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Polycarbonate Architecture

Poly Pac

arcoPlus[®] Connectable

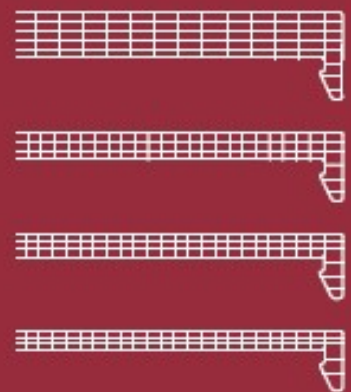
Translucent Cladding Systems

626

6.12.4

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arcoPlus[®]



dott.gallina

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1 – System definition

arcoPlus® connectable Facade systems are used to create lighting glazing for applications such as cladding or roof “saw tooth”. They are made of cellular polycarbonate panels, anti - UV co-extruded on both sides.

arcoPlus® connectable Facade systems have got specifically designed lateral edges allowing a single clip-on position for aluminium or polycarbonate connectors.

Two principles of installation:

- Normal installation : internal aluminium connectors.
- Reverso installation: external connectors (aluminium or polycarbonate).

Two grids of arcoPlus® connectable panels are available:

- 600 mm with thickness : 8, 10, 12 & 20 mm
- 900 mm with thickness : 20, 25 & 32 mm,

arcoPlus® connectable Facade systems can be used without any restriction of width or height on works to be realized. A maximum slope of 15° (positive or negative) from the vertical is admitted without any junction between connectors. For a facade with positive slope, the maximum height is limited to 6 meters.

Nota: Under some constraints (structural, thermal, colored, solar...); the expansion moving can generate deformation of the arcoPlus® connectable Facade systems with or without acoustic discomfort.

2 – Field of application of the system

ArcoPlus® connectable systems are suitable for cladding and glazing purposes on new or refurbished buildings of all categories while respecting:

- Regulations in force on a general level

arcoPlus® connectable systems scan be used for any building type (industrial, air-conditioned offices, schools, hospitals, sport centres, housing, swimming pool...), would they be heated or not, however not refrigerated. They can also be installed in any humidity level (pressure <15mmHg) environments (ie: swimming pools).

arcoPlus® connectable systems do not contribute to the functions of loads transmission, bracing and shock resistance for security purpose (railing function). Those functions are dealt with by the supporting structure.

Any application falling out from those criteria can be submitted to our technical department to be assessed within a specific analysis.

3 – Technical assistance

Technical assistance and distribution over France and UK are provided by Poly-Pac, ZA La Porte de Ker Lann, Bruz (France).

Poly-Pac analyse the solution best suited to the project and develop a detailed list of panels, profiles and accessories required for the installation.

Even though Poly-Pac does not install, the company can attend the beginning of the implementation and provide advices at customer request.

4 – Panel specification

• 900 mm width :

| | 932-7 | 925-7 | 920-7 |
|-------------|-------|-------|-------|
| Width (mm) | 900±2 | 900±2 | 900±2 |
| Thick(mm) | 32 | 25 | 20 |
| Weight (kg) | 4.30 | 4.00 | 3.50 |
| AR | ✓ | ✓ | ✓ |
| IR | ✓ | ✓ | ✓ |
| Bicolor | ✓ | ✓ | ✓ |
| UV Tech | ✓ | ✓ | ✓ |
| UV Matt | ✓ | ✓ | ✓ |
| AG / HP | ✓ | ✓ | ✓ |

• 600 mm width:

| | 626 | 6124 | 6104 | 684 |
|-------------|-------|-------|-------|-------|
| Width (mm) | 600±2 | 600±2 | 600±2 | 600±2 |
| Thick (mm) | 20 | 12 | 10 | 8 |
| Weight (kg) | 3.20 | 2.50 | 2.2 | 1.85 |
| AR | ✓ | ✓ | ✓ | ✓ |
| IR | ✓ | ✓ | ✓ | ✓ |
| Bicolor | ✓ | X | X | X |
| UV Tech | ✓ | ✓ | ✓ | ✓ |
| UV Matt | ✓ | ✓ | ✓ | ✓ |
| AG / HP | ✓ | ✓ | ✓ | ✓ |

AR: Anti-glare treatment (visual comfort, prevent from neon effect)

IR: Infrared treatment (prevent from heat increase within the building)

UV Tech: Reinforced UV Protection – 15-year warranty.

UV Matt: External matt finish

AG/HP: Anti-graffiti – high protection

Panels are available in various colours. Please refer to our Caleido range.

4.1 Thermal expansion

While installing the panels, it is essential to check on the polycarbonate panels covering section (in mm) of the aluminium profile according to the following chart:

| Installation T° C | Panel length in m | | | | |
|----------------------|-------------------|----|----|----|----|
| | 1 | 3 | 5 | 7 | 8 |
| 0°c | 20 | 23 | 25 | 27 | 29 |
| 15°c | 22 | 26 | 31 | 35 | 39 |
| 30°c | 23 | 30 | 36 | 42 | 48 |

| Installation T° C | Panel length in m | | | |
|----------------------|-------------------|----|----|----|
| | 10 | 12 | 14 | 16 |
| 0°c | 30 | 31 | 33 | 37 |
| 15°c | 41 | 44 | 47 | 53 |
| 30°c | 53 | 56 | 62 | 70 |

The covering section « R » must be respected (please refer to drawings on pages 23 to 24).

The linear expansion coefficient is 0,065mm/ml/°C.

Panels are freely expanding within the connectors and the top lateral profiles.

Expansion works towards the top in normal installation, and towards the bottom in reverse installation.

Expansion over the width of the facade is contained by the connectors juxtaposition system.

4.3 – Thermal specifications

| Panel | Uc (W/m².K) | ψi (W/m. K) | χk (W/k) |
|-------|-------------|-------------|----------|
| 932-7 | 1.26 | 0.16 | 0.06 |
| 925-7 | 1.42 | 0.16 | 0.06 |
| 920-7 | 1.67 | 0.16 | 0.06 |
| 626 | 1.69 | 0.16 | 0.06 |
| 6124 | 2.49 | 0.16 | 0.06 |
| 6104 | 2.73 | 0.16 | 0.06 |
| 684 | 3.05 | 0.16 | 0.06 |

Report CSTB: DER/HTO 2010-177-RB/LS &

DEIS/HTO 2016-034-KZ/LS-N° SAP 70052175

Uc: Thermal coefficient in the core part of the panel (in between connectors)

ψi et χk: Thermal coefficient alongside the connectors.

4.4 – Shock resistance

| Panel | External shocks | Internal shocks |
|-------|-----------------|-----------------|
| 932-7 | Q4 | O3 |
| 925-7 | Q4 | O3 |
| 920-7 | Q4 | O3 |
| 626 | Q4 | O3 |
| 6124 | Q4 | O3 |
| 6104 | Q4 | O3 |
| 684 | Q4 | O3 |

Report: GINGER CEBTP n°ORE6.B.0015 du 13/09/2011 according to the norm P08-302 (October 1990) and CSTB booklet 3534 (December 2005).

4.5 – Interior /exterior sound absorption

| Panels | Interior | Exterior | Rw (C, Ctr) |
|--------|-----------|-----------|--------------|
| 932-7 | 21 dB(A) | 21 dB(A) | 22 (-1 ; -1) |
| 920-7 | 22 dB (A) | 20 dB (A) | 23 (-1 ; -2) |
| 626 | 18 dB(A) | 16 dB(A) | 19 (-1, -4) |

Report CFI d’Andrésy n° ACOU/09/03

Phonic Test according to norms ISO 140-4 and UNI ISO 10140.

Report EUROFINS N° EPT.16.AVM.007/53941 dated 20/01/16 & EPT.16.AVM.0008/53941 dated 21/01/16.

4.6 – Optical characteristics

| Panel | Colour | Light transmission (LT) % | Solar Factor (SF) % |
|-------|---------|---------------------------|---------------------|
| 932-7 | Cristal | 53 | 60 |
| | Opale | 41 | 52 |
| | Green | 29 | 49 |
| | Red | 9 | 50 |
| 925-7 | Blue | 40 | 57 |
| | Cristal | 54 | 60 |
| 920-7 | Opale | 43 | 53 |
| | Cristal | 55 | 60 |
| 626 | Opale | 43 | 53 |
| | Cristal | 58 | 58 |
| | Opale | 33 | 45 |
| | Green | 55 | 58 |
| | Red | 11 | 49 |
| | Mauve | 14 | 51 |
| 6124 | AL Grey | 5 | 5 |
| | Cristal | 68 | 66 |
| 6104 | Opale | 36 | 48 |
| | Cristal | 69 | 66 |
| 684 | Opale | 38 | 49 |
| | Cristal | 70 | 67 |
| | Opale | 42 | 51 |

Study report CSTB n° DER/HTO 2010-177-RB/LS & n° EMI -26057688-1.

4.7 – Fire resistance

| Panel | Fire classification | Combustible Mass (MJ/m²) |
|-------|---------------------|--------------------------|
| 932-7 | B, s1-d0 | 128 |
| 925-7 | B, s1-d0 | 119 |
| 920-7 | B, s1-d0 | 104 |
| 626 | B, s1-d0 | 95 |
| 6124 | B, s1-d0 | 75 |
| 6104 | B, s1-d0 | 66 |
| 684 | B, s1-d0 | 55 |

Report AFITI LICOF n°2607T13-2 dated 14/06/2013 & n°2900T15-2 dated 07/01/2016

4.8 – Storage

arcoPlus® systems should be stored avoiding exposure to direct sunlight and rain. Should storage be outside, it should not be directly in contact with the ground (a ventilation space must be kept) and should be protected with a light-coloured non-transparent tarpaulin.

To avoid oxidation, untreated aluminium profiles should be unpacked straight away after unloading to avoid any contact with potential residual humidity within the package and stored in a dry environment. In any case, untreated aluminium profiles should not be kept in contact of each others in a humid environment.

Do not store more than two pallets on top of each other.

In case of heavy wind, use straps.

4.9 – Resistance to chemical agents

arcoPlus® connectable panels have good resistance to most chemicals with which it is likely to come into contact during normal use.

| Chemical agents | Resistance |
|----------------------------|-----------------|
| Diluted acids | Good |
| Concentrated acids | Average to good |
| Alkali | Low to average |
| Organic solvents – alcohol | Good |
| Chlorinated hydrocarbons | Low |
| Aromatic hydrocarbons | Low |
| Aliphatic polycarbonates | Low |
| Lubricating oils | Good |
| Detergents | Good |

The AG/HP treatment improves the resistance to chemical agents.

Preliminary tests are recommended in case of intense or specific exposure. Use of solvent must be avoided.

5 – Maintenance

arcoPlus® panels should be frequently cleaned with mild soapy water (neutral detergent) and thoroughly rinsed with clear water. Do not use warm water.

Do not use organic solvents, abrasive or alkaline products.

5.2 – How to replace a panel?

Cladding normal installation

(Inside connectors)

1. Remove epdm gasket.
2. Unclip the frontal opening aluminium profile.
3. Using a portable grinder with a diamond disc, cut the damaged panel carefully, alongside the connector.

A guide could be used in order to protect the other panels against any damage.

Then unclip the weakened panel.

4. Starting from the bottom, install the replacement panel.
5. Put back in place the frontal opening aluminium profile, and finally clip back the epdm gasket on.

14.2 – Cladding reverso installation

(outside connectors)

1. Starting from the bottom, unclip the connector.
2. Starting from the bottom, push the panel from the inside to the outside of the building in order to remove the panel from its fixing halters.
3. Slightly bend the edge of the fixing halters
4. Put the new panel in place.
5. Put the fixing halters back in place using a hammer.
6. Clip the connector back on.

When using the aluminium connectors ref. 4310 or 4499, you need to loosen the lateral screws before unclipping and then to tighten them after clipping the connector back on.

6 – Simplified field of application for the system according to AWW (air, water, wind)

6.1 - arcoPlus system 932-7, 925-7, 920-7, 626

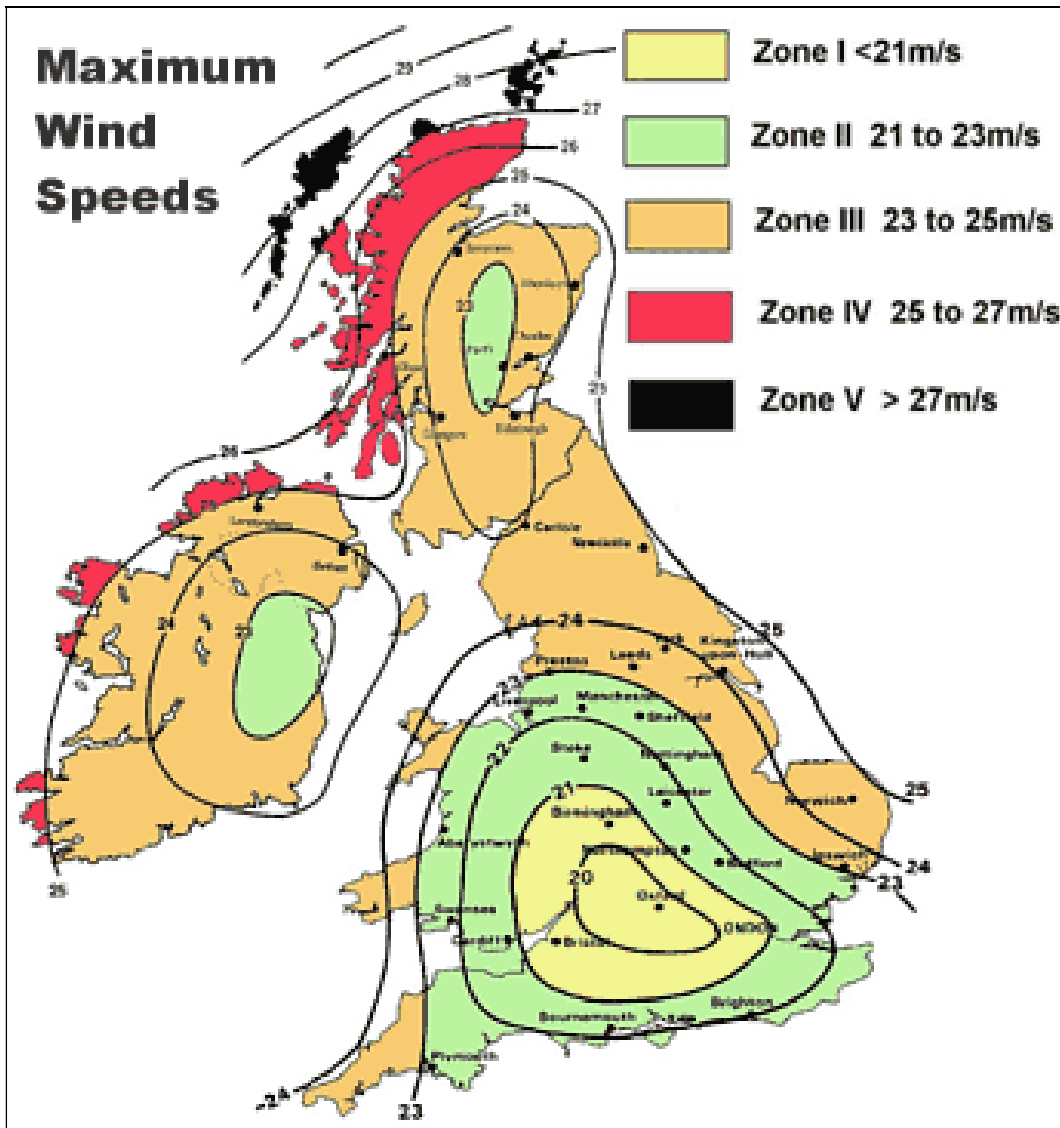
| H(m) | Zone 1 | | Zone 2 | | Zone 3 | | Zone 4 | |
|------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | Normal 1,00 | Exposed 1,35 | Normal 1,00 | Exposed 1,30 | Normal 1,00 | Exposed 1,25 | Normal 1,00 | Exposed 1,20 |
| 10 | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| 20 | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| 30 | Ok | Ok | Ok | Ok | Ok | Ok | Ok | - |
| 40 | Ok | Ok | Ok | Ok | Ok | Ok | Ok | - |
| 50 | Ok | Ok | Ok | Ok | Ok | - | - | - |

Based on air and water infiltration resistance performances under normal pressure of 1800Pa (inside connectors) and 2400Pa (outside connectors).

6.2 arcoPlus system 6124, 6104, 684

| H(m) | Zone 1 | | Zone 2 | | Zone 3 | | Zone 4 | |
|------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | Normal 1,00 | Exposed 1,35 | Normal 1,00 | Exposed 1,30 | Normal 1,00 | Exposed 1,25 | Normal 1,00 | Exposed 1,20 |
| 10 | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| 20 | Ok | Ok | Ok | Ok | Ok | - | Ok | - |
| 30 | Ok | Ok | Ok | Ok | Ok | - | - | - |
| 40 | Ok | Ok | Ok | - | Ok | - | - | - |
| 50 | Ok | Ok | Ok | - | - | - | - | - |

Based on air and water infiltration resistance performances under normal pressure of 1800Pa (inside connectors) and 2400Pa (outside connectors).



7 -Maximum loads charts - deflection 1/50th

7.1 Maximum load on normal installation with AL connector 4243 or 4499.

| Deflection value 1/50 | | | | | | | | | | | | |
|-------------------------|-------|-------------------|---------------------------------|----------|-----|-----|-----|-----|-----|------|------|------|
| Nb | Panel | Thick | Wind load daN/m ² | Span (m) | | | | | | | | |
| | | | | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.5 | 2.6 | 2.8 | 3.2 |
| 2 supports | 600 | 8 | Positive pressure | 180 | 180 | 180 | 180 | 180 | 78 | | | |
| | | | Negative pressure | 125 | 125 | 125 | 125 | 125 | 68 | | | |
| | | 10 | Positive pressure | 180 | 180 | 180 | 180 | 180 | 87 | | | |
| | | | Negative pressure | 125 | 125 | 125 | 125 | 125 | 79 | | | |
| | | 12 | Positive pressure | 180 | 180 | 180 | 180 | 180 | 87 | | | |
| | | | Negative pressure | 125 | 125 | 125 | 125 | 125 | 79 | | | |
| | 20 | Positive pressure | 180 | 180 | 180 | 157 | 157 | 88 | 60 | 107* | 107* | |
| | | Negative pressure | 160 | 160 | 160 | 163 | 163 | 117 | 84 | 114* | 114* | |
| | 900 | 20 | Positive pressure | 115 | 115 | 115 | 115 | 115 | 60 | 60 | 107* | 107* |
| | | | Negative pressure | 111 | 111 | 111 | 111 | 111 | 84 | 84 | 114* | 114* |
| | | 25 | Positive pressure | 115 | 115 | 115 | 115 | 115 | 60 | 60 | 107* | 107* |
| | | | Negative pressure | 111 | 111 | 111 | 111 | 111 | 84 | 84 | 114* | 114* |
| | | 32 | Positive pressure | 125 | 125 | 125 | 125 | 125 | 58 | 58 | 107* | 107* |
| | | | Negative pressure | 131 | 131 | 131 | 131 | 131 | 77 | 77 | 114* | 114* |
| 3 supports & more | 600 | 8 | Positive pressure | 180 | 180 | 180 | 180 | 180 | 180 | | | |
| | | | Negative pressure | 114 | 114 | 114 | 114 | 114 | 114 | | | |
| | | 10 | Positive pressure | 180 | 180 | 180 | 180 | 180 | 180 | | | |
| | | | Negative pressure | 114 | 114 | 114 | 114 | 114 | 114 | | | |
| | | 12 | Positive pressure | 180 | 180 | 180 | 180 | 180 | 180 | | | |
| | | | Negative pressure | 114 | 114 | 114 | 114 | 114 | 114 | | | |
| | 20 | Positive pressure | 180 | 180 | 180 | 180 | 180 | 180 | 117 | 117 | 180* | |
| | | Negative pressure | 163 | 163 | 163 | 153 | 153 | 121 | 113 | 113 | 127* | |
| | 900 | 20 | Positive pressure | 180 | 180 | 180 | 180 | 92 | 92 | 180* | 180* | 180* |
| | | | Negative pressure | 131 | 131 | 131 | 131 | 87 | 87 | 127* | 127* | 127* |
| | | 25 | Positive pressure | 180 | 180 | 180 | 180 | 92 | 92 | 180* | 180* | 180* |
| | | | Negative pressure | 131 | 131 | 131 | 131 | 87 | 87 | 127* | 127* | 127* |
| | | 32 | Positive pressure | 180 | 180 | 180 | 180 | 107 | 107 | 180* | 180* | 180* |
| | | | Negative pressure | 127 | 127 | 127 | 127 | 85 | 85 | 127* | 127* | 127* |

*Only with connector 4499

7.2 Maximum load on reverso installation with AL connectors 4310 & 4499

| Deflection 1/50 | | | | | | | | | | | | | |
|-------------------|-------|-------------------|---------------------------------|----------|-----|-----|-----|-----|------|------|------|------|-----|
| Nb | Panel | Thick | Wind load daN/m ² | SPAN (m) | | | | | | | | | |
| | | | | 1.0 | 1.3 | 1.5 | 1.6 | 2.0 | 2.5 | 2.6 | 2.8 | 3.2 | 3.5 |
| 2 supports | 600 | 8 | Positive pressure | 185 | 185 | 185 | 185 | 185 | 183 | | | | |
| | | | Negative pressure | 72 | 72 | 72 | 72 | 72 | 60 | | | | |
| | | 10 | Positive pressure | 185 | 185 | 185 | 185 | 185 | 183 | | | | |
| | | | Negative pressure | 72 | 72 | 72 | 72 | 72 | 60 | | | | |
| | | 12 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 187 | | | | |
| | | | Negative pressure | 99 | 99 | 99 | 99 | 99 | 78 | | | | |
| | 20 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 205 | 129* | 129* | 129* | 129* | |
| | | Negative pressure | 140 | 140 | 140 | 140 | 140 | 107 | 82* | 82* | 82* | 82* | |
| | 900 | 20 | Positive pressure | 152 | 152 | 152 | 152 | 152 | 152 | 119* | 119* | 119* | |
| | | | Negative pressure | 98 | 98 | 98 | 98 | 98 | 98 | 93* | 93* | 93* | |
| | | 25 | Positive pressure | 152 | 152 | 152 | 152 | 152 | 152 | 119* | 119* | 119* | |
| | | | Negative pressure | 98 | 98 | 98 | 98 | 98 | 98 | 93* | 93* | 93* | |
| 32 | | Positive pressure | 152 | 152 | 152 | 152 | 152 | 152 | 119* | 119* | 119* | | |
| | | Negative pressure | 98 | 98 | 98 | 98 | 98 | 98 | 93* | 93* | 93* | | |
| 3 supports & more | 600 | 8 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 240 | | | | |
| | | | Negative pressure | 68 | 68 | 68 | 55 | 55 | 55 | | | | |
| | | 10 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 240 | | | | |
| | | | Negative pressure | 68 | 68 | 68 | 55 | 55 | 55 | | | | |
| | | 12 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 240 | | | | |
| | | | Negative pressure | 78 | 78 | 78 | 78 | 62 | 62 | | | | |
| | 20 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 140 | 240 | 240 | | | |
| | | Negative pressure | 100 | 100 | 100 | 100 | 100 | 93 | 115* | 115* | | | |
| | 900 | 20 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 240 | 219* | 219* | 219* | |
| | | | Negative pressure | 98 | 98 | 98 | 98 | 98 | 98 | 101* | 101* | 101* | |
| | | 25 | Positive pressure | 240 | 240 | 240 | 240 | 240 | 240 | 219* | 219* | 219* | |
| | | | Negative pressure | 98 | 98 | 98 | 98 | 98 | 98 | 101* | 101* | 101* | |
| 32 | | Positive pressure | 240 | 240 | 240 | 240 | 240 | 240 | 219* | 219* | 219* | | |
| | | Negative pressure | 98 | 98 | 98 | 98 | 98 | 98 | 101* | 101* | 101* | | |

*Only with connector 4499

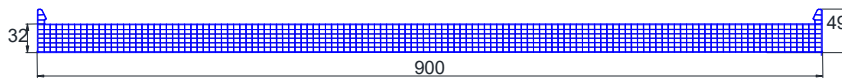
7.3 Maximum load on reverso installation with PC connector 2146

| Deflection 1/50 | | | | | | | | | | | | | | | |
|----------------------|-------|-------------------|---------------------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Nb | Panel | Thick | Wind load daN/m ² | SPAN (m) | | | | | | | | | | | |
| | | | | 1.0 | 1.3 | 1.5 | 1.6 | 2.0 | 2.5 | 2.6 | 2.8 | 3.2 | 3.5 | | |
| 3 supports & more | 600 | 8 | Positive pressure | 198 | 152 | 100 | 100 | | | | | | | | |
| | | | Negative pressure | 52 | 51 | 51 | 51 | | | | | | | | |
| | | 10 | Positive pressure | 198 | 152 | 100 | 100 | | | | | | | | |
| | | | Negative pressure | 52 | 51 | 50 | 50 | | | | | | | | |
| | | 12 | Positive pressure | 240 | 185 | 99 | 99 | | | | | | | | |
| | | | Negative pressure | 95 | 70 | 68 | 68 | | | | | | | | |
| | 20 | Positive pressure | 240 | 240 | 130 | 130 | | | | | | | | | |
| | | Negative pressure | 110 | 110 | 103 | 103 | | | | | | | | | |
| | 900 | 20 | Positive pressure | 76 | 76 | 76 | 76 | | | | | | | | |
| | | | Negative pressure | 74 | 74 | 74 | 74 | | | | | | | | |
| | | 25 | Positive pressure | 76 | 76 | 76 | 76 | | | | | | | | |
| | | | Negative pressure | 74 | 74 | 74 | 74 | | | | | | | | |
| 32 | | Positive pressure | 159 | 159 | 159 | 159 | | | | | | | | | |
| | | Negative pressure | 72 | 72 | 72 | 72 | | | | | | | | | |

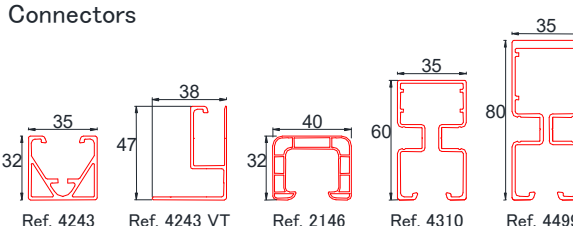
arcoPlus 932-7 system

Panel

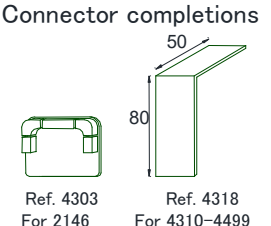
| Ref. panel | Width | Thickness | Weight /m ² |
|----------------|--------|-----------|------------------------|
| arcoPlus 932-7 | 900 mm | 32 mm | 4300 g/m ² |



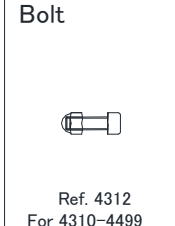
Connectors



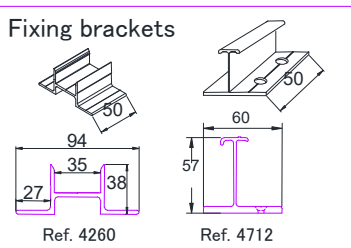
Connector completions



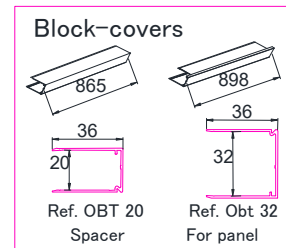
Bolt




Fixing brackets



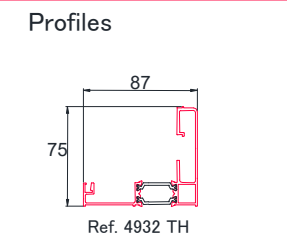
Block-covers



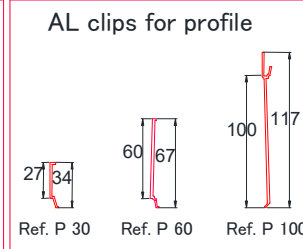
Adhesive



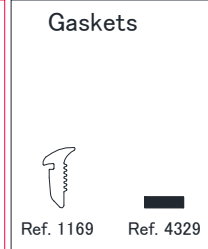
Profiles



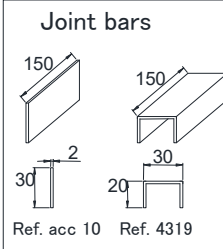
AL clips for profile



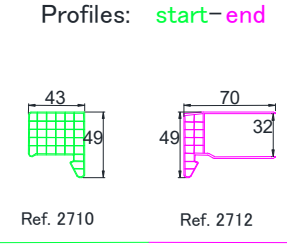
Gaskets



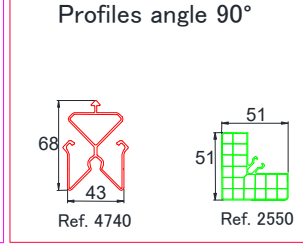
Joint bars



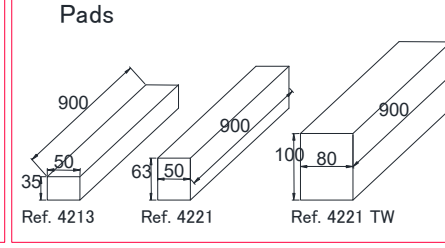
Profiles: start-end



Profiles angle 90°



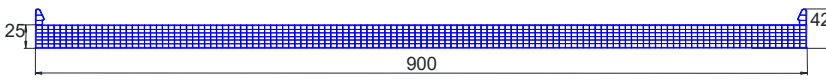
Pads



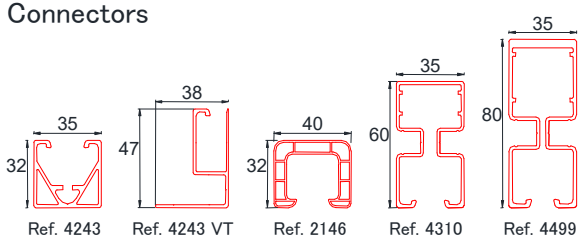
arcoPlus 925-7 system

Panel

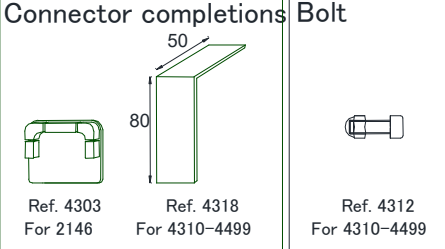
| Ref. panel | Width | Thickness | Weight /m ² |
|----------------|--------|-----------|------------------------|
| arcoPlus 925-7 | 900 mm | 25 mm | 4000 g/m ² |



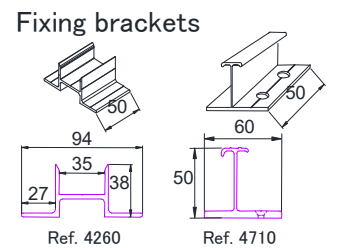
Connectors



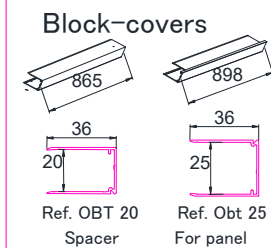
Connector completions Bolt



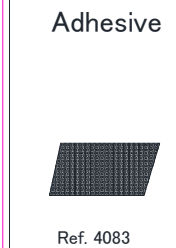
Fixing brackets



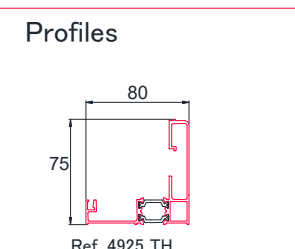
Block-covers



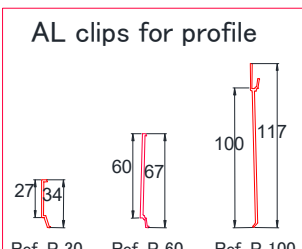
Adhesive




Profiles



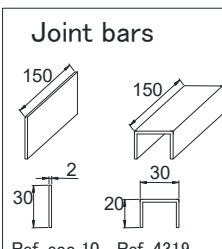
AL clips for profile



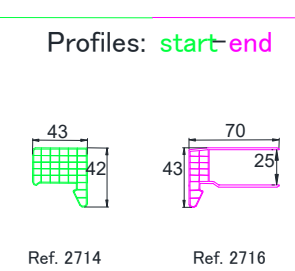
Gaskets



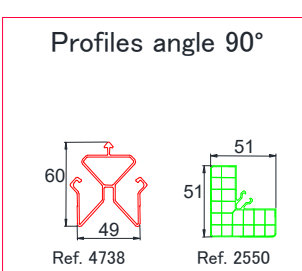
Joint bars



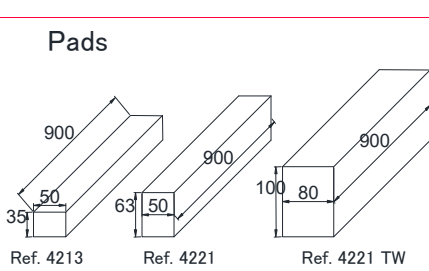
Profiles: start-end



Profiles angle 90°




Pads



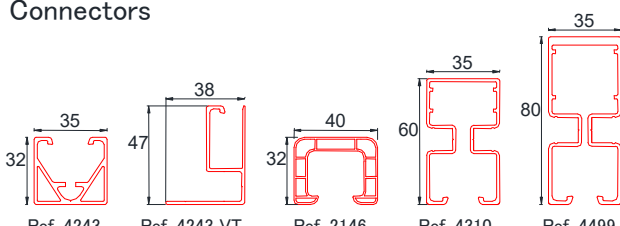
arcoPlus 920-7 system

Panel

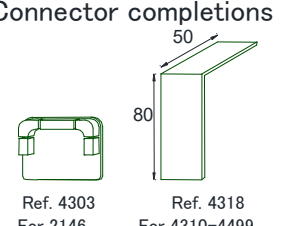
| Ref. panel | Width | Thickness | Weight /m ² |
|----------------|--------|-----------|------------------------|
| arcoPlus 920-7 | 900 mm | 20 mm | 3500 g/m ² |




Connectors



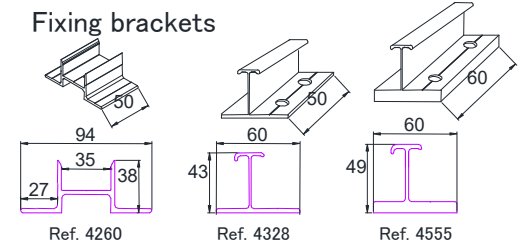
Connector completions



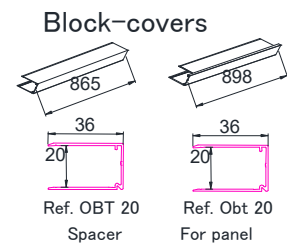
Bolt



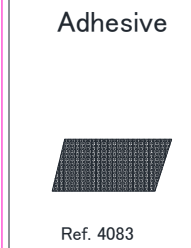
Fixing brackets



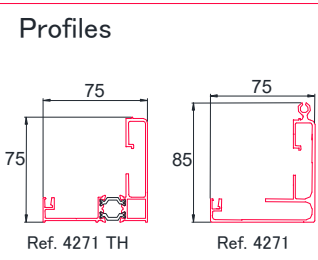
Block-covers



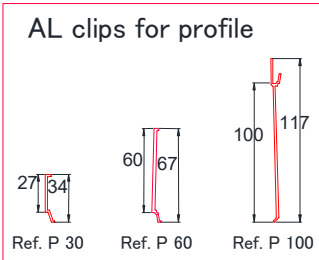
Adhesive



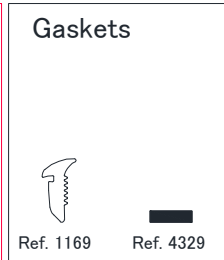
Profiles



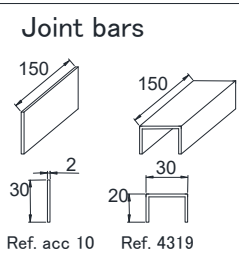
AL clips for profile



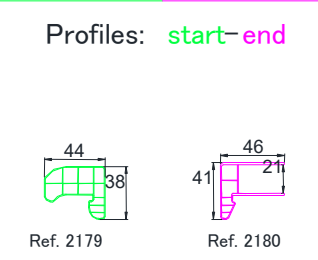
Gaskets



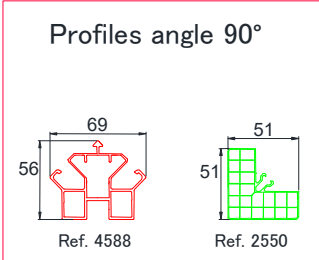
Joint bars



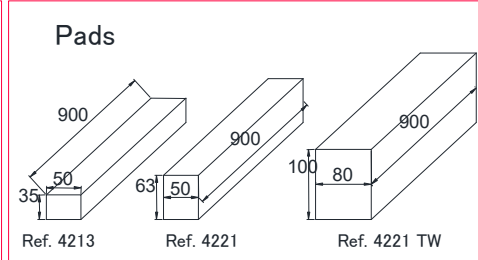
Profiles: start-end



Profiles angle 90°



Pads



arcoPlus 626 system

Panel

| Ref. panel | Width | Thickness | Weight /m ² |
|--------------|--------|-----------|------------------------|
| arcoPlus 626 | 600 mm | 20 mm | 3200 g/m ² |

Connectors

Connector completions

Bolt

Fixing brackets

Block-covers

Adhesive

Profiles

AL clips for profile

Gaskets

Joint bars

Profiles: start-end

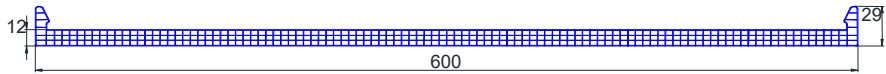
Profiles angle 90°

Pads

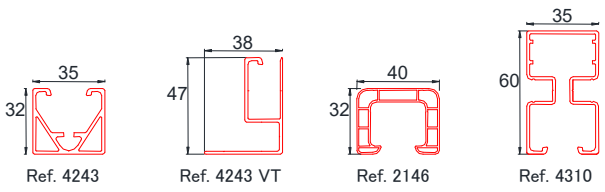
arcoPlus 6124 system

Panel

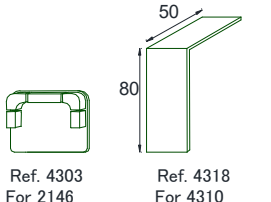
| Ref. panel | Width | Thickness | Weight /m ² |
|---------------|--------|-----------|------------------------|
| arcoPlus 6124 | 600 mm | 12 mm | 2500 g/m ² |




Connectors



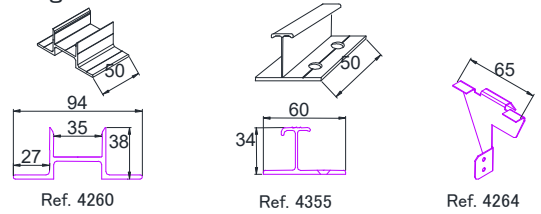
Connector completions



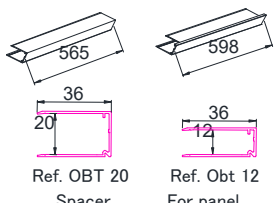
Bolt




Fixing brackets



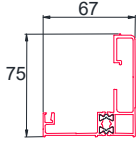
Block-covers



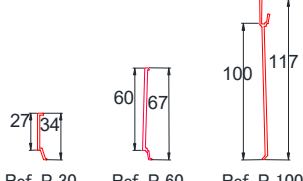
Adhesive




Profiles



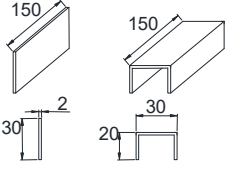
AL clips for profile



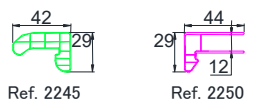
Gaskets



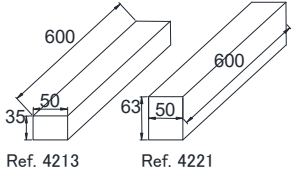
Joint bars



Profiles: start-end



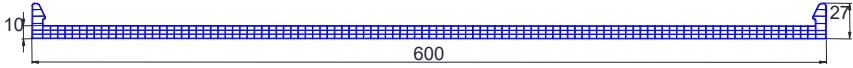
Profiles angle 90°



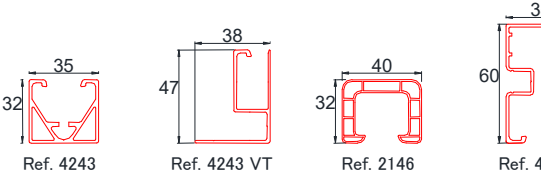
arcoPlus 6104 system

Panel

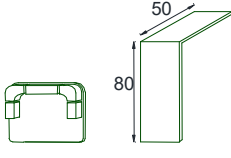
| Ref. panel | Width | Thickness | Weight /m ² |
|---------------|--------|-----------|------------------------|
| arcoPlus 6104 | 600 mm | 10 mm | 2200 g/m ² |




Connectors



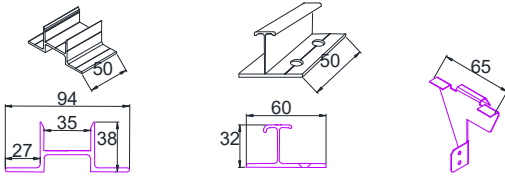
Connector completions



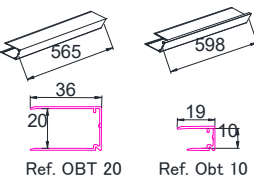
Bolt




Fixing brackets



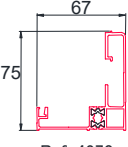
Block-covers



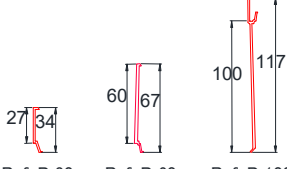
Adhesive




Profiles



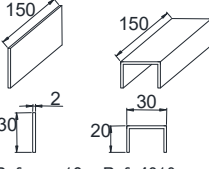
AL clips for profile




Gaskets



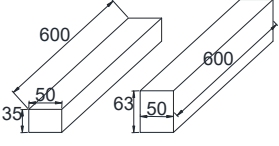
Joint bars



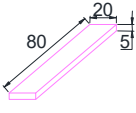
Profiles: start-end



Profiles angle 90°



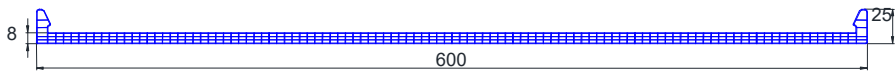
PVC block



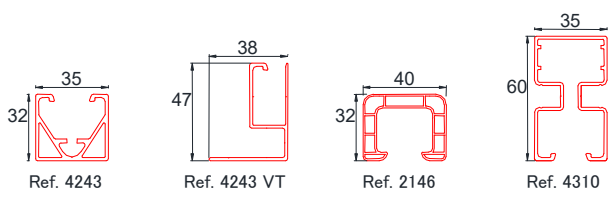
arcoPlus 684 system

Panel

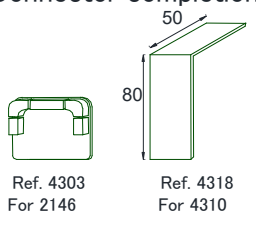
| Ref. panel | Width | Thickness | Weight /m ² |
|--------------|--------|-----------|------------------------|
| arcoPlus 684 | 600 mm | 8 mm | 1850 g/m ² |




Connectors



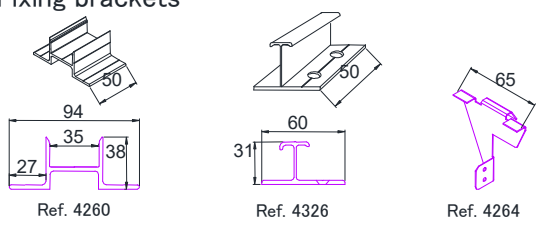
Connector completions



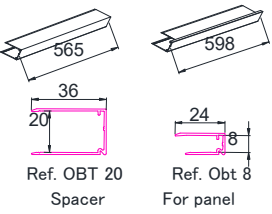
Bolt




Fixing brackets



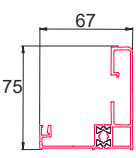
Block-covers



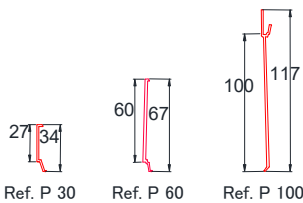
Adhesive




Profiles



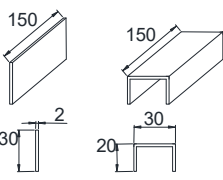
AL clips for profile



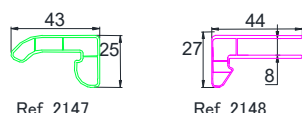
Gaskets



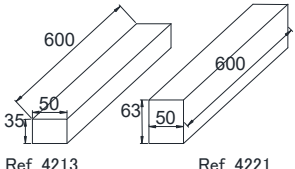
Joint bars



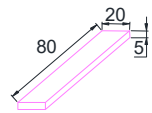
Profiles: start-end



Profiles angle 90°

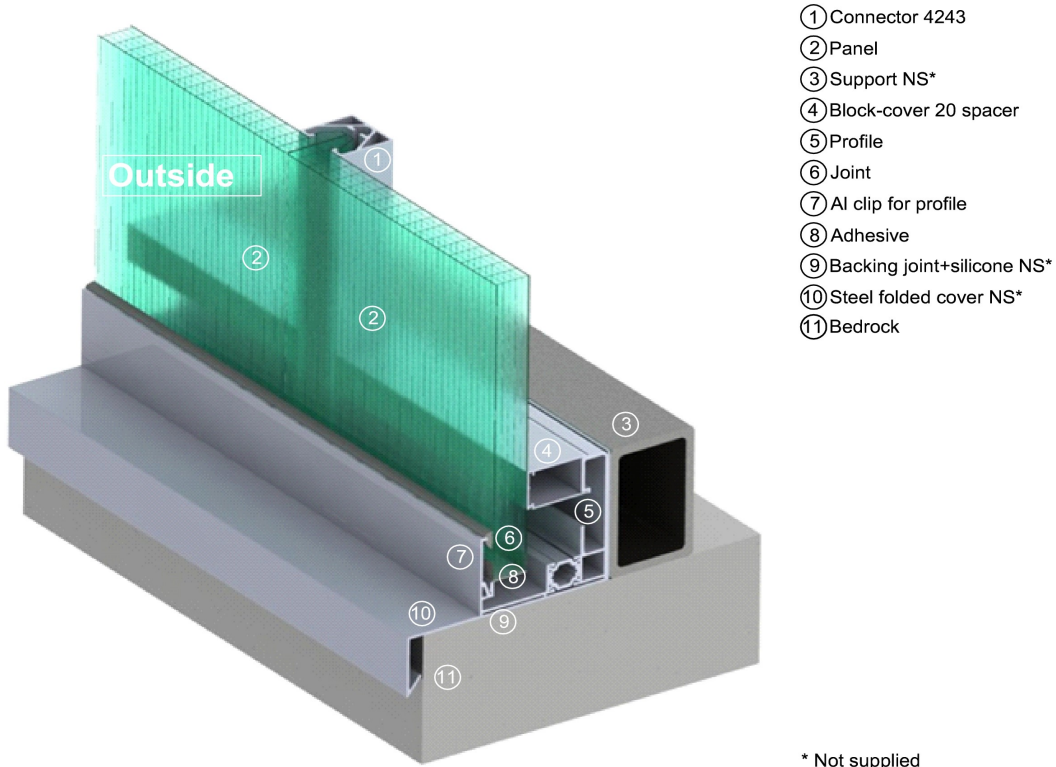


PVC block



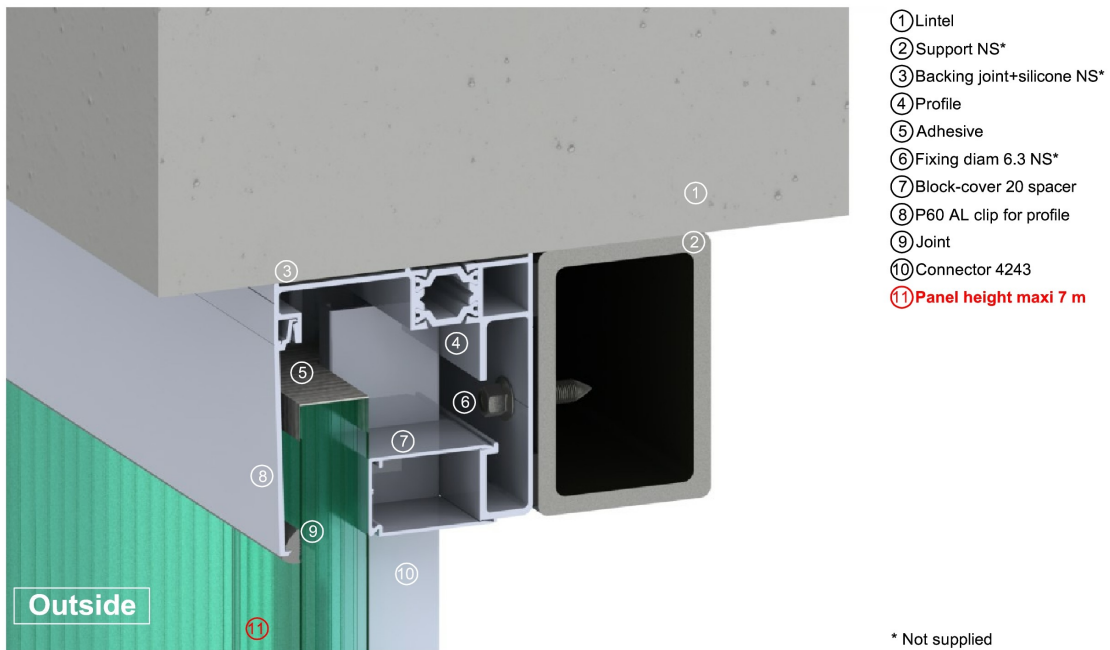
Cladding Internal connectors

Principle of installation on low part of cladding

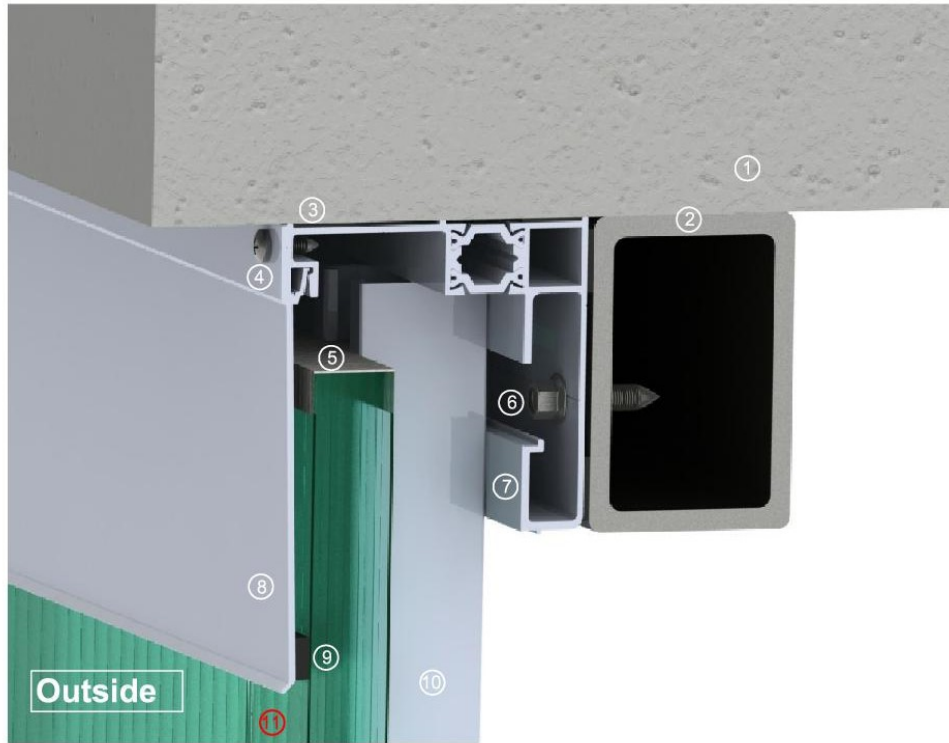


Principle of installation on top part of cladding

Up to 7 meters



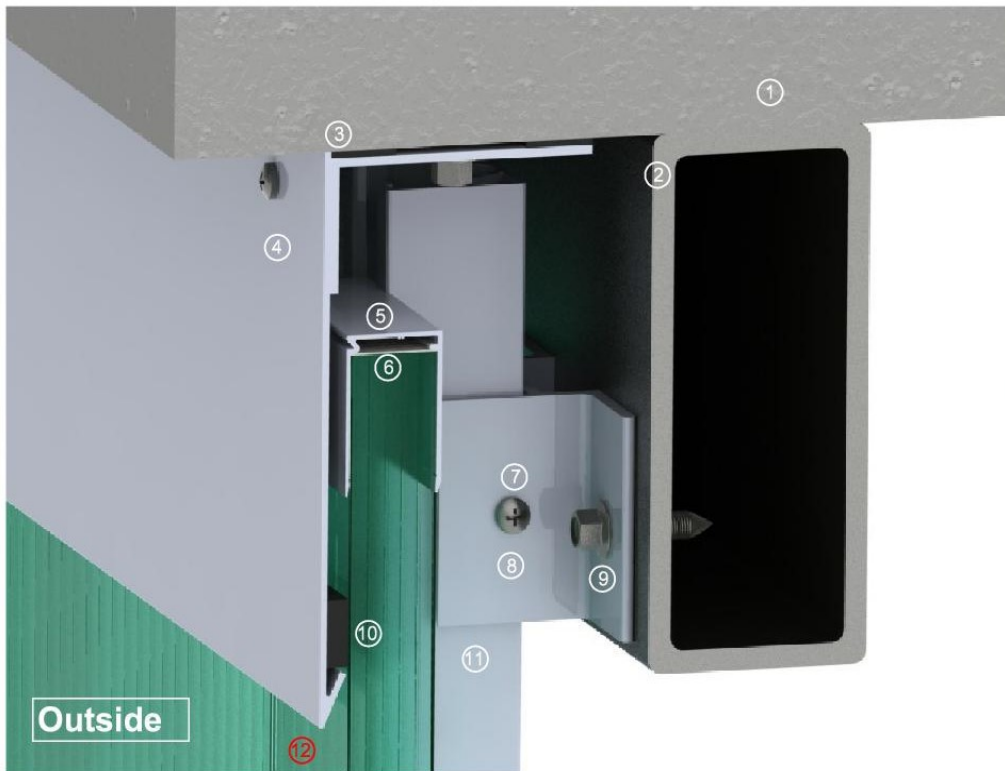
Up to 10 meters



- ① Lintel
- ② Support NS*
- ③ Backing joint+silicone NS*
- ④ Screw 4.2x13 every 1.2 m
- ⑤ Adhesive
- ⑥ Fixing diam 6.3 NS*
- ⑦ Profile
- ⑧ P100 Al clip for profile
- ⑨ Joint 4329
- ⑩ Connector 4243
- ⑪ Panel Height maxi 10 m

* Not supplied

Over 10 meters

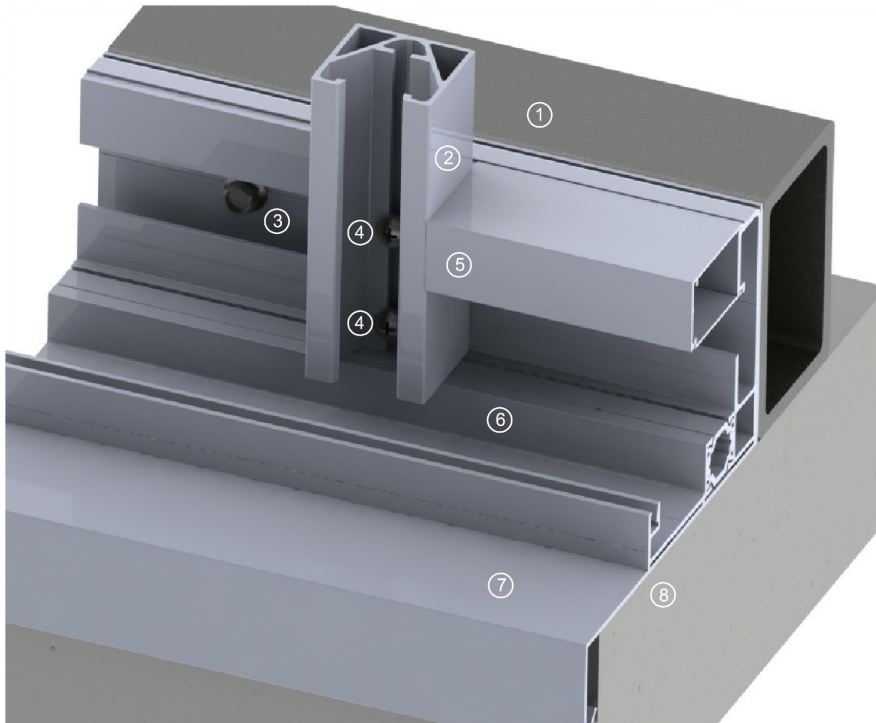


- ① Lintel
- ② Support NS*
- ③ Backing joint+silicone NS*
- ④ Flashing metal NS*
- ⑤ Block-cover for panel
- ⑥ Adhesive
- ⑦ Screw 4.2x13
- ⑧ Fixing bracket 4260
- ⑨ Fixing diam 6.3 NS*
- ⑩ Joint 4329
- ⑪ Connector 4243
- ⑫ Panel Height over 10 m

* Not supplied

Fixing of connector 4243

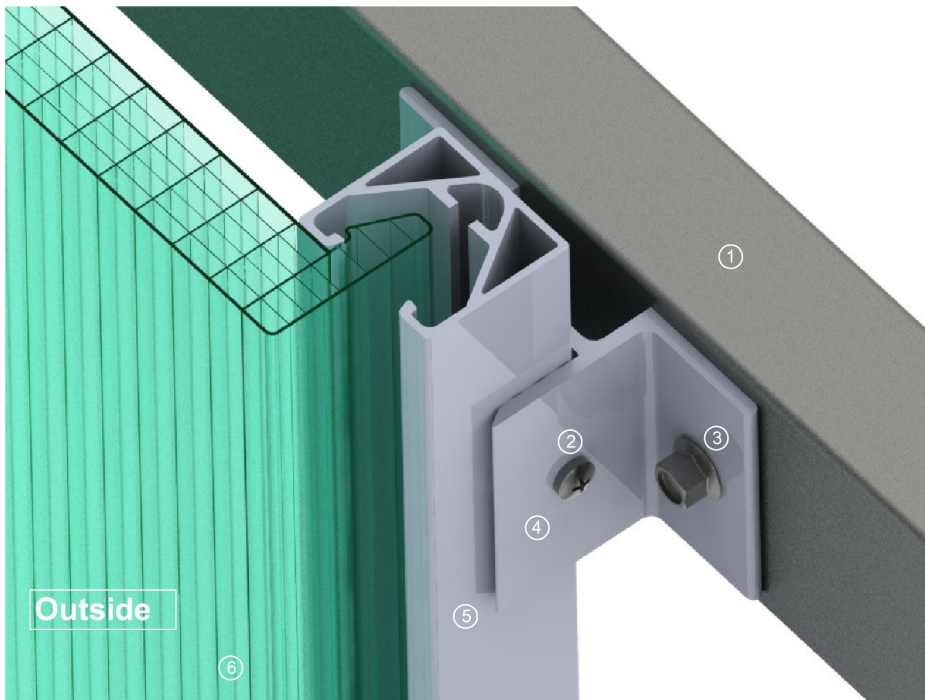
Fixing of connectors 4243 onto profiles



- ① Support NS*
- ② Connector 4243
- ③ Fixing diam 6.3 NS*
- ④ Screw 4.8 x 22
- ⑤ Block-cover 20 spacer
- ⑥ Profile
- ⑦ Steel folded cover NS*
- ⑧ Bedrock

* Not supplied

Fixing of connectors 4243 into 4260 fixing brackets

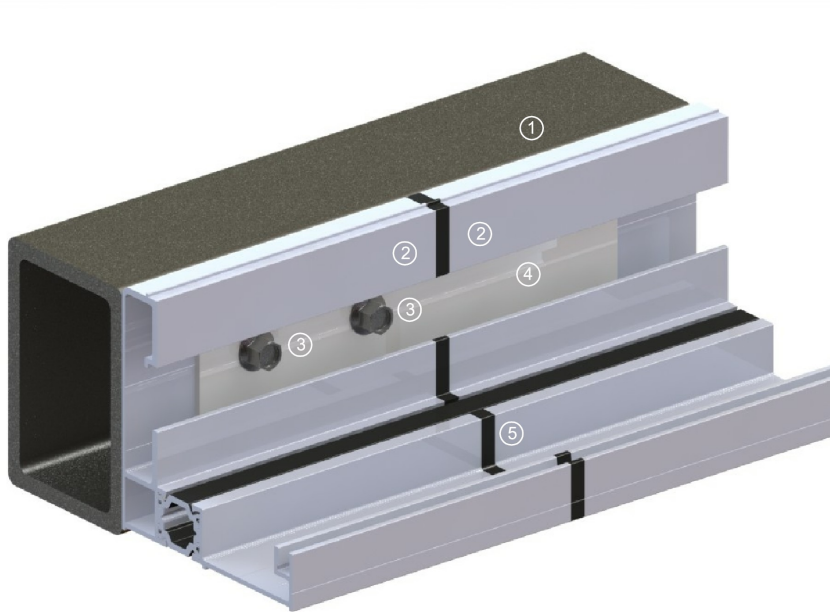


- ① Support NS*
- ② Screw 4.2 x 13
- ③ Fixing diam 6.3 NS*
- ④ Fixing bracket 4260
- ⑤ Connector
- ⑥ Panel

* Not supplied

Principle of profiles junction

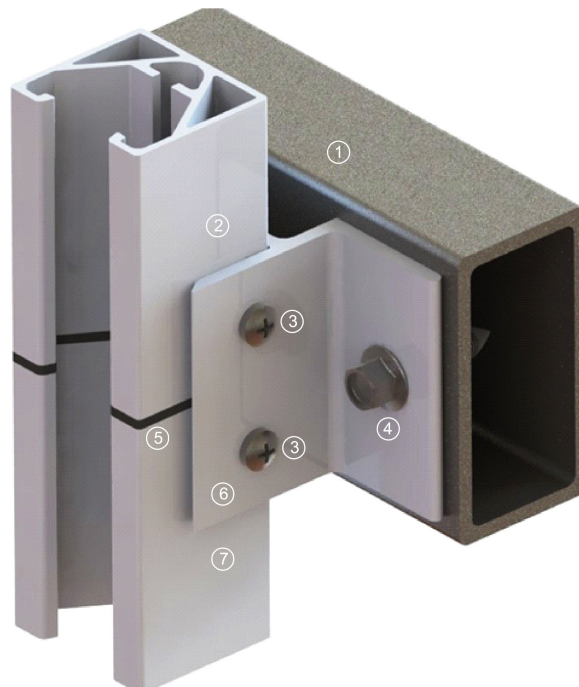
Lateral, top and low profiles



- ① Support NS*
- ② Profile
- ③ Fixing diam 6.3 NS*
- ④ Joint bar
- ⑤ 5mm mastic expansion clearance

* Not supplied

Connectors 4243

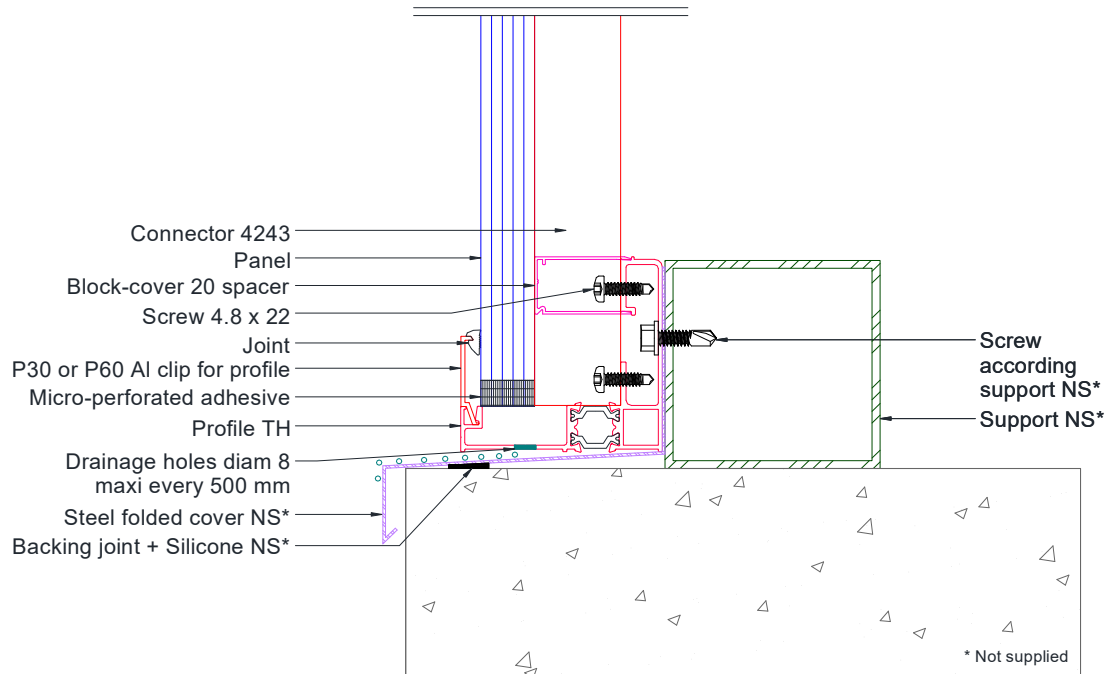


- ① Support NS*
- ② Connector 4243 top
- ③ Screw 4.2 x 13
- ④ Fixing diam 6.3 NS*
- ⑤ Mastic expansion clearance
- ⑥ Fixing bracket 4260
- ⑦ Connector 4243 low

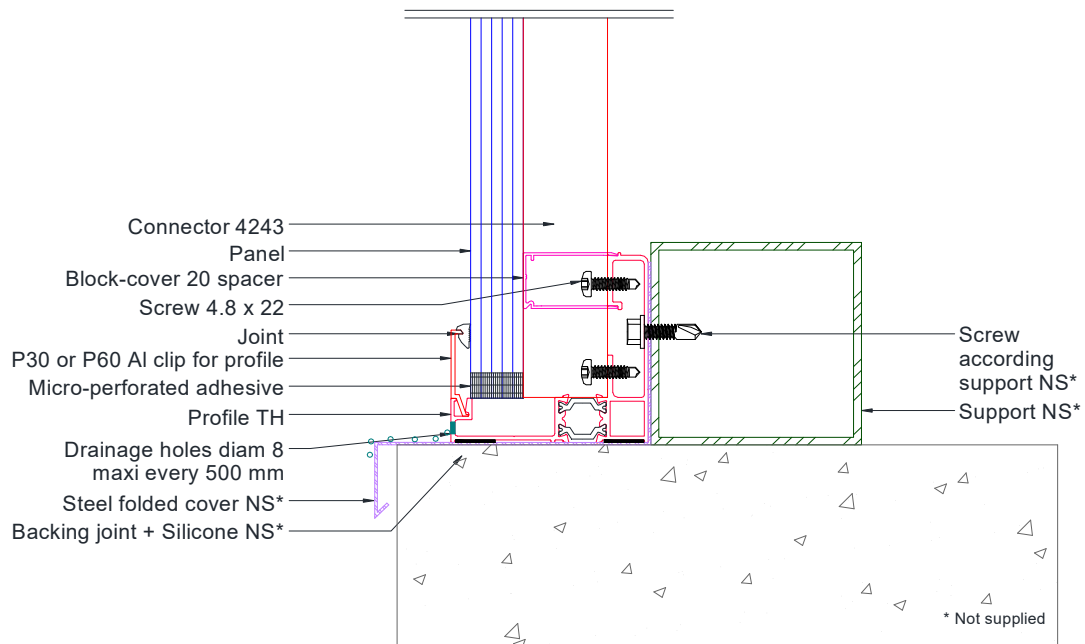
* Not supplied

Principle of drainage

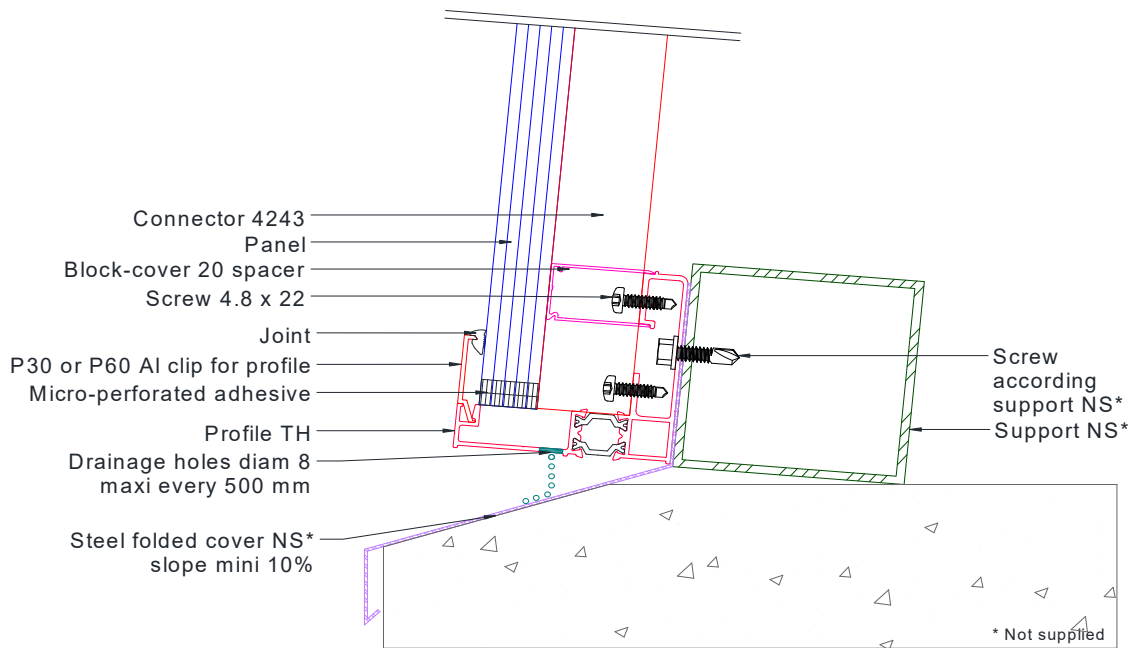
Drainage on base profile



Drainage on facade

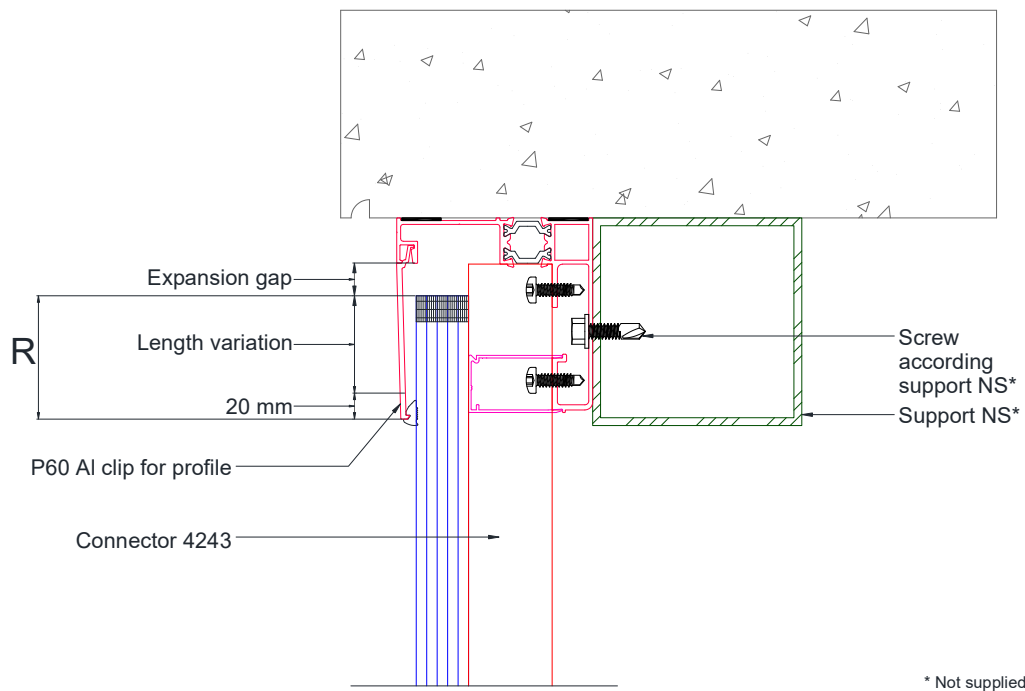


Drainage on inclined facade

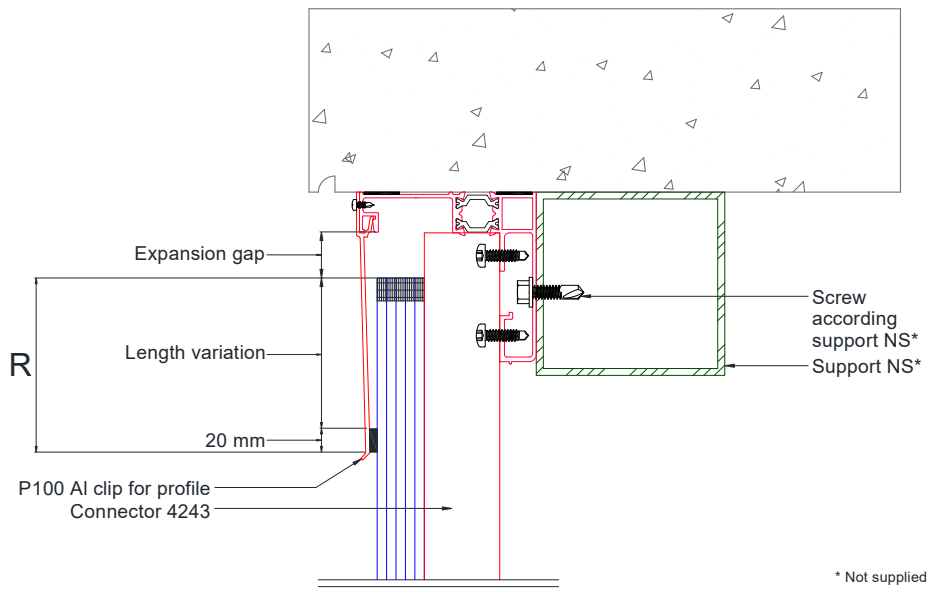


Principle of recovering "R" on top of the cladding

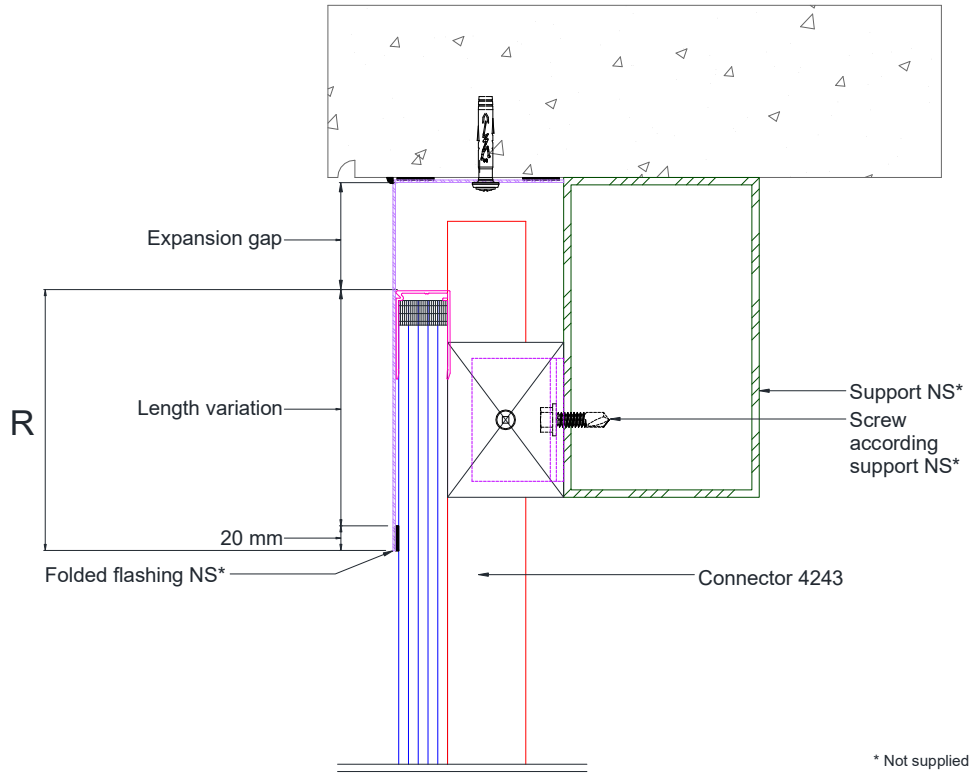
Up to 7 meters



Up to 10 meters



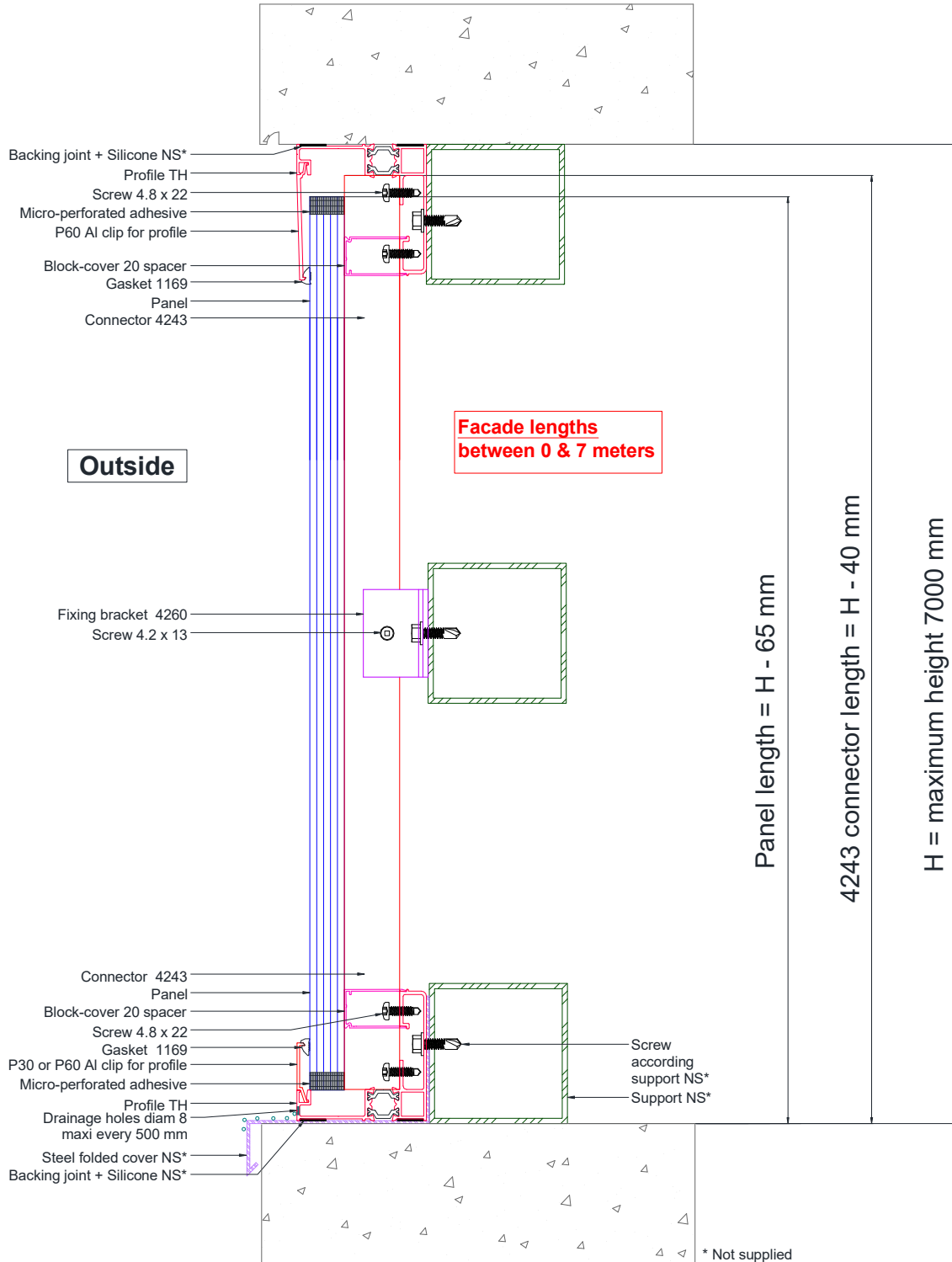
Over 10 meters



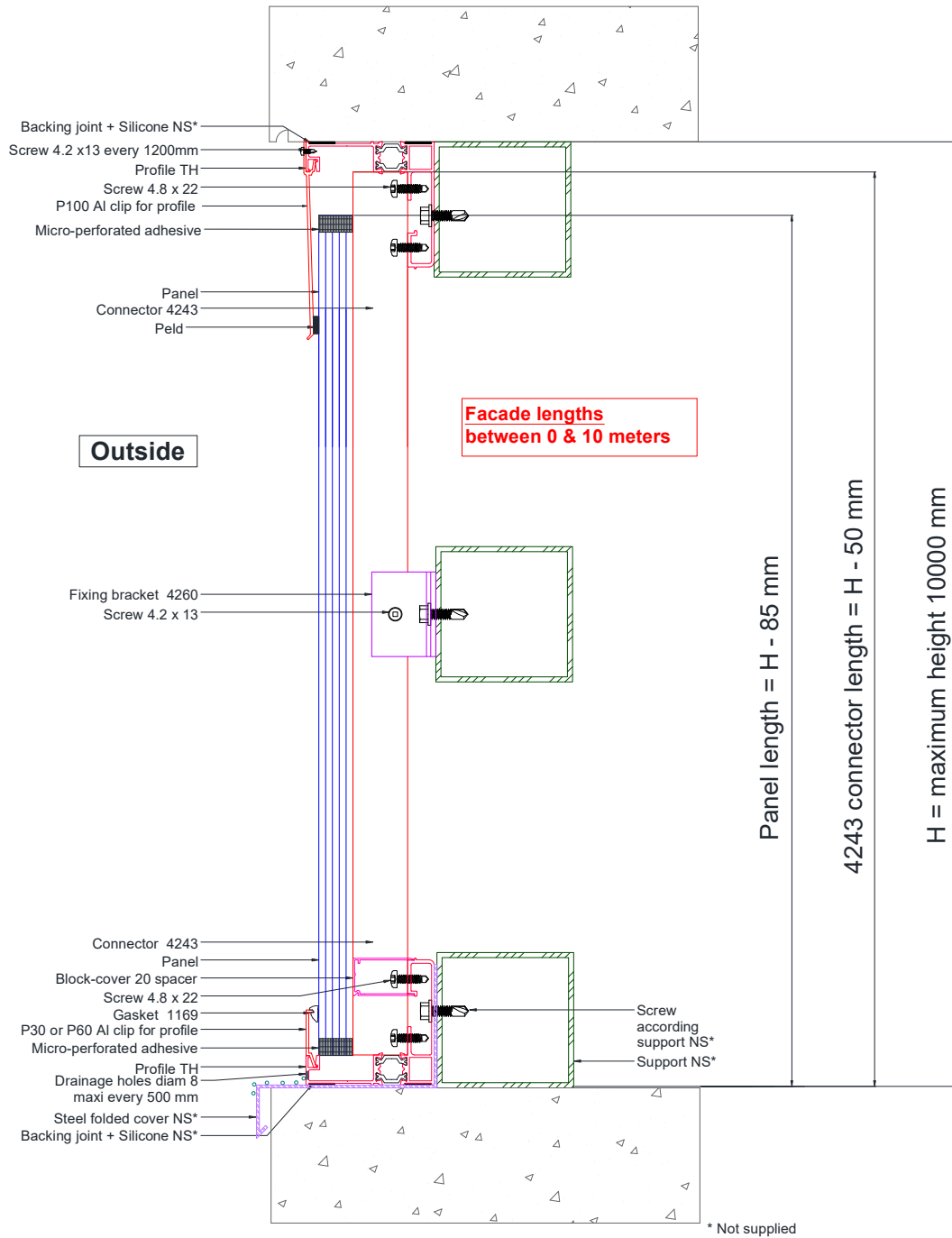
Principle of installation in rebates

arcoPlus 932-7; 925-7; 920-7; 626 ; 6124

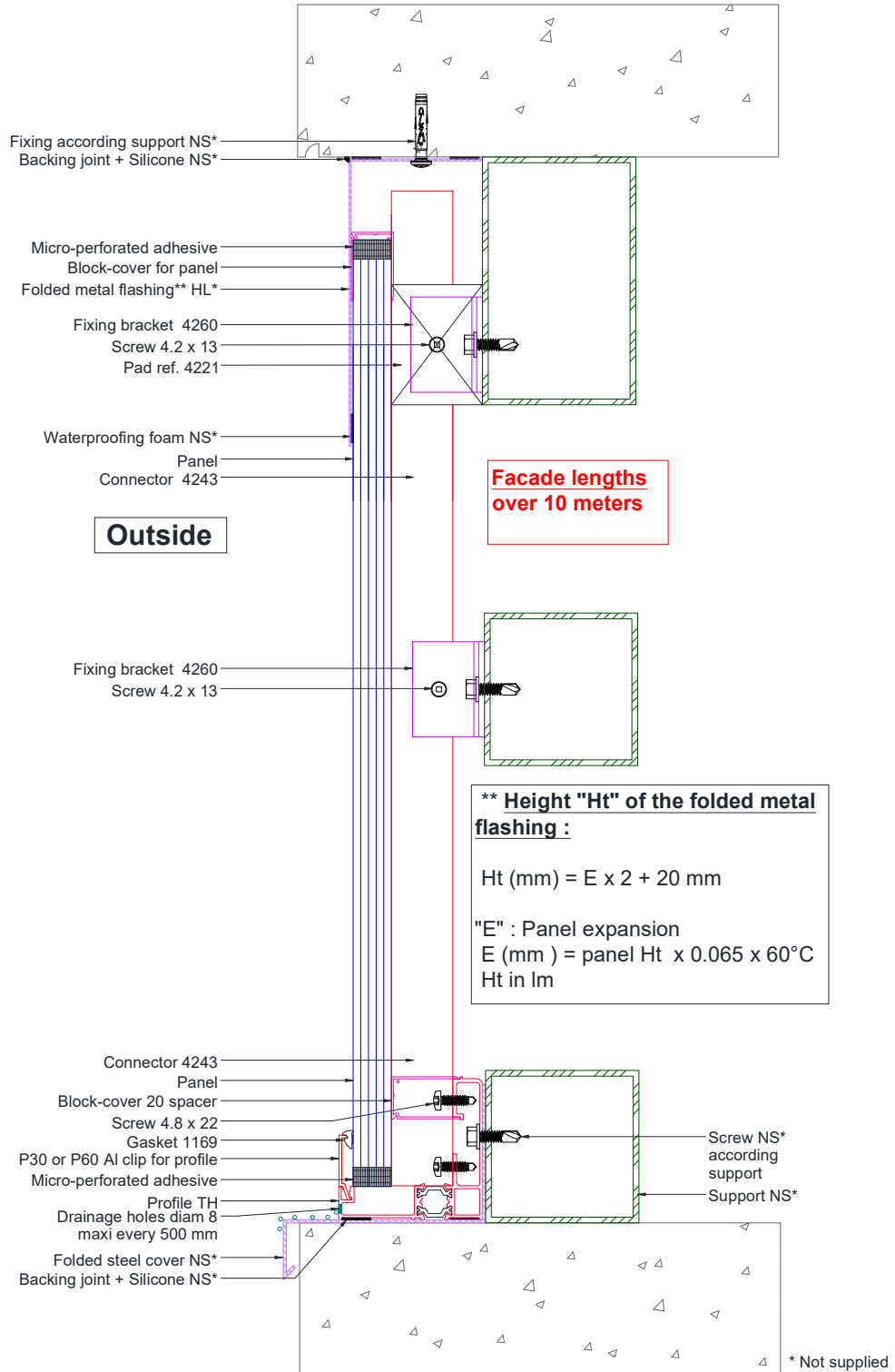
Up to 7 meters



Up to 10 meters



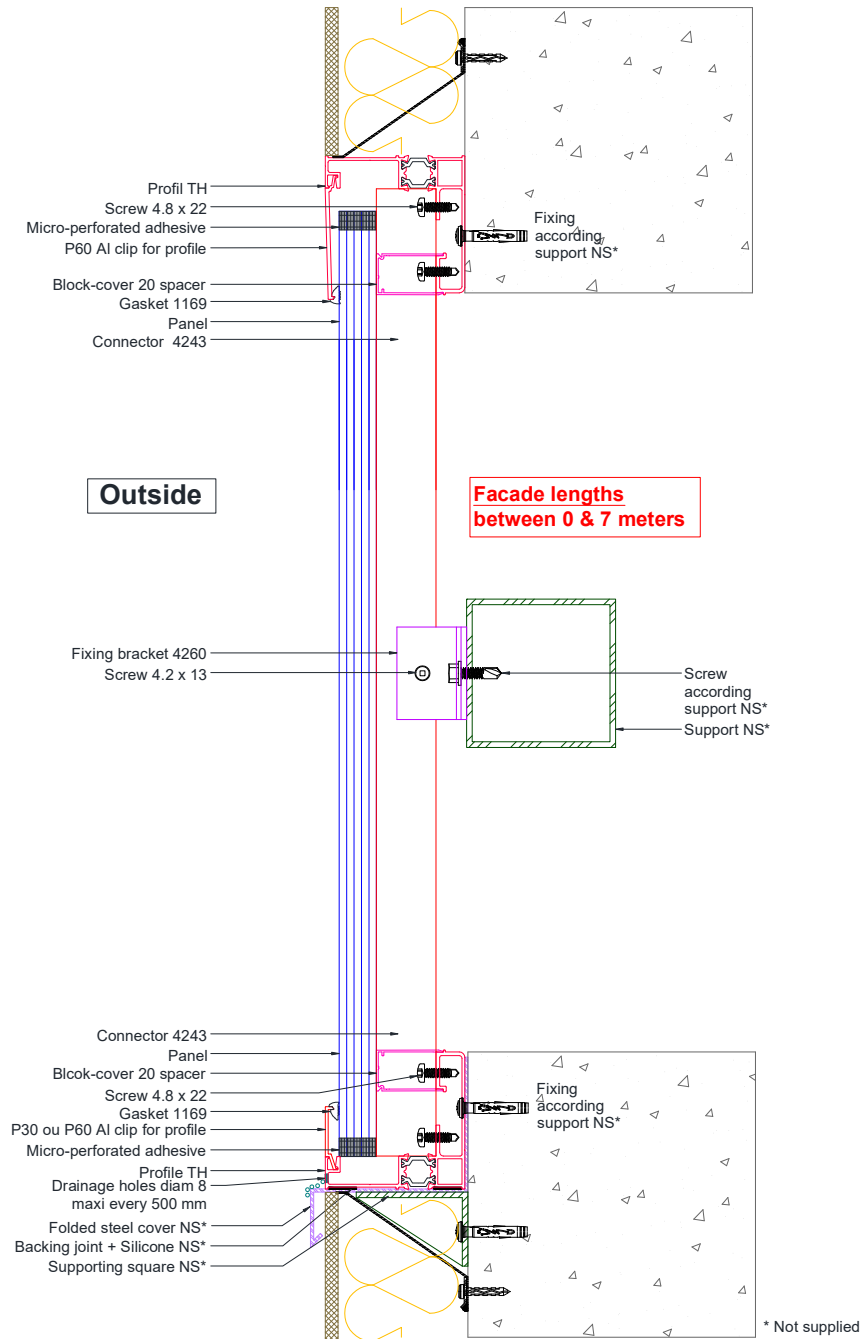
Over 10 meters



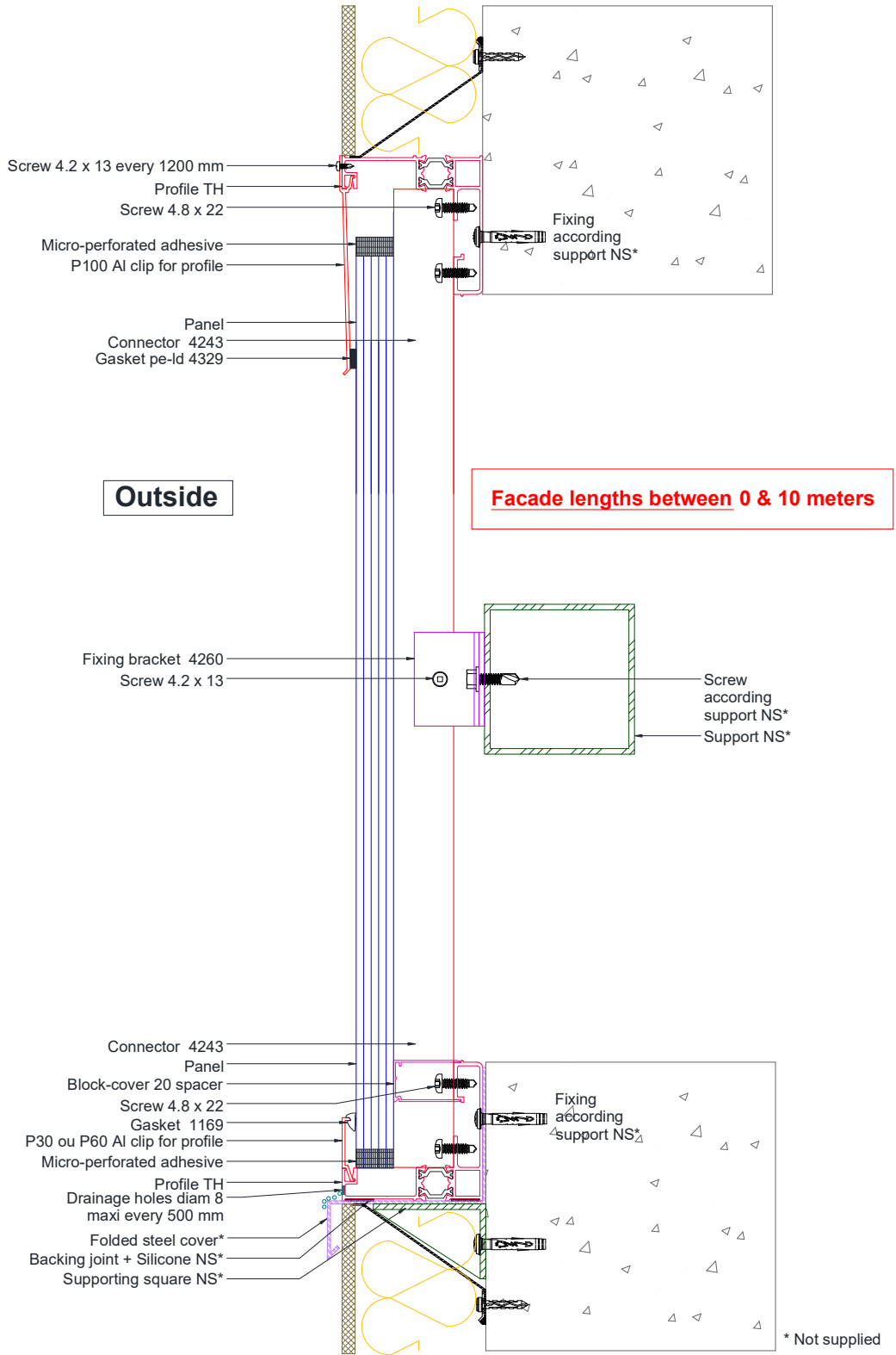
Principle of installation in front of building

arcoPlus 932-7 ; 925-7 ; 920-7 ; 626 ; 6124

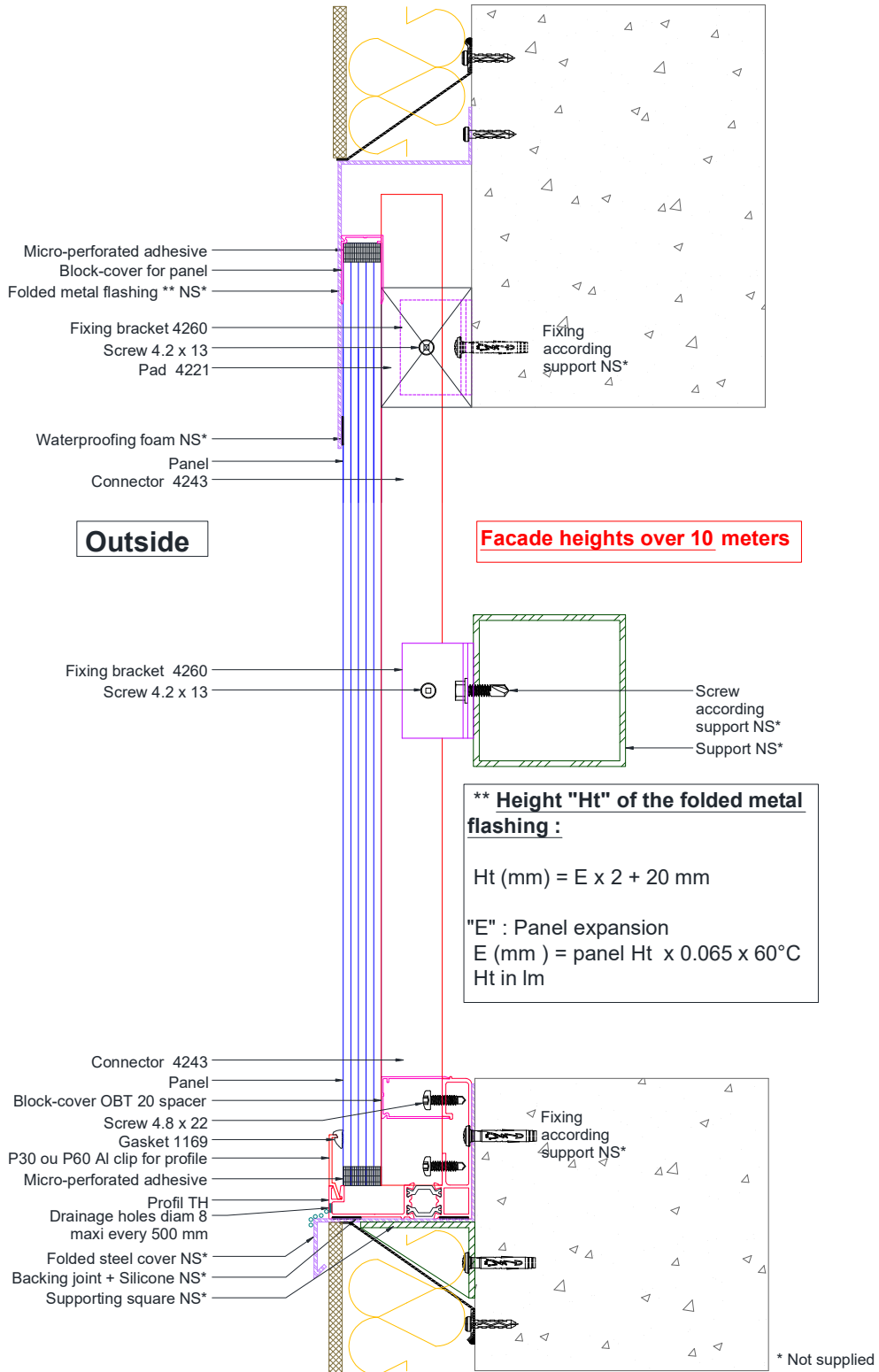
Up to 7 meters



Up to 10 meters



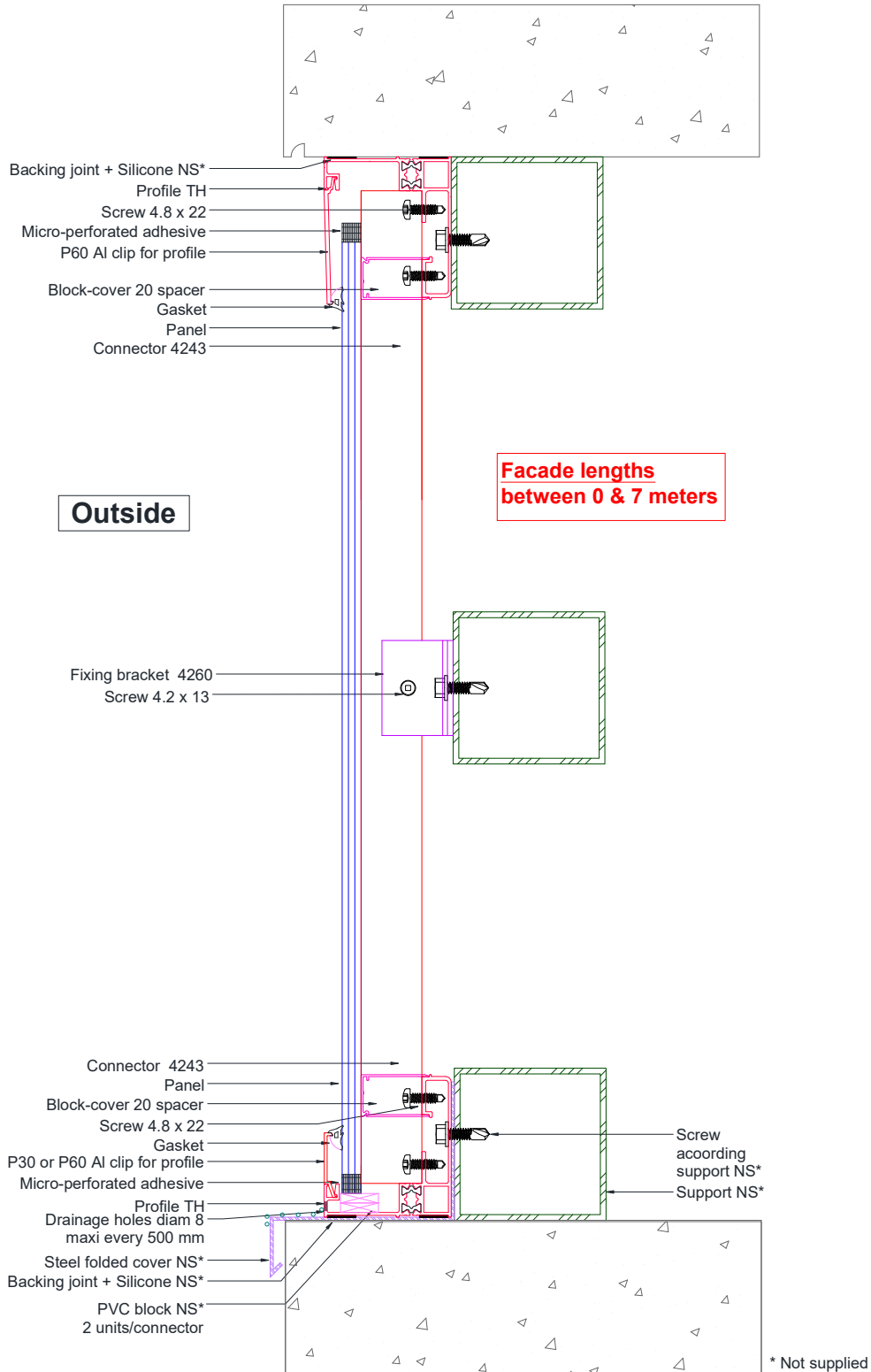
Over 10 meters



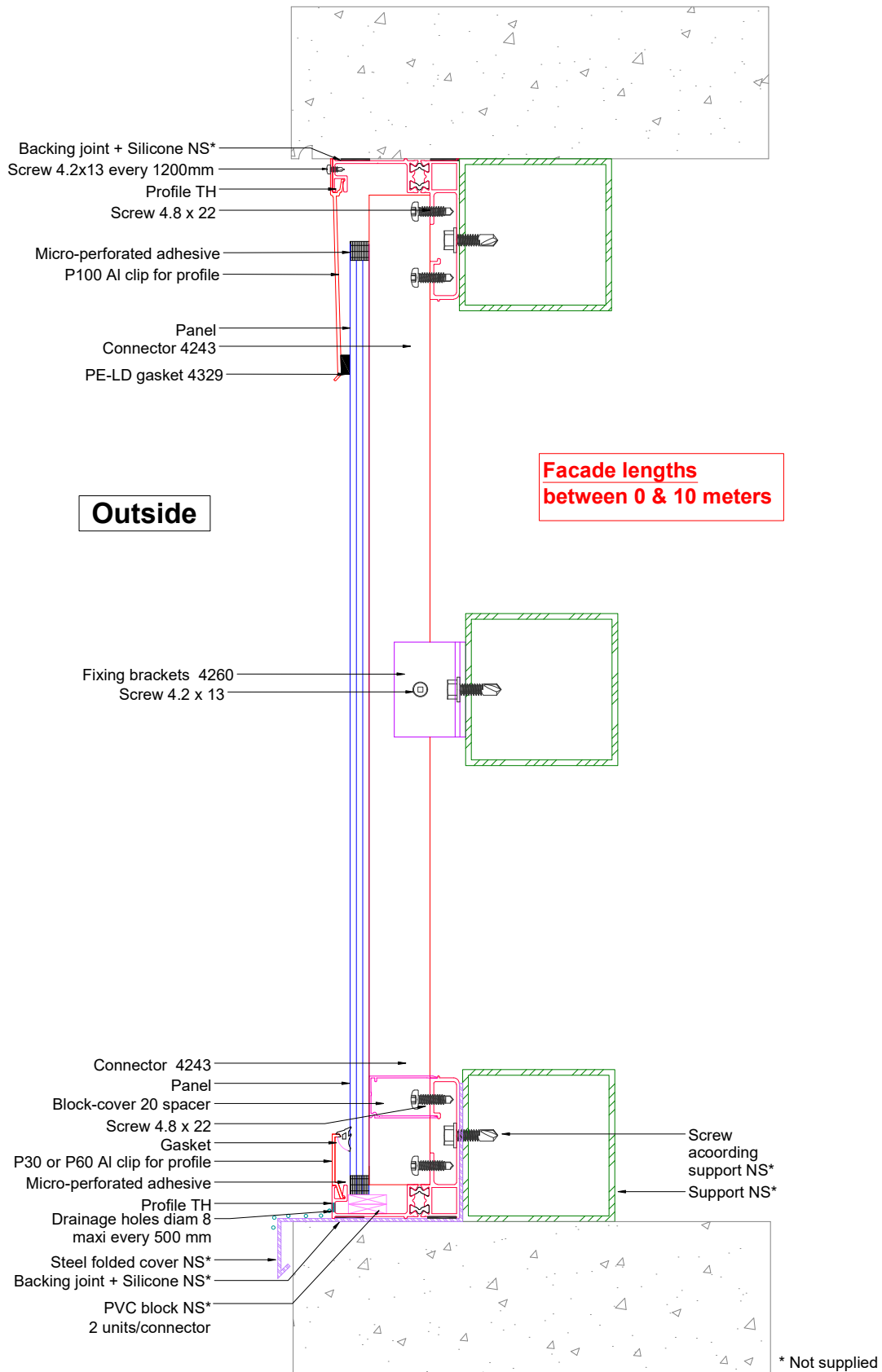
Principle of installation in rebates

arcoPlus 6104; 684

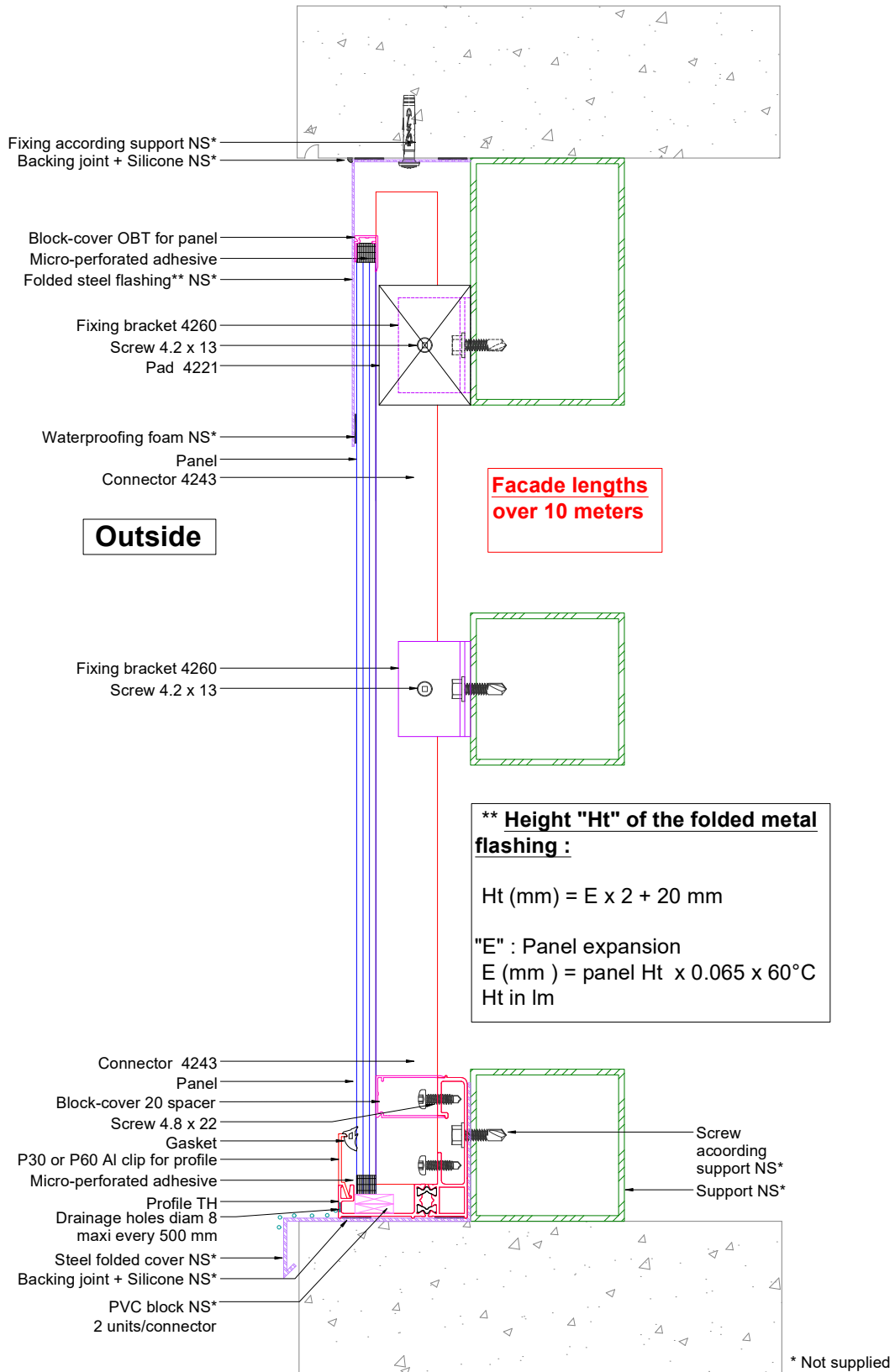
Up to 7 meters



Up to 10 meters



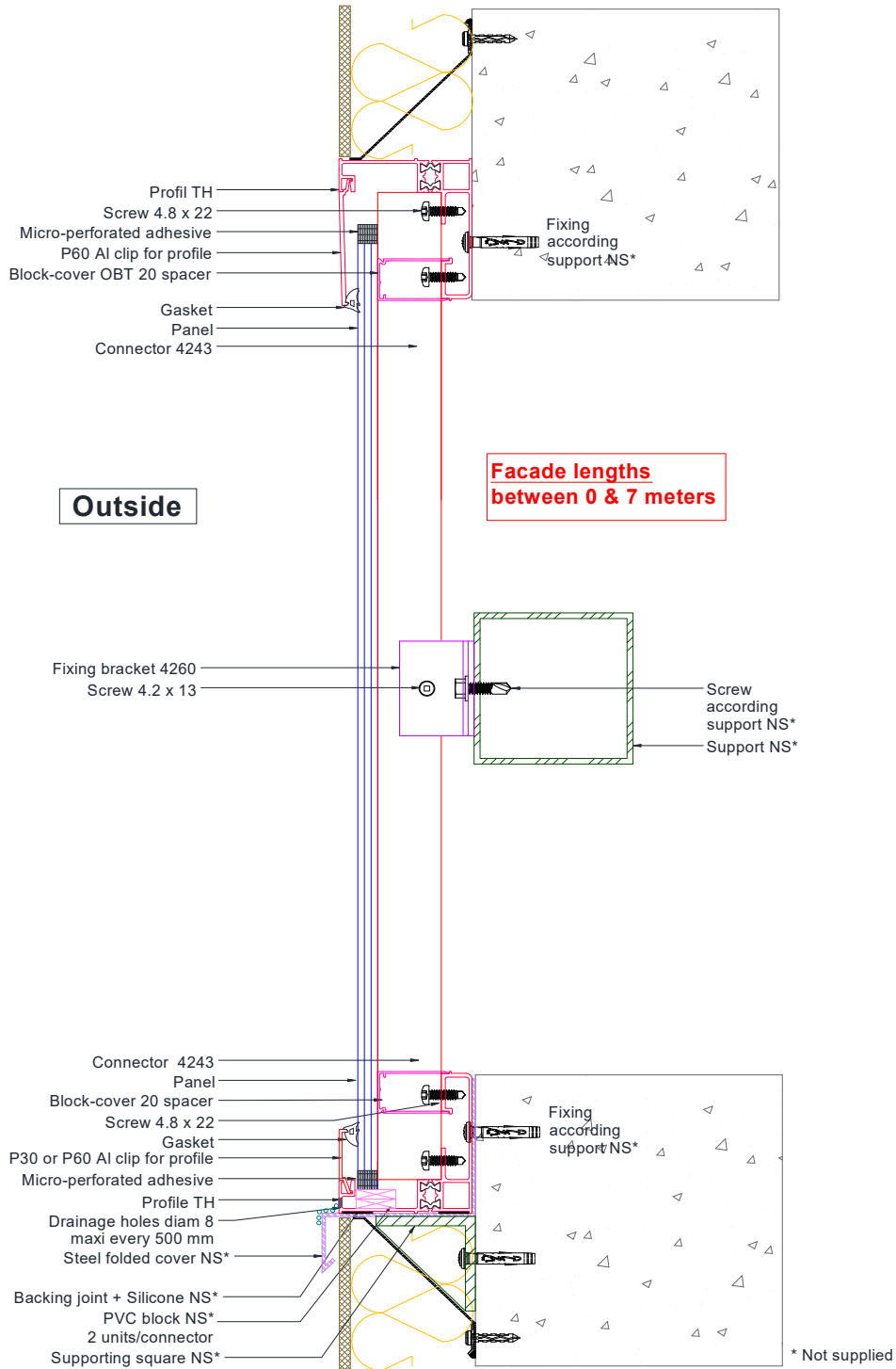
Over 10 meters



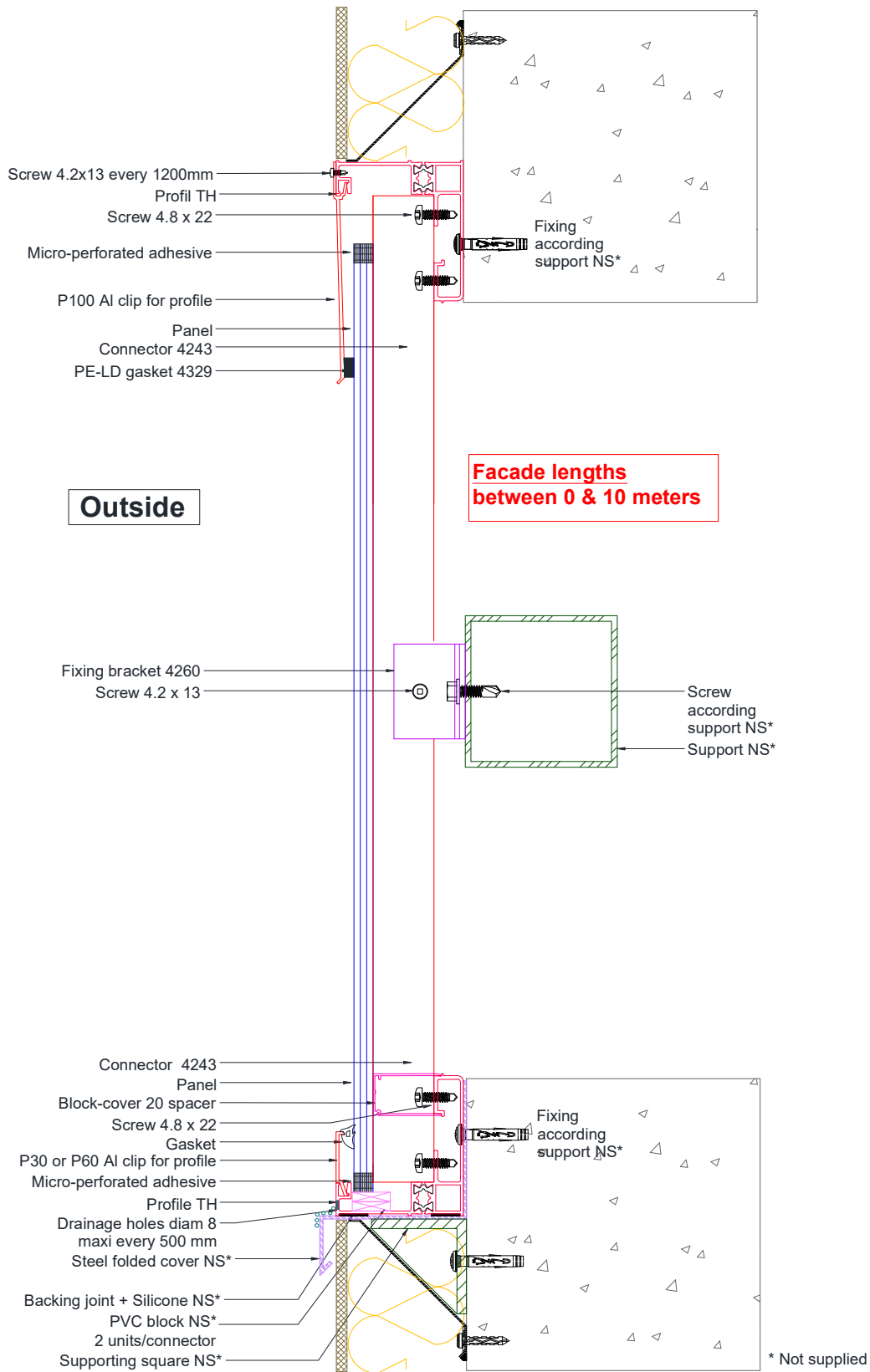
Principle of installation in front of building

arcoPlus 6104; 684

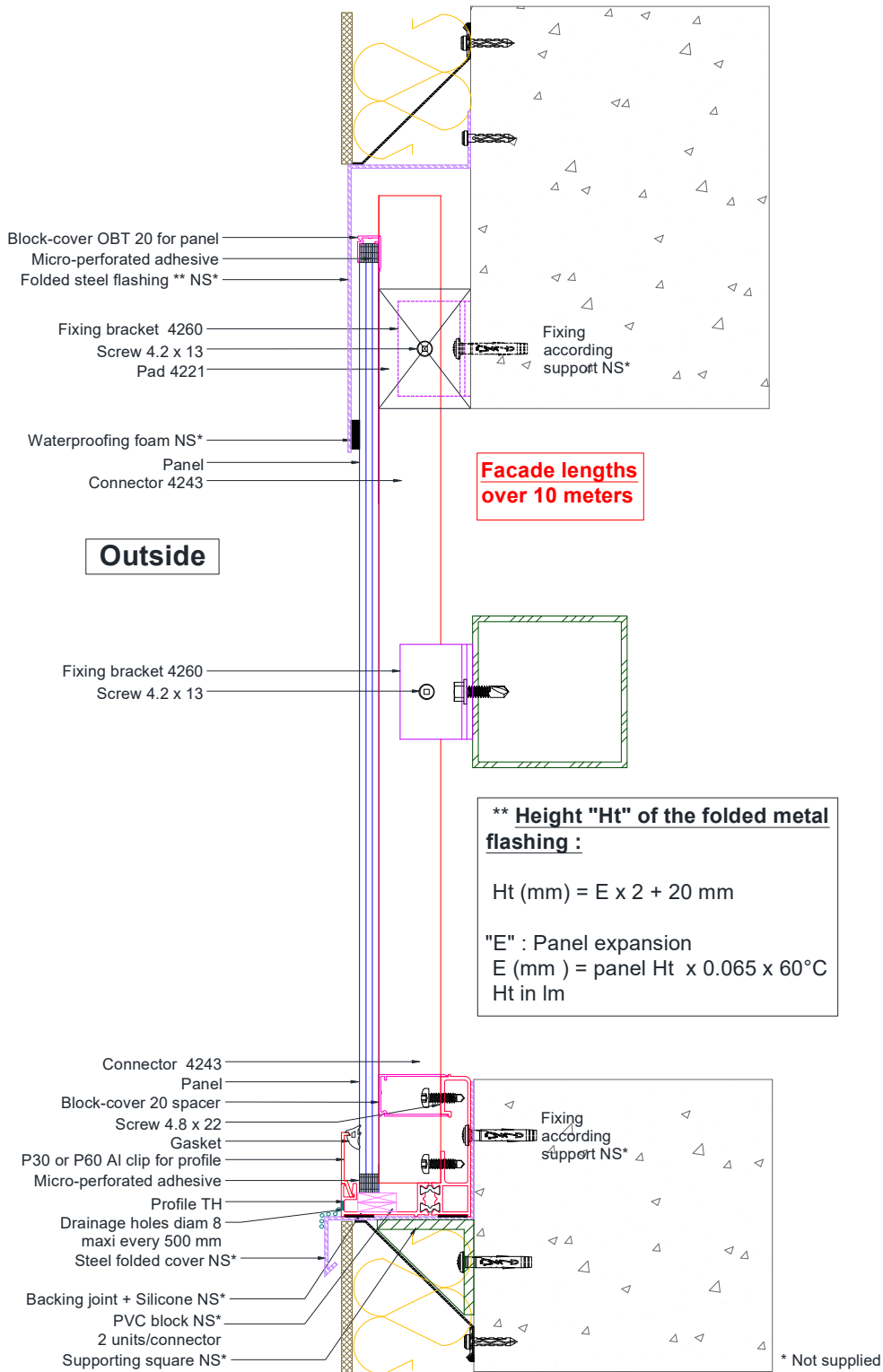
Up to 7 meters



Up to 10 meters

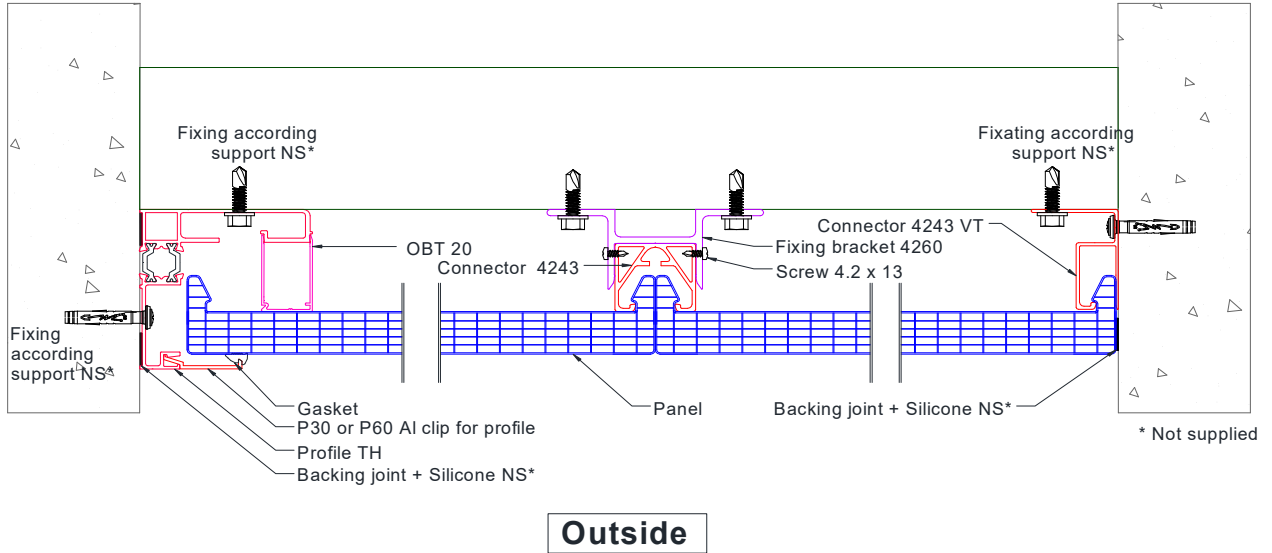


Over 10 meters

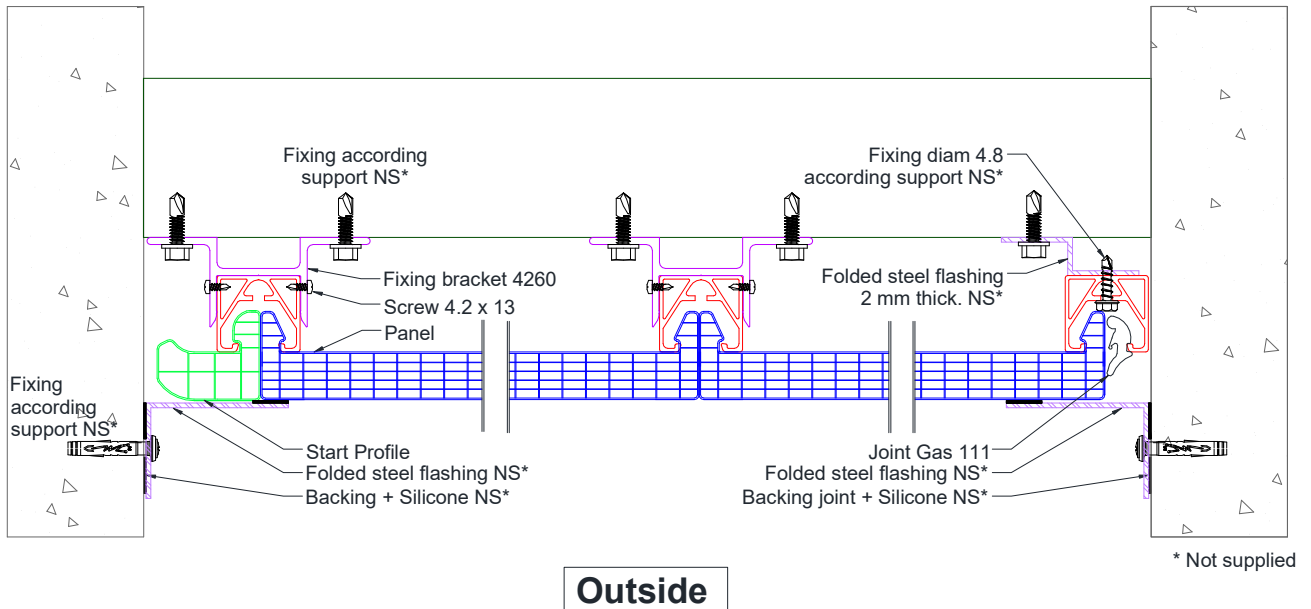


Lateral completions in rebates with connector 4243

On the left: with frame profile - On the right: with connector 4243 VT

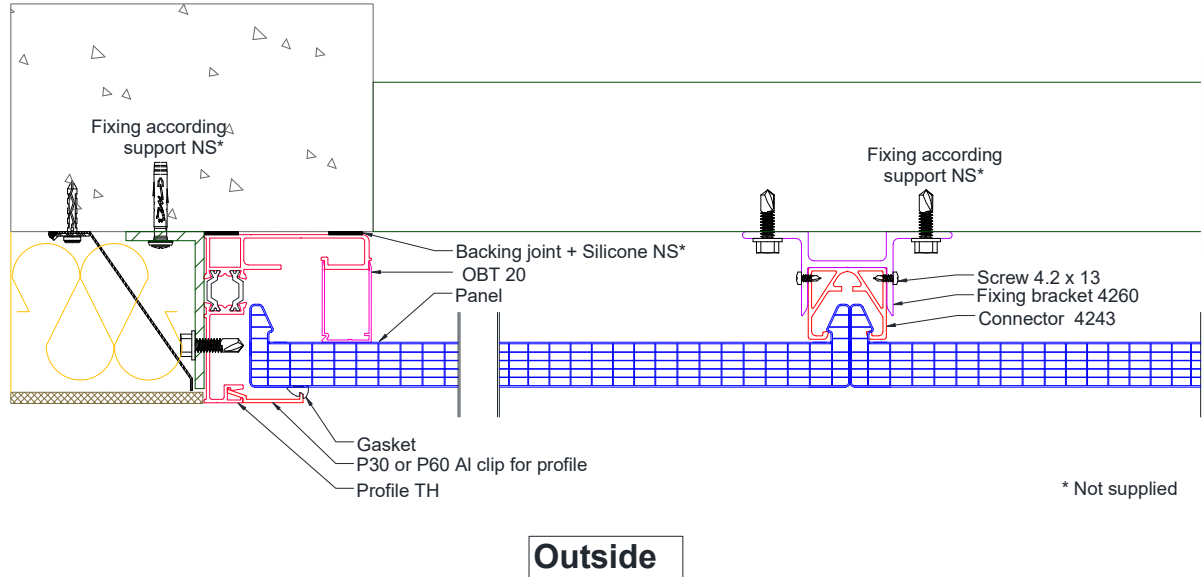


On the left: with start profile - On the right: with gasket Gas 111

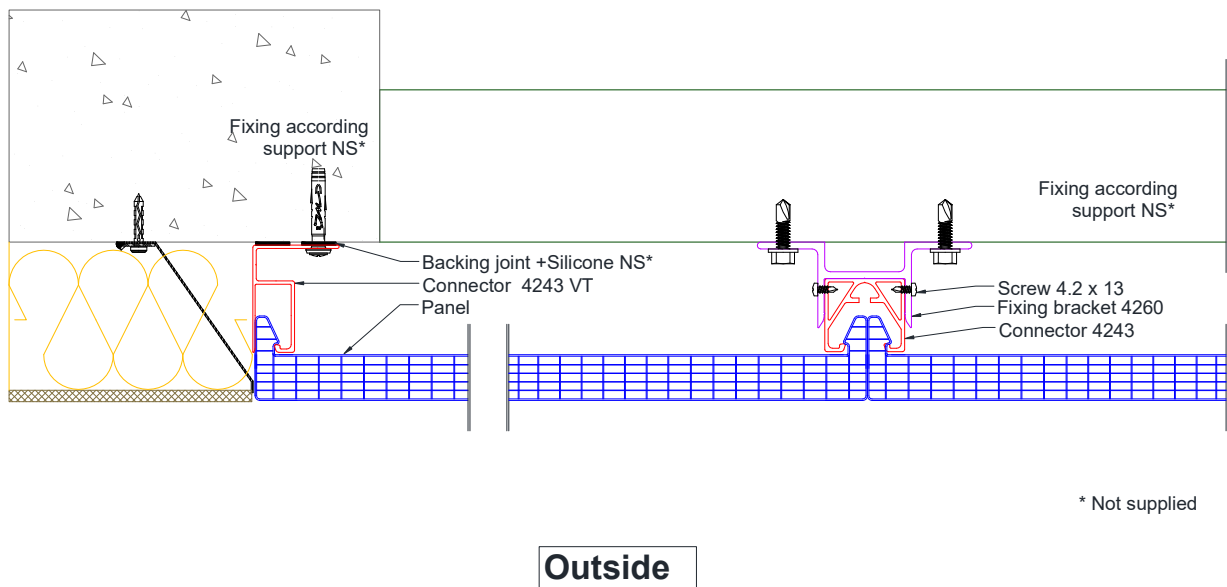


Lateral completions in front of building with connector 4243

Completions with frame profile

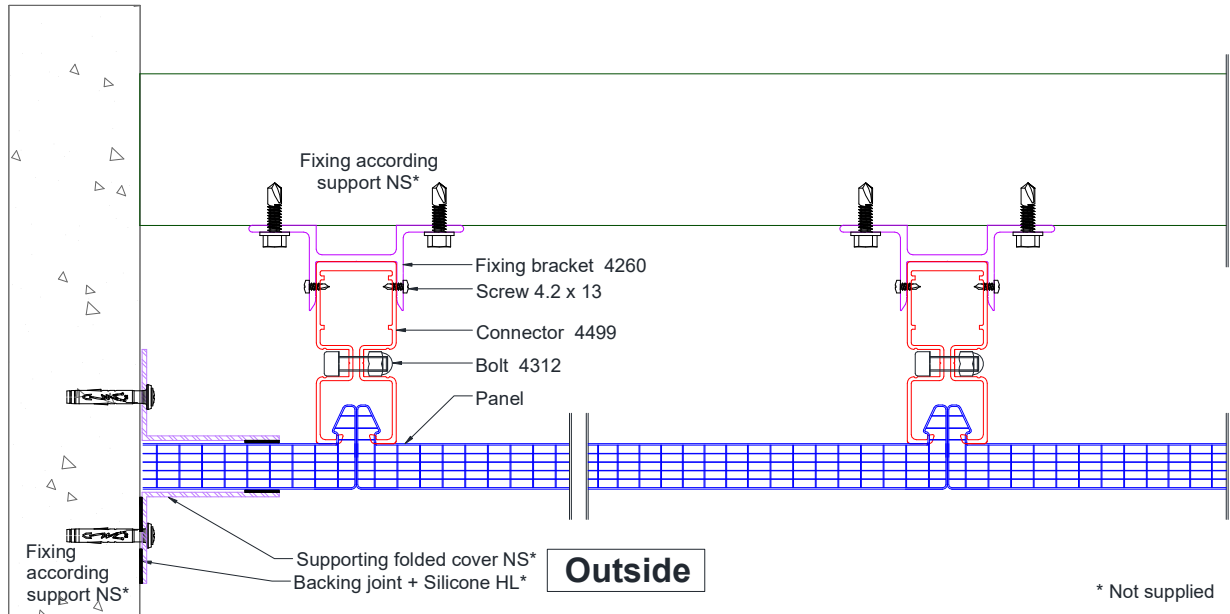


Completion with connector 4243 VT

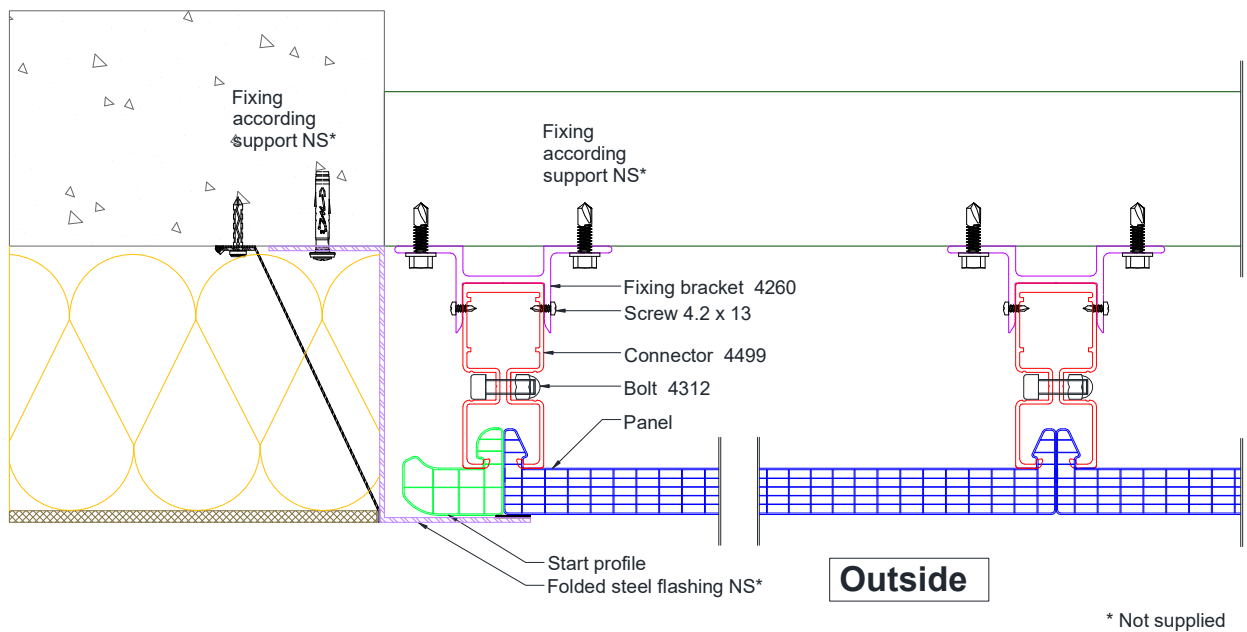


Lateral completions with connector 4499

Lateral completions in rebates

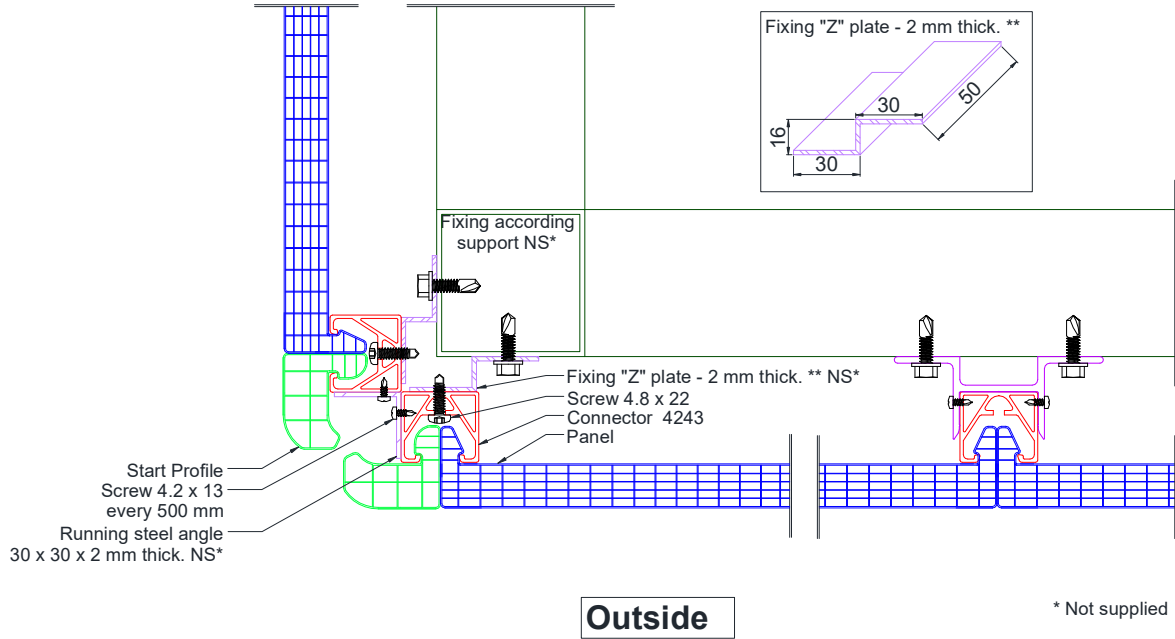


Lateral completions in front of building

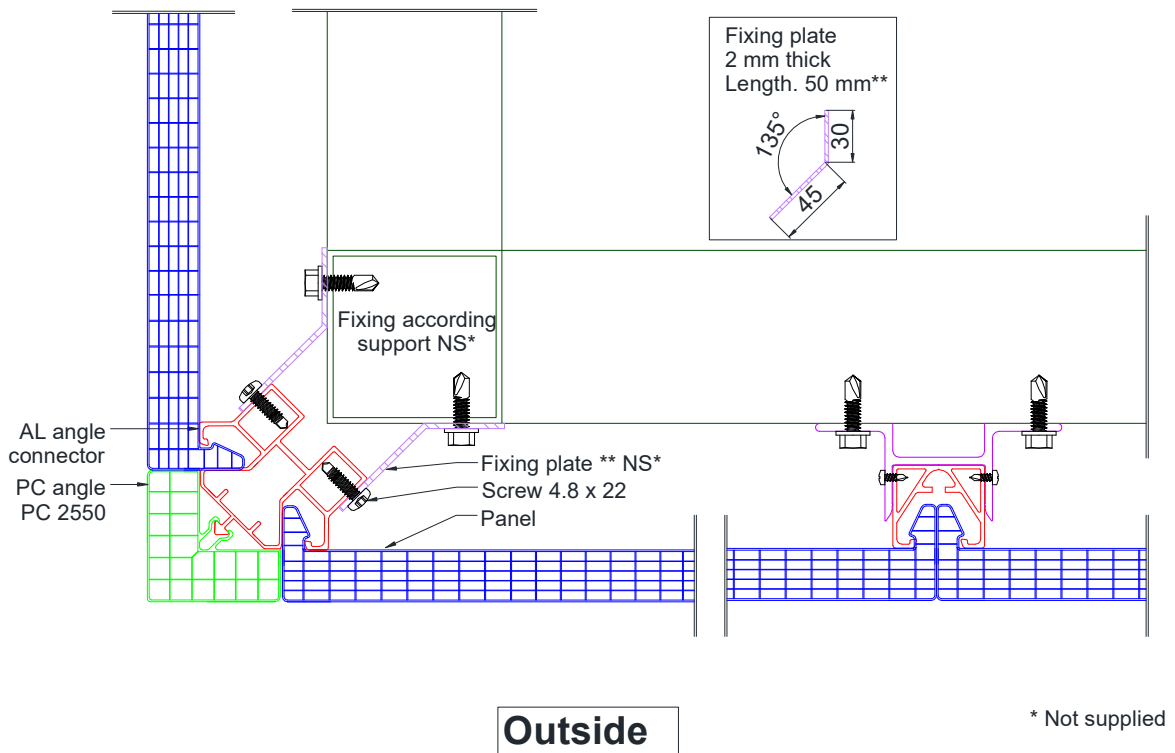


Principle of installation of 90° angle (Outward)

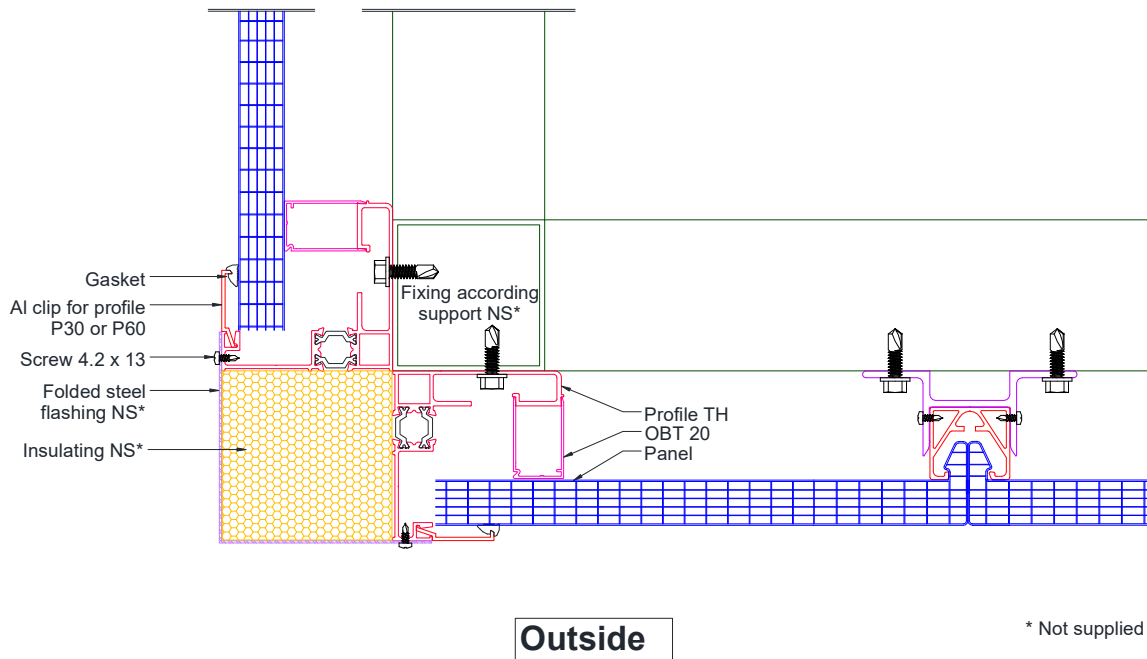
Polycarbonate angle with PC 90° profiles



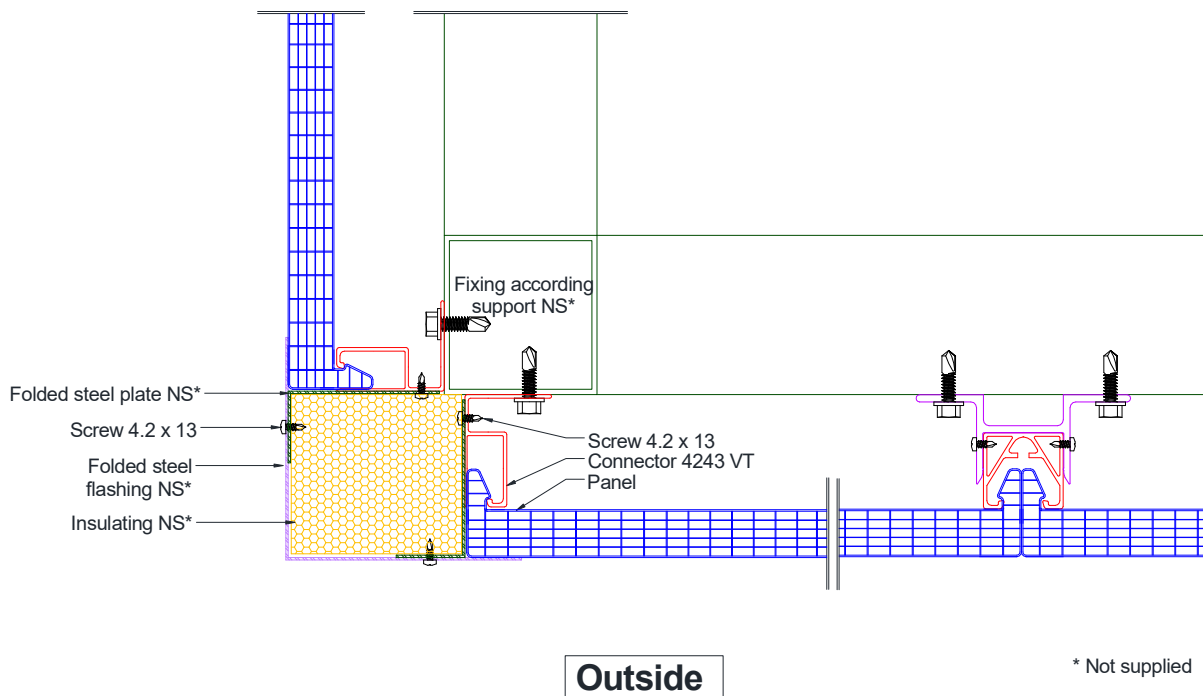
Polycarbonate angle with start profile



Aluminium angle with frame profiles

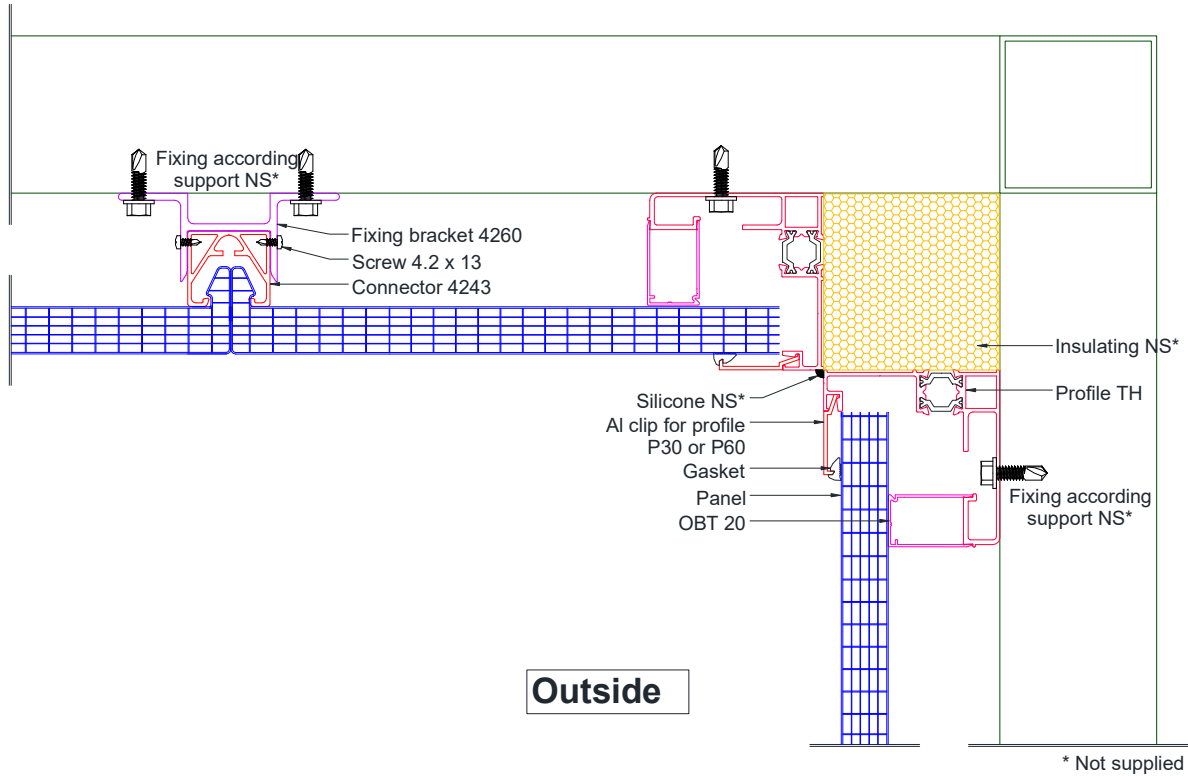


Aluminium angle with connector 4243 VT

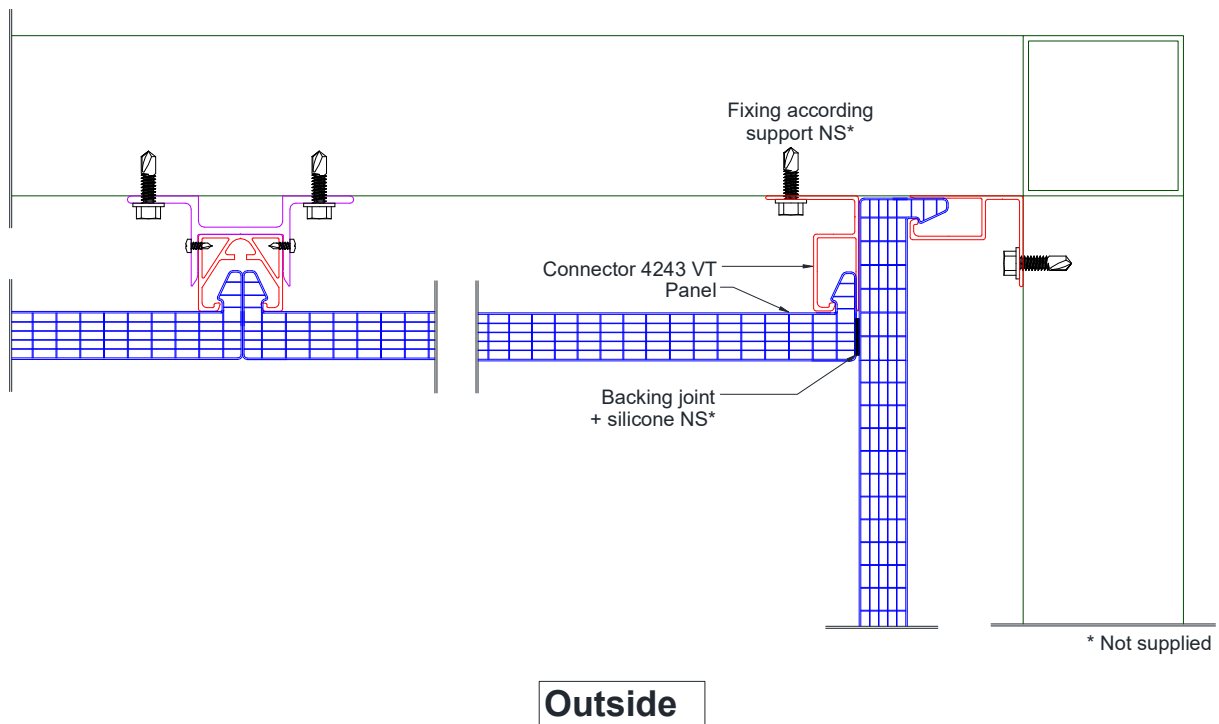


Installation principle of inward angle

Aluminium angle with frame profile

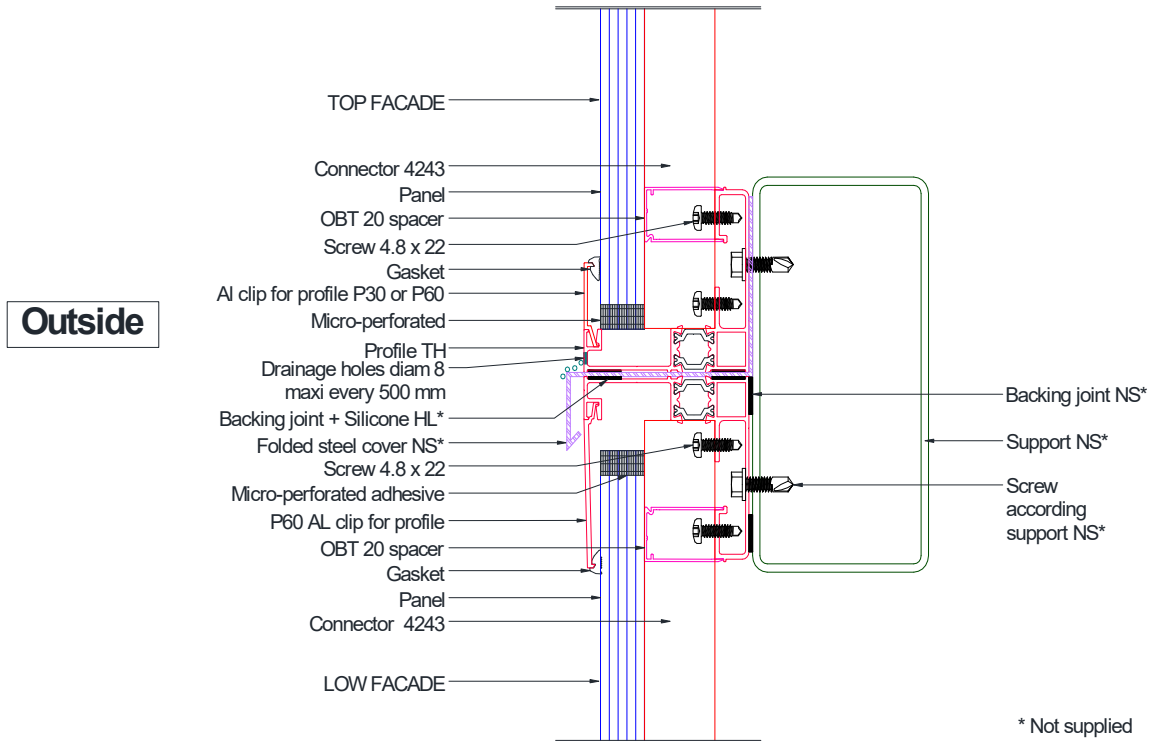


Aluminium angle with connector 4243 VT

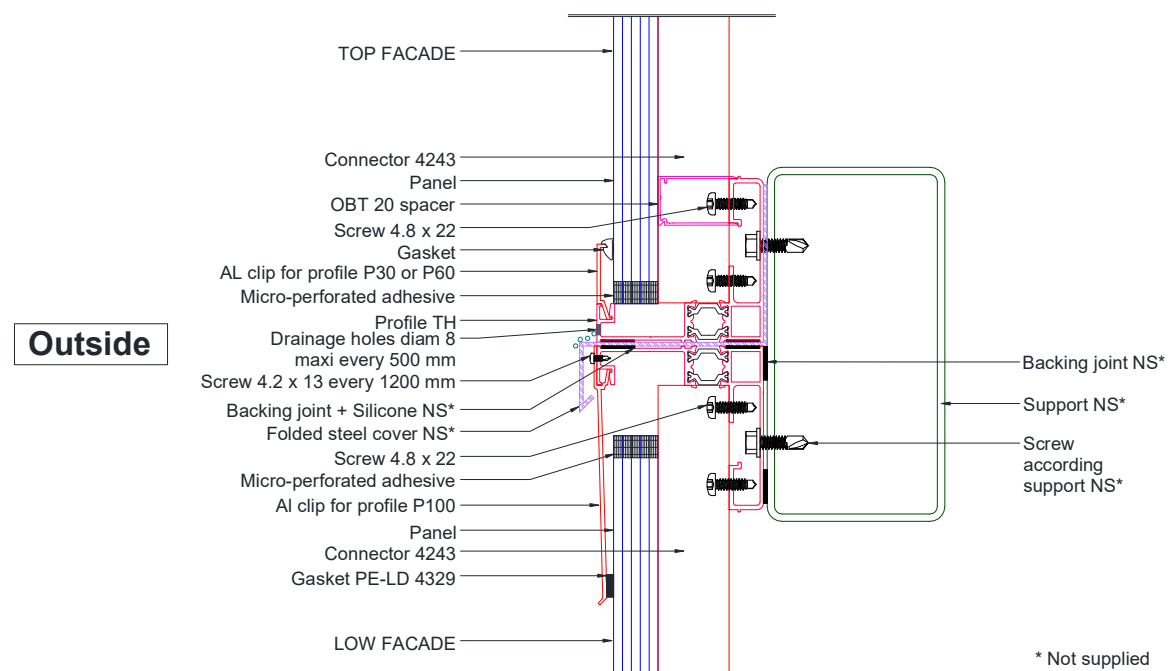


Principle of cladding junction

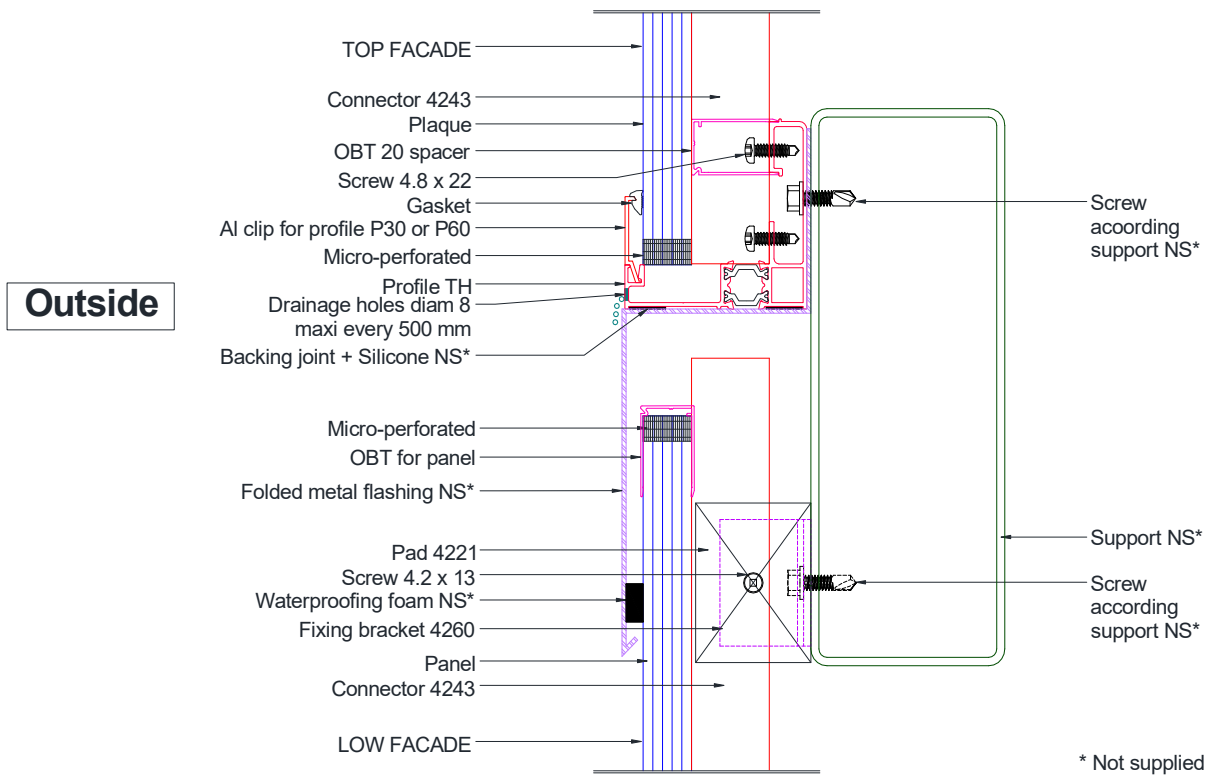
Up to 7 meters



Up to 10 meters

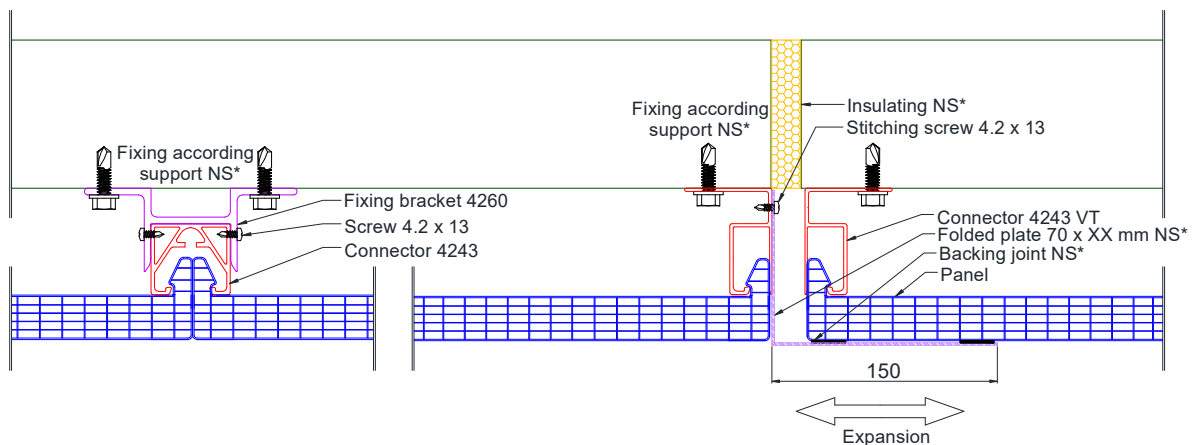


Over 10 meters



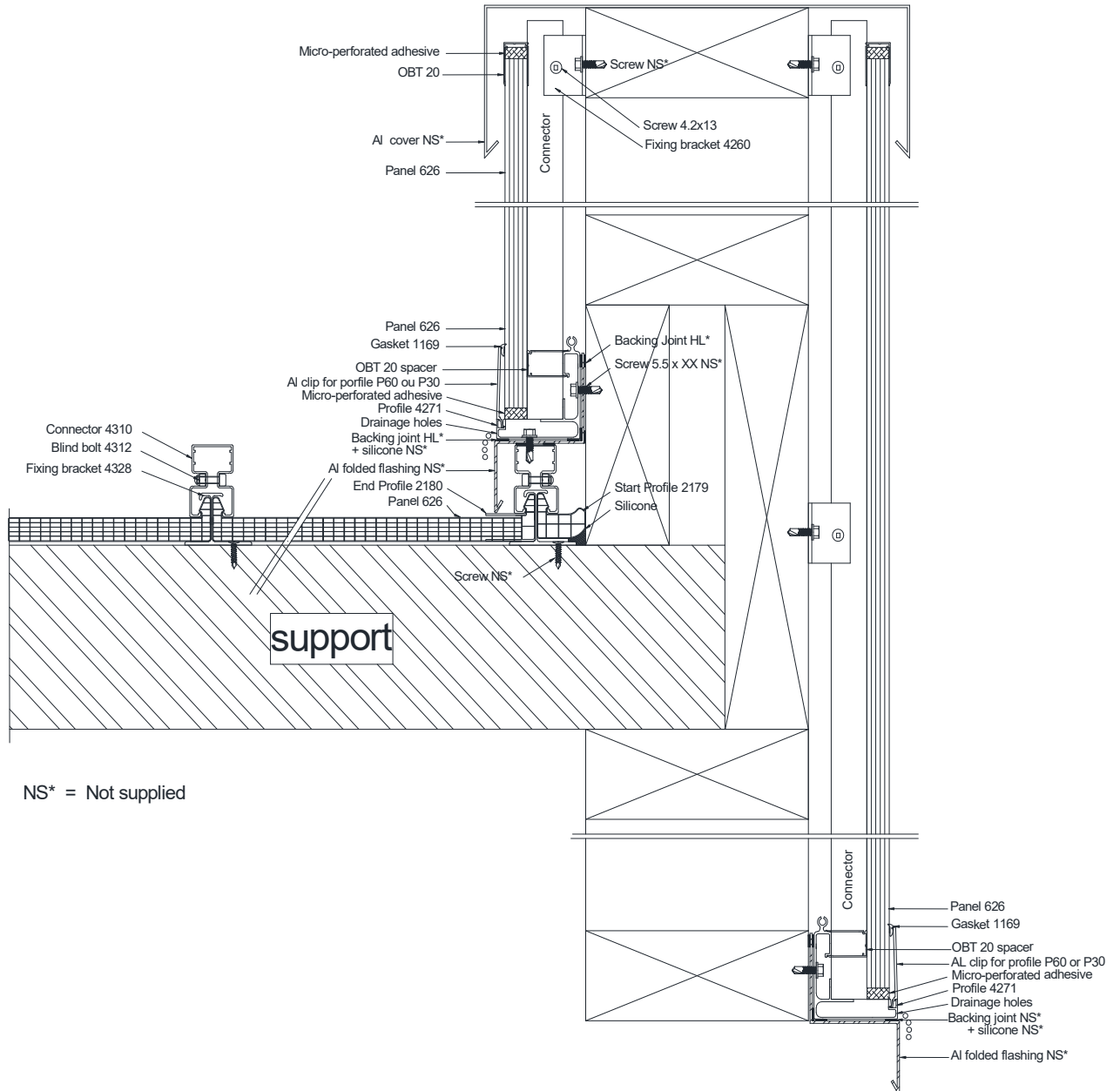
Principle of expansion joint

Expansion joint with connector 4243 VT



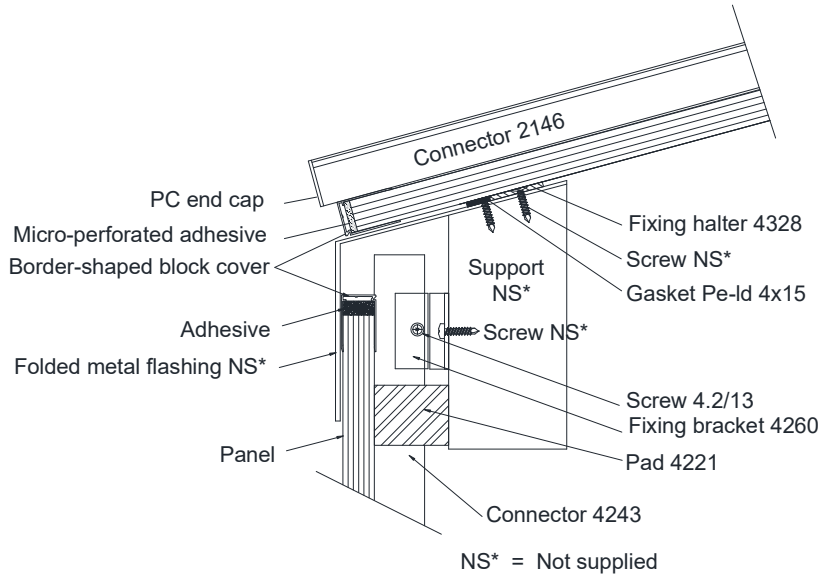
Junction principle between acroterion and roofing

Junction between acroterion and arcoPlus roofing

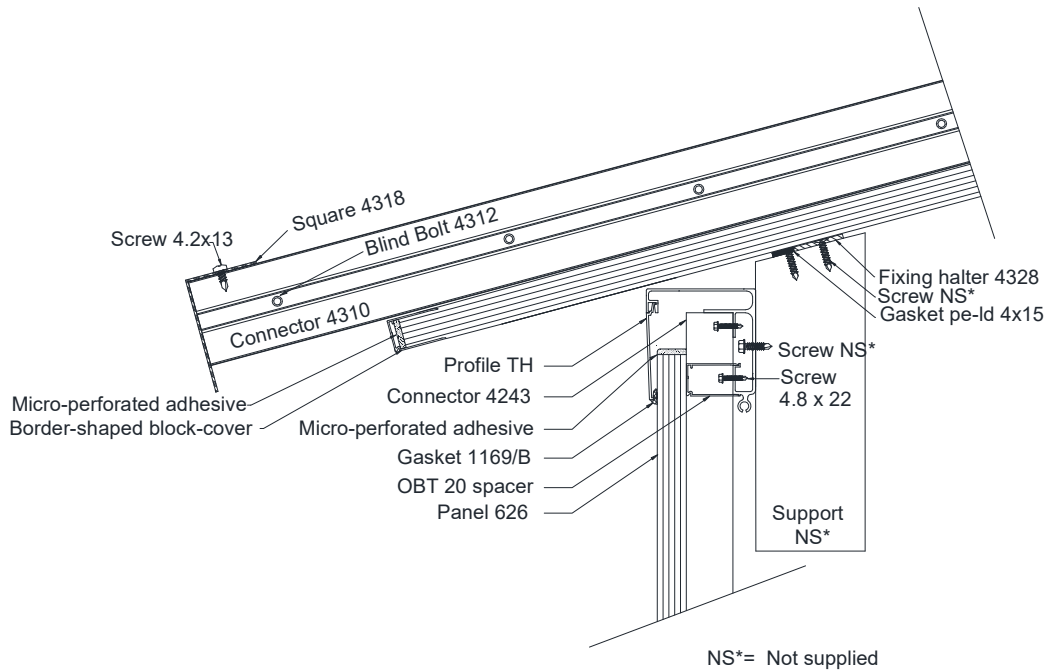


Junction principle between cladding and roofing

Junction with metal flashing

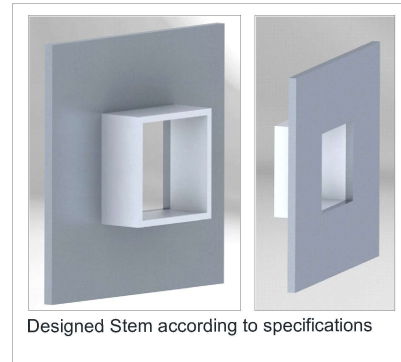
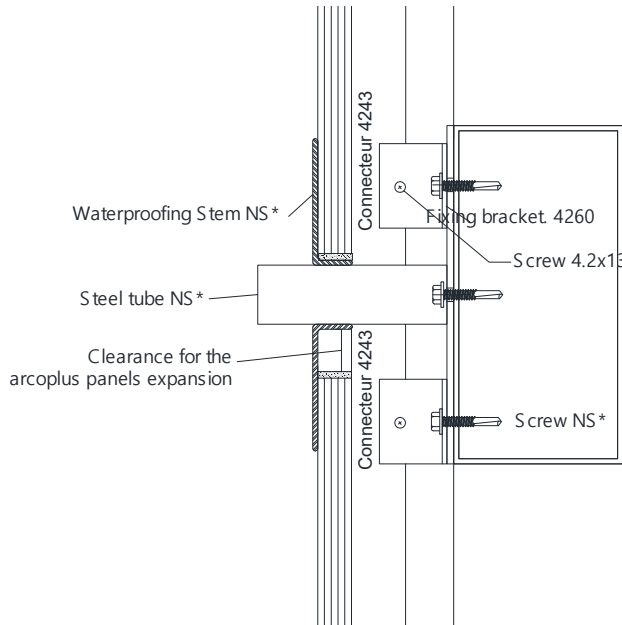


Junction with frame profile



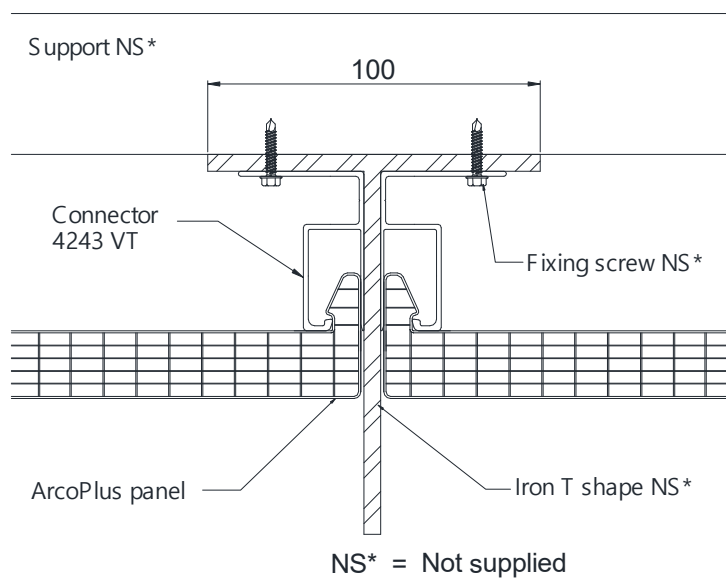
Principle of Cross –Through Stem

Cross-Through Stem



NS* = Not supplied

Cross-Through T-Shape

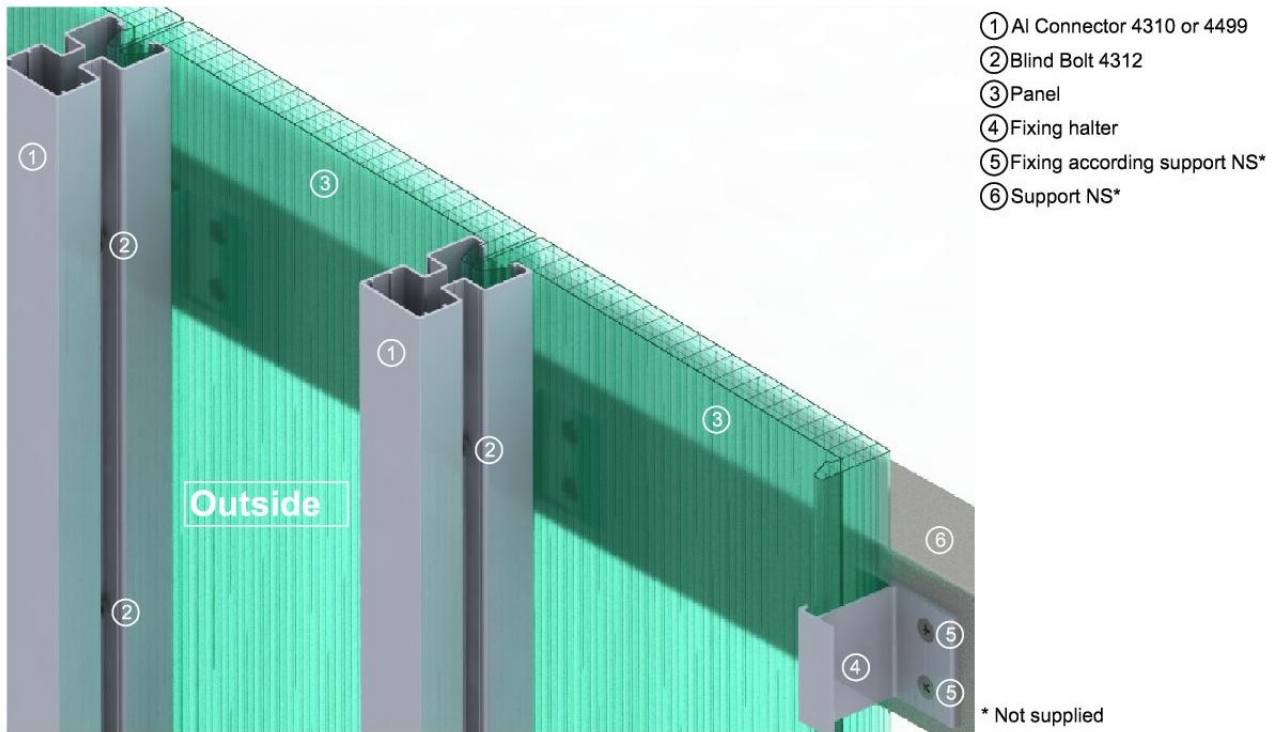


NS* = Not supplied

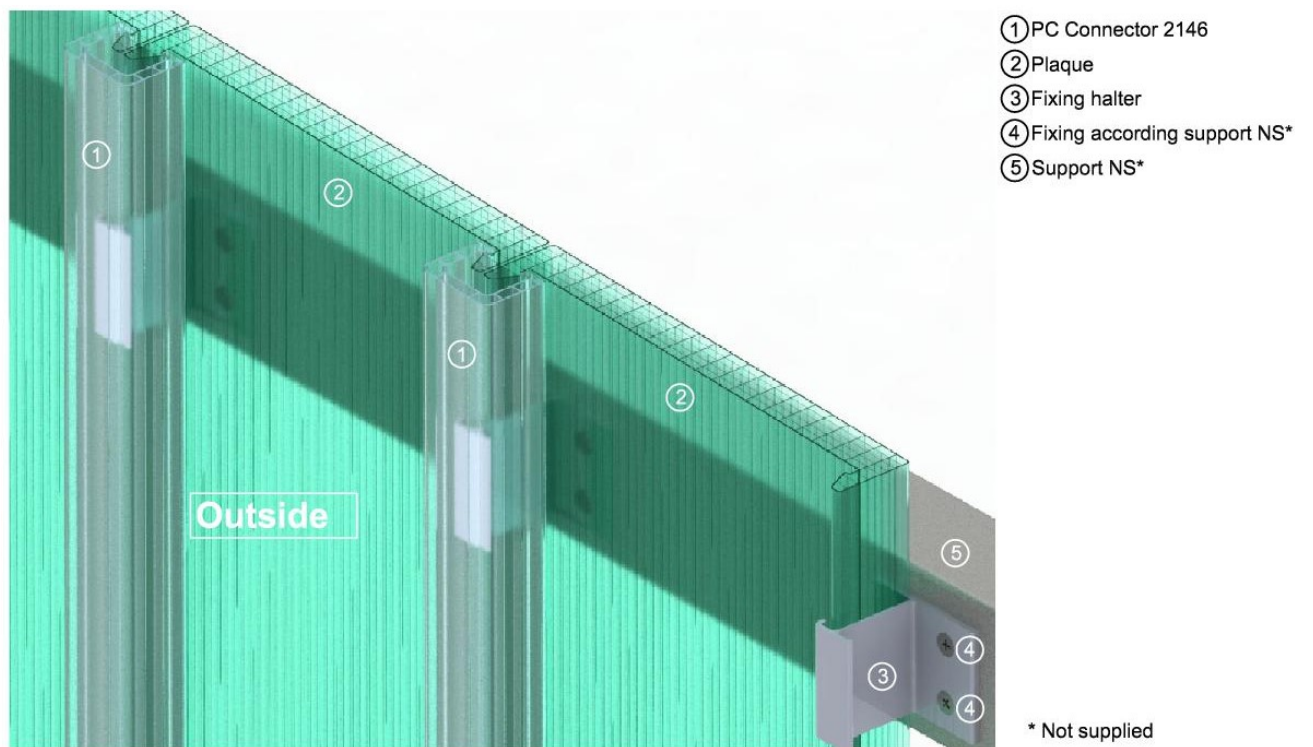
Cladding External connectors

Principle of cladding external connectors

Cladding with AI connector

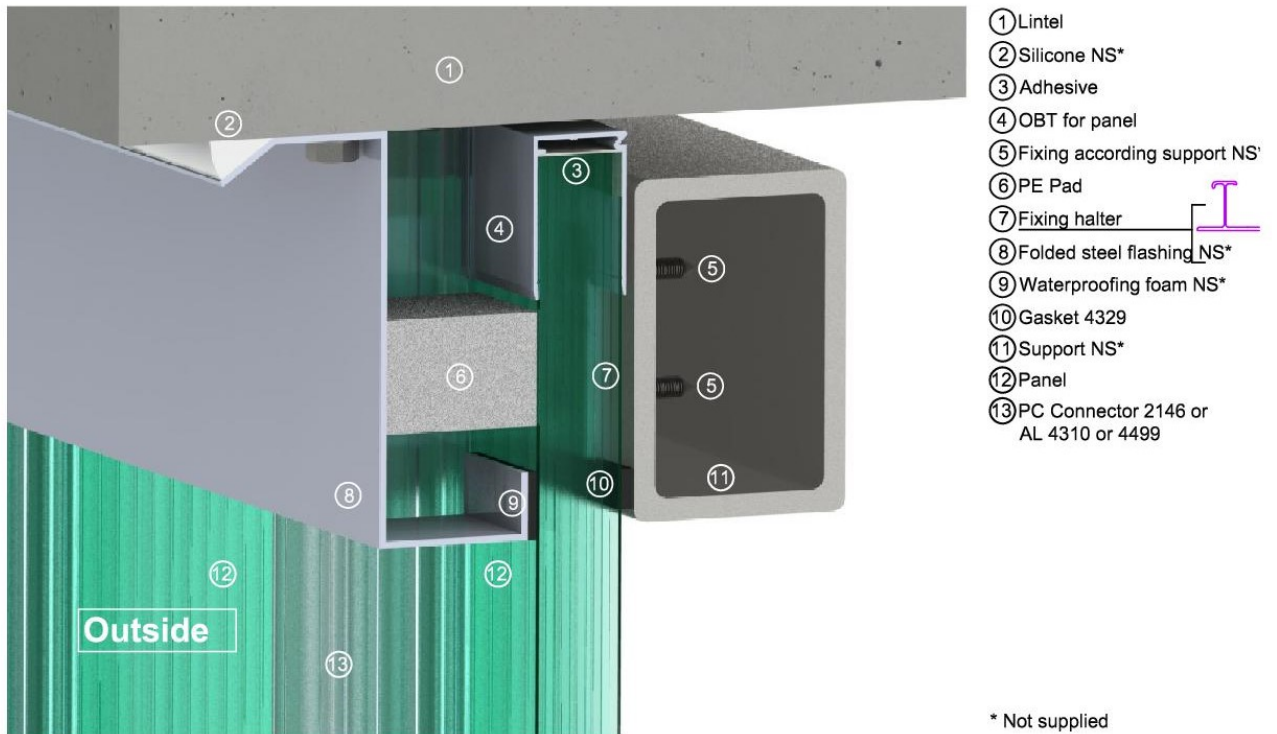


Cladding with PC connector



Principle of installation on top part of cladding

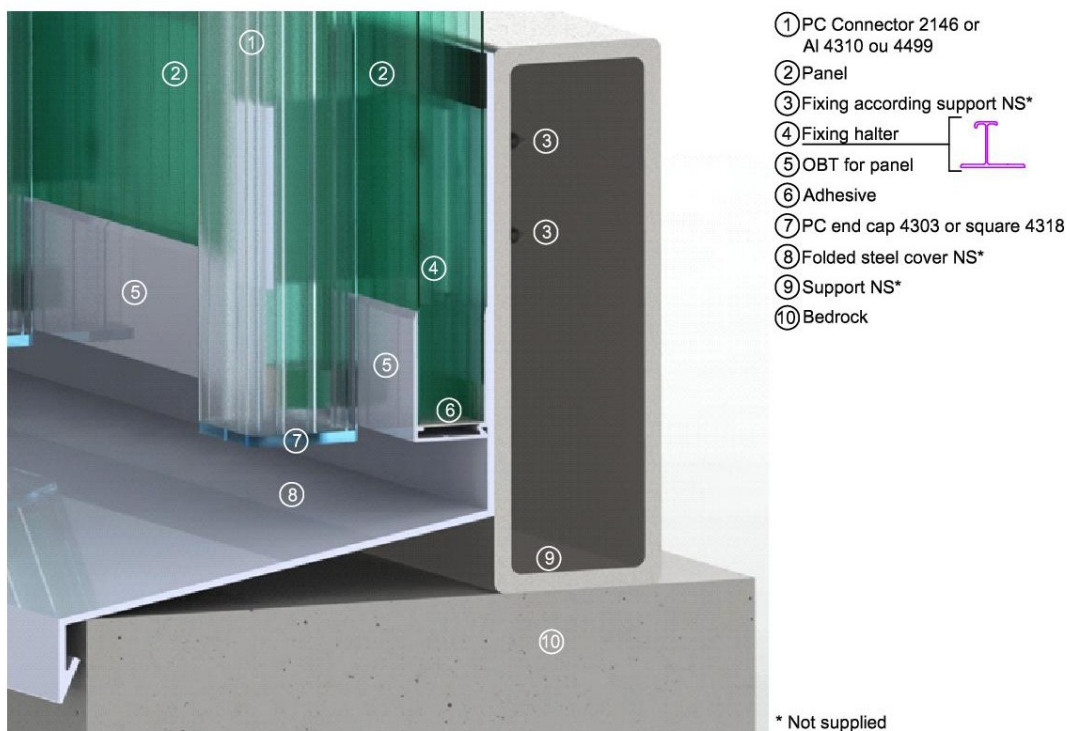
With 2146 connector



* Not supplied

Principle of installation on low part of cladding

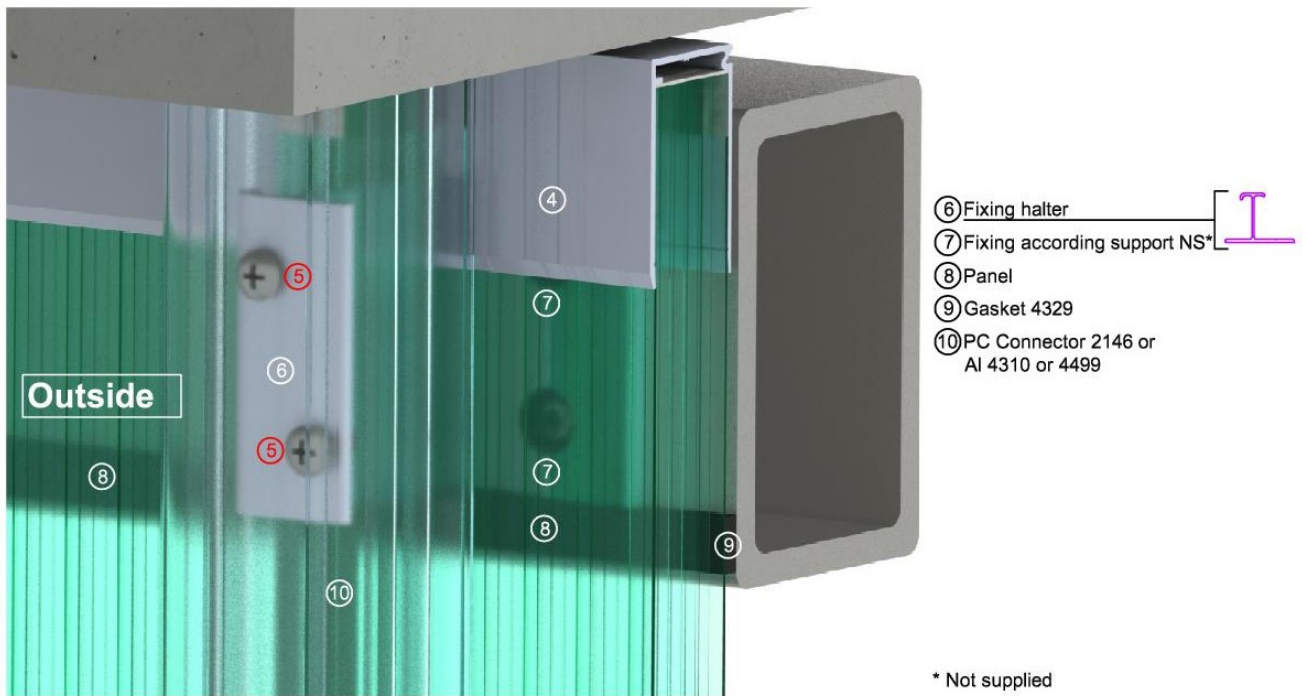
With 2146 connector



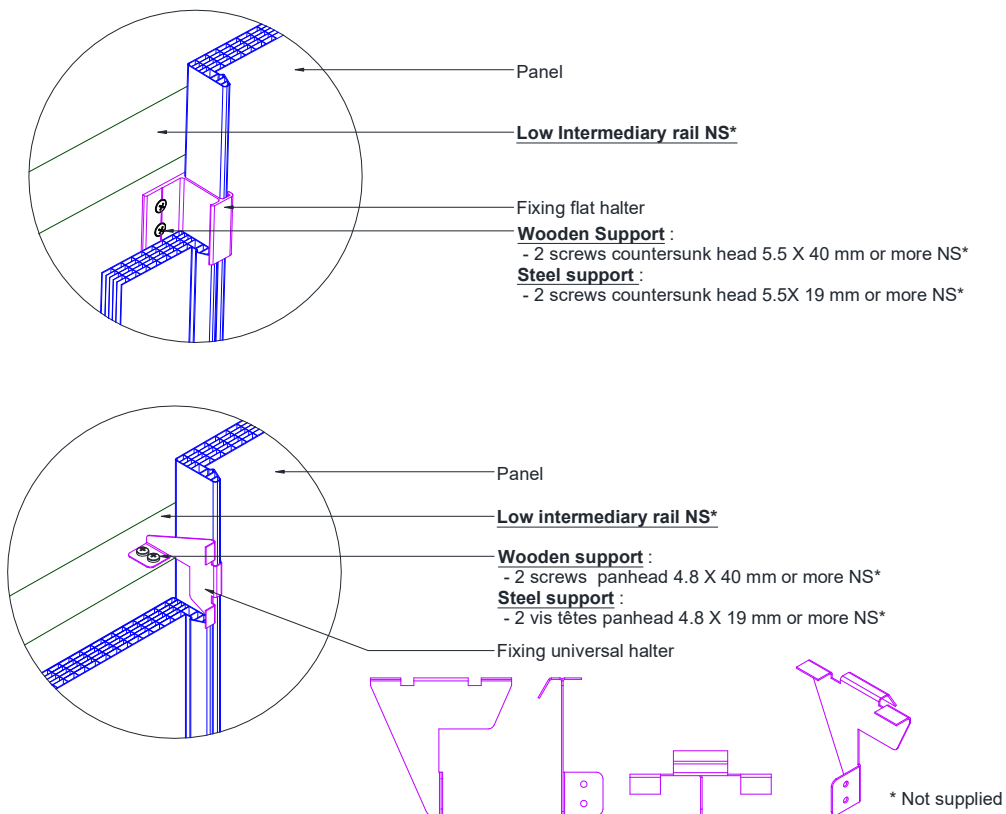
* Not supplied

Principle of fitting

Fixed point on top of the cladding

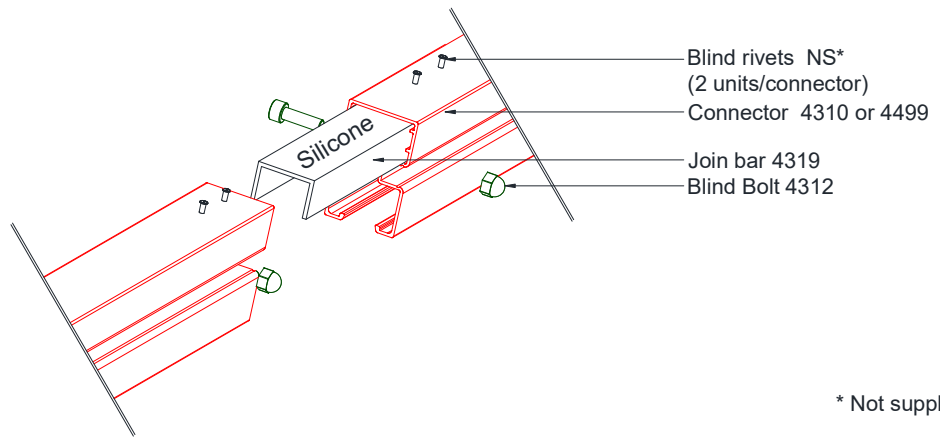
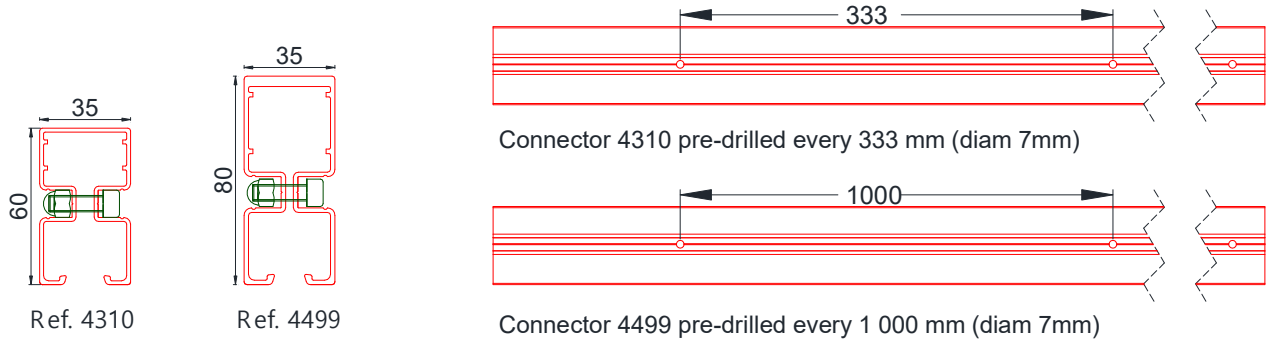


Principle of fixing the brackets on intermediary and low supports

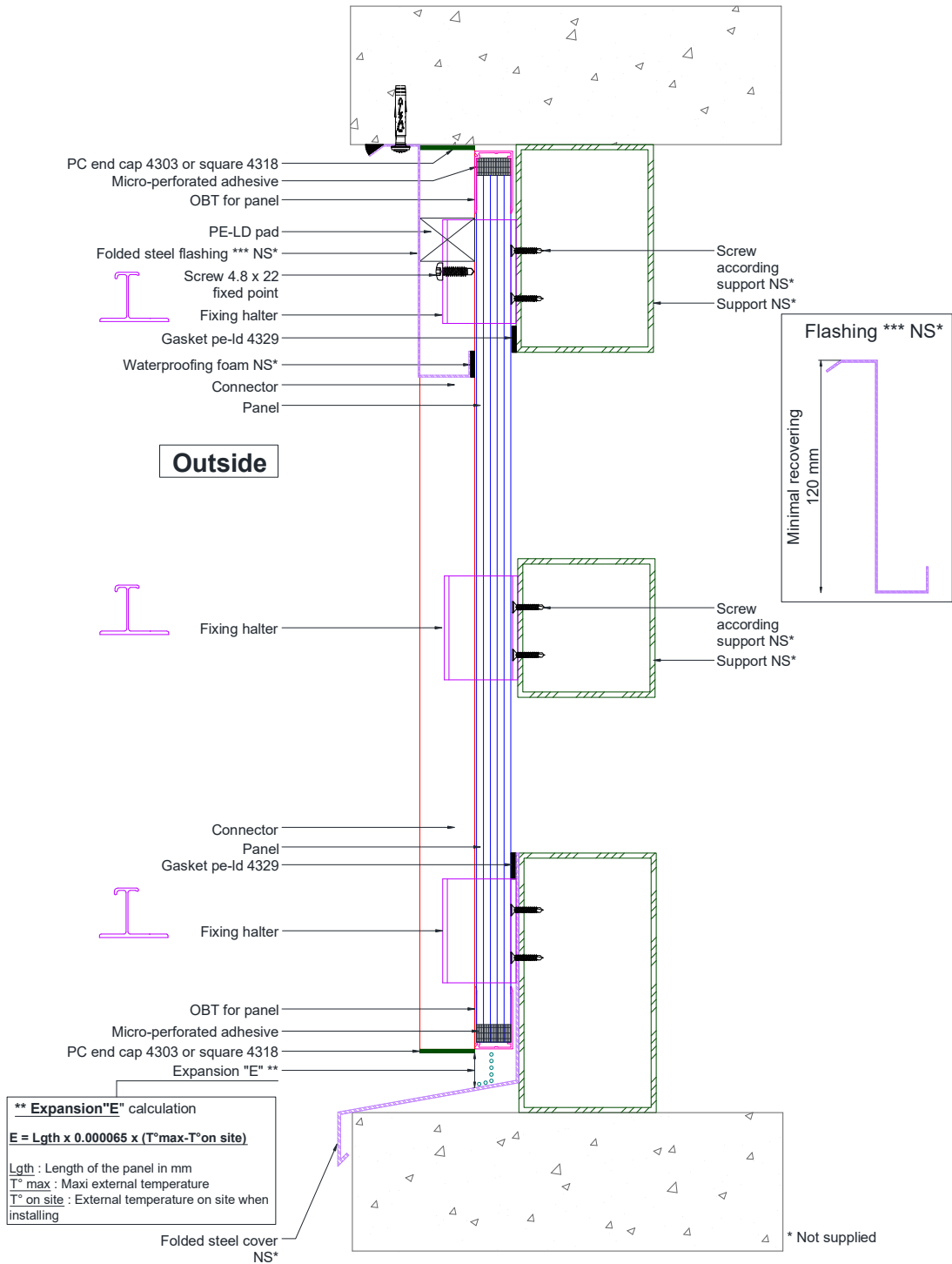


Principle of junction

Bolts Distribution – Junction of AL connectors 4310 & 4499



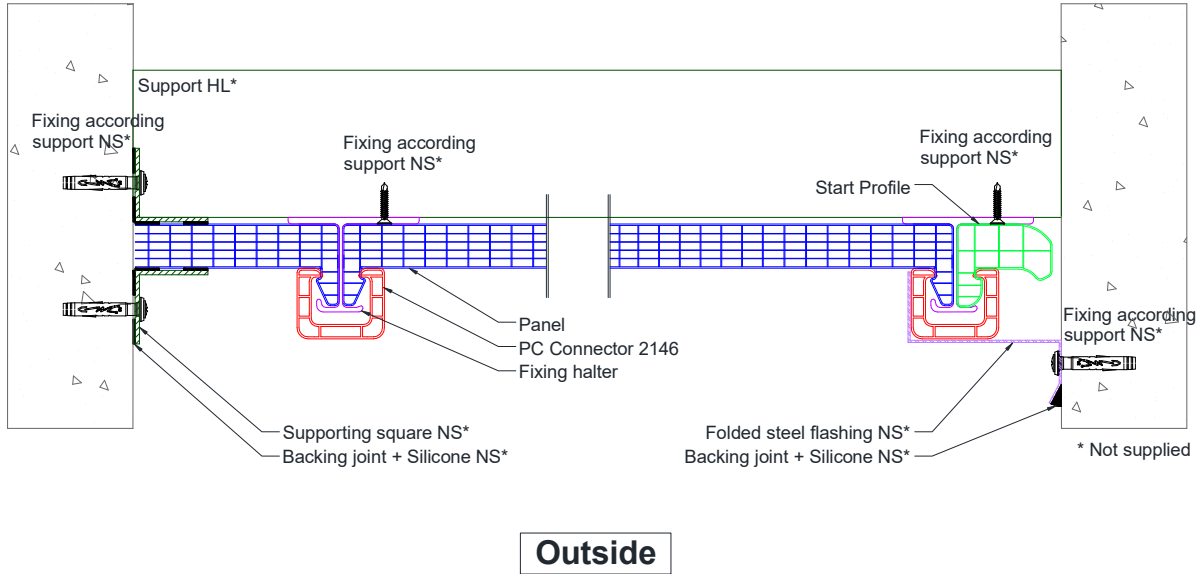
Principle of installation with external connector



Lateral completions

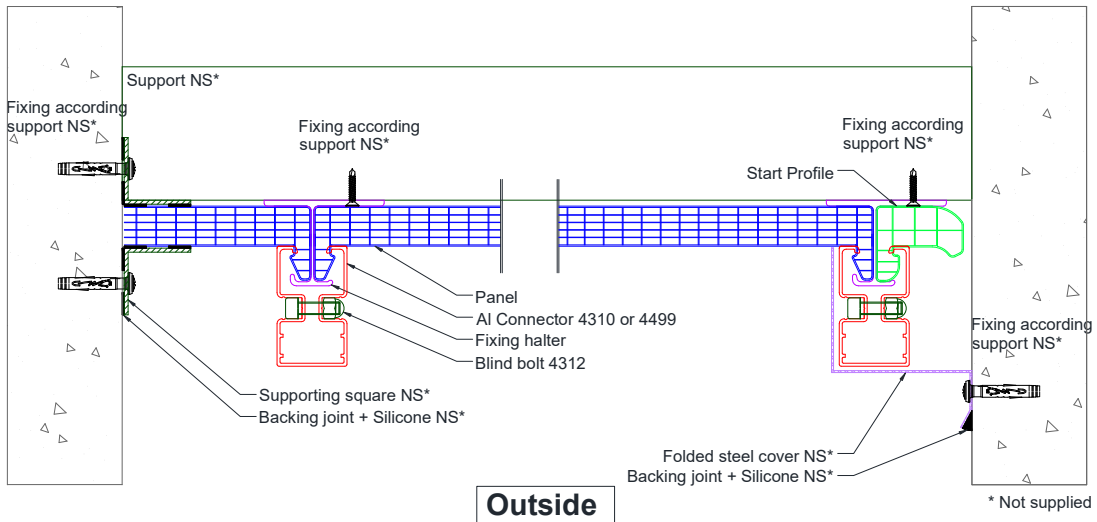
On the left: with steel angles

On the right: with start profiles



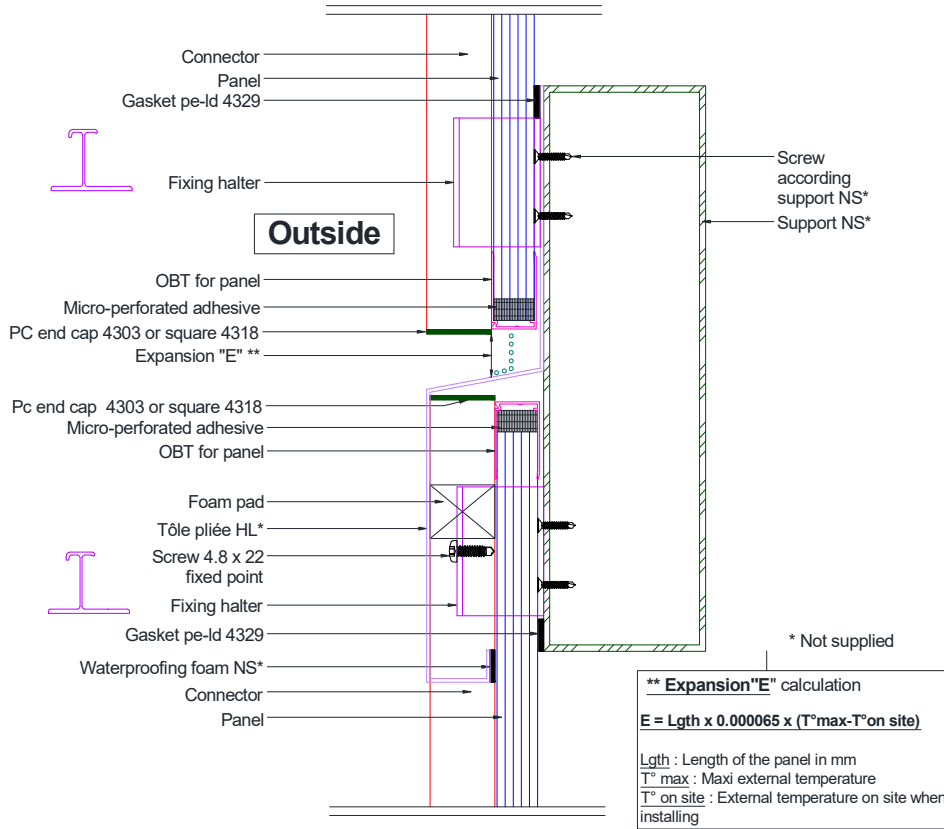
On the left: steel angles

On the right : with start profiles



Principle of junction

Junction of horizontal cladding



Principle of vertical expansion joint

