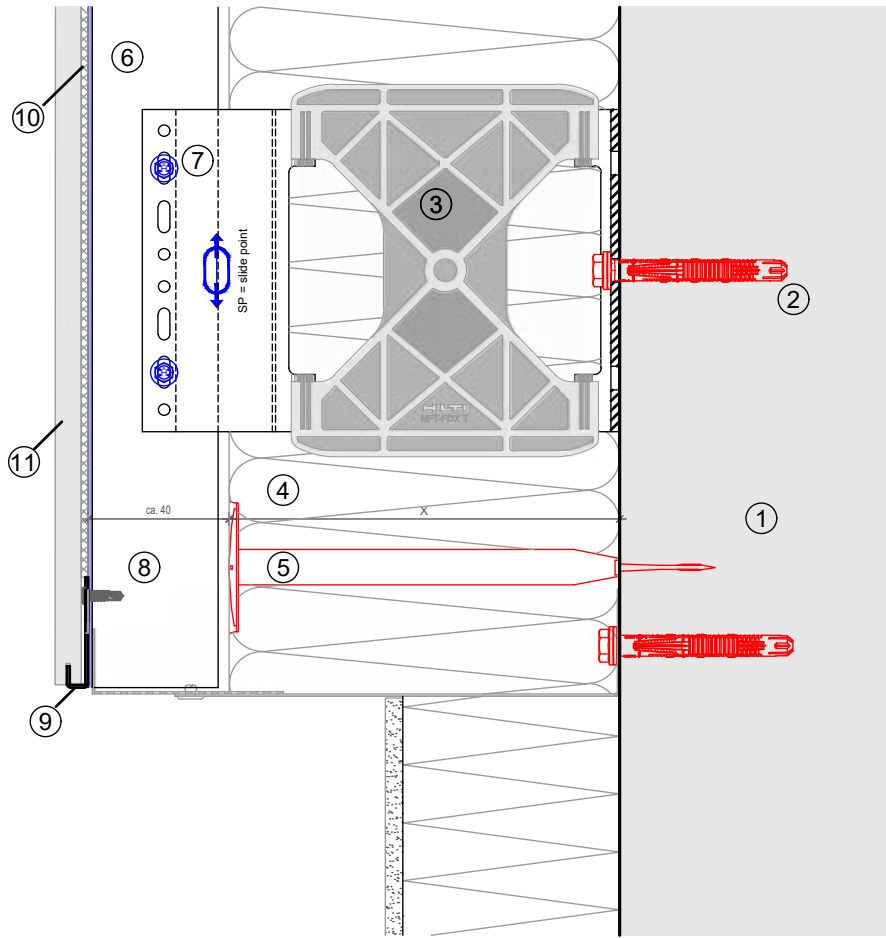
Vertical section-fixed point



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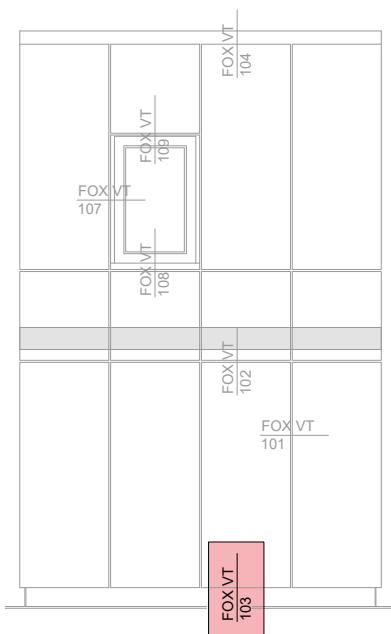


MFT-FOX VT 103



Legend:

- ① Base material
- ② Anchor acc. to static
- ③ Bracket and isolator
- ④ Insulation
- ⑤ Fixing insulation
- ⑥ Profile
- ⑦ Self drilling screw
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- ⑪ Cladding

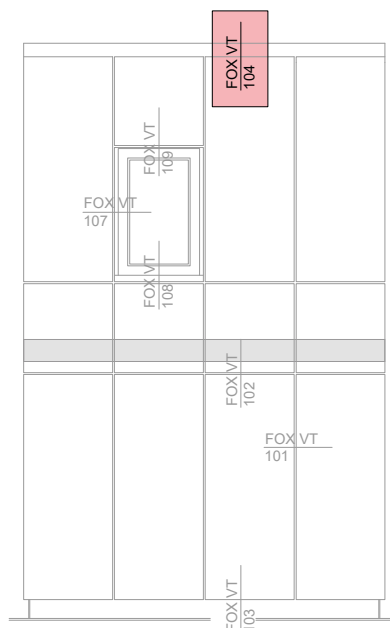
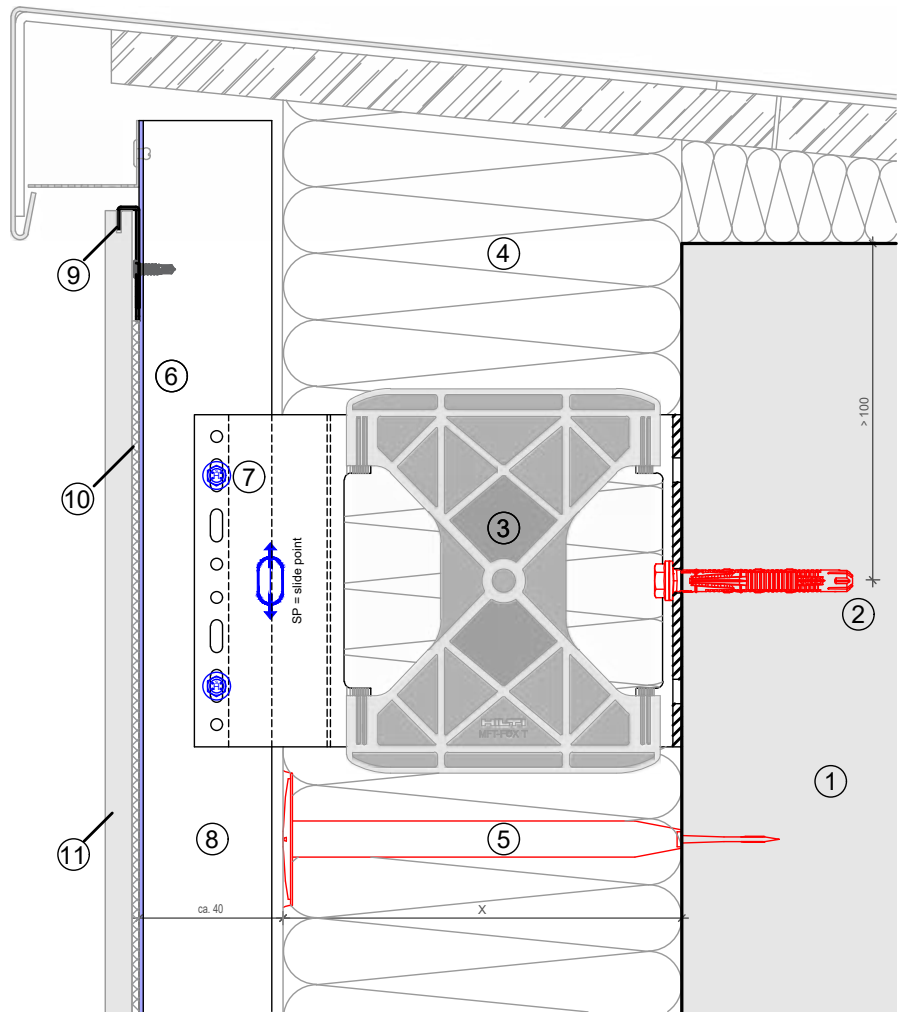


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MFT-FOX VT 104

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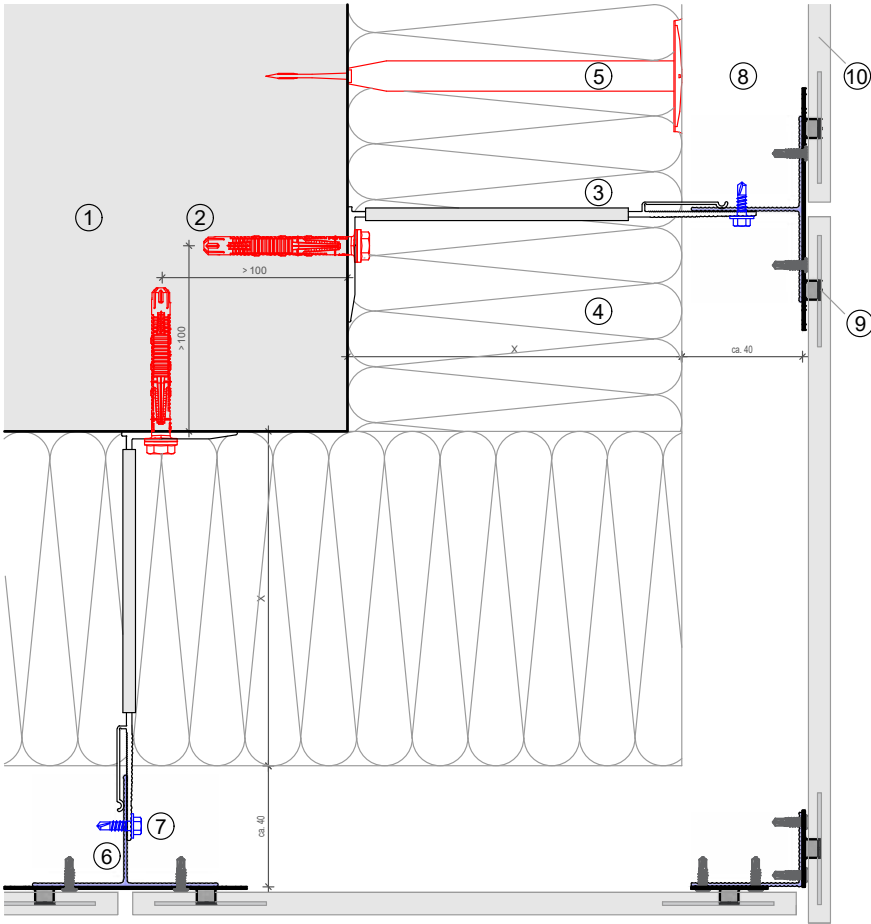
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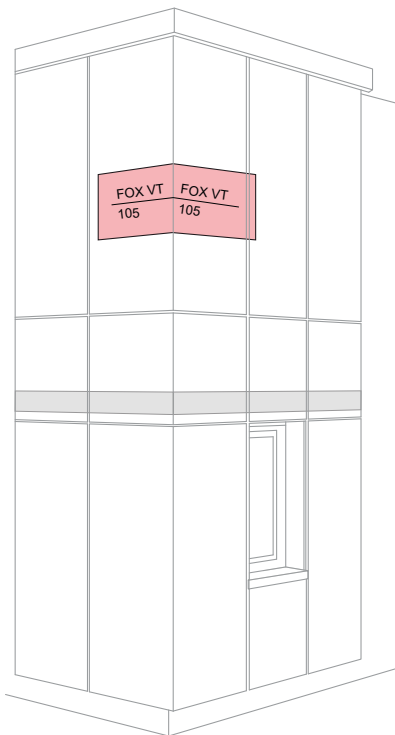


MFT-FOX VT 105



Legend:

- ① Base material
- ② Anchor acc. to static
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- ⑤ Fixing insulation
- ⑥ Profile
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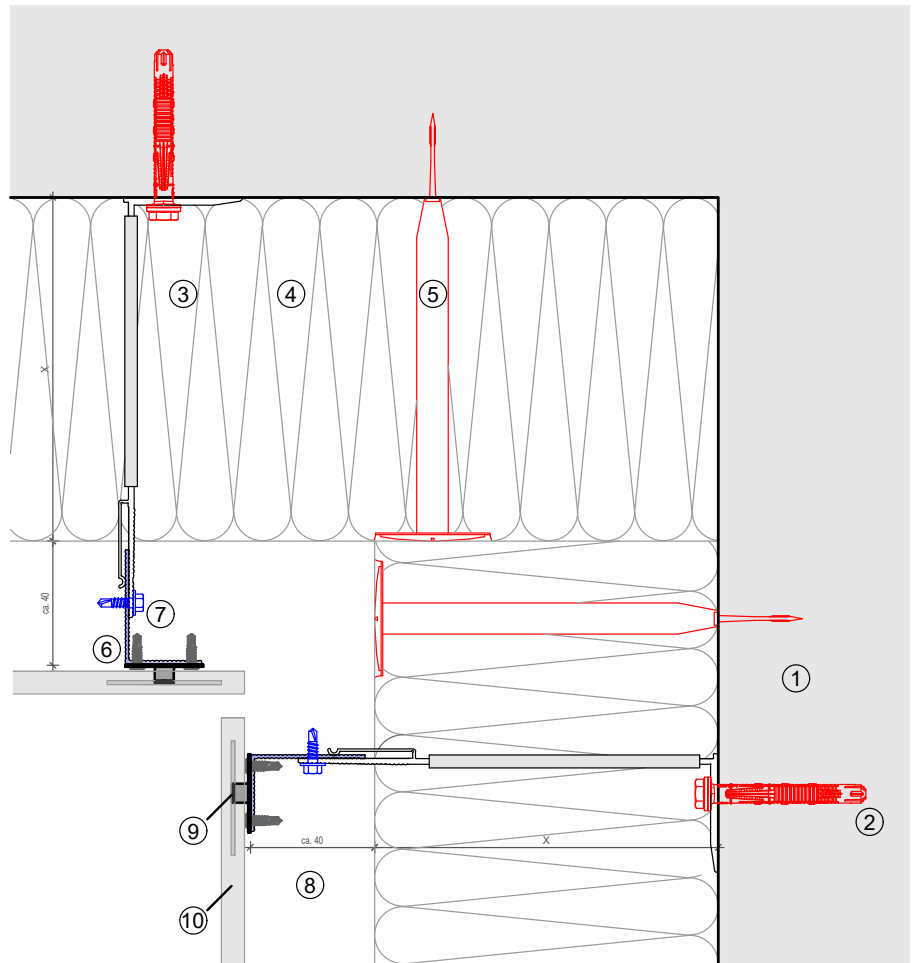


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MFT-FOX VT 106

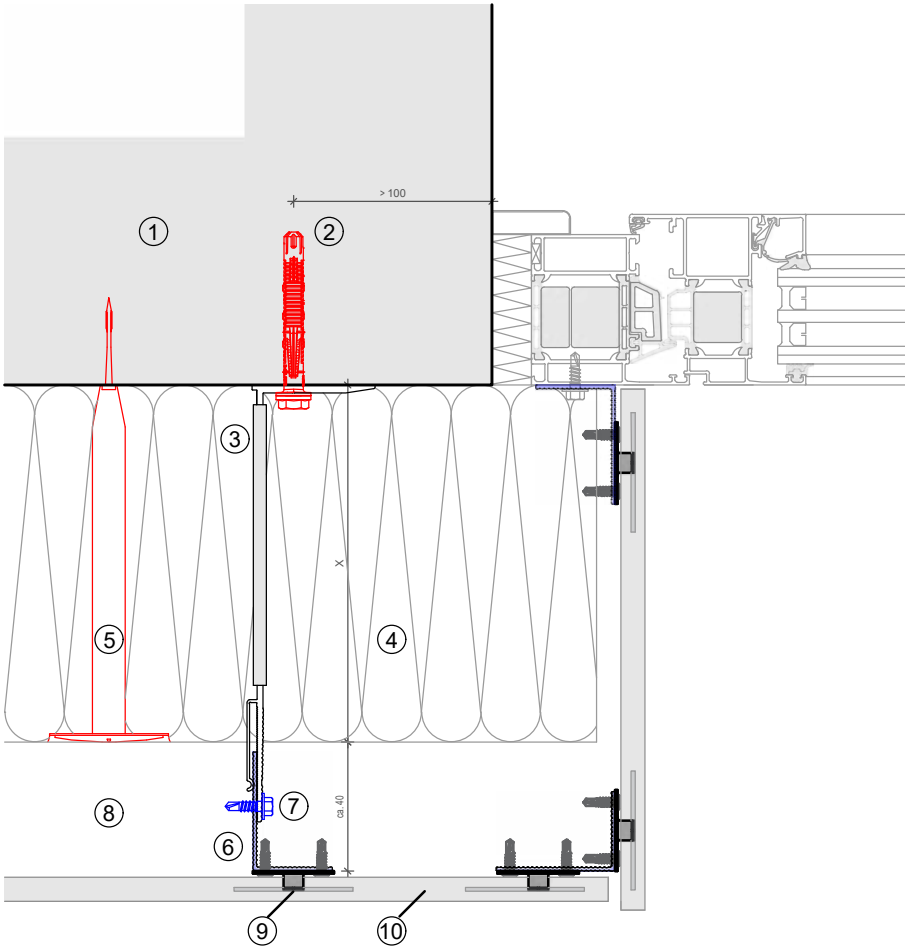
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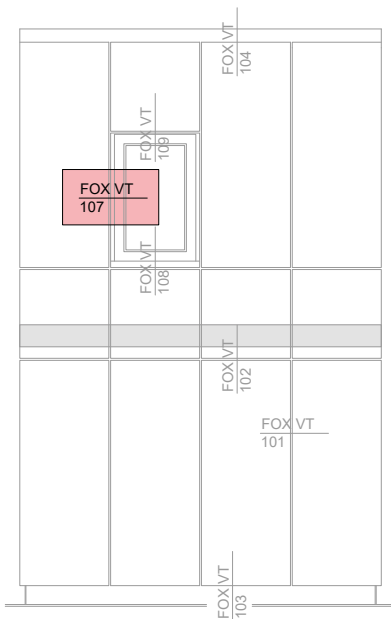
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MFT-FOX VT 107



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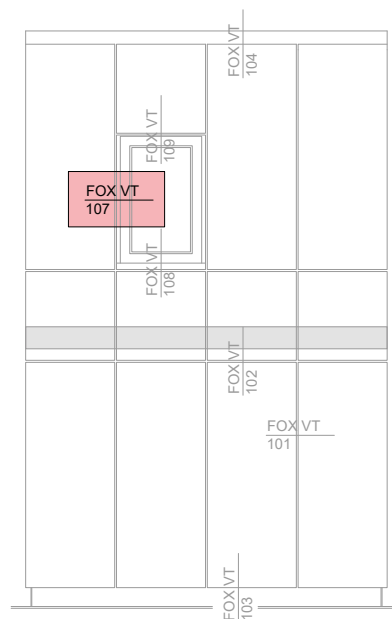
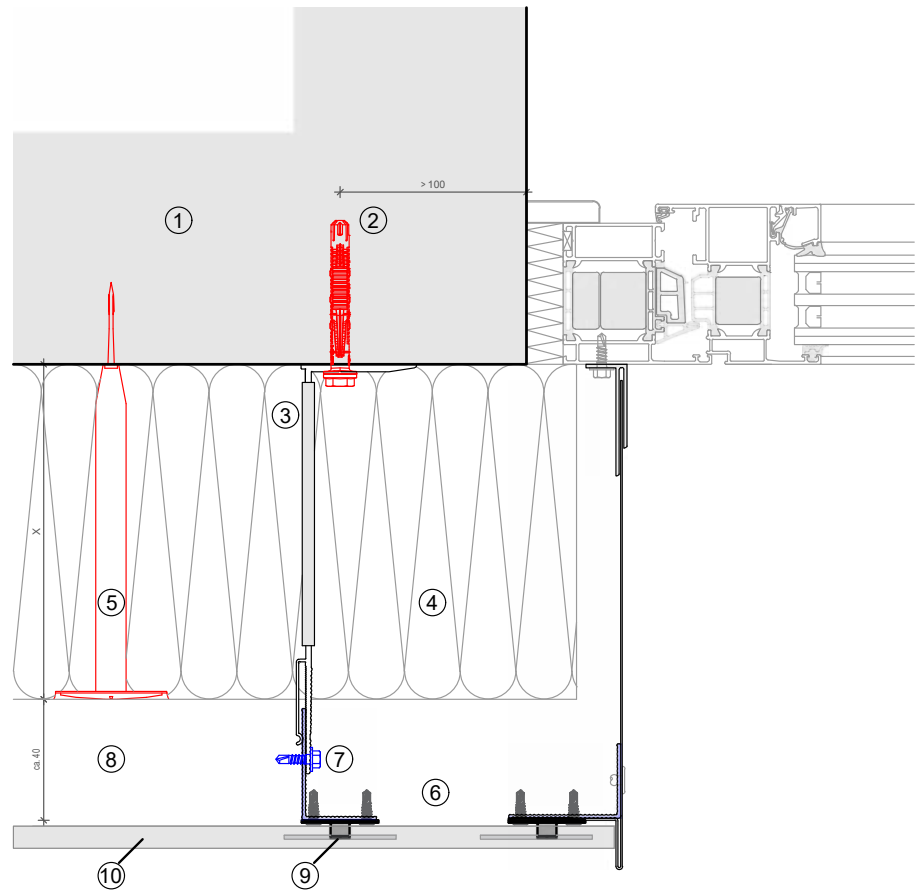


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MFT-FOX VT 107

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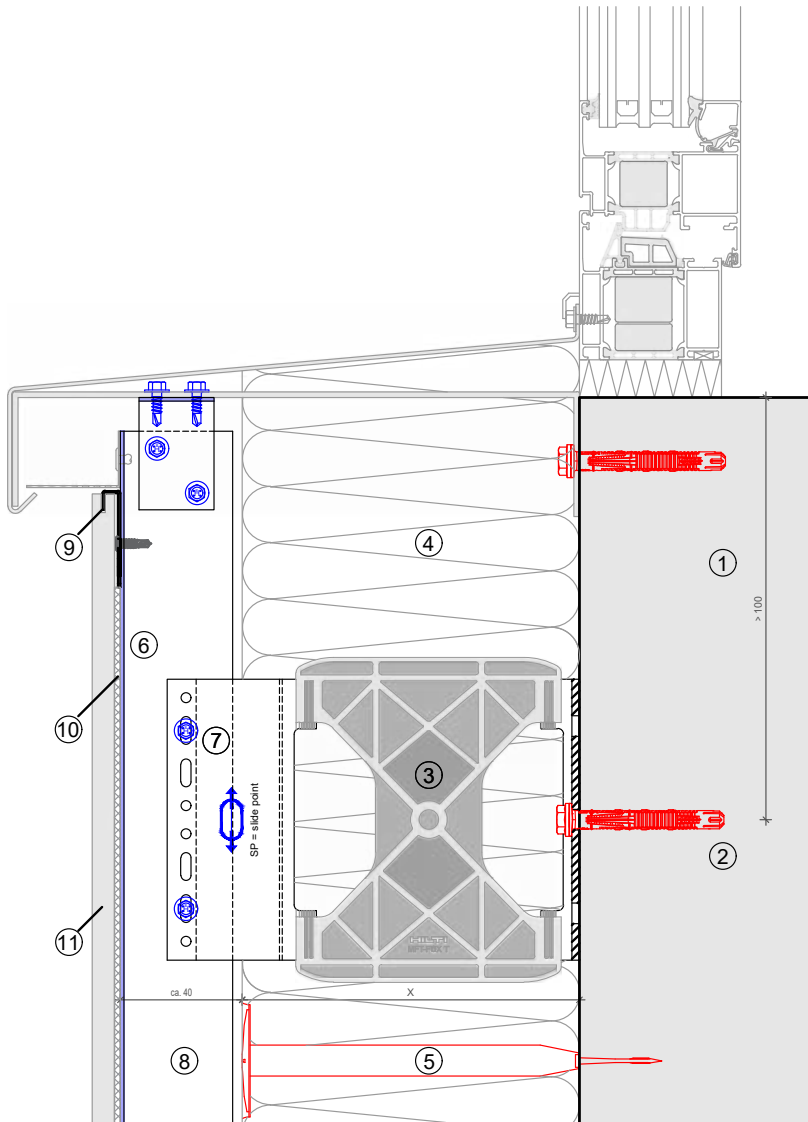
- ① Base material
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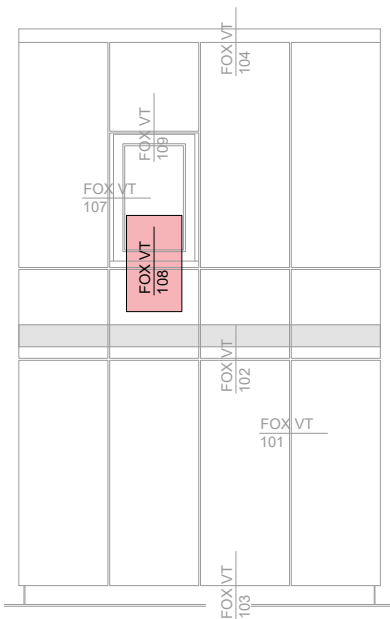


MFT-FOX VT 108



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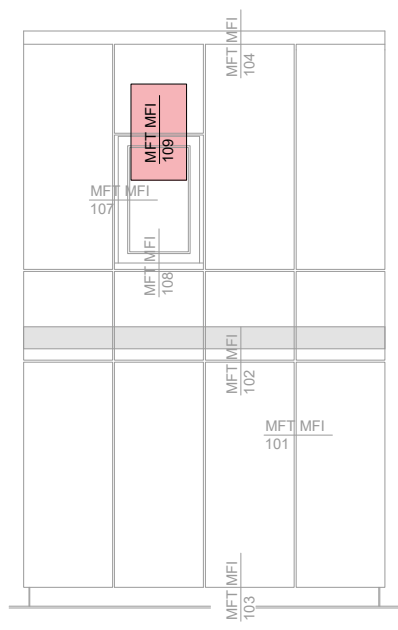
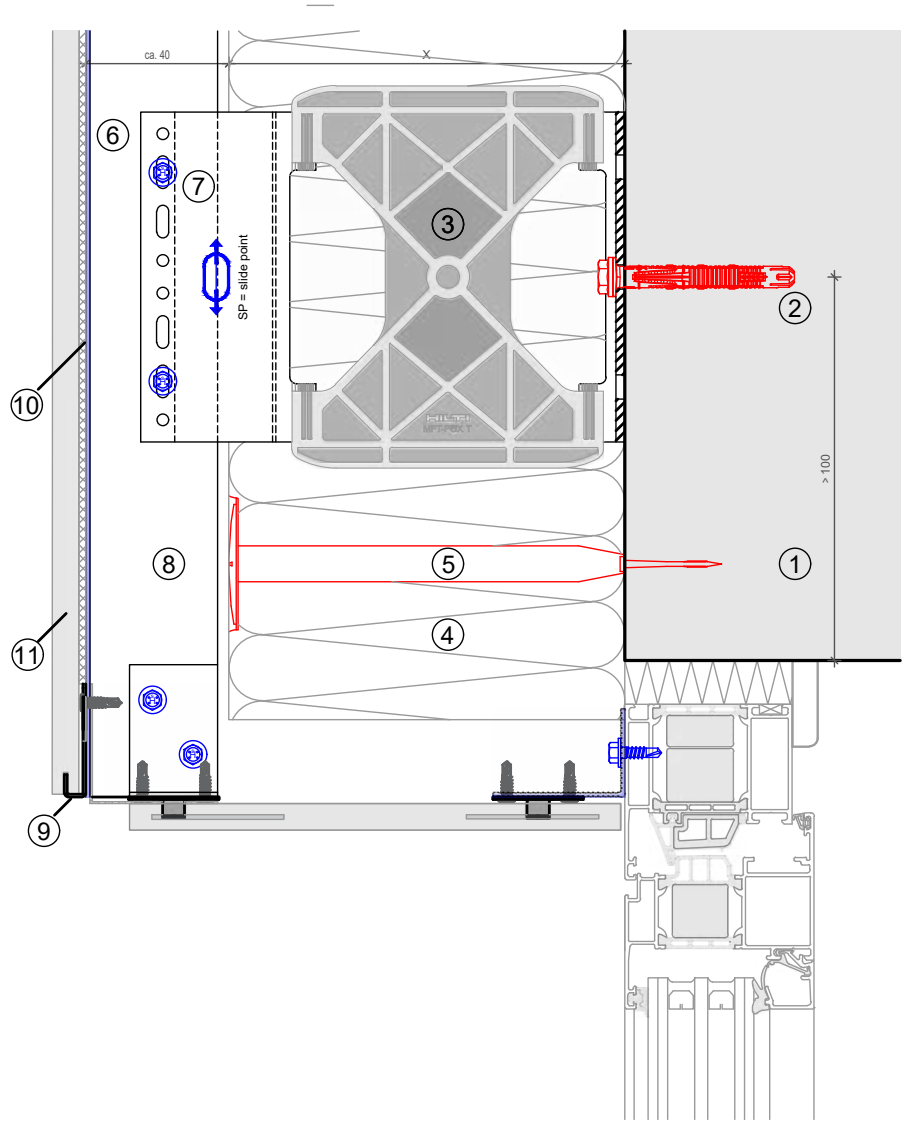


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MFT-FOX VT 109

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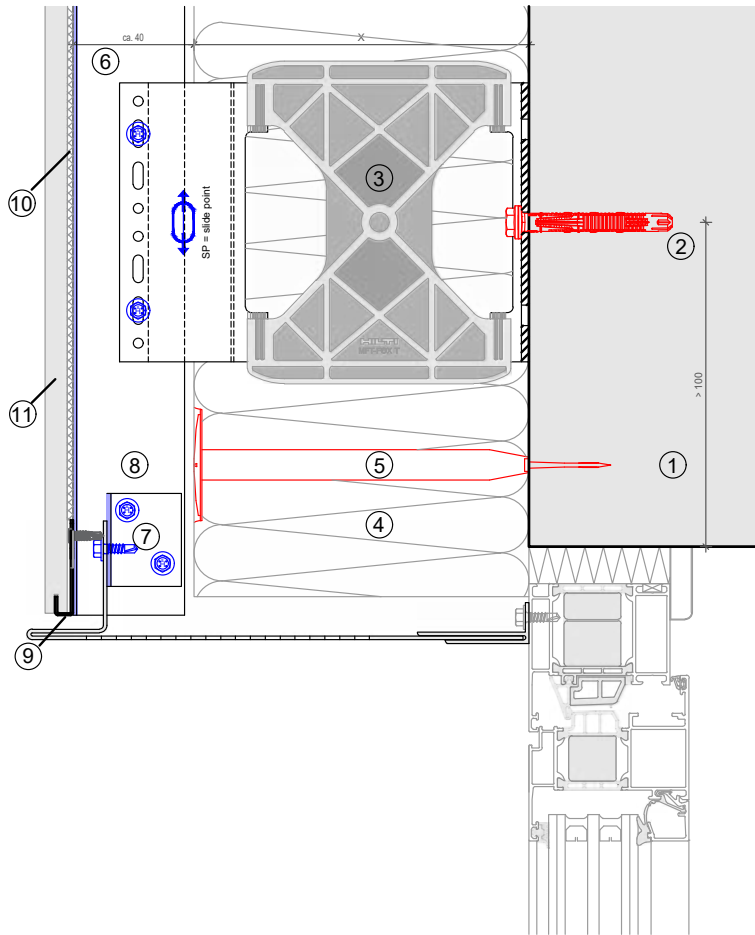
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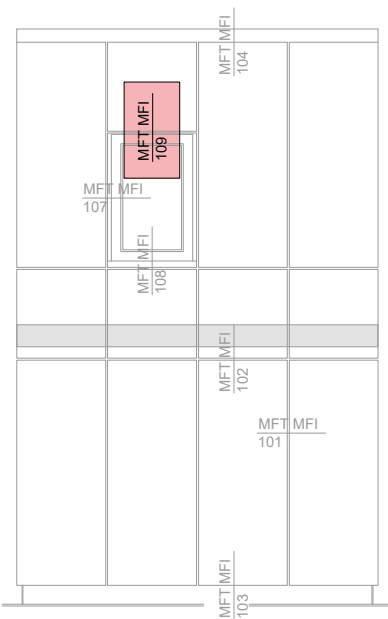


MFT-FOX VT 109



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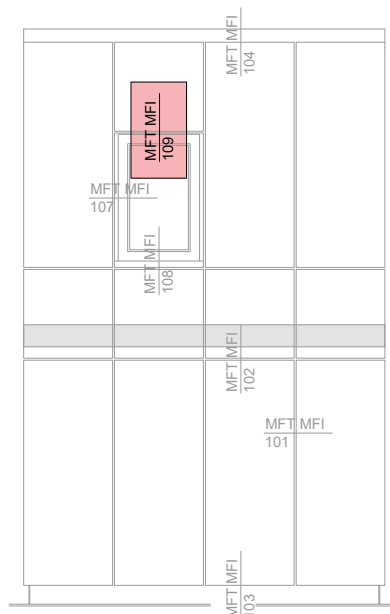
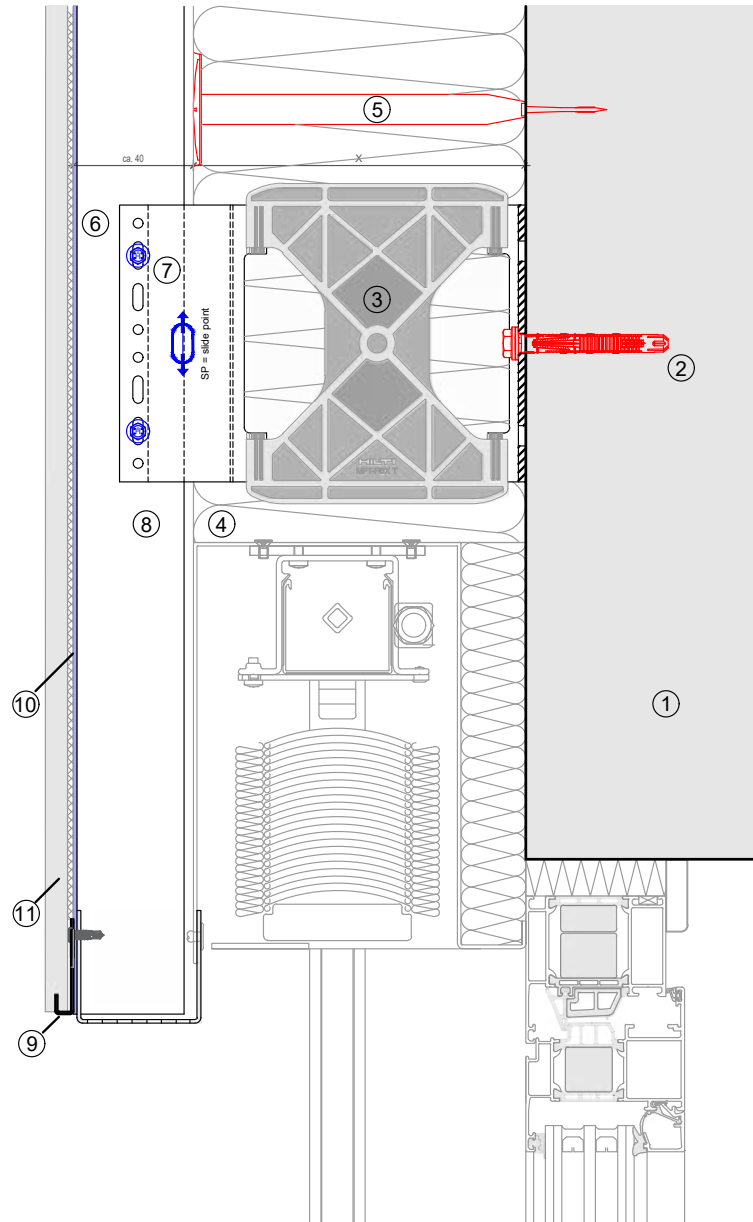


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MFT-FOX VT 109

Legend:

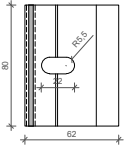
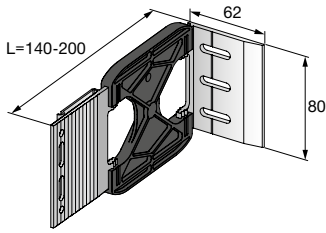
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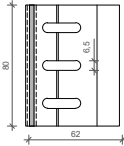
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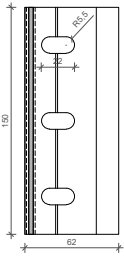
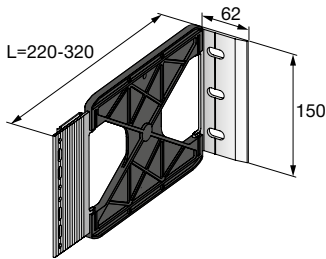
BRACKETS RANGE



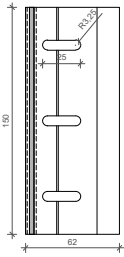
Anchor



Direct fastening
Screw fastening



Anchor



Direct fastening
Screw fastening

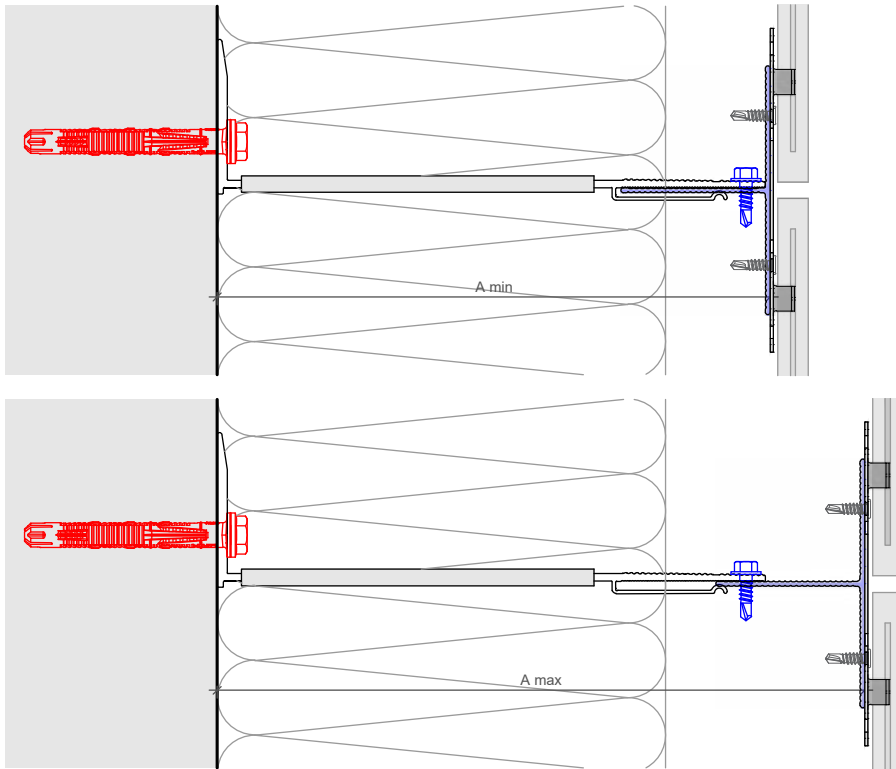
MFT-FOX VT Medium

Order Description	Item No.	Length
DIRECT FASTENING and SCREWS D=6,5 mm		
MFT-FOX VT 140 M 6,5	2096973	140 mm
MFT-FOX VT 160 M 6,5	2096975	160 mm
MFT-FOX VT 180 M 6,5	2096977	180 mm
MFT-FOX VT 200 M 6,5	2096979	200 mm
ANCHORS D=11mm		
MFT-FOX VT 140 M 11	2096974	140 mm
MFT-FOX VT 160 M 11	2096976	160 mm
MFT-FOX VT 180 M 11	2096978	180 mm
MFT-FOX VT 200 M 11	2096980	200 mm

MFT-FOX VT Large

Order Description	Item No.	Length
DIRECT FASTENING and SCREWS D=6,5 mm		
MFT-FOX VT 220 L 6,5	2096981	220 mm
MFT-FOX VT 240 L 6,5	2096983	240 mm
MFT-FOX VT 260 L 6,5	2096985	260 mm
MFT-FOX VT 280 L 6,5	2096987	280 mm
MFT-FOX VT 300 L 6,5	2096989	300 mm
MFT-FOX VT 320 L 6,5	2096991	320 mm
ANCHORS D=11mm		
MFT-FOX VT 220 L 11	2096982	220 mm
MFT-FOX VT 240 L 11	2096984	240 mm
MFT-FOX VT 260 L 11	2096986	260 mm
MFT-FOX VT 280 L 11	2096988	280 mm
MFT-FOX VT 300 L 11	2096990	300 mm
MFT-FOX VT 320 L 11	2096992	320 mm

BRACKET PROFILE ADJUSTMENT



Profiles	MFT-T 60x80x1,8 6m 60x100x1,8 6m 60x120x1,8 6m		MFT-T 40x80x1,8 6m		MFT-L 60x40x1,8 6m		MFT-L 40x40x1,8 6m"	
	A min*	A max*	A min*	A max*	A min*	A max*	A min*	A max*
Brackets								
MFT-FOX VT 140 M 6,5/11	141.8	181.8	141.8	161.8	140	181.8	140	161.8
MFT-FOX VT 160 M 6,5/11	161.8	201.8	161.8	181.8	160	201.8	160	181.8
MFT-FOX VT 180 M 6,5/11	181.8	221.8	181.8	201.8	180	221.8	180	201.8
MFT-FOX VT 200 M 6,5/11	201.8	241.8	201.8	221.8	200	241.8	200	221.8
MFT-FOX VT 220 L 6,5/11	221.8	261.8	221.8	241.8	220	261.8	220	241.8
MFT-FOX VT 240 L 6,5/11	241.8	281.8	241.8	261.8	240	281.8	240	261.8
MFT-FOX VT 260 L 6,5/11	261.8	301.8	261.8	281.8	260	301.8	260	281.8
MFT-FOX VT 280 L 6,5/11	281.8	321.8	281.8	301.8	280	321.8	280	301.8
MFT-FOX VT 300 L 6,5/11	301.8	341.8	301.8	321.8	300	341.8	300	321.8
MFT-FOX VT 320 L6,5/11	321.8	361.8	321.8	341.8	320	361.8	320	341.8

* The distance shown is valid for profile thickness of 1,8 mm..

PRODUCTS RANGE

Bracket fasteners

HUS-HR



HRD-H



HST-R



HSA-R



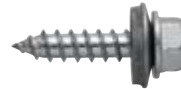
HIT-HY 270



HIT-HY 200-A



S-MP 53S



S-MD 51S / S-MD 53S / S-MD 55S



Direct fastening



Brackets

MFT-FOX VT Medium



MFT-FOX VT Large



PRODUCTS RANGE

Profiles

MFT-L



MFT-T



Profile fastener

S-AD



Accessories

MFT-ISO

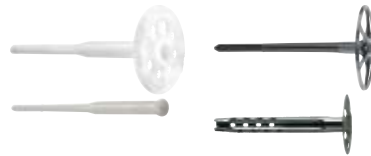


MFT-CH



Insulation fasteners

Insulation fasteners





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