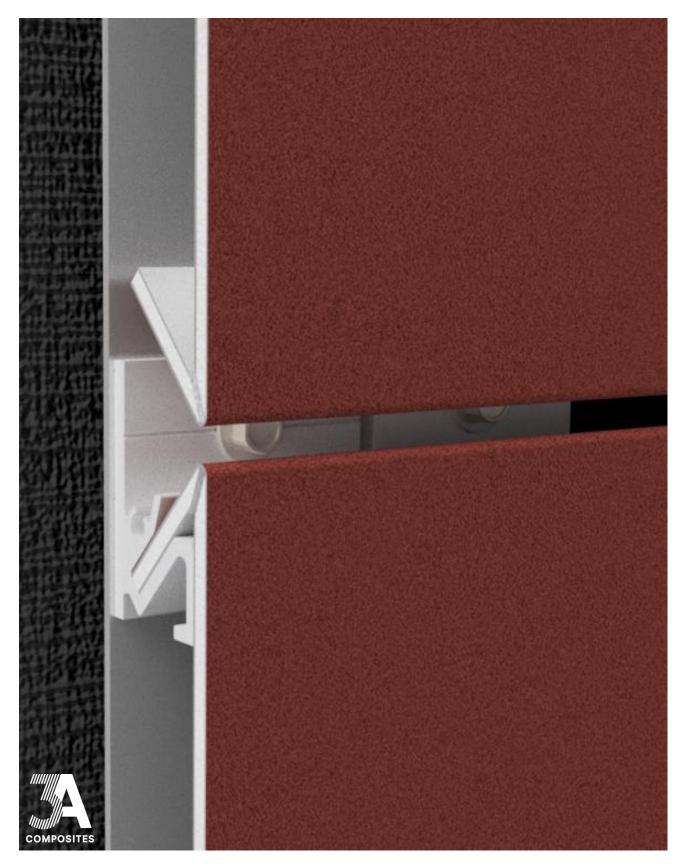
# ALUCOBOND<sup>®</sup> easy fiX

PROCESSING BROCHURE | easy fiX 135°/135°

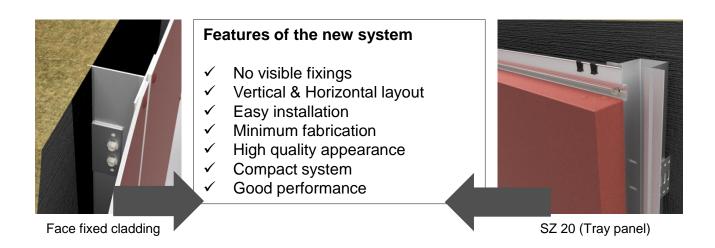


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#### The concept of ALUCOBOND® easy fiX is simple

Hybride solution between face fixed panels and cassette solutions



A new solution combining technology, ease of installation and architectural performance for new or renovated buildings.







### **GENERAL INFORMATION**

#### Concept

The concept of ALUCOBOND<sup>®</sup> easy fiX is a simple clamping solution with invisible fixing, in combining 2 types of folds





Simple fold 135°

Double fold 90°/90°

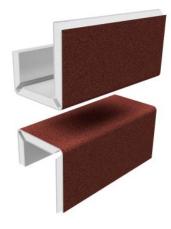
#### Possibilities of combination

Combination of 2 types of milling gives 3 different types of panels:



easy fiX 90°+135°





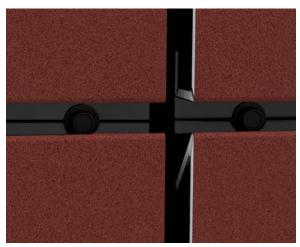
easy fiX 135°+135°

easy fiX 90°+90°

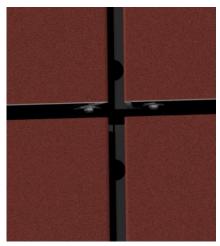
### **GENERAL INFORMATION**

#### Horizontal and vertical installation

ALUCOBOND<sup>®</sup> easy fiX panels can be installed with horizontal or vertical layout, and can also be mixed horizontal and vertical together.



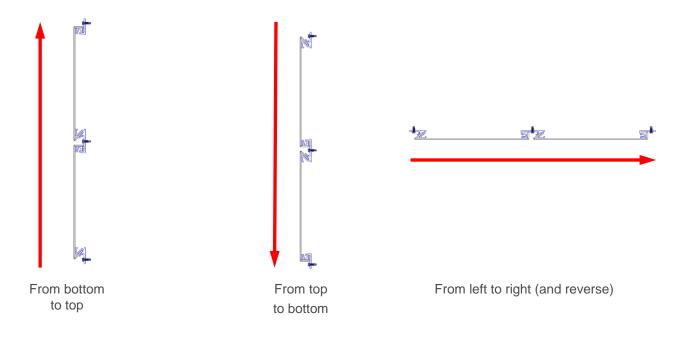
Horizontal layout



Vertical layout

#### Types of installation

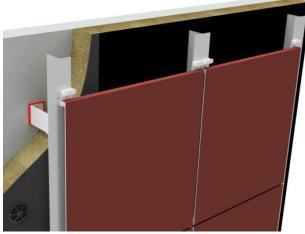
There are 3 possible types of installation:



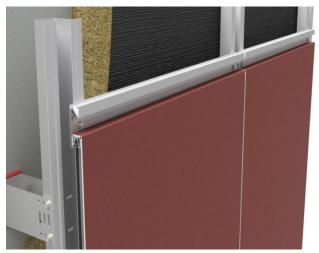
### **GENERAL INFORMATION**

#### Profiles

- easy fiX panels can be clamped with short profiles or with continous one.
- Possible to buy short profiles (60mm) or long profile (4 or 6 meters), blank or black anodised.



Point fixings



Linear fixing

#### Various Layouts

Optionally, the layout of the easy fiX cassettes can be horizontal and / or vertical. Thus leaving architectural freedom.

#### **Excellent edge finish**

The folding is made from a V-groove, the bending of the returns is easy with the finest rendering.

#### Invisible fixings

The clamping solution, both simple and economical, without adding rivets, gives an excellent visual rendering.

#### **Compact system**

Without rivets, the cassette thickness is reduced to 31mm, limiting the size of the cladding.

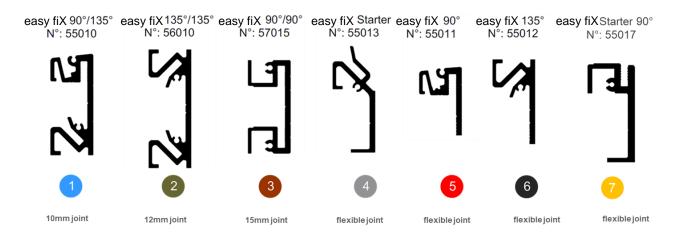
### COMBINATIONS

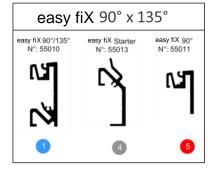
#### **Fixings**

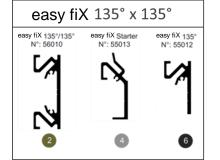
Combination of 2 types of milling gives 3 different types of tray panels:

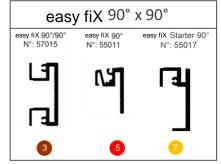
<ul> <li>3 milling lines/panel</li> <li>Better leveling</li> <li>Folding of easy fiX elements has a positive effect on environmental soiling on the front side</li> <li>Up to 10mm joint</li> <li>Linear and punctual fixings</li> <li>Not possible with Reflect 405</li> </ul>	<ul> <li>2 milling lines/panel</li> <li>Easy folding process</li> <li>Folding of easy fiX elements has a positive effect on environmental soiling on the front side</li> <li>Up to 12mm joint</li> <li>Linear and punctual fixings</li> <li>Not possible with Reflect 405</li> </ul>	<ul> <li>4 milling lines/panel</li> <li>Better leveling</li> <li>Cassette appearance</li> <li>Folding of easy fiX elements has a positive effect on environmental soiling on the front side</li> <li>Up to 15mm joint</li> <li>Only punctual fixings</li> <li>Possible with Reflect 405</li> </ul>

#### 7 Profiles resulting of the different combinations of folds









### Appearance 135°/90°

Appearance 135°/90°	Installation		Support	Joint	Fixing	
Appearance 155 / 90	bottom to top	top to bottom	minimum width	Joint	Point	Continuous
	1	1	40mm	10mm	✓	✓
	4 5	5 4	40mm	flexible	✓	✓
	5	6	100mm	flexible	✓	×

### Appearance 135°/135°

Appearance 135°/135°	Installation		Support	Joint	Fixing	
Appearance 155 / 155	bottom to top	top to bottom	minimum width	Joint	Point	Continuous
	2		40mm	12mm	✓	✓
		4 6	40mm	flexible	✓	✓
	6	6	100mm	flexible	✓	×

### Appearance 90°/90°

Appearance 90°/90°	Installation		Support	Labor	Fixing	
	bottom to top	top to bottom	minimum width	Joint	Point	Continuous
	3		40mm	≥15mm	~	×
	5	5	100mm	flexible	~	×
	<b>?</b> 3	I III	40 mm	flexible	×	×

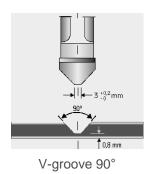
### Appearance 90°/135°

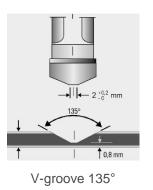
Appearance 90°/135°	Installation		Support	Joint	Fixing	
Appearance 50 / 155	bottom to top	top to bottom	minimum width	Joint	Point	Continuous
Variants	6	6	40mm	flexible	✓	✓
	4	4	40mm	flexible	✓	✓

#### Geometry of milling tools

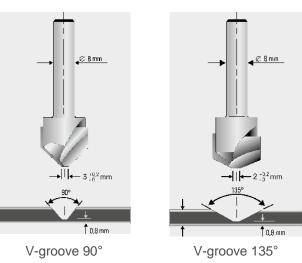
easy fiX tray panels are simply made with 2 types of milling lines:







Geometry for CNC machine



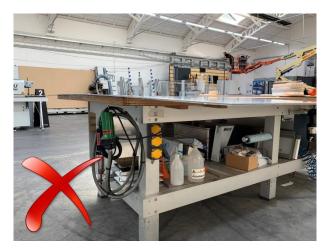
### FABRICATION

### Folding table

The folding table must have the same length than the panel.



The table is too short!



The edge is not straight!



The table is bigger than the panel

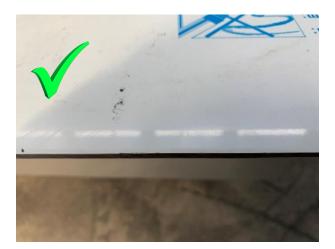


The edge is straight

### FABRICATION

### Folding technique

The protective foil should be well cut for a better folding.





Easyfix 90° N°: 55011

#### Folding technique

- The easy fiX 90° profile can be used as a bending aid.
- Punch the edge of ALUCOBOND<sup>®</sup> panel (120mm width)
- Then insert the panel into the profile and use it as a bending tool

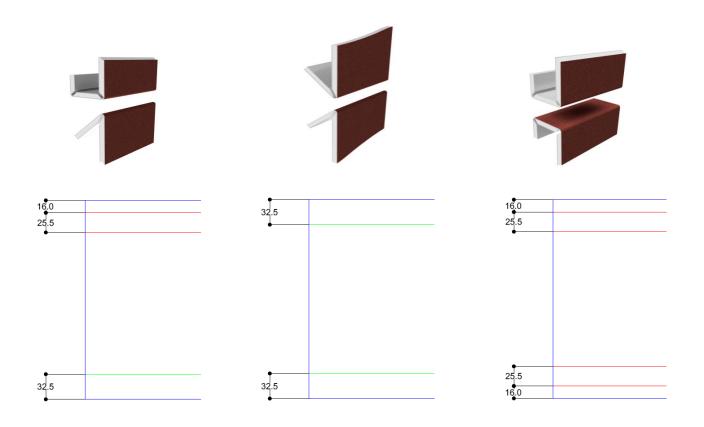
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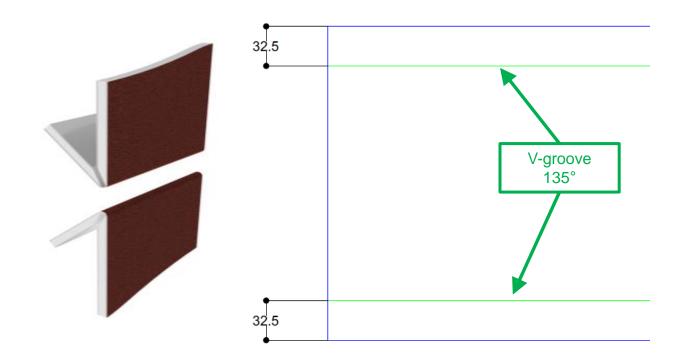


### Position of the routing lines

• Combination of 2 types of milling gives 3 different types of tray panels.

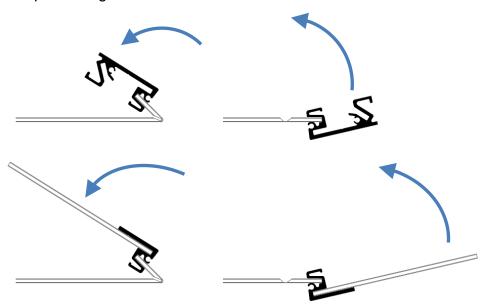


### Position of the routing lines

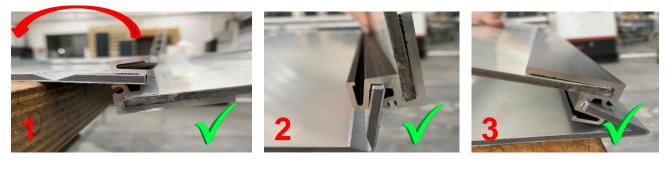


### Folding technique

• 2 types of fold = 2 folding techniques Simple folding 135°



- Position of the profile to make simple folding 135°
- Then cut the protective foil with the 3AC remover





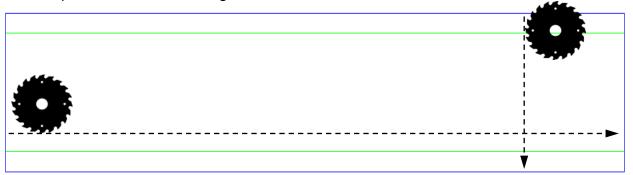
### easy fiX 135°/135°

#### Cut-to-size

1<sup>st</sup> step : Draw the cut lines on the rear side of the panel.



2<sup>nd</sup> step : Cut-to-size following the cut lines.

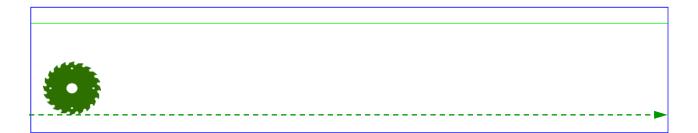


• Cut the panel with hand saw cutting machine Festool PF 1200 E-plus ALUCOBOND<sup>®</sup>.



#### Cut-to-size

3<sup>rd</sup> step : creating a new V-groove 135°



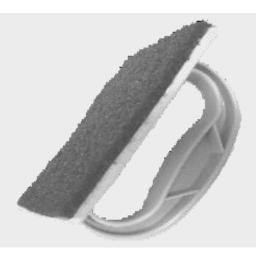
Position the hand milling machine Festool PF 1200 E-plus ALUCOBOND<sup>®</sup> or TSC 55 REB ALUCOBOND<sup>®</sup> and mill following the line.



The panel is now at the correct size to finalize facade.

### Cut-to-size

• The edges can be deburred to avoid cuts during the handling



The last panels can be delivered on the building site, bigger than necessary and with only one side milled.

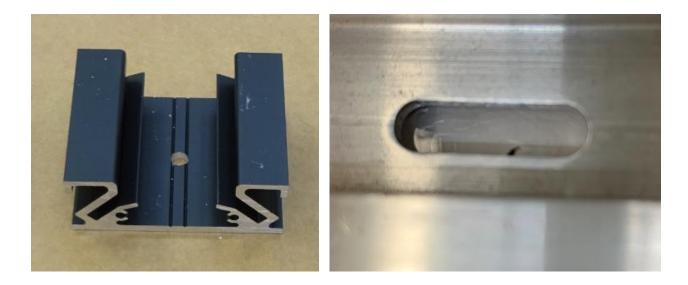
#### Cut-to-size

• In case trapeze shape, you can cut little piece of folds with the trimmer "original Lowe" (www.original-lowe.de) in case of parallelogram or trapeze shapes.



#### Hole diameter on profiles

• The short profiles must be 60mm length and have 1 countersunk hole Ø6mm. The long profile must have 1 hole Ø6mm to create a fix point, and the others must be slot holes 6x20mm, for thermal expansion issues.



#### Fixings

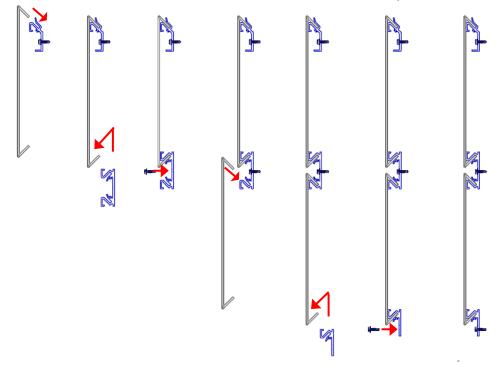
In the countries where national approval is mandatory, screws must have approval for examples:

Screws for aluminium substructure:

- Ejot: JT4-6-5,5x22 - JT9-VARIO
  - JT4-FR-4-4,8x19
- SFS: SDA5
   SFS 12–16 ACM Countersunk screw (Ref. 1550984)
- Hilti: S-AD x1 LPS5 5,5 xL
   S -AD x1 LSS 5,5xL
   S-MD x1 LSS 5,5 xL

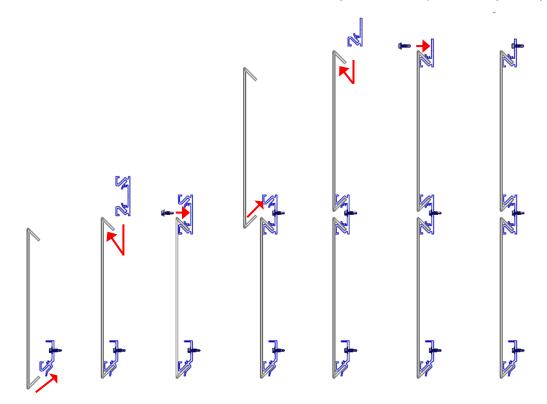
#### Installation – horizontal layout – from top to bottom

- easy fiX panels can be installed horizontally from top to bottom
- The installation is the same than from bottom to top



### Installation – horizontal layout – from bottom to top

- easy fiX panels can be installed horizontally from bottom to top
- The installation is the same than from top to bottom (reversed panel/profile)



Level the starting profiles, then insert the panel into the profiles



### Installation – horizontal layout – from top to bottom

• Insert the profiles into the bottom fold and slide it in front of the support



• Insert the panel into the profiles



### Installation – horizontal layout – from top to bottom

Insert the panel into the profiles



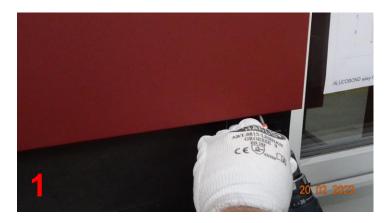
• Insert the end profile into the bottom fold and slide it in front of the support



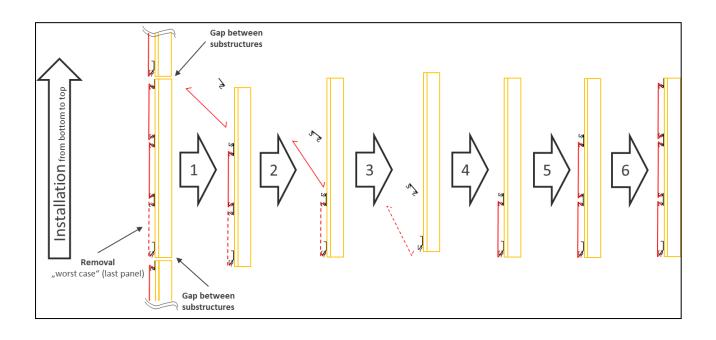


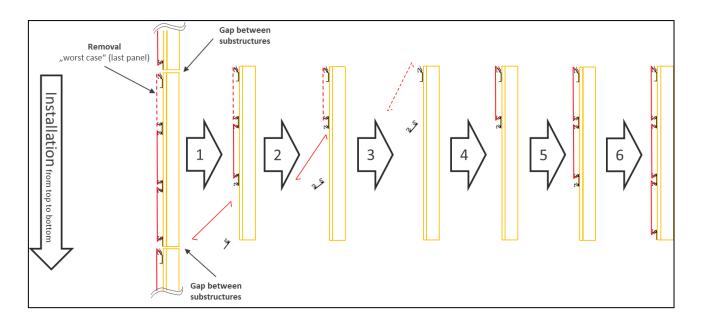
### Fixed points –for point fixing

- Position screw between profile and panel
- Screw in the screw without touching the panel



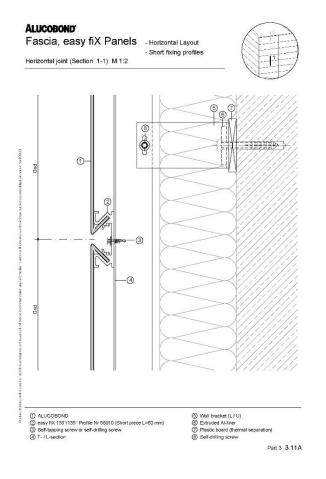






### Technical details - horizontal layout

Horizontal joint

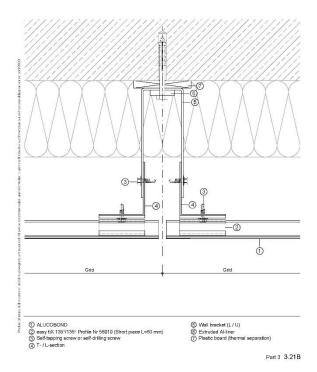


#### ALUCOBOND'

Fascia, easy fiX Panels - Horizontal Layout - Short fixing profiles

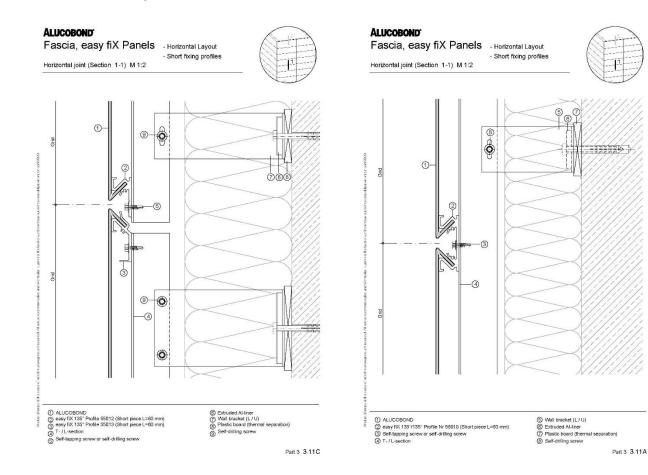
Vertical section see page 3.10A



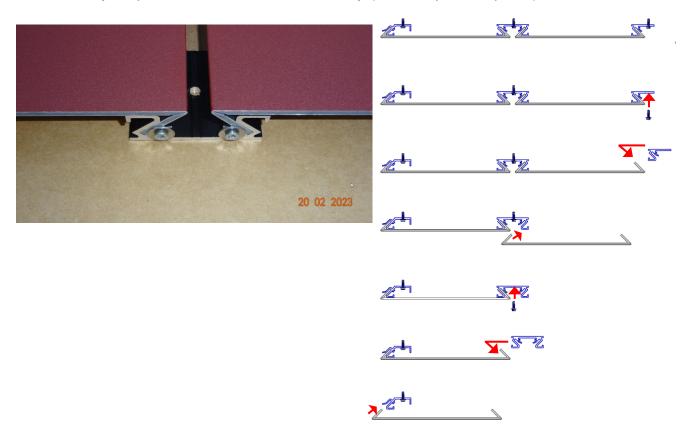


### Technical details - horizontal layout

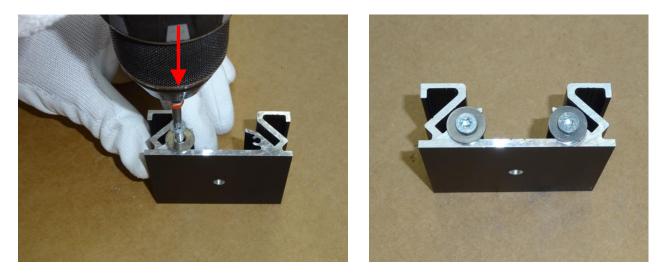
Horizontal joint



easy fiX panels can be installed vertically (no fixed point required)

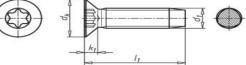


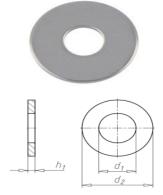
There are channels on each easy fiX profiles, they can be used to fix washers and screws, in order to support the panels.



• Support for vertical panels



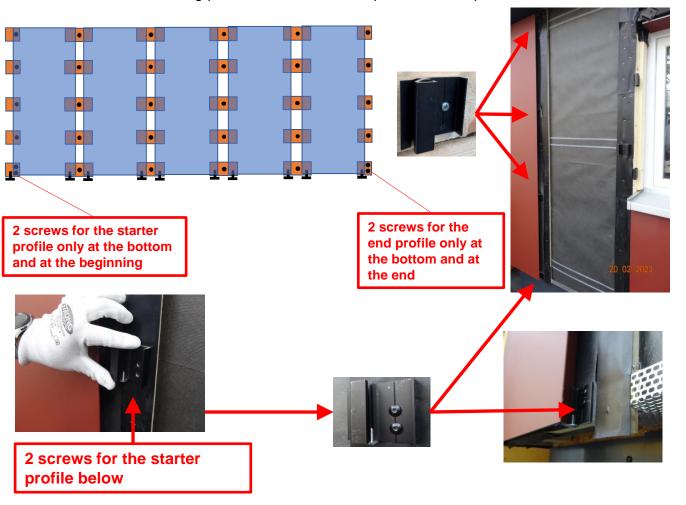




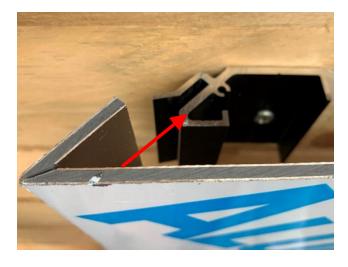
Washer stainless steel h=1,2mm d1=5,3mm d2=15mm

GEFU<sup>®</sup> thread-forming screw with Taptite 2000<sup>®</sup> thread Stainless steel A2 bright TX countersunk head SHR-SEKPF-TT2000-TX20-A2-M4.0X16 TAPTITE2000

Level the starting profiles, then insert the panel into the profiles



Insert the panel into the starting profiles



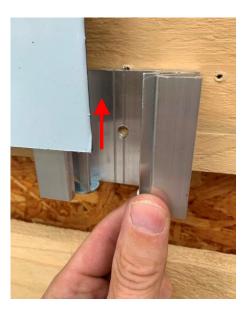


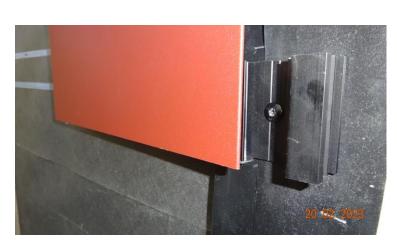


• Insert the profiles into the fold on the right



• Slide the profile in front of the support, only 1 screw is required for the bottom intermediate profiles



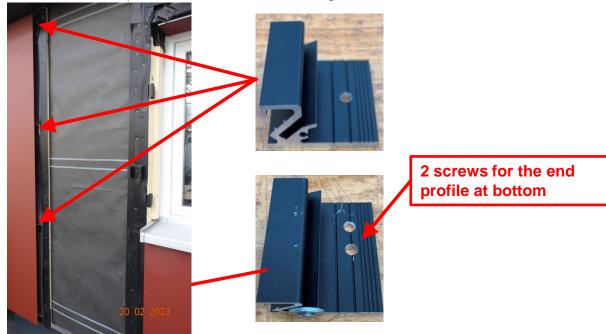


Insert the panel into the profiles

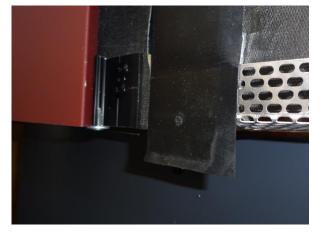




Insert the end profiles into the fold on the right



• Slide the end profile in front of the support, 2 screws are required for the bottom profile

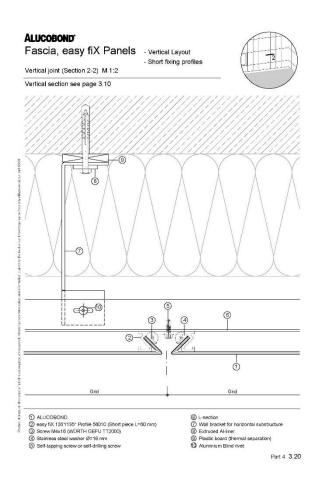


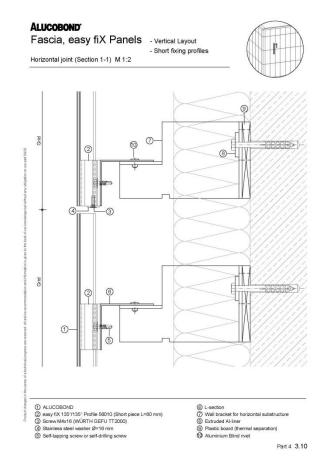




### Technical details - vertical layout

Vertical joint





## Next & Beyond. **ALUCOBOND**<sup>®</sup>



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