

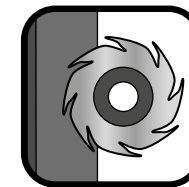
VENTILATED WALLS

TECHNICAL MANUAL

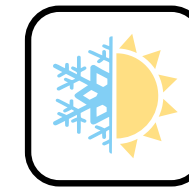
Ventilated walls

The term "ventilated wall" refers to an opaque wall with an outer coating composed of discontinuous elements made of ZERO.3 laminated tiles of large size and reduced thickness. These elements are installed "dry" with a mechanical or chemical-mechanical bond. Between these tiles and the wall behind, a space is created that allows air circulation. Their technical characteristics, combined with their unique beauty, make ZERO.3 tiles ideal for ventilated wall systems.

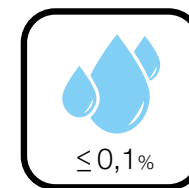
THE STRENGTHS OF ZERO.3 VENTILATED WALLS



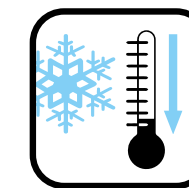
Superior mechanical strength



Resistant to thermal shock



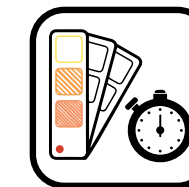
Minimum water absorption



High frost resistance



Fireproof



Resistance of colours to sunlight
and to ageing



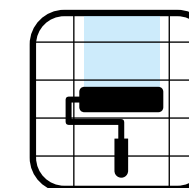
Resistant to stains and smog



Resistant to atmospheric agents



Light and easy to install



Easy to restore original appearance in
case of vandalism or graffiti

Contents

Ventilated walls with hidden anchors



- LUNA SLOT SYSTEM

In partnership with **DALLERA**

- Formats: up to 60x120 cm
- Thickness from 9 to 20 mm

- Formats: up to 300x100 cm
- Type: ZERO.3 double-layer

Mechanical bonding

With slots on the horizontal edge of the tiles where the fixing hooks connected to the supporting structure are inserted



p. 08



p. 16

- GEOS SYSTEM

In partnership with **GEOS ITALY**

- Formats: up to 60x120 cm
- Thickness from 9 to 20 mm

- Formats: up to 300x100 cm
- Type: ZERO.3 5PLUS

Mechanical bonding

With slots at the back of the tile, in which metal profiles are inserted which fix the tile to the bearing structure



p. 24



p. 30

- ADERMA SYSTEM

In partnership with **ADERMA**

- Formats: up to 60x120 cm
- Thickness from 11 to 20 mm

/

Mechanical bonding

With slots on the vertical edge of the tiles where the fixing hooks connected to the supporting structure are inserted



p. 36

- PROGEST SYSTEM

In partnership with **PROGEST**

- Formats: up to 60x120 cm
- Thickness from 9 to 20 mm

- Formats: up to 300x100 cm
- Type: ZERO.3 5PLUS

Structurally adhered bonding

By structurally binding metal profiles on the back of the tiles, which are then secured mechanically to the bearing structure



p. 42



p. 48

Ventilated walls with visible anchors



- LUNA VISTA SYSTEM

In partnership with **DALLERA**

- Formats: up to 60x120 cm
- Thickness from 9 to 20 mm

- Formats: up to 300x100 cm
- Type: ZERO.3 3PLUS
ZERO.3 5PLUS

Mechanical bonding

With camouflaged hooks on the horizontal edge of the tiles, used to fix the tiles to the supporting structure



p. 54



p. 62

- VENERE SORMONTATO SYSTEM

In partnership with **DALLERA**

- Formats: up to 60x120 cm
- Thickness from 9 to 20 mm

- Formats: up to 300x50 cm
- Type: ZERO.3 3PLUS
ZERO.3 5PLUS

Mechanical bonding

With camouflaged hooks on the horizontal edge of the overlapping tiles, used to fix the tiles to the supporting structure



p. 70



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- SIRIO SYSTEM

In partnership with **DALLERA**

/

- Formats: up to 300x100 cm
- Type: ZERO.3 3PLUS
ZERO.3 5PLUS

Mechanical bonding

With holes drilled through the tiles in which camouflaged bolts are inserted and screwed to the bearing structure



p. 86

Lamborghini Logistic Centre

Location: Sant'Agata Bolognese (BO) - Italy



Modena racetrack

Location: Modena - Italy



Protopshop di Lamborghini

Location: Sant'Agata Bolognese (BO) - Italy



Panariagroup Headquarters

Location: Finale Emilia - Italy



Humanitas clinic
Location: Milan - Italy



Bosco Verticale
Location: Milan - Italy



Bosco Verticale
Location: Milan - Italy



Residential building
Location: Croatia



Residential buildings
Location: Milan - Italy



LUNA SLOT SYSTEM PANARIA PORCELAIN STONEWARE

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES:

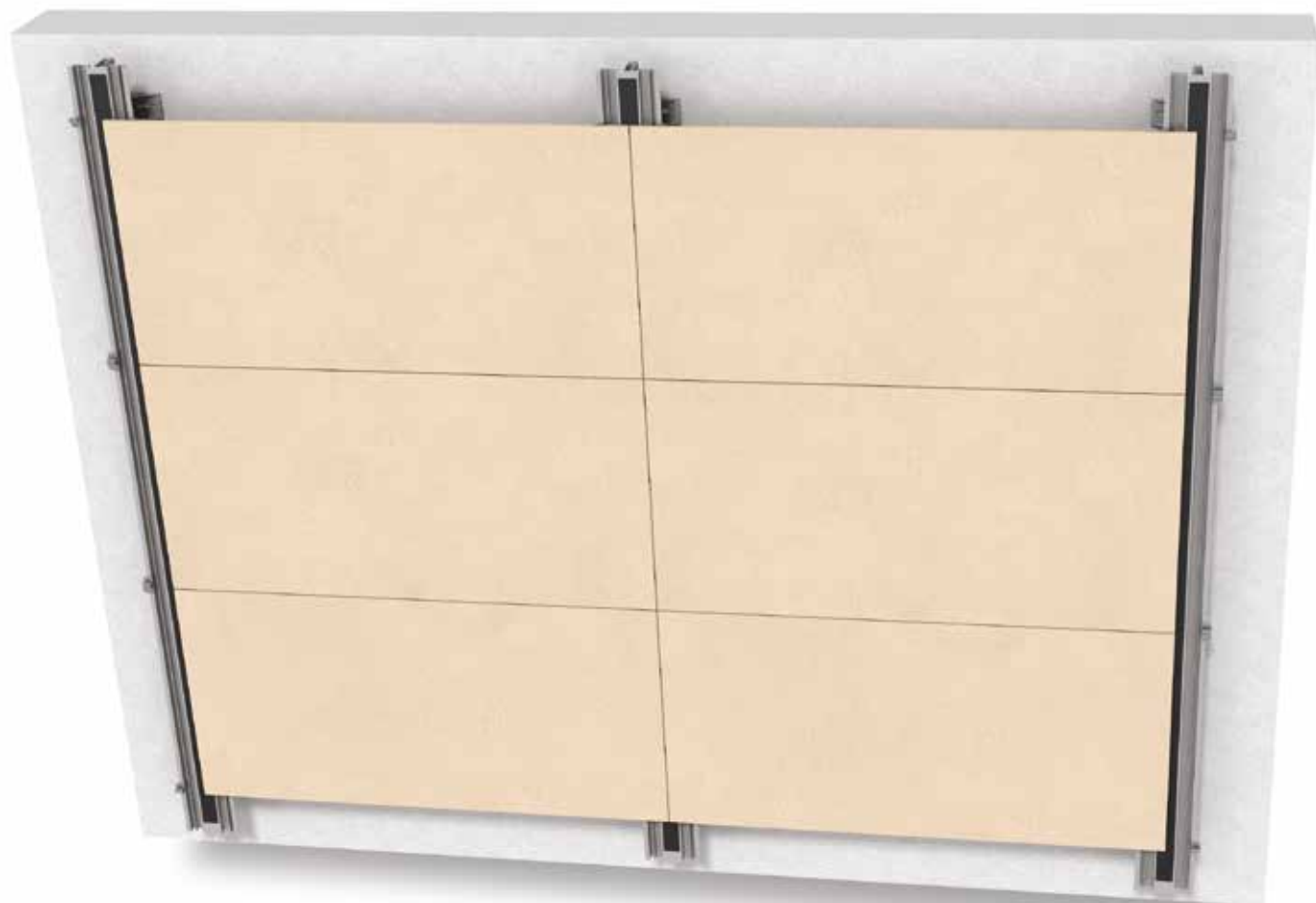
Ceramic tiles in Panaria porcelain stoneware with thickness from 9 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE:

Slots on the horizontal edge

CLADDING SLAB SIZES:

60x60 - 75x75 - 90x90 - 60x120



SYSTEM COMPONENTS

The "Luna slot" system consists of the following elements:

- Extruded "L1" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Support hooks of the tiles "T6/30 dx" and "T6/30 sx" stainless steel EN 1.4310 (AISI 301);
- Standard support brackets "A12" and "B12" made from extruded aluminium EN 6060;
- Stainless steel screws, for fixing "L1" profile to the brackets;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Silicone drops bonding the tiles to hooks and profile.

SYSTEM DESCRIPTION

The system consists of a mounted aluminium vertical profile "L1" with a pitch equal to the width of the tile, plus the joint of the project.

The vertical profile "L1" is shaped to accommodate without drilling the following accessories:

- wall fixing brackets screwed with stainless steel bolts, according to project pitch;
- the hooks "T6/30sx" and "T6/30dx" to support the cladding tiles.

The cladding tiles are held in place by means of hooks which are inserted into the slots previously machined on the edge of the tiles and which fit into the grooves of the profiles "L1". Each tile can be assembled or disassembled independently by snapping the hooks "T6/30" into the slots on the front of the profile "L1". The number of hooks depends on the size of the tile and the load on the wall.

Structural adhesive is also applied between the lateral edges of the profile and the back of the tile to improve the mechanical support of the system.

As there are no holes, no damage is done to the surface protection (caused by oxidation or electrocoloring) and this increases the life-cycle of the profiles.

The supporting structure allows any type of adjustment; it is able to protect from wind loads and allows the thermal expansion of the different components.

SYSTEM SIZES:

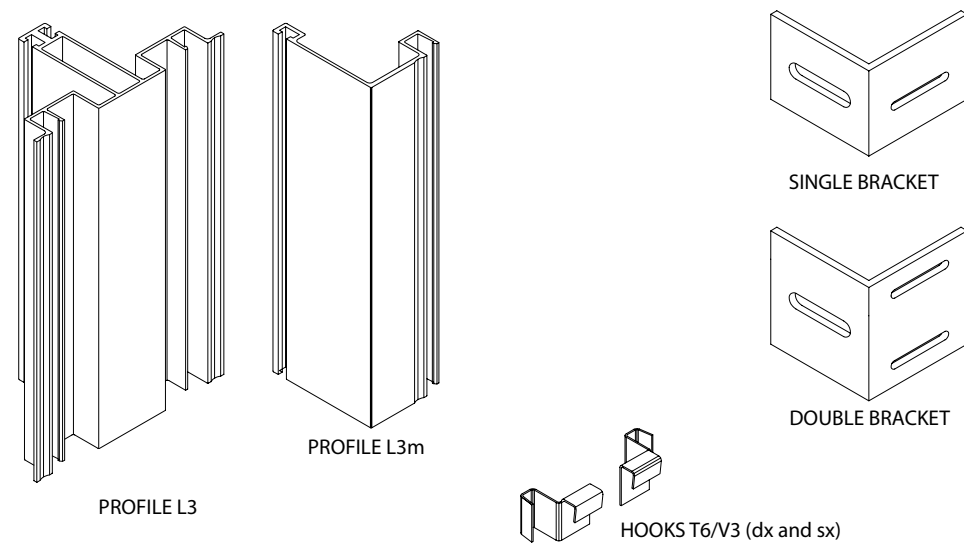
- The standard distance between the wall and the internal face of the tiles is 130 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the tiles for this system is between 10 and 20 mm.



LUNA SLOT SYSTEM PANARIA PORCELAIN STONEWARE

Panaria porcelain tile

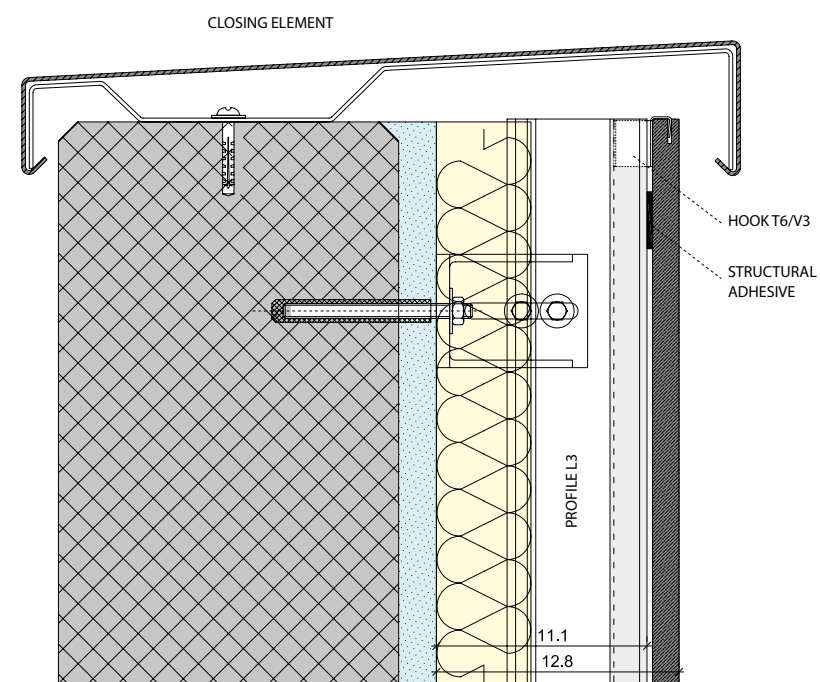
Components



N.B: The actual components may be modified in the design phase.

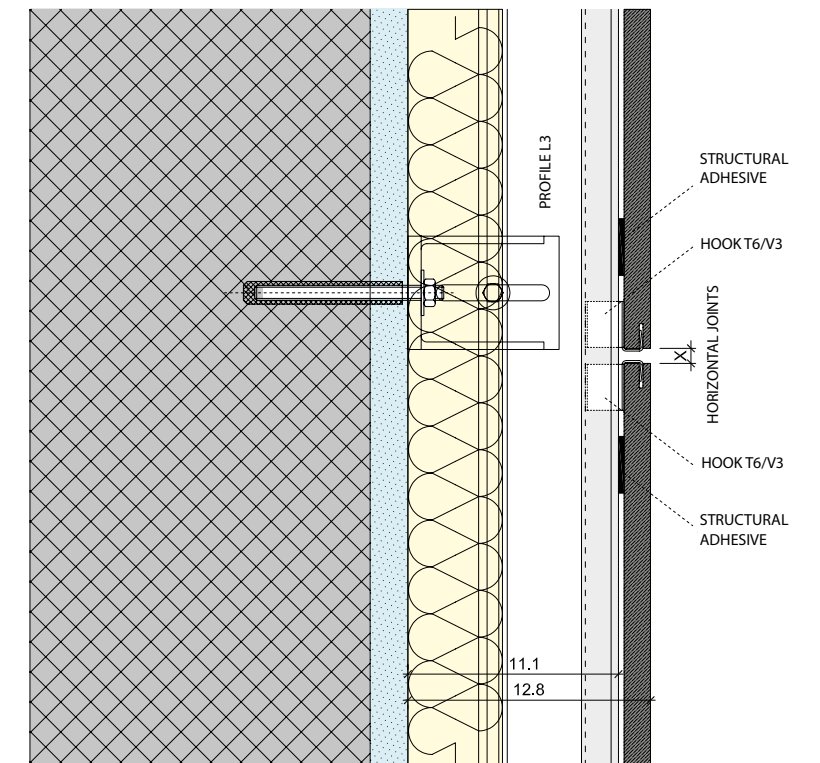
Panaria porcelain tile

Standard solution for roof finishing Vertical section - Scale 1:4



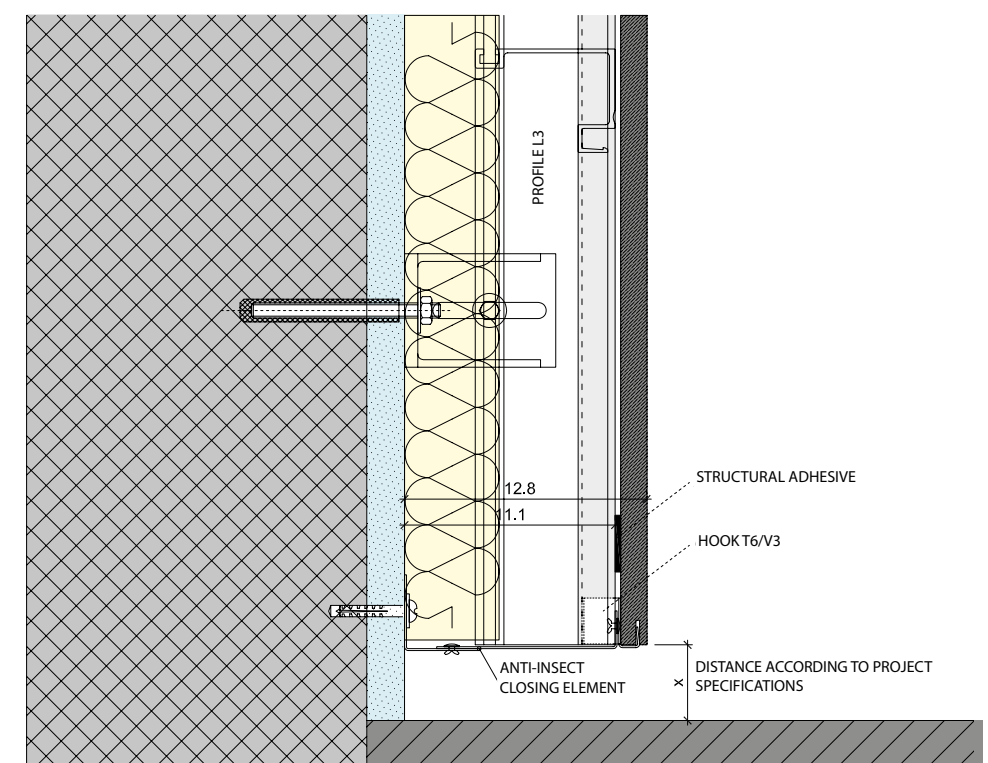
Panaria porcelain tile

Standard solution for mid-section Vertical section - Scale 1:4



Panaria porcelain tile

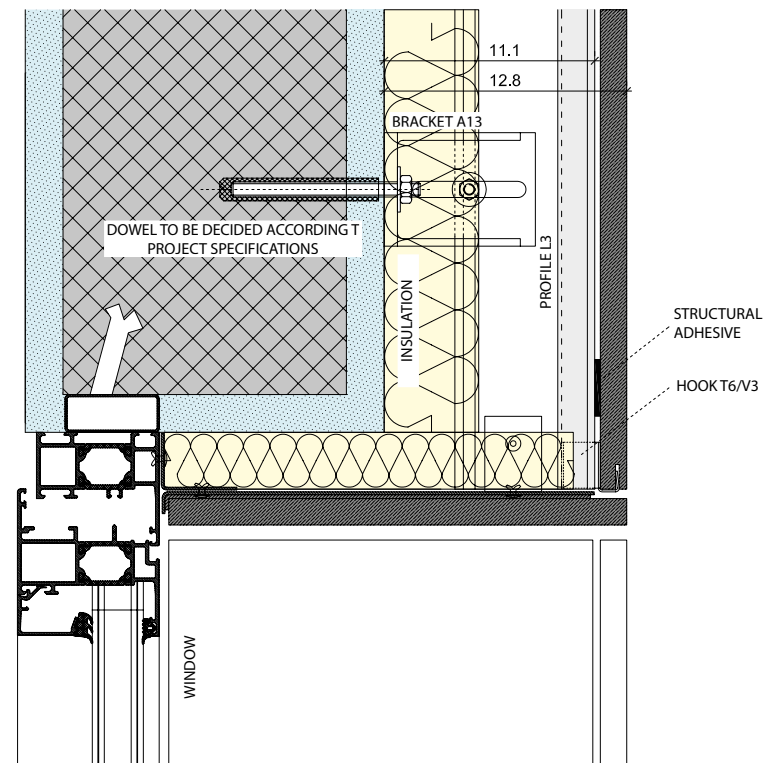
Standard solution for floor end Vertical section - Scale 1:4



LUNA SLOT SYSTEM PANARIA PORCELAIN STONEWARE

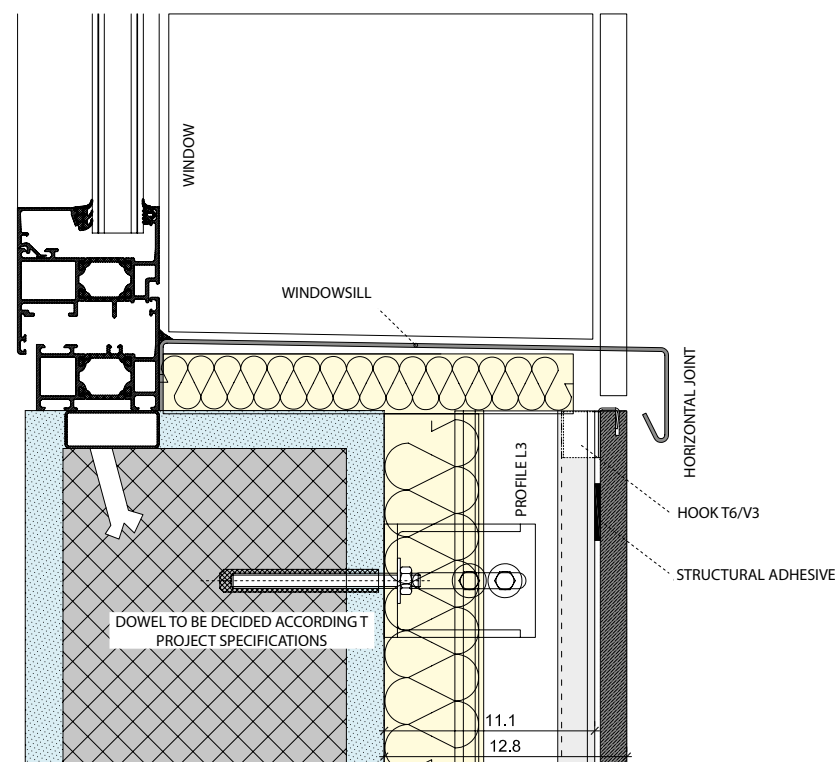
Panaria porcelain tile

Standard solution for window head
Horizontal section - Scale 1:4



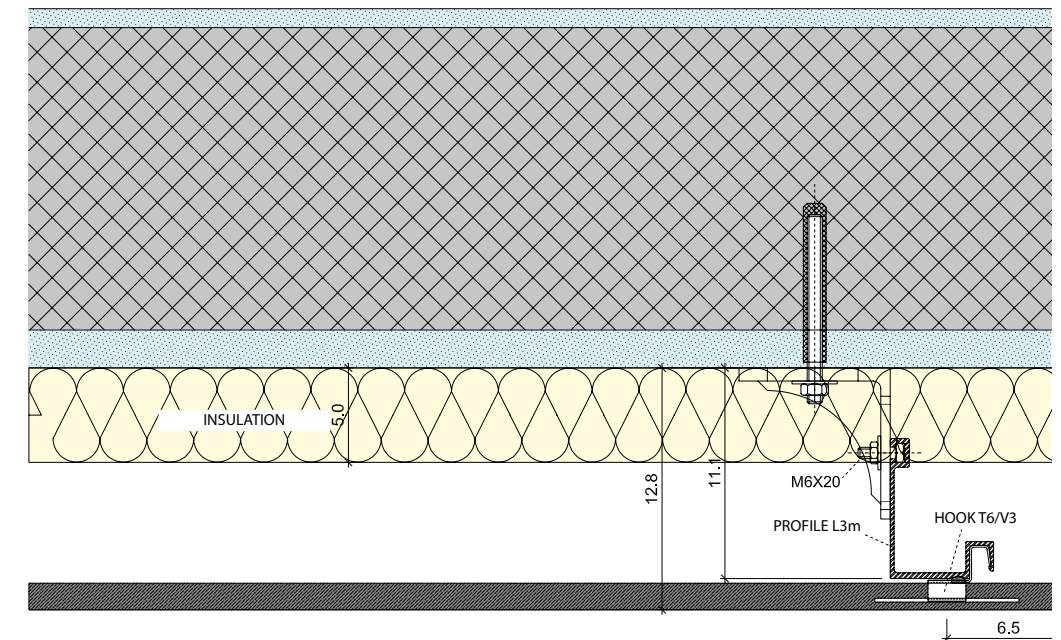
Panaria porcelain tile

Standard solution below windowsill
Vertical section - Scale 1:4



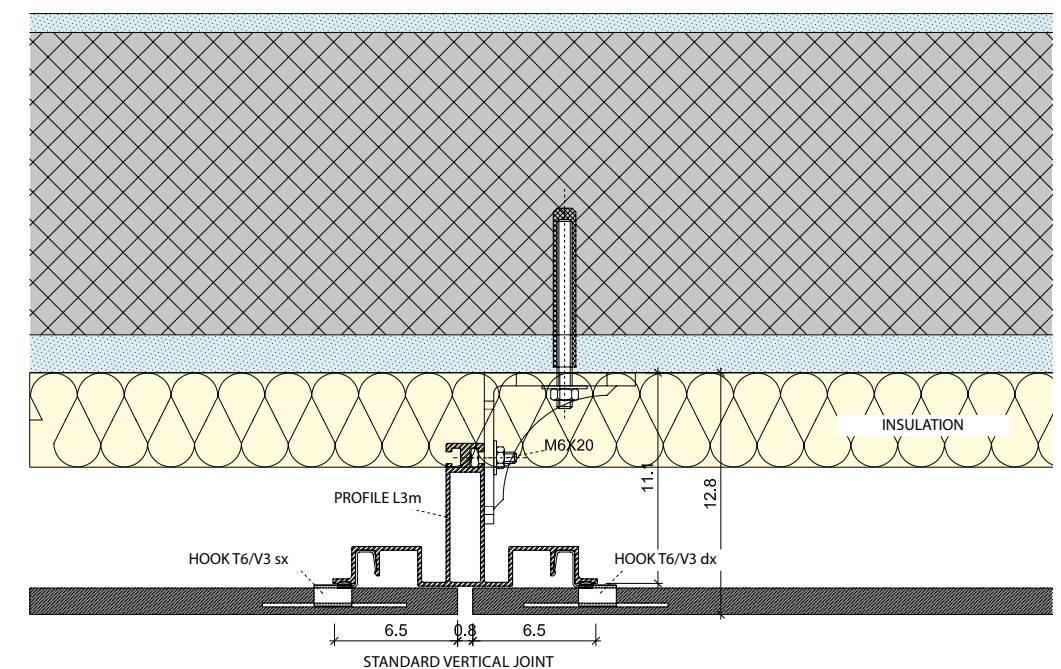
Panaria porcelain tile

Standard closing solution
Horizontal section - Scale 1:4



Panaria porcelain tile

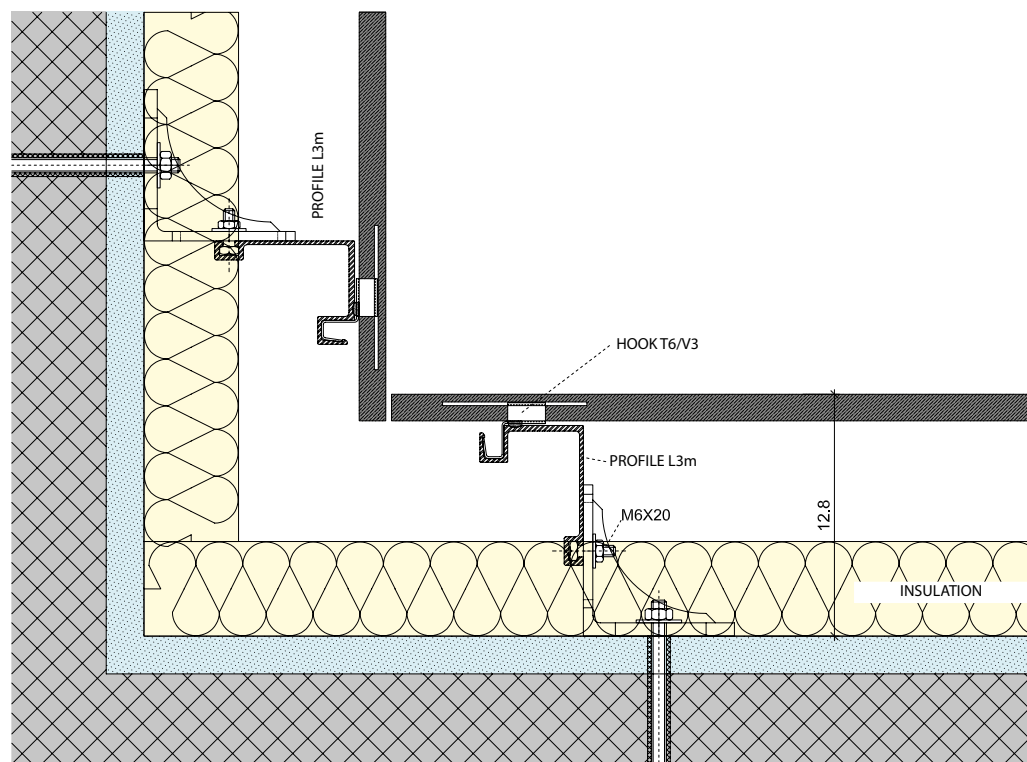
Standard solution for mid-section
Vertical section - Scale 1:4



LUNA SLOT SYSTEM PANARIA PORCELAIN STONEWARE

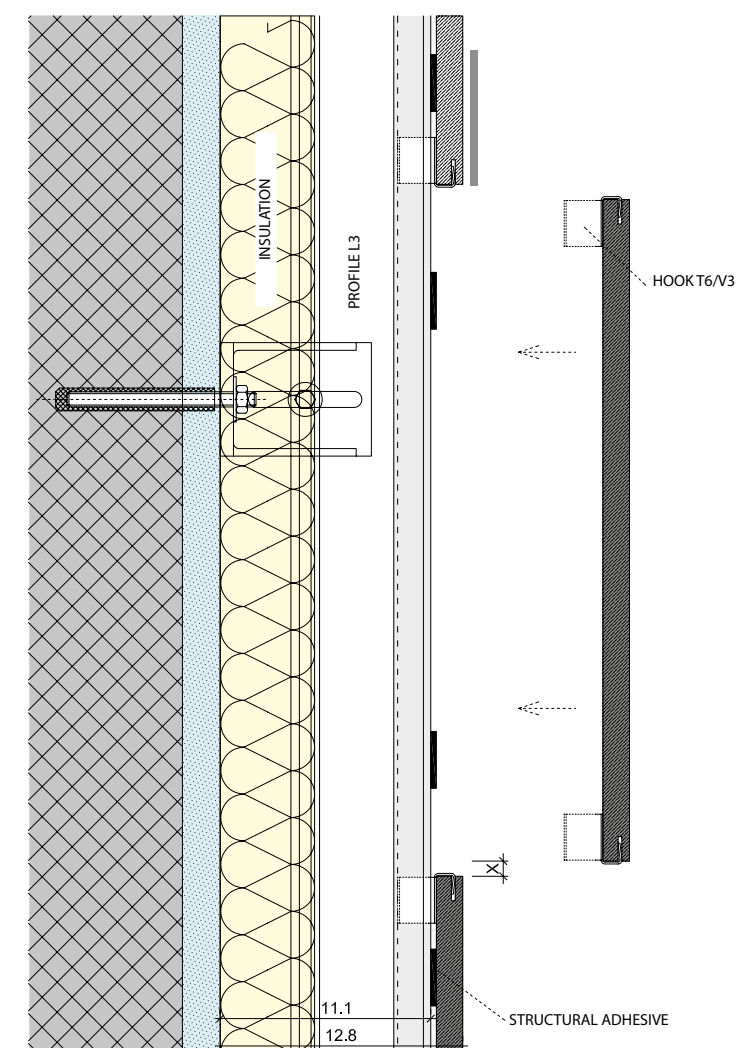
Panaria porcelain tile

Standard solution for internal angle
Horizontal section - Scale 1:4



Panaria porcelain tile

Tile mounting operation
Vertical section - Scale 1:4



LUNA SLOT SYSTEM ZERO.3

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES:

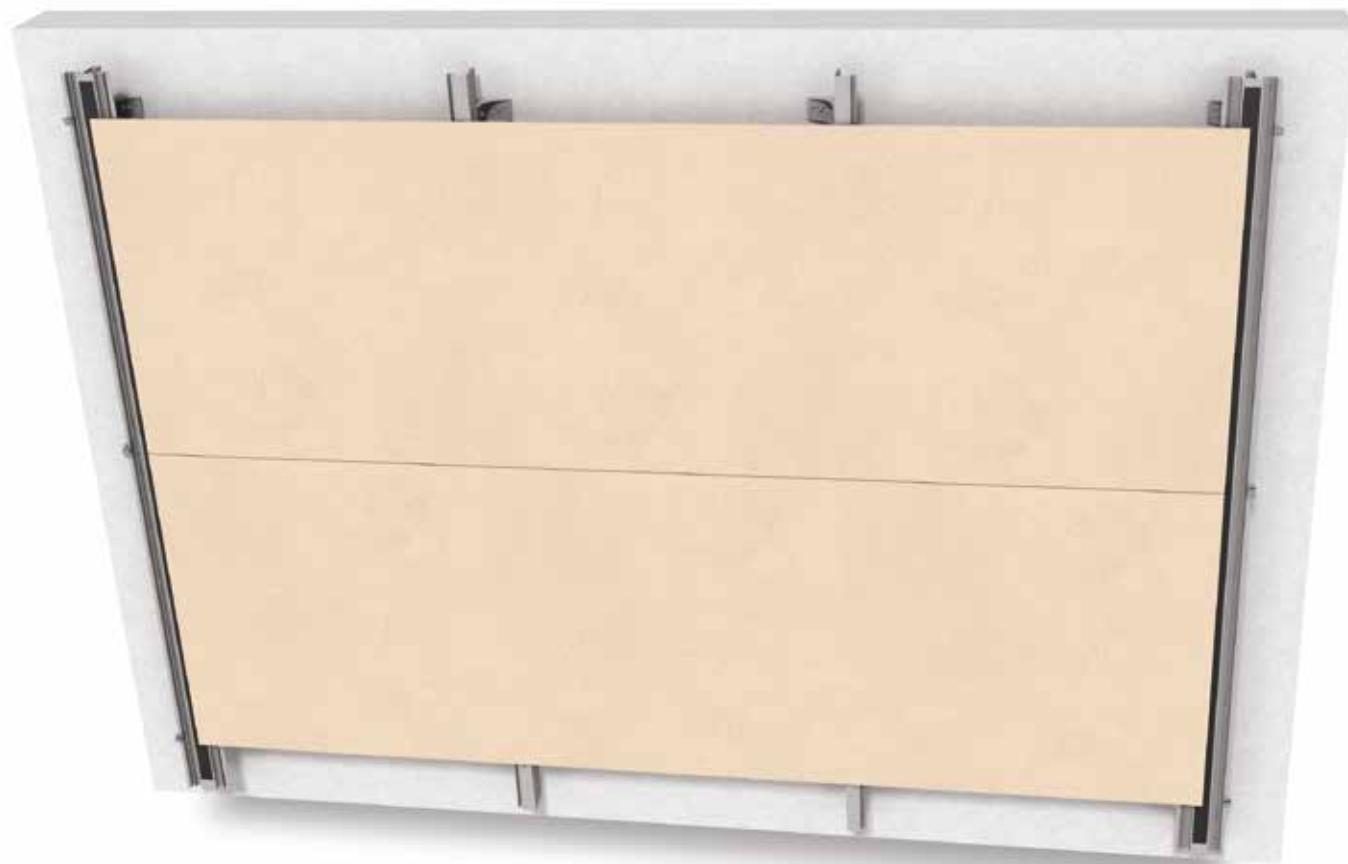
Ceramic tiles in double-layer laminated porcelain ZERO.3 with a thickness of approximately 8 mm (5mm + 3mm)

OPERATIONS CARRIED OUT ON THE TILE:

Slots on the horizontal edge

CLADDING TILE SIZES:

Maximum size 300x100 cm



SYSTEM COMPONENTS

The "Luna slot" system consists of the following elements:

- Extruded "L3" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Support hooks of the tiles "T6/V3 dx" and "T6/V3 sx" stainless steel EN 1.4310 (AISI 301);
- Standard support brackets "A13" and "B13" made from extruded aluminium EN 6060;
- Stainless steel screws, for fixing "L3" profile to the brackets;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Silicone drops bonding the tiles to hooks and profile.

SYSTEM DESCRIPTION

The system consists of a mounted aluminium vertical profile "L3" with a pitch equal to the width of the tile, plus the joint of the project.

The vertical profile "L31" is shaped to accommodate without drilling the following accessories:

- wall fixing brackets screwed with stainless steel bolts, according to project pitch;
- the hooks "T6/V3sx" and "T6/V3dx" to support the cladding tiles.

The cladding tiles are held in place by means of hooks which are inserted into the slots previously machined on the edge of the tiles and which fit into the grooves of the profiles "L3". Each tile can be assembled or disassembled independently by snapping the hooks "T6/V3" into the slots on the front of the profile "L3". The number of hooks depends on the size of the tile and the load on the wall.

Structural adhesive is also applied between the lateral edges of the profile and the back of the tile to improve the mechanical support of the system.

Once the tiles are correctly assembled, each tile can be set-up or dismantled separately on the aluminium structure by putting hooks in the appropriate channel on the rail. This arrangement of the components protects the solution from corrosion and assures a longer lifetime to the structure.

The supporting structure allows any type of adjustment; it is able to protect from wind loads and allows the thermal expansion of the different components.

SYSTEM SIZES:

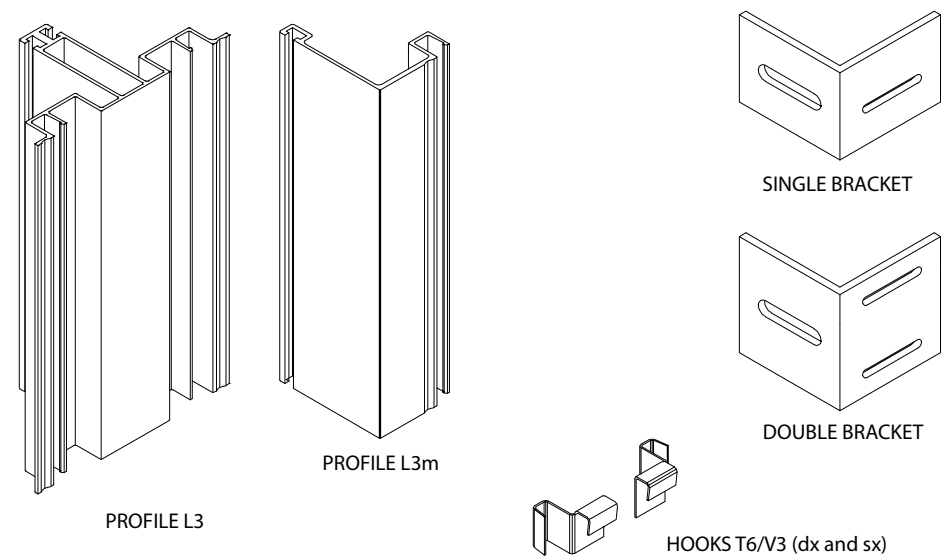
- The standard distance between the wall and the internal face of the tiles is 111 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of ZERO.3 laminated porcelain tiles for this type of system is 8 mm.



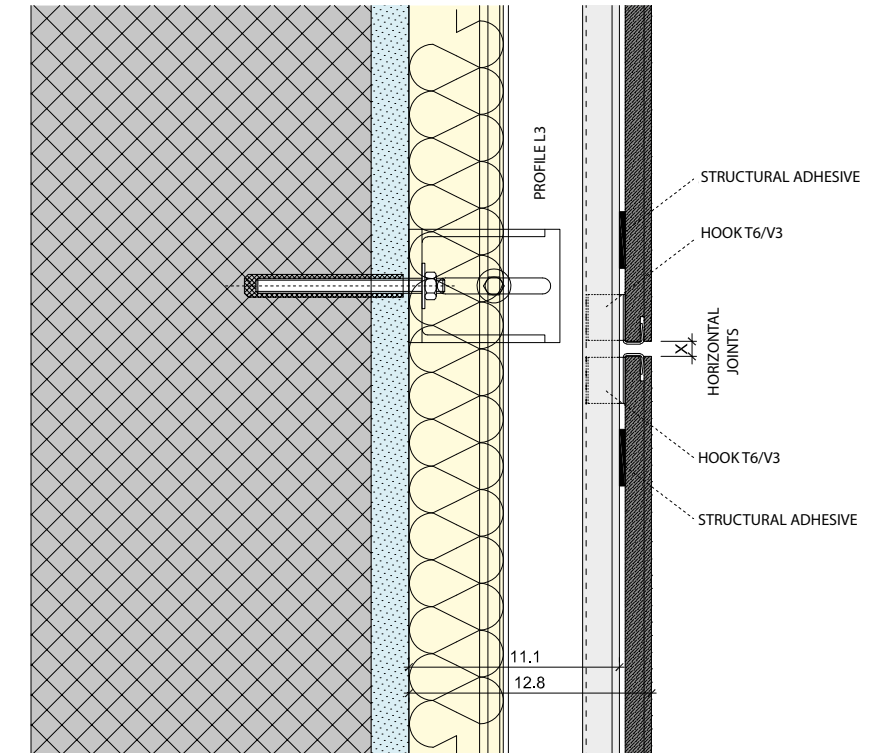
LUNA SLOT SYSTEM ZERO.3

ZERO.3

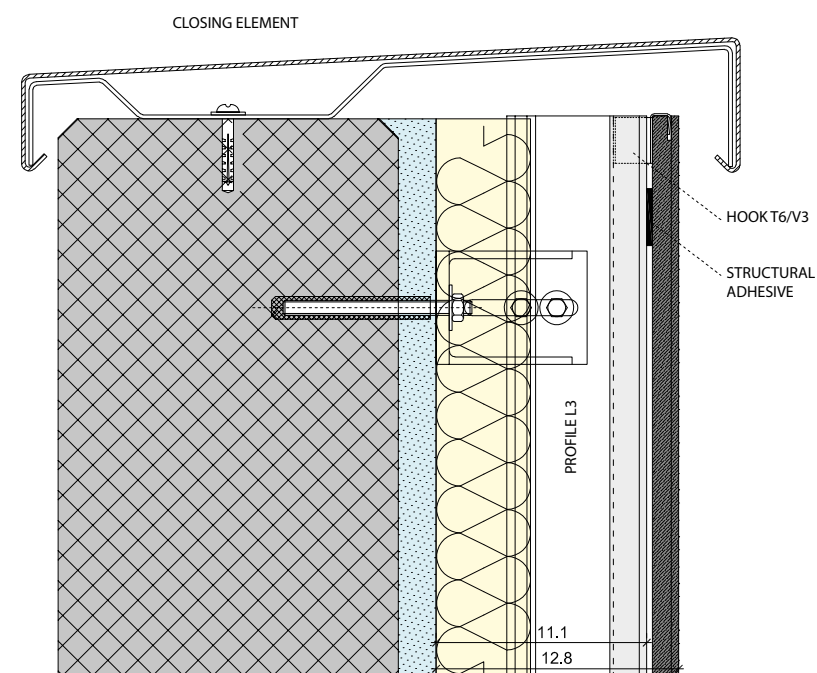
Components



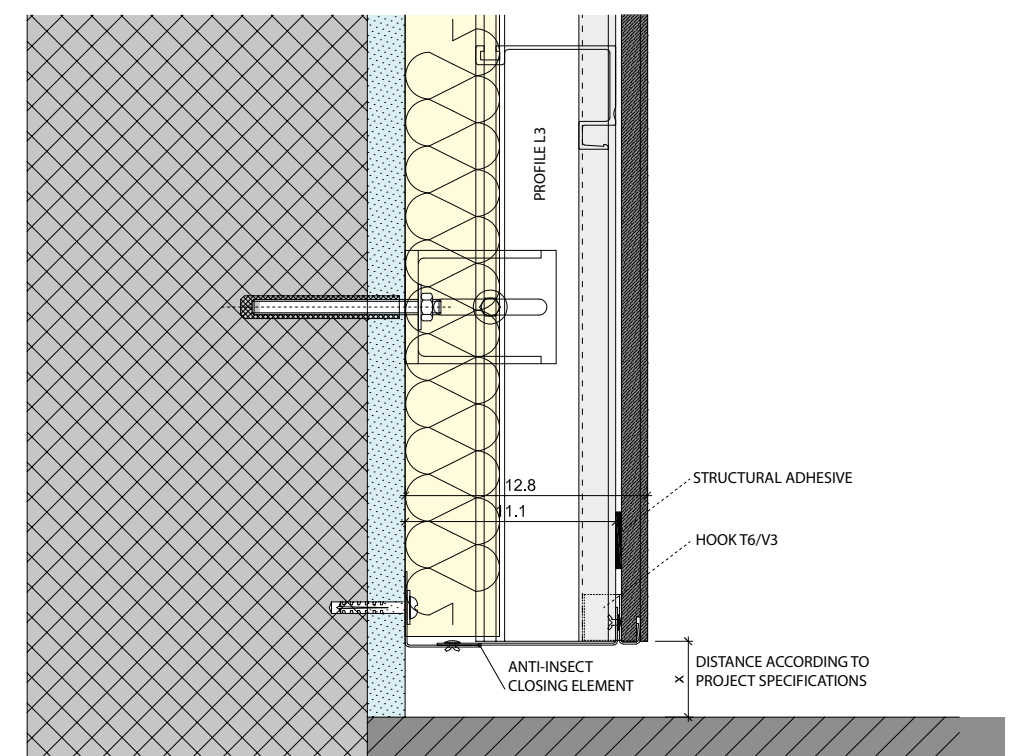
ZERO.3

Standard solution for mid-section
Vertical section - Scale 1:4

ZERO.3

Standard solution for roof finishing
Vertical section - Scale 1:4

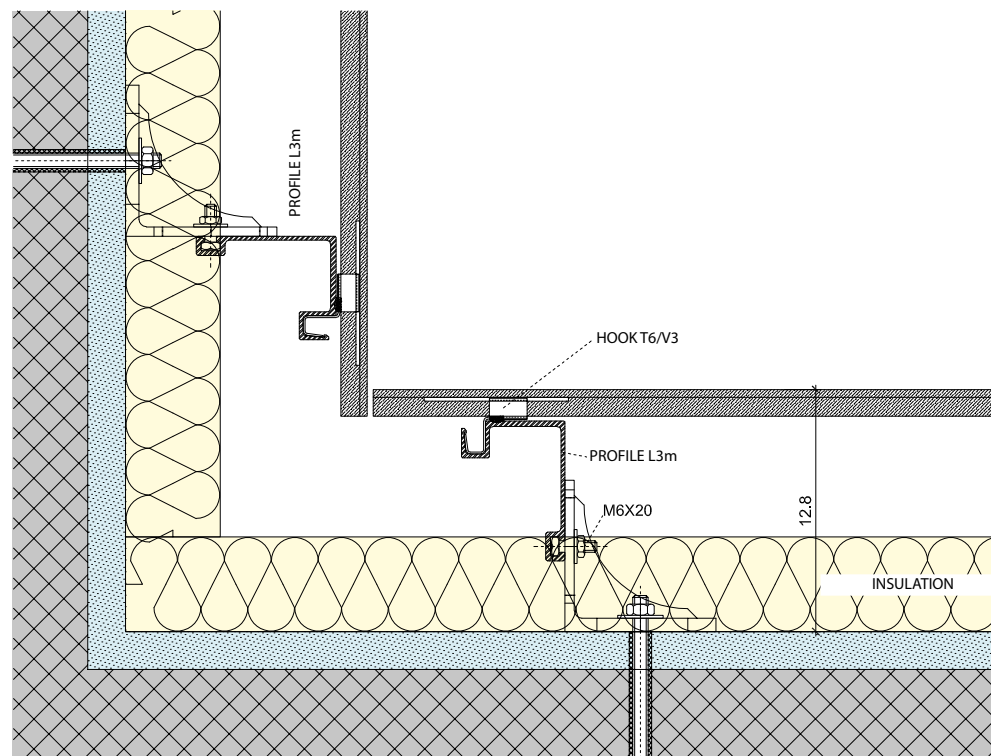
ZERO.3

Standard solution for floor end
Vertical section - Scale 1:4

LUNA SLOT SYSTEM ZERO.3

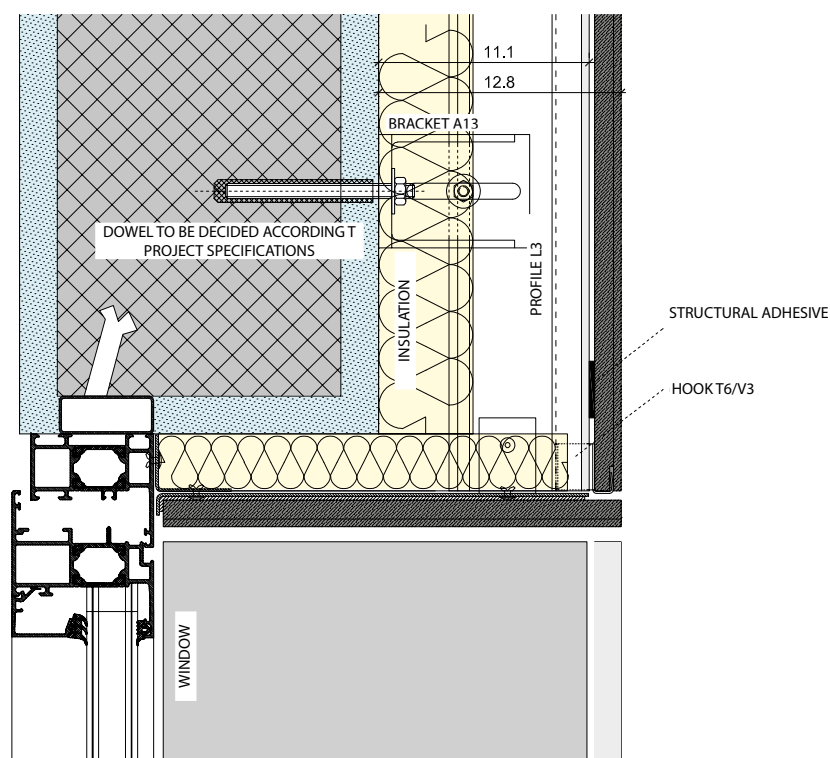
ZERO.3

Standard solution for internal angle
Horizontal section - Scale 1:4



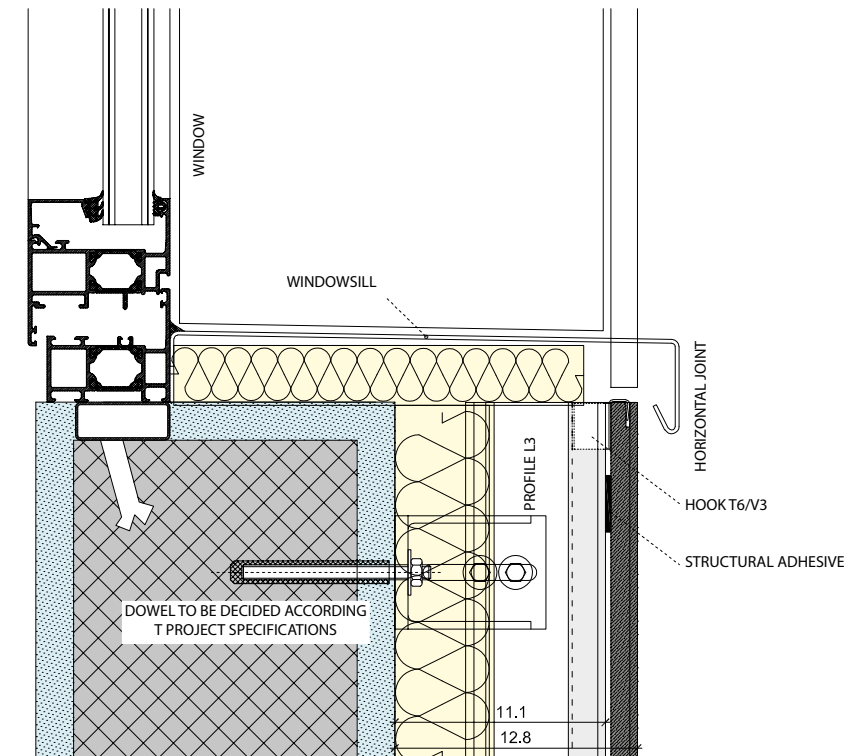
ZERO.3

Standard solution for window head
Vertical section - Scale 1:4



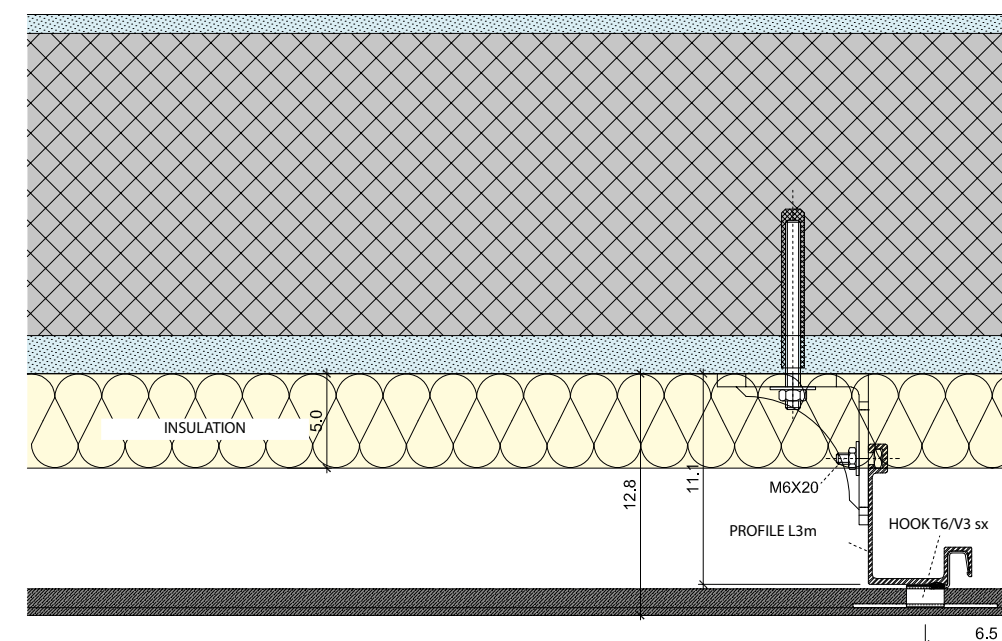
ZERO.3

Standard solution below windowsill
Vertical section - Scale 1:4



ZERO.3

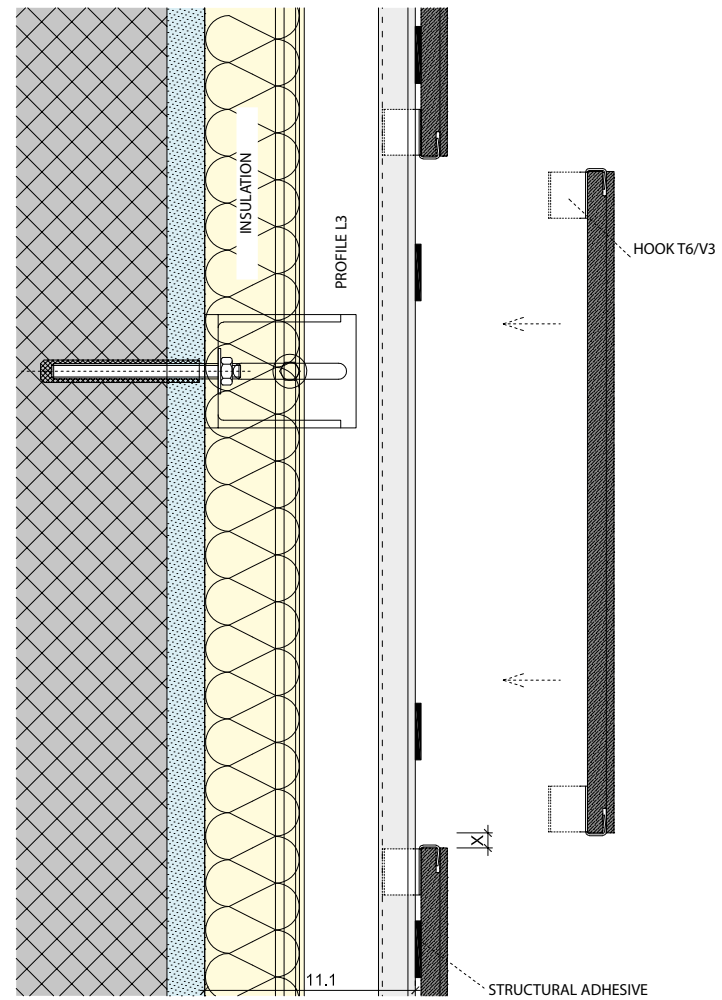
Standard closing solution
Horizontal section - Scale 1:4



LUNA SLOT SYSTEM ZERO.3

ZERO.3

Tile mounting operation
Vertical section - Scale 1:4



GEOS SYSTEM PANARIA PORCELAIN TILES

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES:

Ceramic tiles in Panaria porcelain stoneware with thickness from 9 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE:

Slots on the back of the tiles

CLADDING SLAB SIZES:

60x60 - 75x75 - 90x90 - 60x120



SYSTEM COMPONENTS

The "GEOS" system consists of the following elements:

- Aluminium profiles EN AW - 6060 manufactured by Geos Italy and pre-assembled on the cladding tiles;
- Bolts in galvanized steel
- Mounting bracket for wall fixing GEOS ITALY

SYSTEM DESCRIPTION

The new wall cladding concept by GEOS ITALY consists of an aluminium EN AW- 6060 substructure, formed by aluminium profiles that are processed and pre-assembled on the tile according to the orthogonal lines of project.

This substructure is equipped with special interconnecting elements which are protected by an international patent duly granted to GEOS ITALY, which oversees their commercial use.

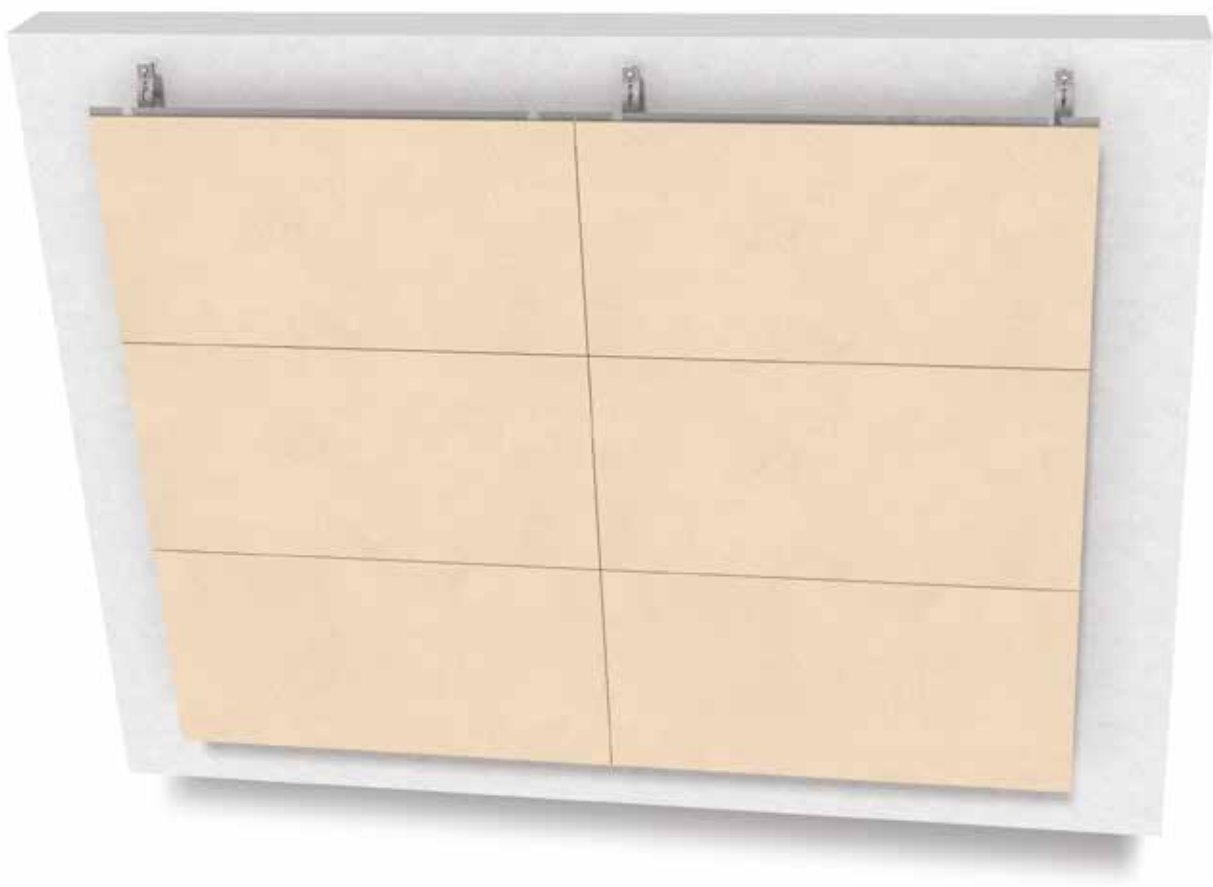
These elements greatly facilitate the installation of the tiles and allow for adjustments when the on-site dimensions are different from those on the architectural plan. The substructure profiles possess special guides that fit the anchoring system (bracket and hook) precisely onto the wall (brick, concrete or structural load bearing element). The bracket and hook allow each element to be precisely secured and fixed (230 kg normal traction resistance at the surface of the cladding. This resistance corresponds to the stress along the elements due to wind loads).

Perfect alignment and planarity between each tile can be obtained through micrometric adjustments on the four main axes, regardless of any unevenness of the support (whether wall or structure). The installation of the GEOS ITALY ventilated wall does not require any preparation of the support on which it will be fixed.

Since each pre-assembled substructure and tile overlaps and connects the element before it, the GEOS ITALY ventilated wall is closed-jointed and can therefore be supported by a reduced air circulation chamber.

SYSTEM SIZES:

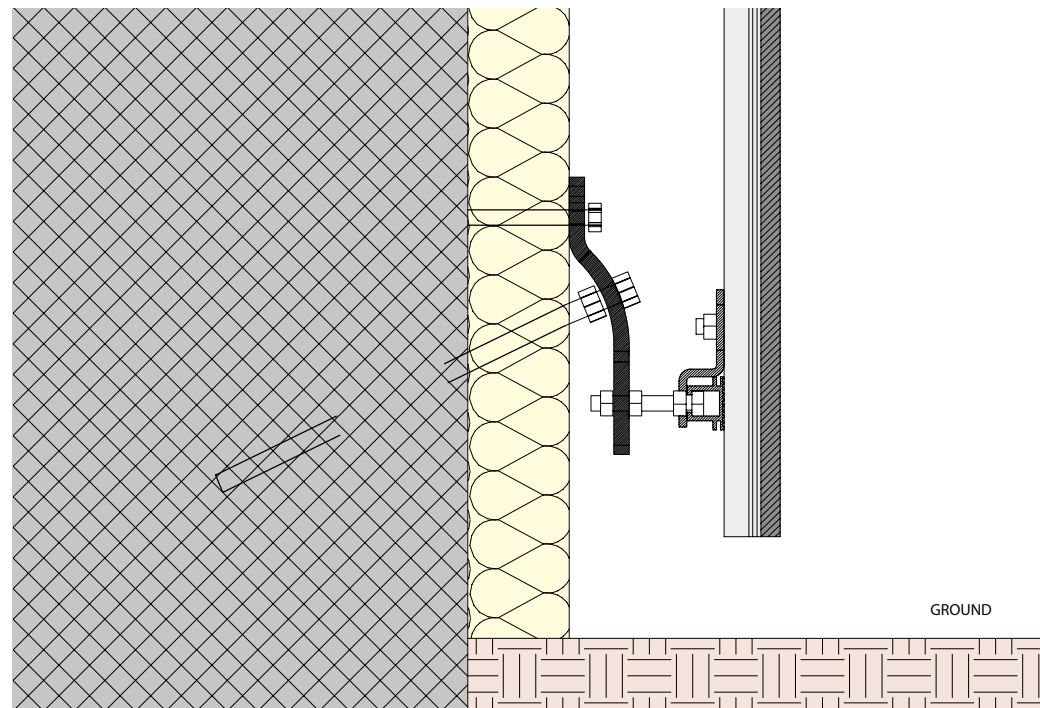
- The standard thickness porcelain tiles for this type of system is between 9 and 20mm.



GEOS SYSTEM PANARIA PORCELAIN TILES

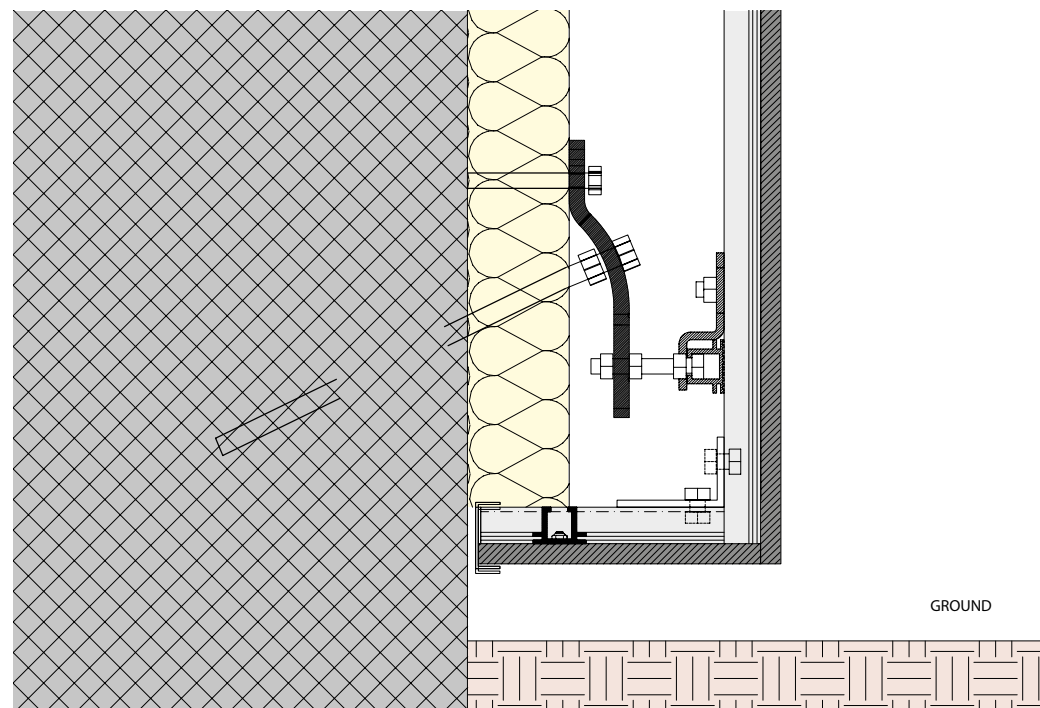
Panaria porcelain tile

Standard solution for floor end
Vertical section - Scale 1:4



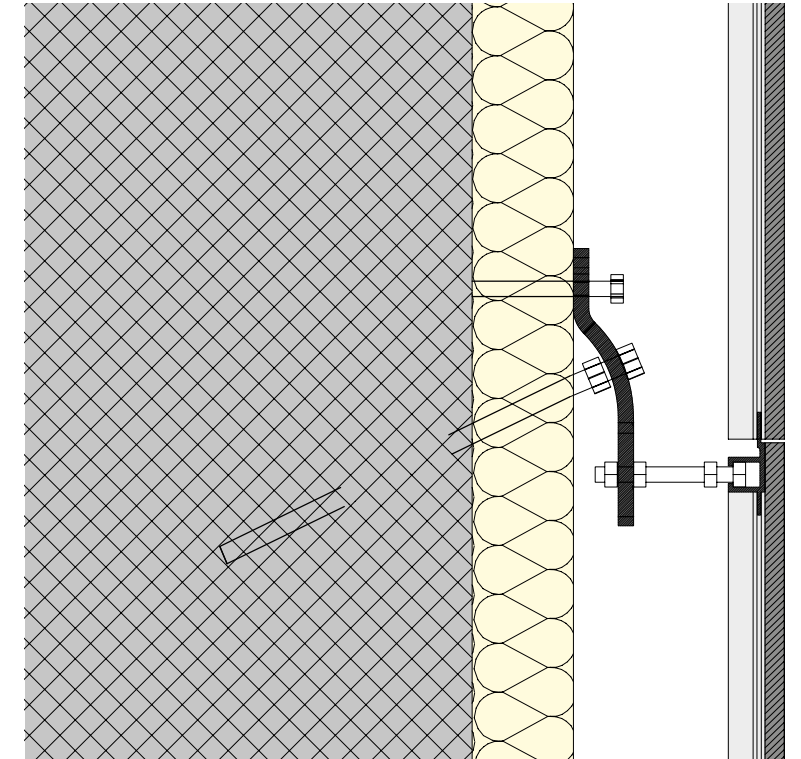
Panaria porcelain tile

Standard solution for floor end
Vertical section - Scale 1:4



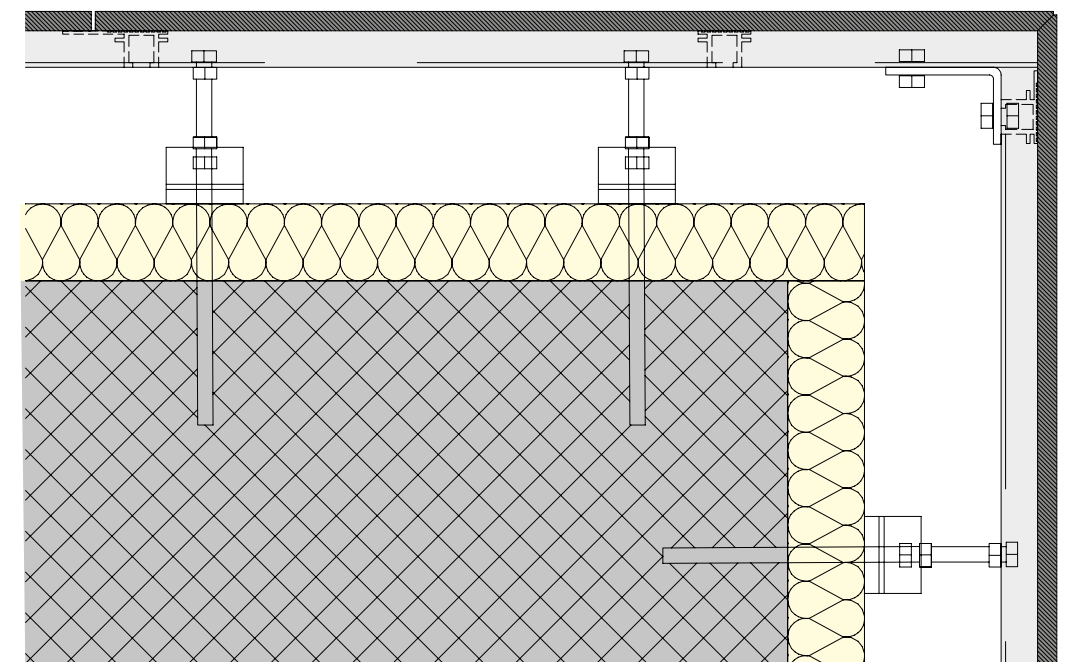
Panaria porcelain tile

Standard solution for mid-section
Vertical section - Scale 1:4



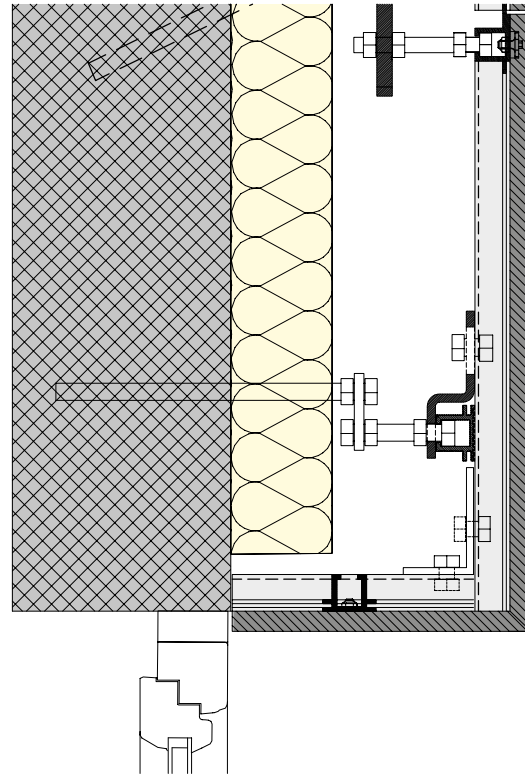
Panaria porcelain tile

Standard solution for external angle
Horizontal section - Scale 1:4

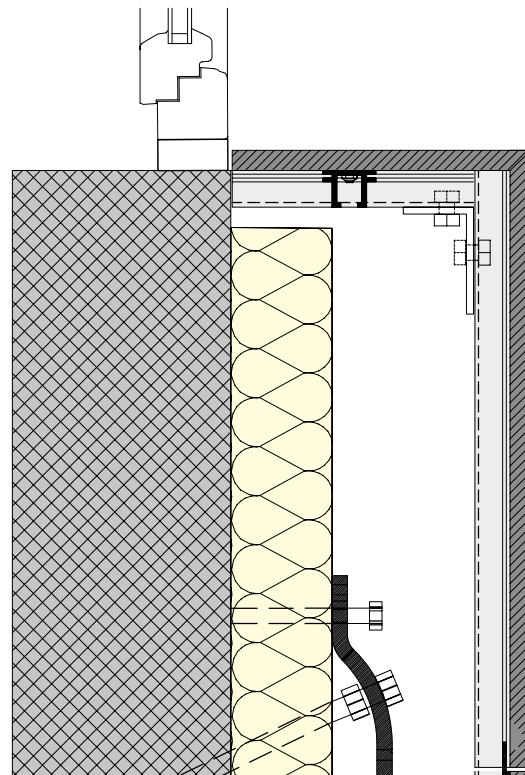


GEOS SYSTEM PANARIA PORCELAIN TILES**Panaria porcelain tile**

Standard solution for window head
Vertical section - Scale 1:4

**Panaria porcelain tile**

Standard solution for windowsills
Vertical section - Scale 1:4



GEOS SYSTEM ZERO.3

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES:

ZERO.3 5PLUS ceramic tiles in laminated porcelain.

OPERATIONS CARRIED OUT ON THE TILE:

Slots on the back of the tiles

CLADDING TILE SIZES:

Maximum size 300x100 cm



SYSTEM COMPONENTS

The "GEOS" system consists of the following elements:

- Aluminium profiles EN AW - 6060 manufactured by Geos Italy and pre-assembled on the cladding tiles;
- Bolts in galvanized steel
- Mounting bracket for wall fixing GEOS ITALY

SYSTEM DESCRIPTION

The new wall cladding concept by GEOS ITALY consists of an aluminium EN AW- 6060 substructure, formed by aluminium profiles that are processed and pre-assembled on the tile according to orthogonal lines of the project.

This substructure is equipped with special interconnecting elements which are protected by an international patent duly granted to GEOS ITALY, which oversees their commercial use.

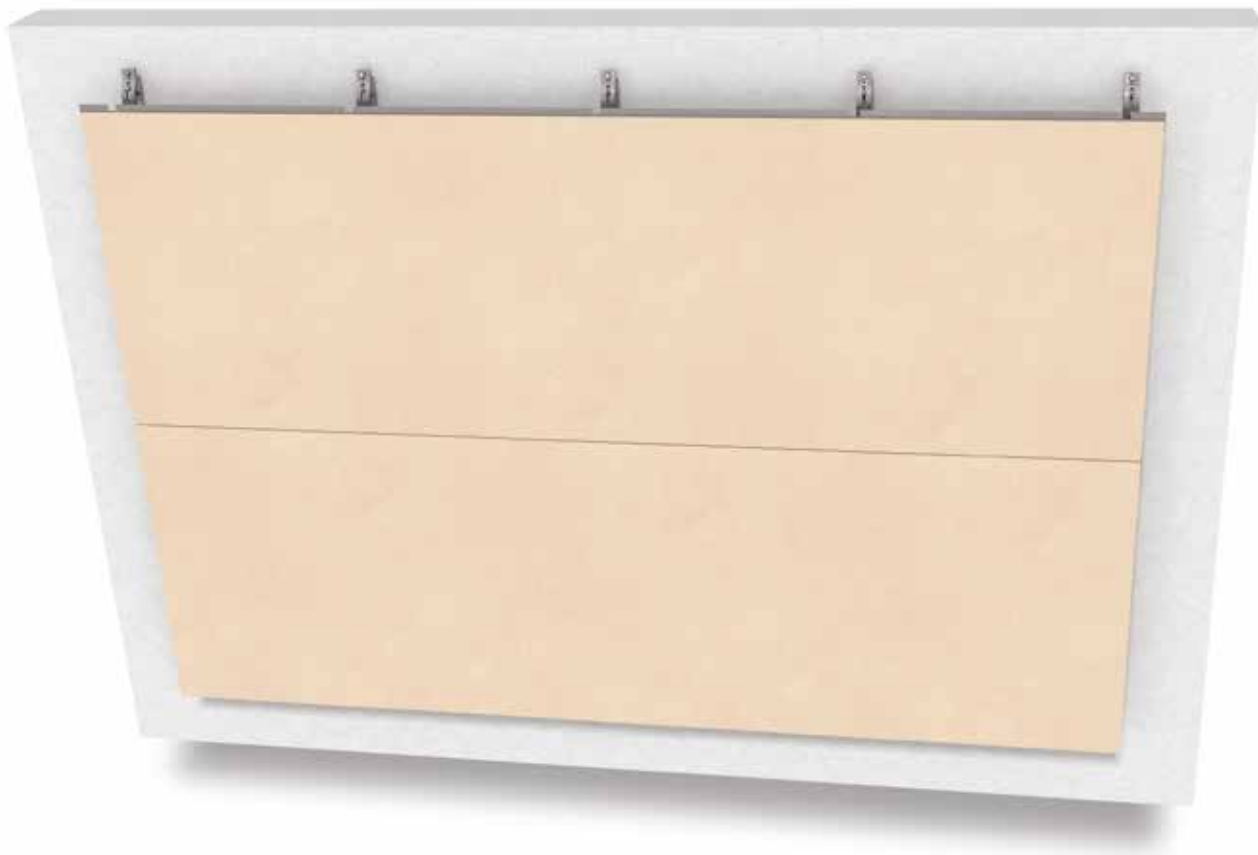
These elements greatly facilitate the installation of the tiles and allow for adjustments when the on-site dimensions are different from those on the architectural plan. The substructure profiles possess special guides that fit the anchoring system (bracket and hook) precisely onto the wall (brick, concrete or structural load bearing element). The bracket and hook allow each element to be precisely secured and fixed (230 kg normal traction resistance at the surface of the cladding. This resistance corresponds to the stress along the elements due to wind loads).

Perfect alignment and planarity between each tile can be obtained through micrometric adjustments on the four main axes, regardless of any unevenness of the support (whether wall or structure). The installation of the GEOS ITALY ventilated wall does not require any preparation of the support on which it will be fixed.

Since each pre-assembled substructure and tile overlaps and connects the element before it, the GEOS ITALY ventilated wall is closed-jointed and can therefore be supported by a reduced air circulation chamber.

SYSTEM SIZES:

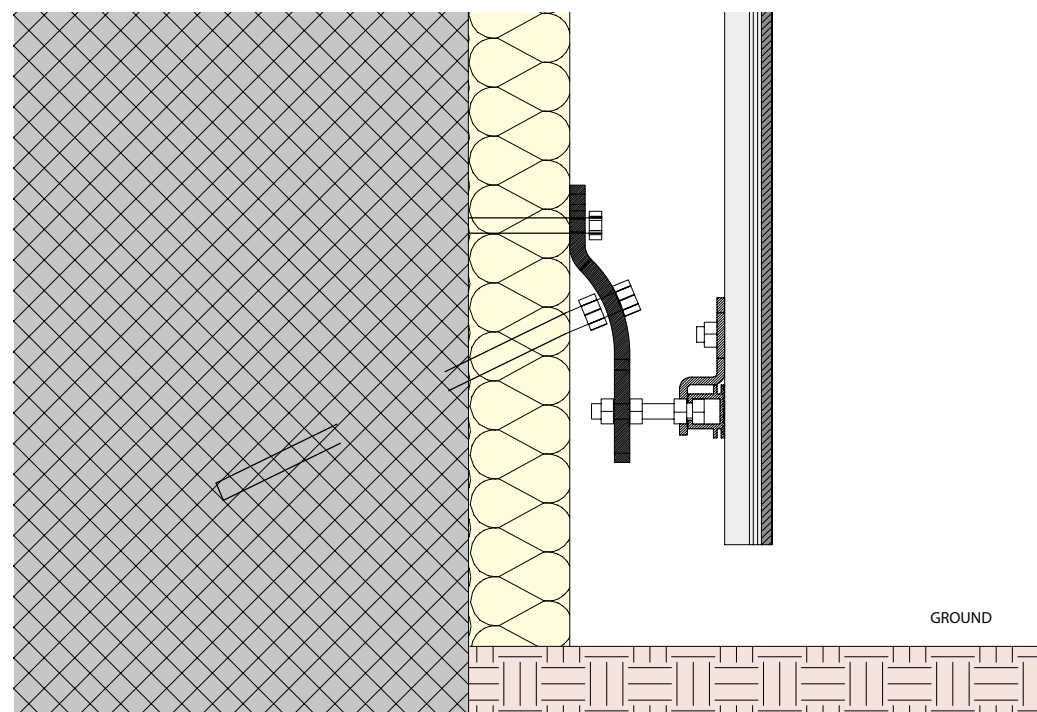
- The standard thickness of ZERO.3 laminated porcelain tiles for this type of system is 5.5 mm.



GEOS SYSTEM ZERO.3

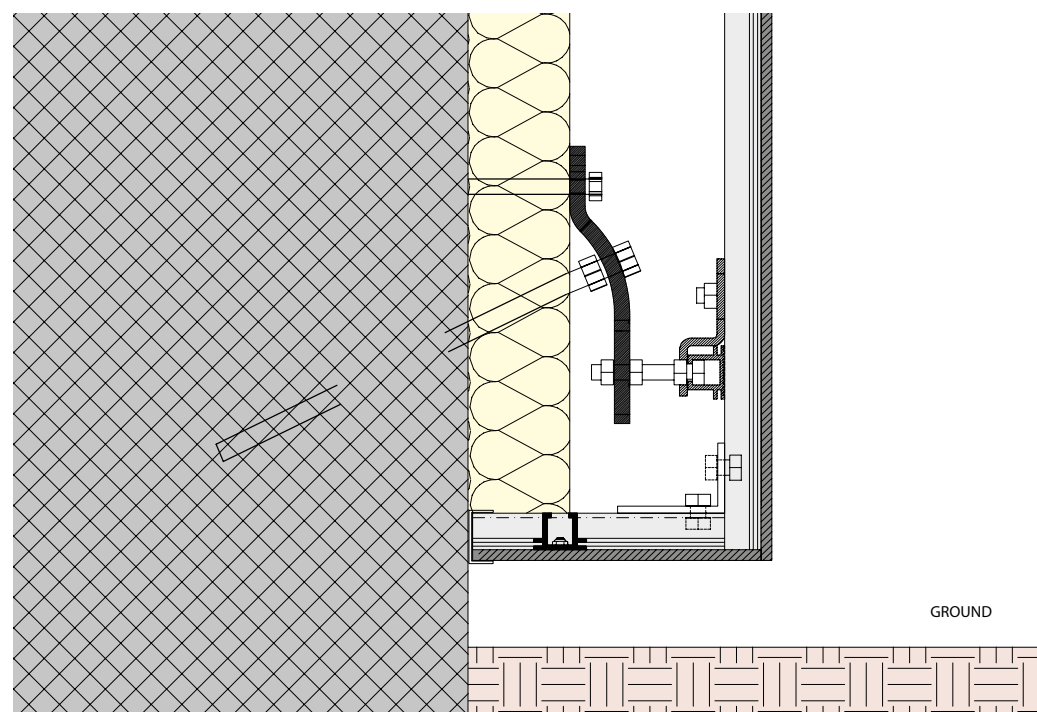
ZERO.3

Standard solution for floor end
Vertical section - Scale 1:4



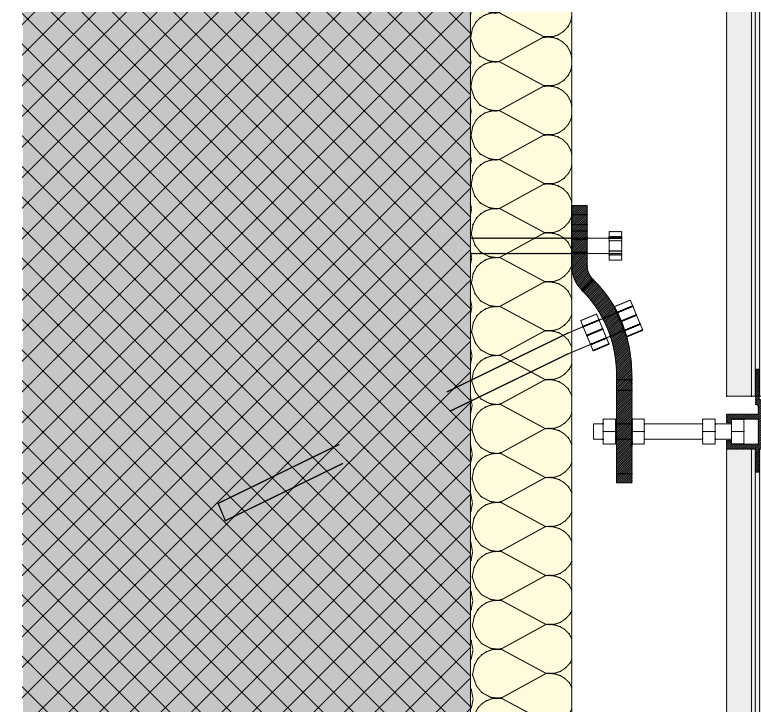
ZERO.3

Standard solution for floor end
Vertical section - Scale 1:4



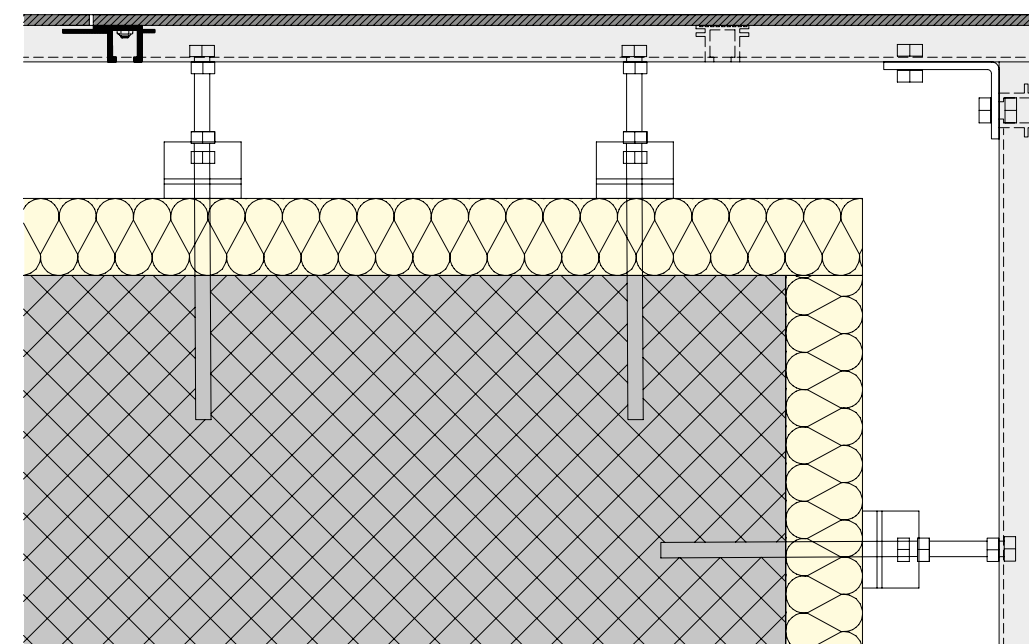
ZERO.3

Standard solution for mid-section
Vertical section - Scale 1:4



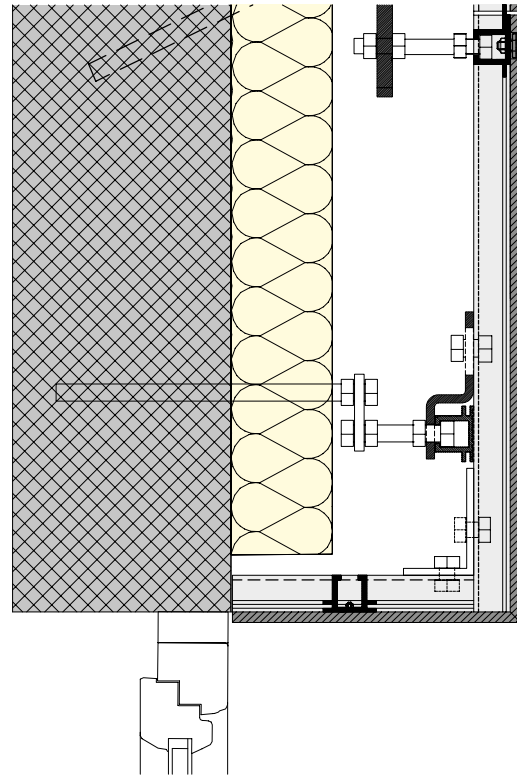
ZERO.3

Standard solution for external angle
Horizontal section - Scale 1:4

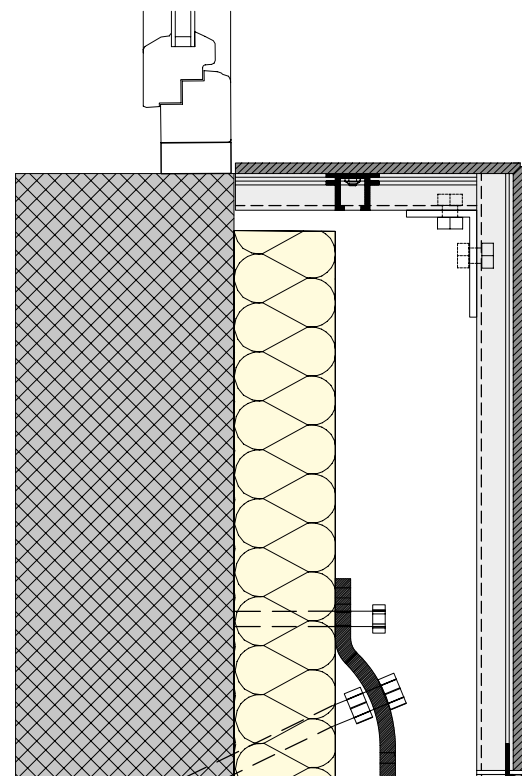


GEOS SYSTEM ZERO.3**ZERO.3**

Standard solution for window head
Vertical section - Scale 1:4

**ZERO.3**

Standard solution for windowsills
Vertical section - Scale 1:4



ADERMA SYSTEM PANARIA PORCELAIN STONEWARE

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES:

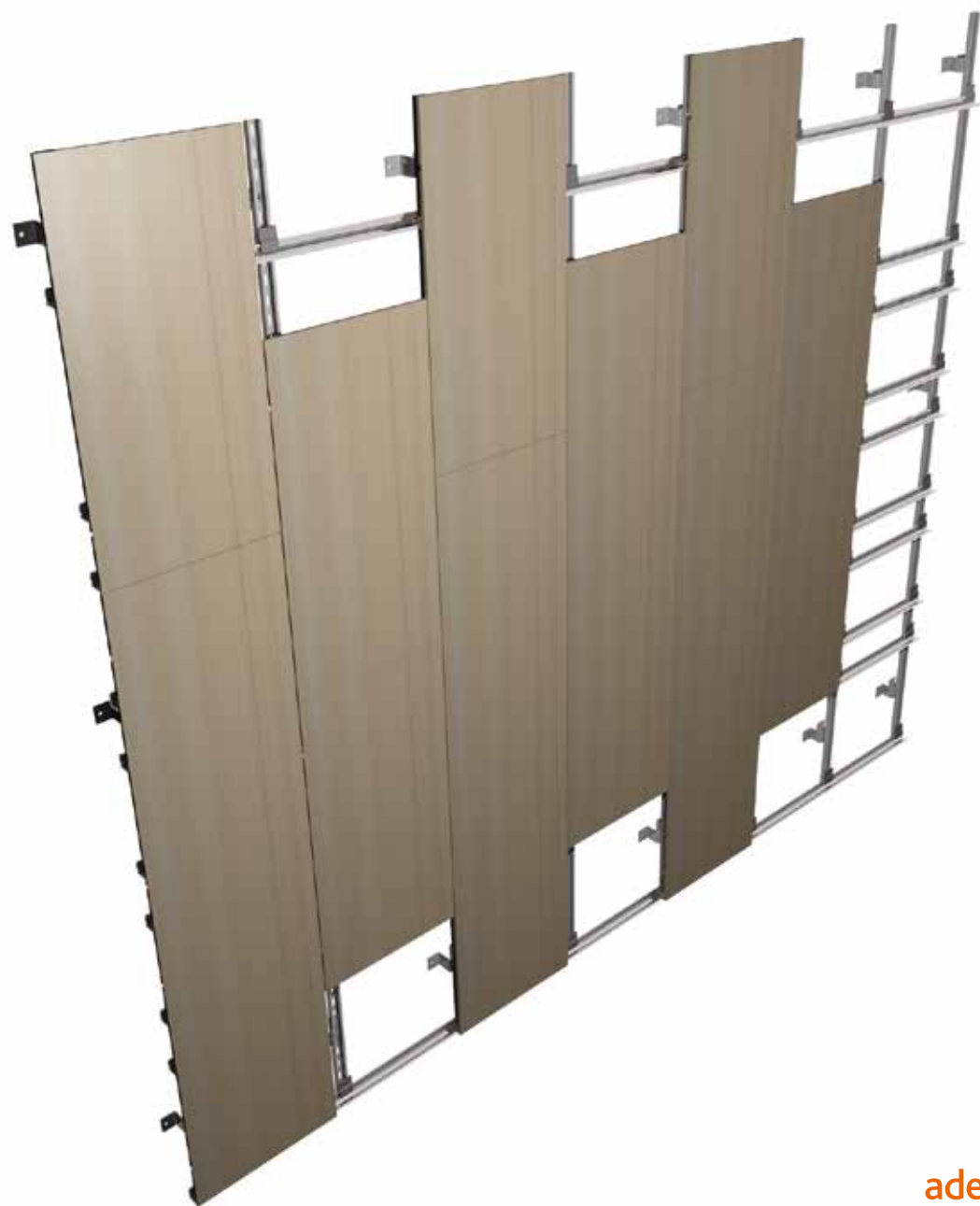
Ceramic tiles in Panaria porcelain stoneware with thickness from 11 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE:

Slots on the horizontal edge

CLADDING SLAB SIZES:

60x60 - 75x75 - 90x90 - 60x120



SYSTEM DESCRIPTION

The system consists of vertical profiles "type K" in stainless steel or galvanized steel positioned at a predetermined distance and fixed to the reinforced concrete beams edge through special spacer brackets "omega" (stainless steel or galvanized steel). Their function is to support the weight of the cladding tiles. These are fixed to the wall through mechanical wind load resistant anchoring dowels.

The horizontal profile Type "S series" in aluminium 6060 is fixed by screws and spacers that facilitate adjustment and connection to the vertical profiles. These horizontal profiles support the tile and protect against wind load with special hooks "omega fix" in stainless steel AISI 304 that are inserted in the slots on the edge of the tiles.

The anchoring system allows any kind of adjustment. It is designed to protect from wind loads and to allow the thermal expansion of the different components

The anchoring system allows any adjustment of the alignment of $\pm 20\text{mm}$, (bigger adjustments are obtained by special spacers) and allows, with some elementary precautions, the dismantling of each tile for maintenance and wall inspection.

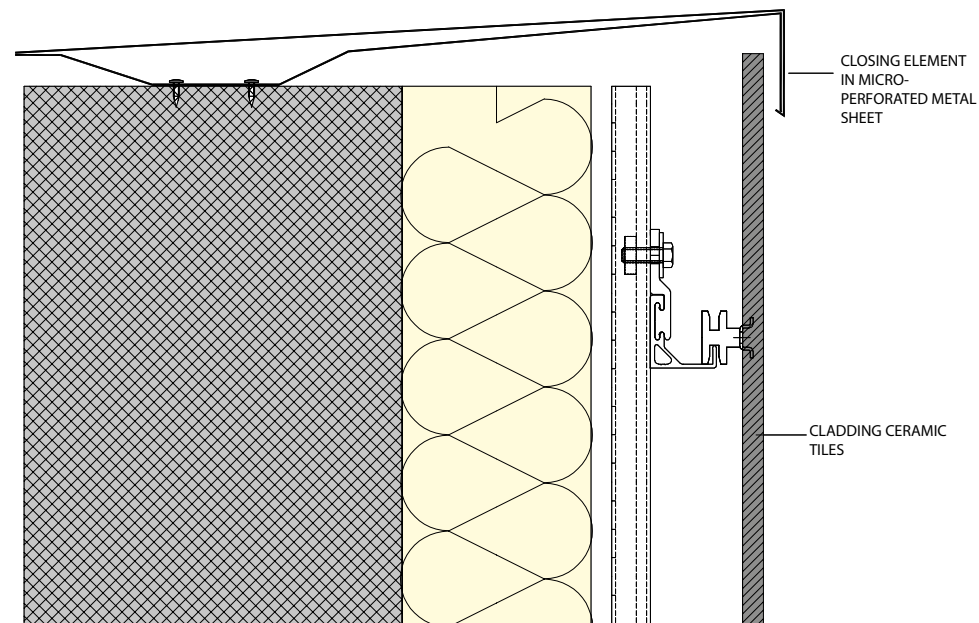
The anchoring system is CE certified to UNI 1090 standards.



ADERMA OVERLAPPING SYSTEM PANARIA PORCELAIN STONEWARE

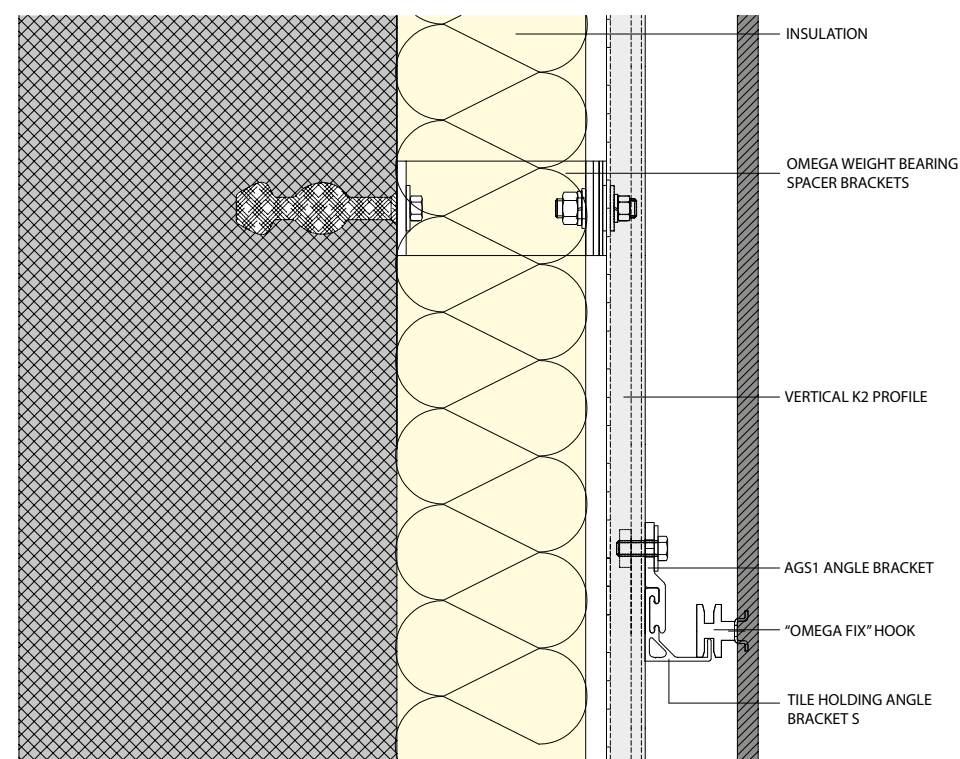
Panaria porcelain tile

Standard solution for roof finishing
Vertical section - Scale 1:4



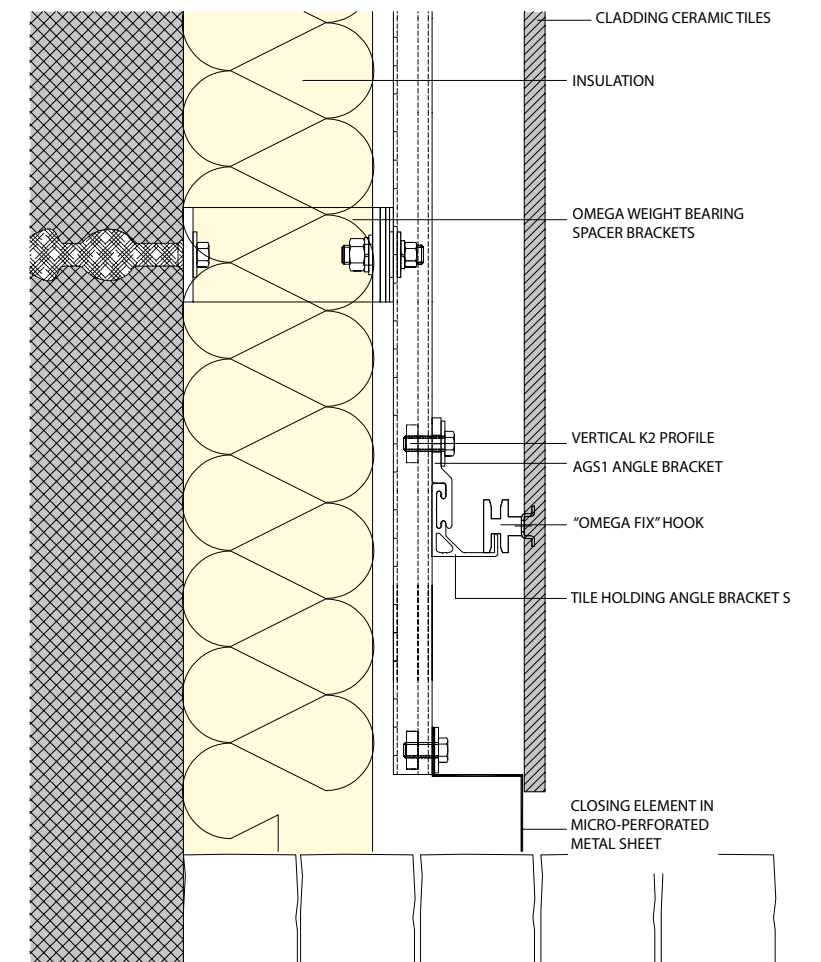
Panaria porcelain tile

Standard solution for mid-section
Vertical section - Scale 1:4



Panaria porcelain tile

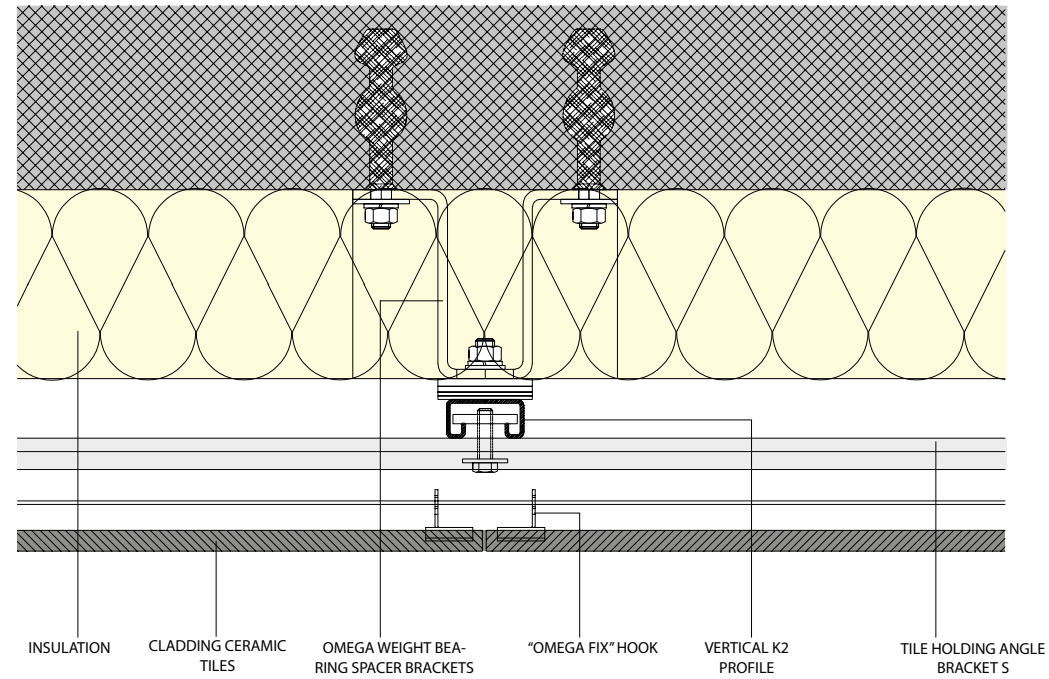
Standard solution for floor end
Vertical section - Scale 1:4



ADERMA OVERLAPPING SYSTEM PANARIA PORCELAIN STONEWARE

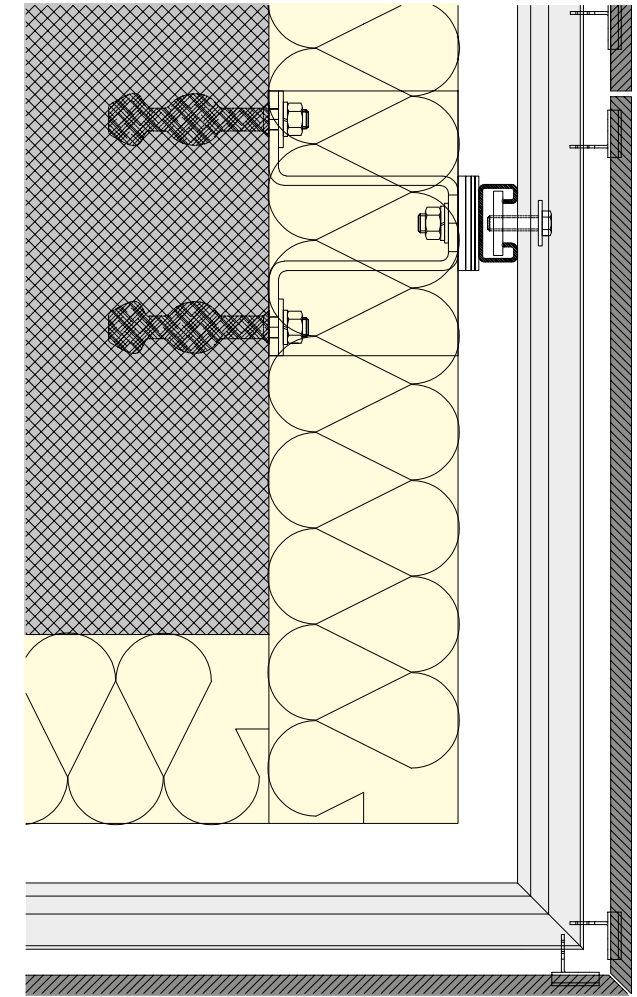
Panaria porcelain tile

Standard solution for mid-section
Horizontal section - Scale 1:4



Panaria porcelain tile

Standard solution for external angle
Horizontal section - Scale 1:4



PROGEST SYSTEM PANARIA PORCELAIN TILES

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES:

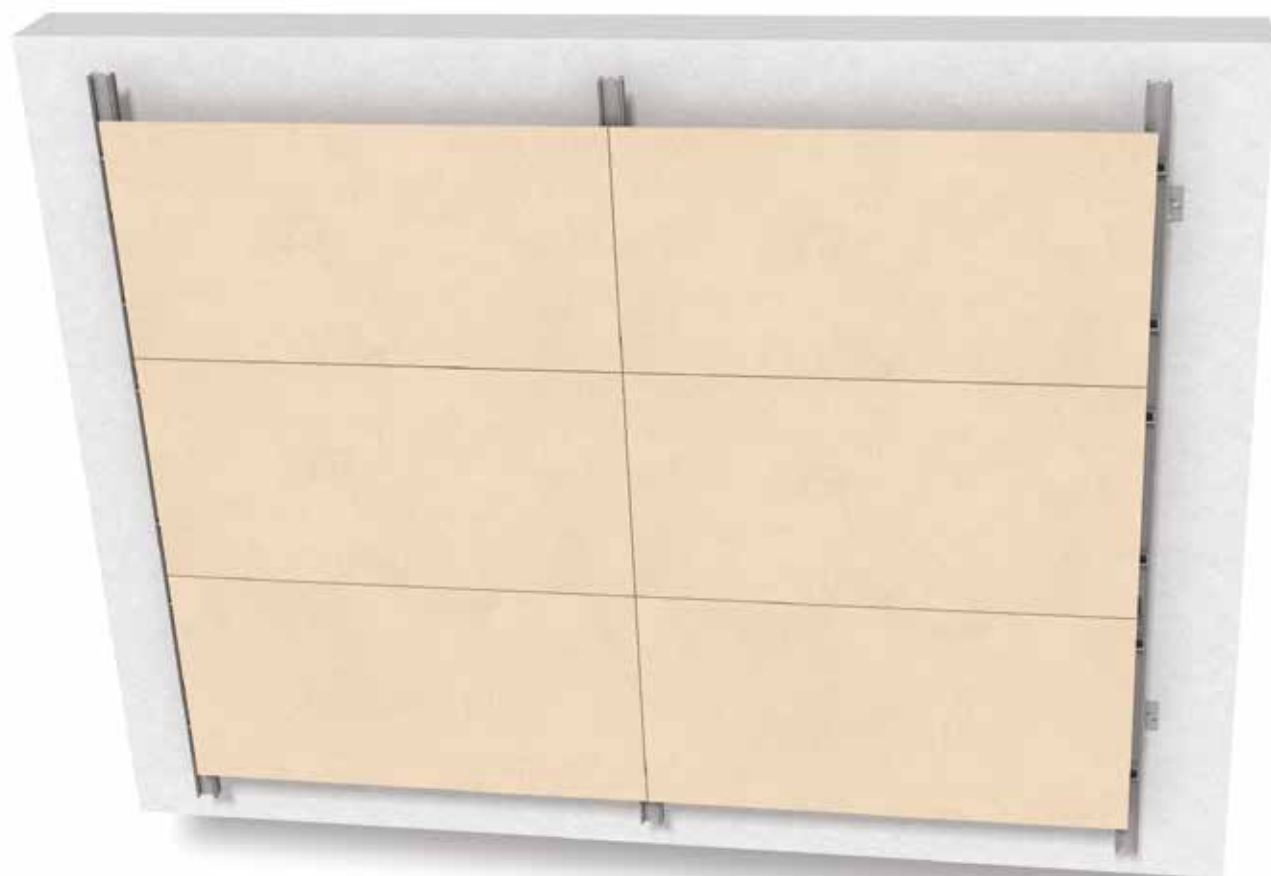
Ceramic tiles in Panaria porcelain stoneware with thickness from 9 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE:

Metal profiles are inserted on the back of the tile by the means of structural adhesion

CLADDING SLAB SIZES:

60x60 - 75x75 - 90x90 - 60x120



SYSTEM COMPONENTS

The "PROGEST" system consists of vertical elements in extruded aluminium profile (6060 alloy UNI 9006/1) installed on site with a predetermined spacing, according to architectural requirements architectural requirements and the static calculations. All weight bearing components of the structure are in accordance with the UNI 11018.

SYSTEM DESCRIPTION

The PROGEST system is designed to create a building envelope with a substructure consisting of extruded aluminium sections and external ceramic cladding.

The versions available can satisfy multiple requirements, both from a static and an architectural point of view. It is also very interesting to note that it is possible to use this system on existing buildings to improve their energy efficiency.

The vertical elements are anchored to the substructure with adjustable brackets that allow for thermal expansion and contraction. To fix the brackets to the existing walls, following pull-out tests, high resistance mechanical and chemical fixing are used.

The anchoring of the cladding tiles to the load-bearing structure is done with "L" shaped profiles placed on the back of the tiles themselves, with certified structural bonding. The "L" shaped profiles have special slots that are hooked to the adjustable supporting element placed on the vertical profiles.

The tiles, once installed, will be supported by two elements that will be placed on the vertical profiles so that the sealants are not subject to tear, thus maintaining their elastic and mechanical characteristics.

SYSTEM SIZES:

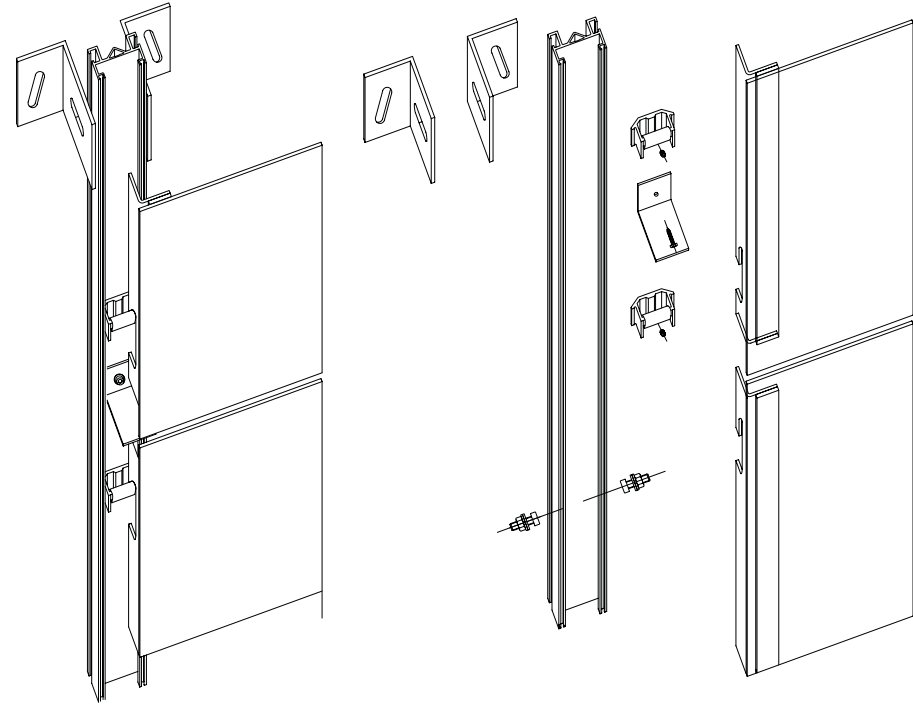
- The standard thickness porcelain tiles for this type of system is between 9 and 20mm.



PROGEST SYSTEM PANARIA PORCELAIN TILES

Panaria porcelain tile

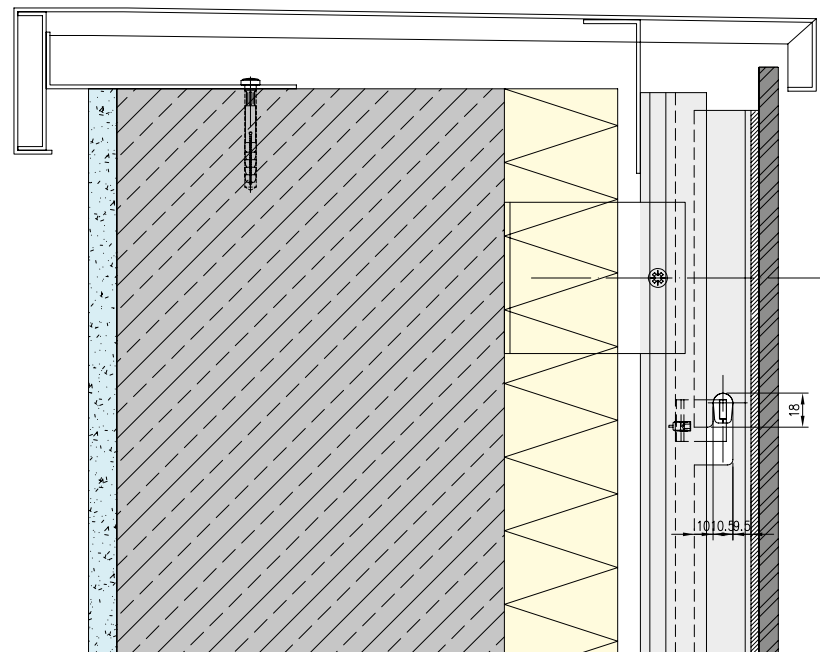
Standard components



N.B: The actual components may be modified in the design phase.

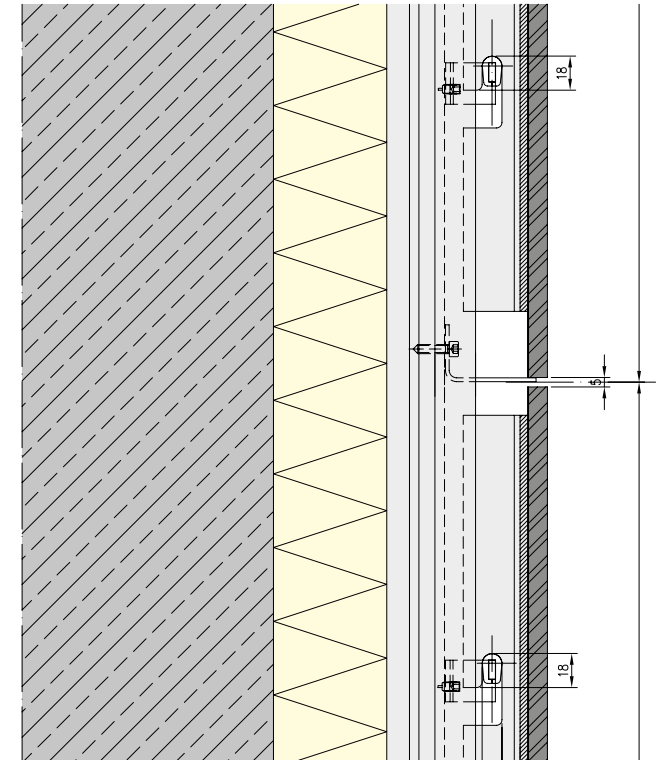
Panaria porcelain tile

Standard solution for roof finishing
Vertical section - Scale 1:4



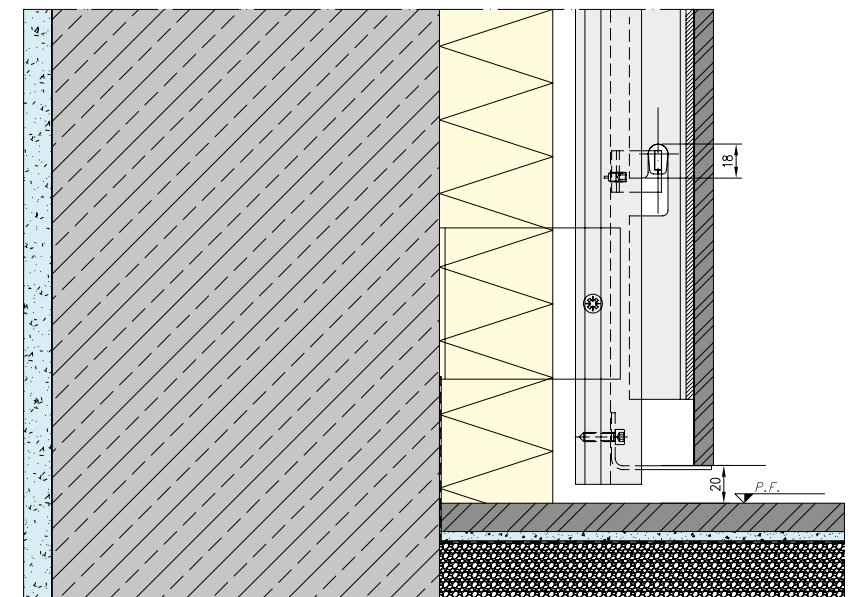
Panaria porcelain tile

Standard solution for mid-section
Vertical section - Scale 1:4



Panaria porcelain tile

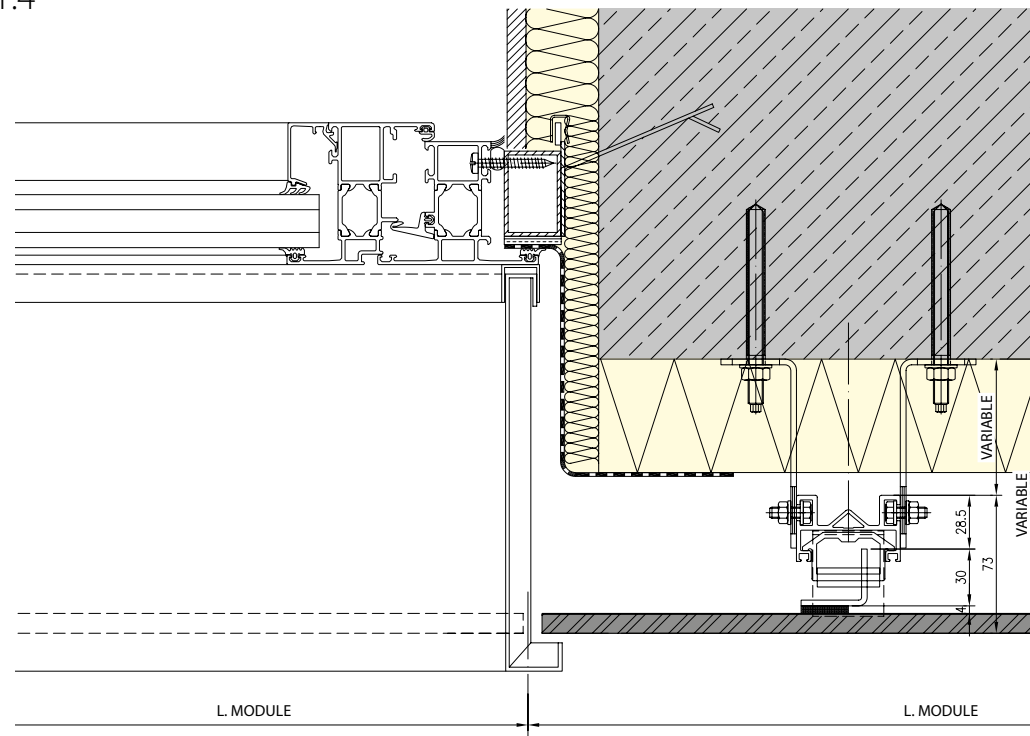
Standard solution for floor end
Vertical section - Scale 1:4



PROGEST SYSTEM PANARIA PORCELAIN TILES

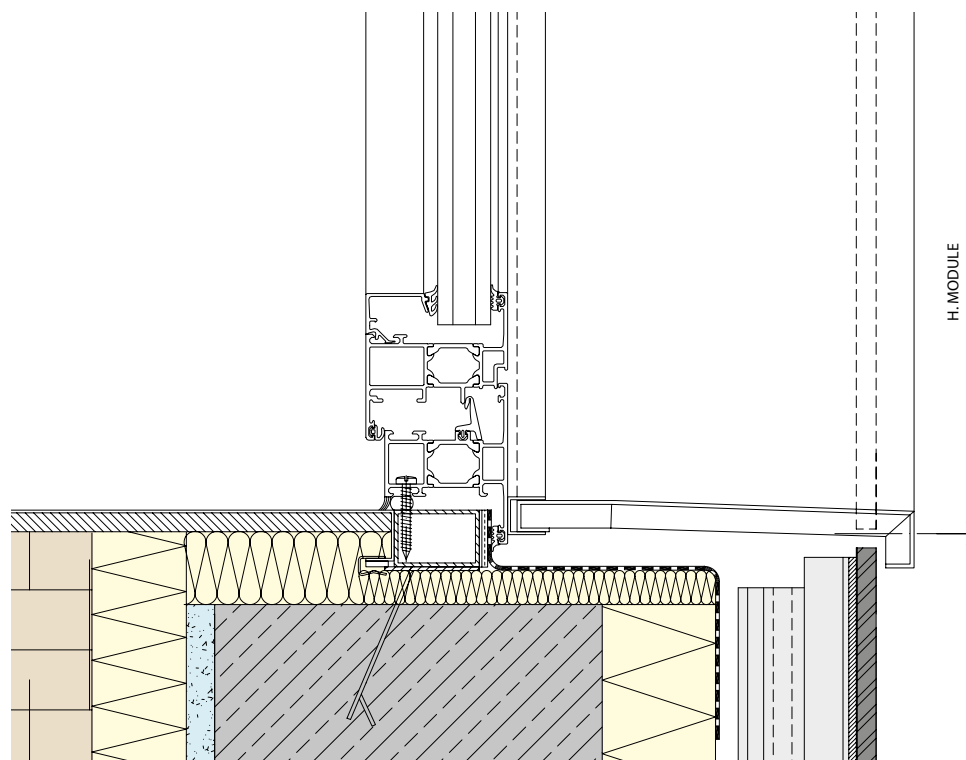
Panaria porcelain tile

Standard solution for window frame
Vertical section - Scale 1:4



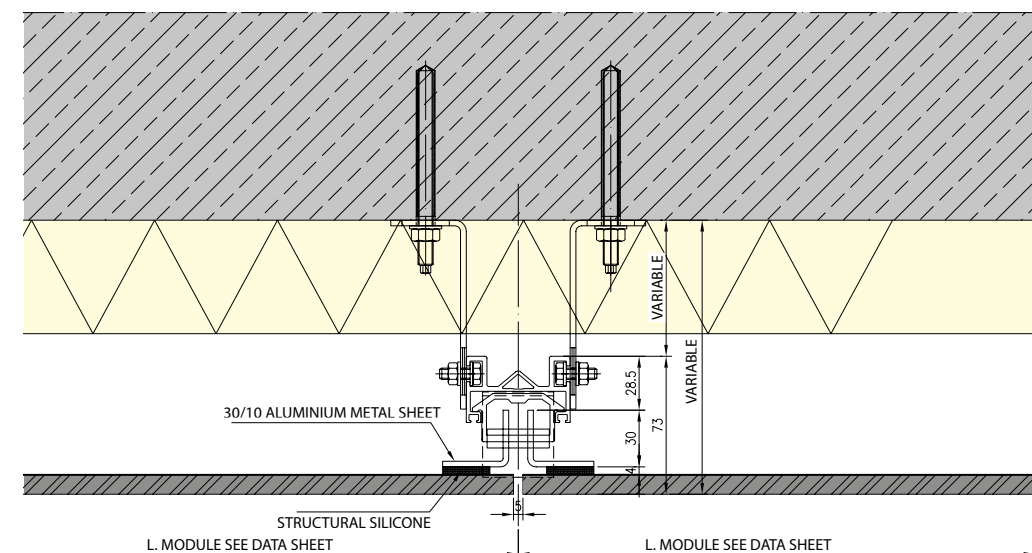
Panaria porcelain tile

Standard solution for windowsills
Vertical section - Scale 1:4



Panaria porcelain tile

Standard solution for mid-section
Horizontal section - Scale 1:4



PROGEST SYSTEM ZERO.3

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES:

ZERO.3 5PLUS ceramic tiles in laminated porcelain.

OPERATIONS CARRIED OUT ON THE TILE:

Metal profiles are inserted on the back of the tile by the means of structural bonding

CLADDING TILE SIZES:

Maximum size 300x100 cm



SYSTEM COMPONENTS

The "PROGEST" system consists of vertical elements in extruded aluminium profile (6060 alloy UNI 9006/1) installed on site with a predetermined spacing, according to architectural requirements and the static calculations. All weight bearing components of the structure are in accordance with the UNI 11018.

SYSTEM DESCRIPTION

The PROGEST system is designed to create a building envelope with a substructure consisting of extruded aluminium sections and external ceramic cladding.

The versions available can satisfy multiple requirements, both from a static and an architectural point of view. It is also very interesting to note that it is possible to use this system on existing buildings to improve their energy efficiency.

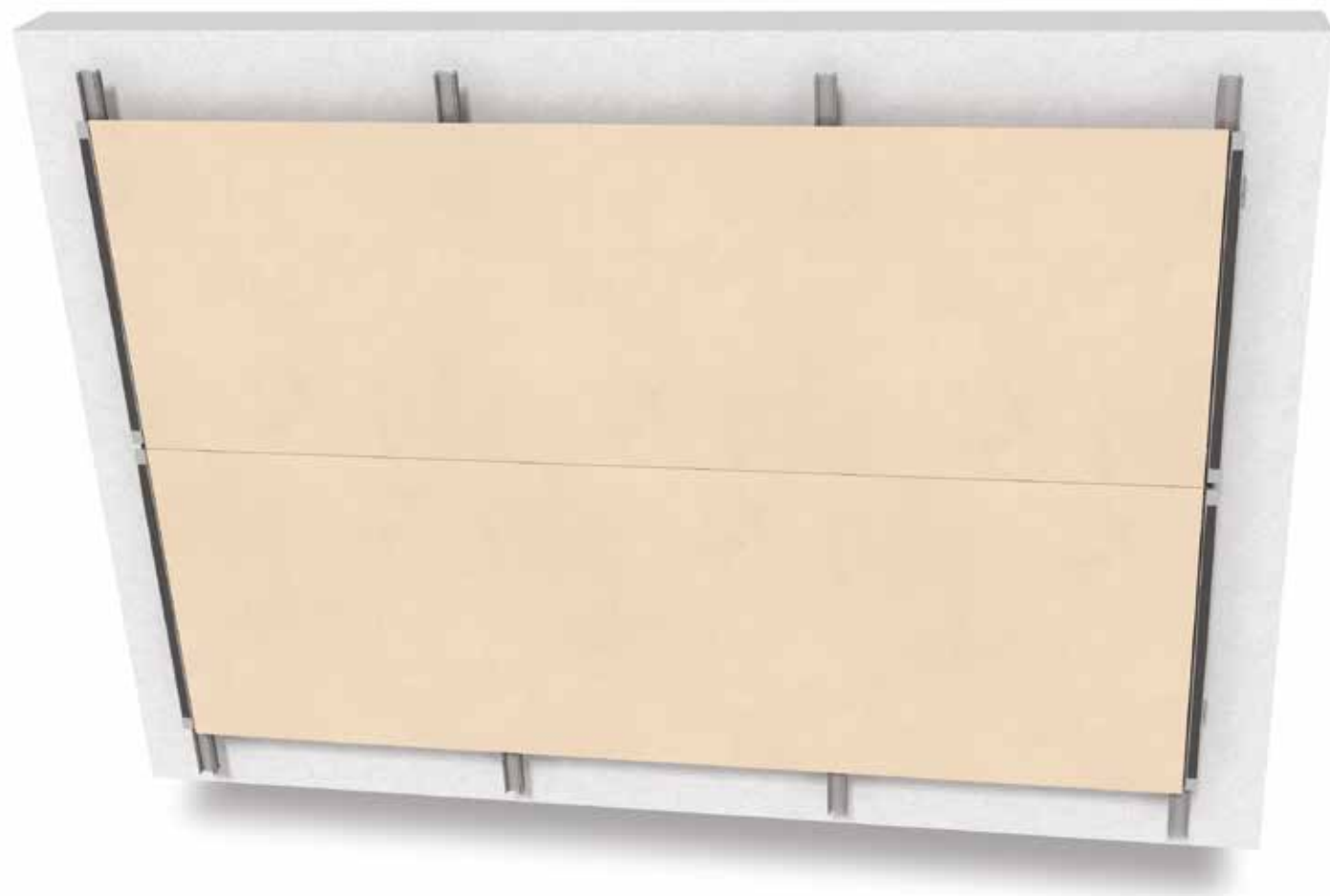
The vertical elements are anchored to the substructure with adjustable brackets that allow for thermal expansion and contraction. To fix the brackets to the existing walls, following pull-out tests, high resistance mechanical and chemical fixing are used.

The anchoring of the cladding tiles to the load-bearing structure is done with "L" shaped profiles placed on the back of the tiles themselves, with certified structural bonding. The "L" shaped profiles have special slots that are hooked to the adjustable supporting element placed on the vertical profiles.

The tiles, once installed, will be supported by two elements that will be placed on the vertical profiles so that the sealants are not subject to tear, thus maintaining their elastic and mechanical characteristics.

SYSTEM SIZES:

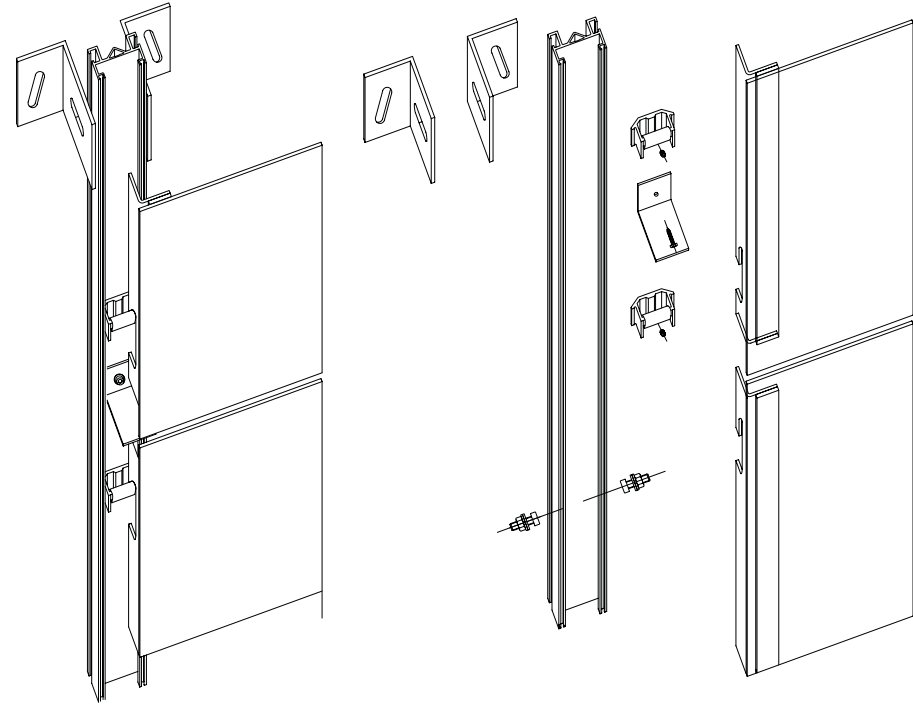
- The standard thickness of ZERO.3 laminated porcelain tiles for this type of system is 5.5 mm.



PROGEST SYSTEM ZERO.3

ZERO.3

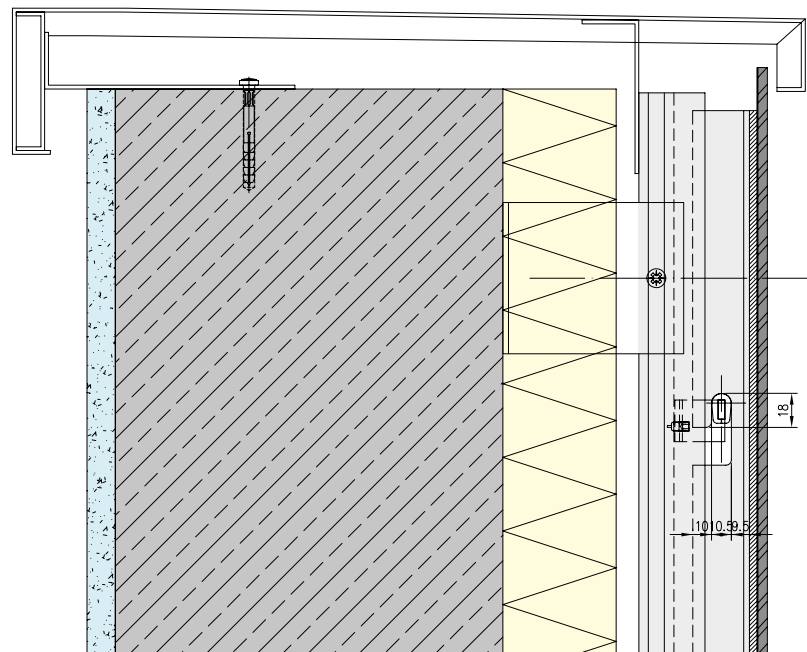
Standard components



N.B: The actual components may be modified in the design phase.

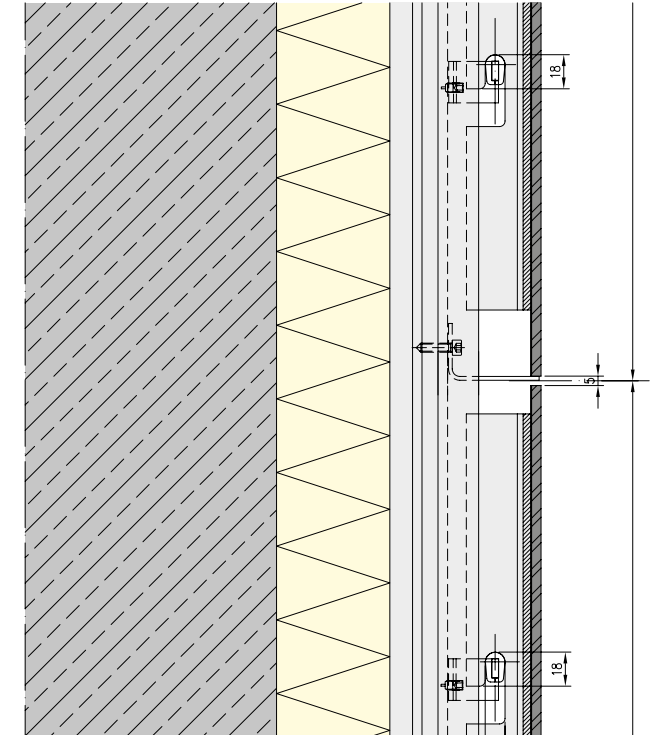
ZERO.3

Standard solution for roof finishing
Vertical section - Scale 1:4



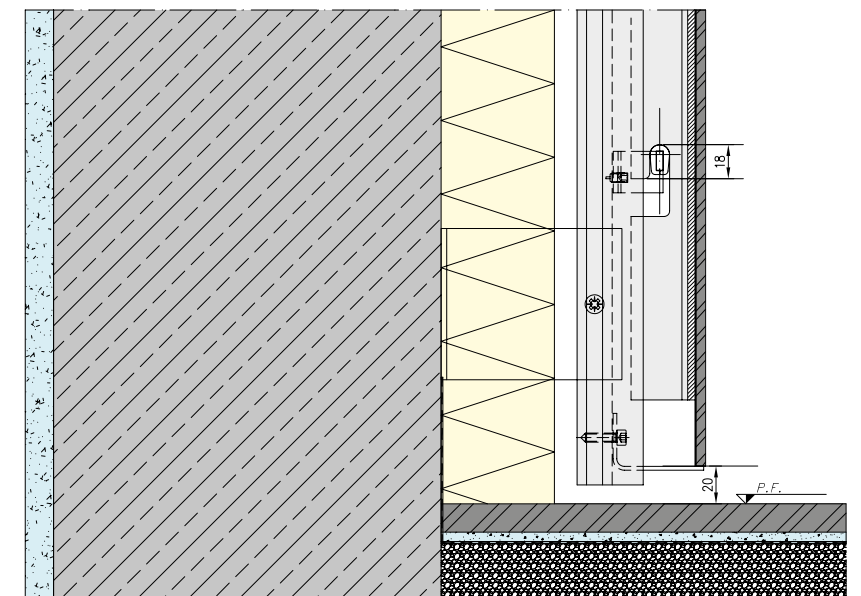
ZERO.3

Standard solution for mid-section
Vertical section - Scale 1:4



ZERO.3

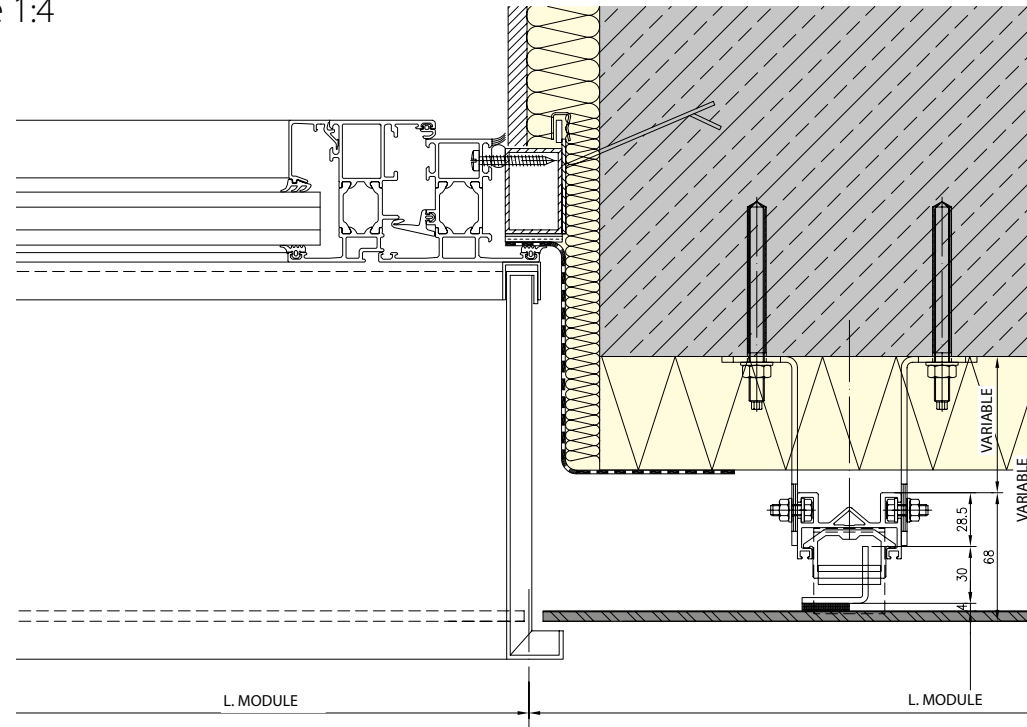
Standard solution for floor end
Vertical section - Scale 1:4



PROGEST SYSTEM ZERO.3

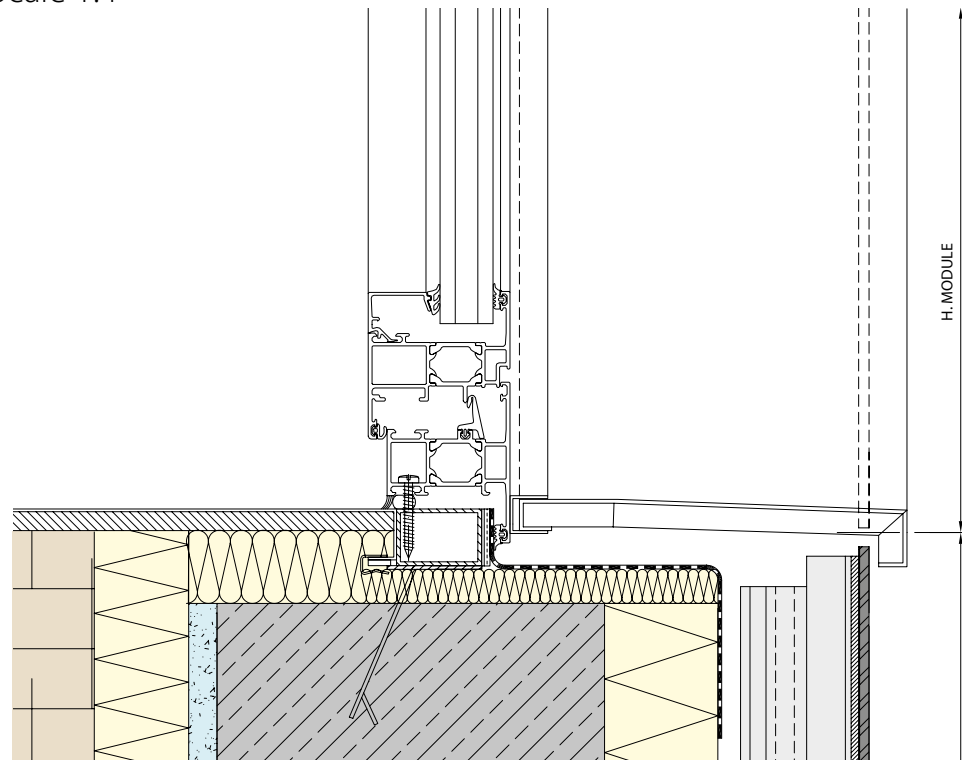
ZERO.3

Standard solution for window frame
Vertical section - Scale 1:4



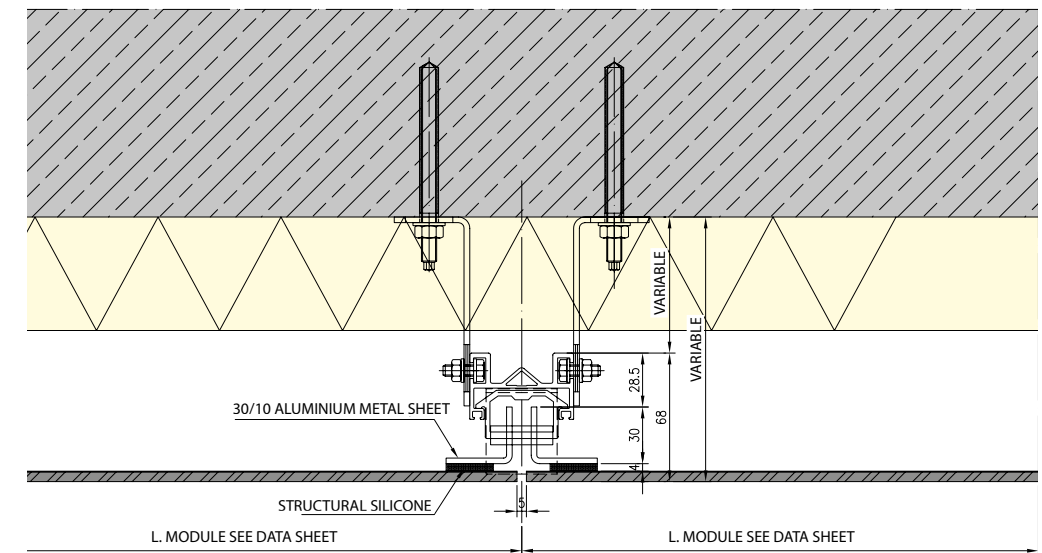
ZERO.3

Standard solution for windowsills
Vertical section - Scale 1:4



ZERO.3

Standard solution for mid-section
Horizontal section - Scale 1:4



LUNA VISTA SYSTEM PANARIA PORCELAIN STONEWARE

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES:

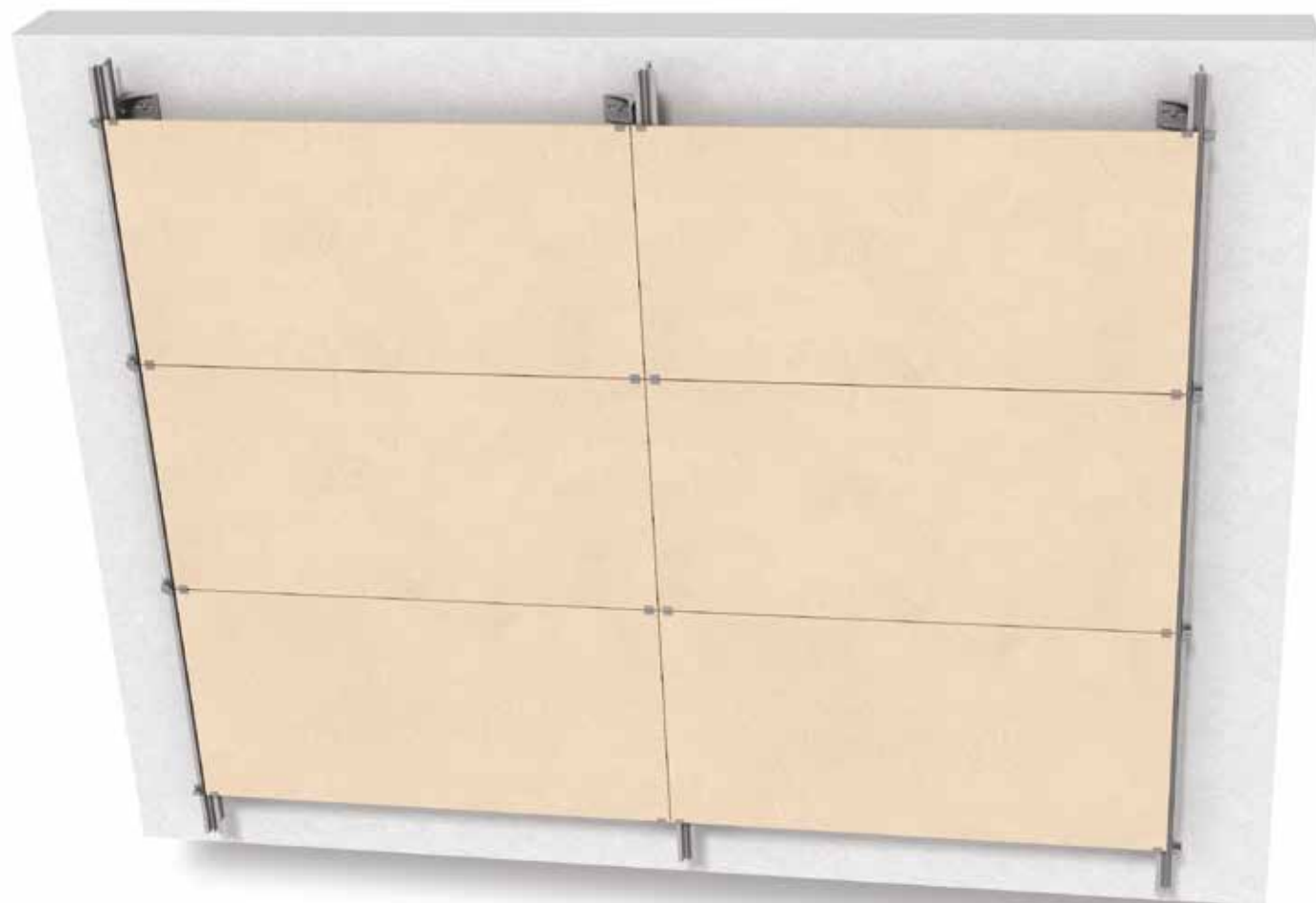
Ceramic tiles in Panaria porcelain stoneware with thickness from 9 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE:

None

CLADDING SLAB SIZES:

60x60 cm - 75x75 cm - 90x90 cm - 60x120 cm



SYSTEM COMPONENTS

The "Luna vista" system consists of the following elements:

- Extruded "L8" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Extruded "L1" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Support hooks of the tiles "T6/V3 dx" and "T6/V3 sx" stainless steel EN 1.4310 (AISI 304);
- Standard support brackets "A13" and "B13" made from extruded aluminium EN 6060;
- Stainless steel screws, for fixing "L8" profiles to the brackets;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Silicone drops bonding the tiles to hooks and profile.

SYSTEM DESCRIPTION

The system consists of a vertical aluminium profile "L8" with a spacing depending on the width of the tiles, plus the joint and the vertical aluminium "L1" profile where required by the project in case of big size tiles.

The vertical profiles "L8" and "L1" are shaped to accommodate without drilling the following accessories:

- wall fixing brackets screwed with stainless steel bolts, according to project pitch;
- the glazed hooks "T6/V3sx" and "T6/V3dx" to support the cladding tiles.

The cladding tiles are held in position by means of hooks that fit into the grooves of the profiles "L8" or "L1". If needed, the hooks can be painted the same colour of the tiles surface so that they are not visible not even from a small distance from the cladding itself. Each tile can be assembled or disassembled independently, by snapping the hooks "T6/V3" into the slots on the front of the vertical profile. The number of hooks depends on the size of the tiles and the loads on the wall.

Structural adhesive is also applied between the lateral edges of the profile and the back of the tile to improve the mechanical support of the system.

As there are no holes, no damage is done to the surface protection (caused by oxidation or electrocoloring) and this increases the life-cycle of the profiles.

The supporting structure allows any type of adjustment; it is able to protect from wind loads and allows the thermal expansion of the different components.

SYSTEM SIZES:

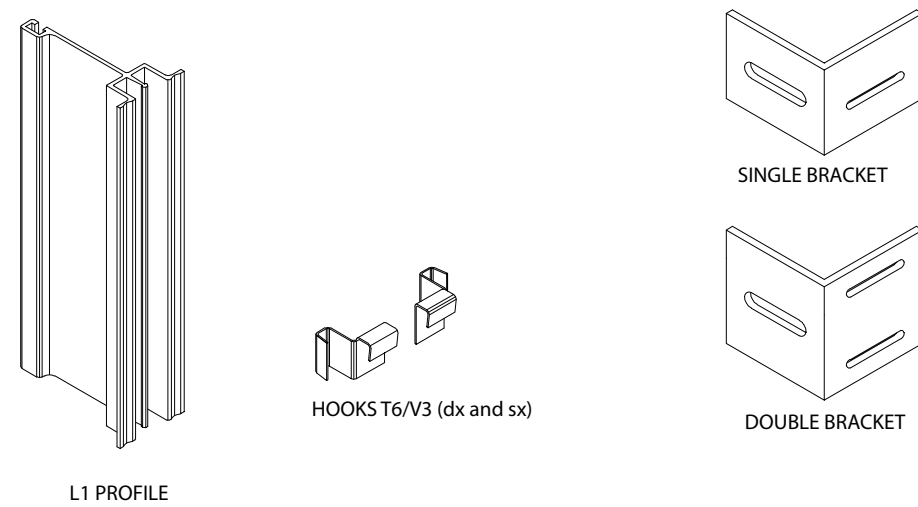
- The standard distance between the wall and the internal face of the tiles is 111 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the cladding tiles for this system is between 9 and 20 mm.



LUNA VISTA SYSTEM PANARIA PORCELAIN STONEWARE

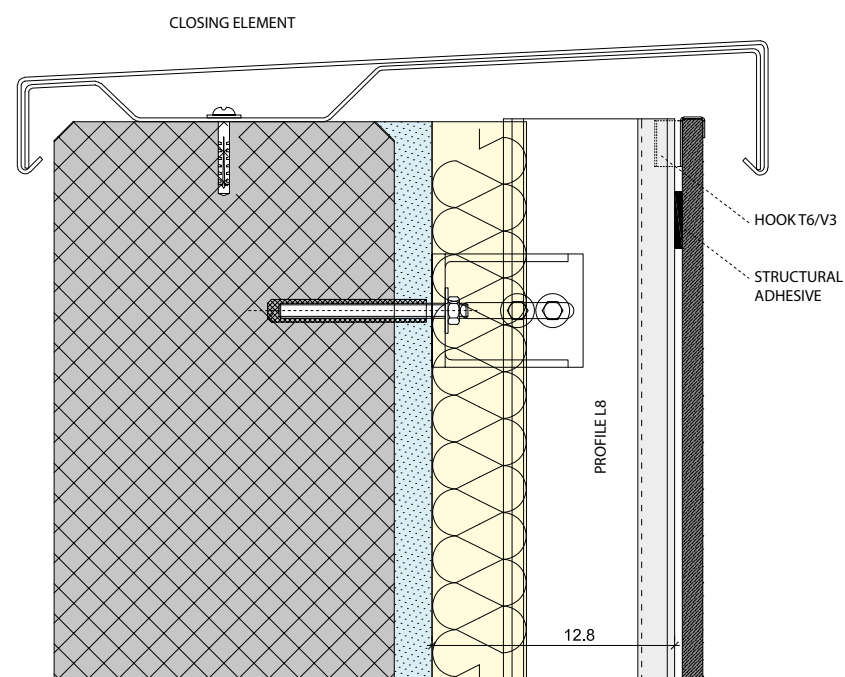
Panaria porcelain tile

Components

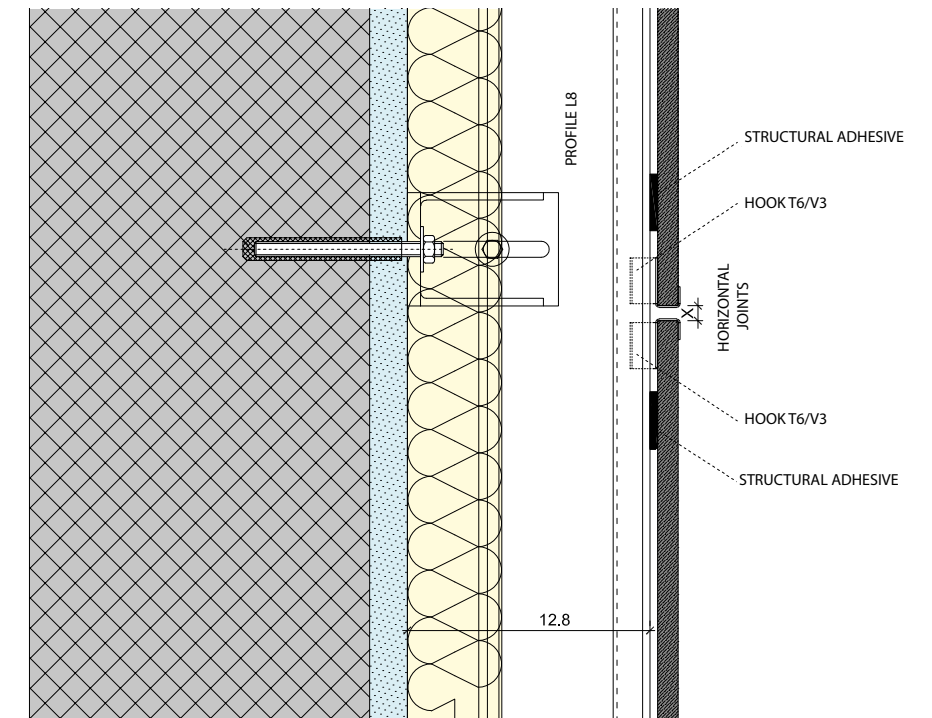


N.B: The actual components may be modified in the design phase.

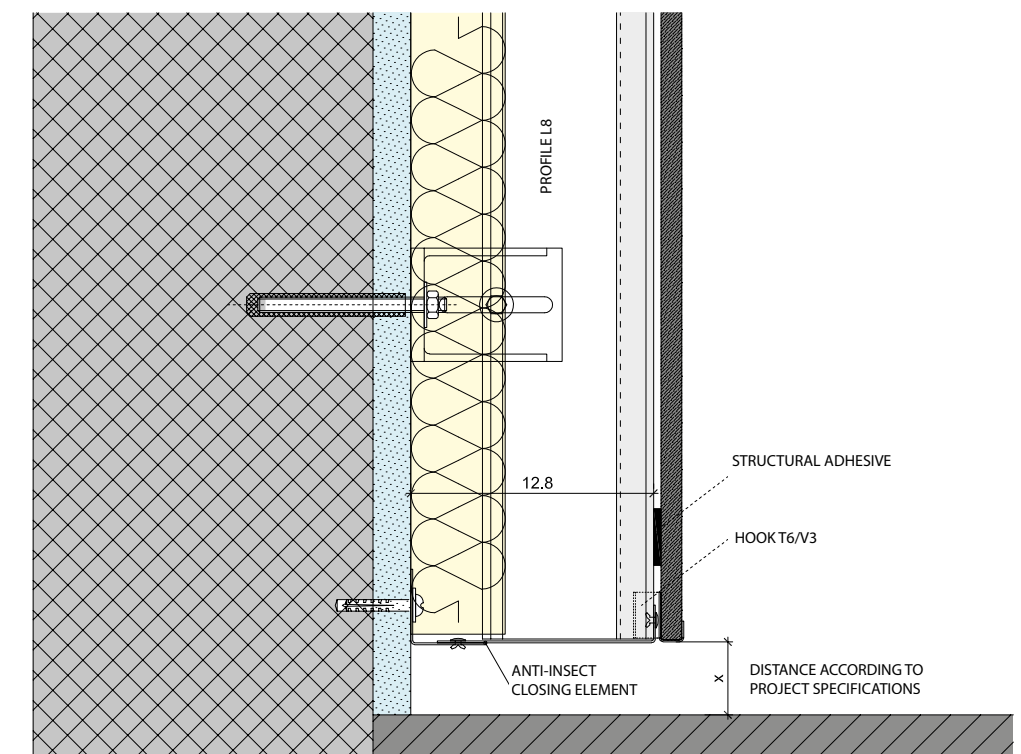
Panaria porcelain tile

Standard solution for roof finishing
Vertical section - Scale 1:4

Panaria porcelain tile

Standard solution for mid-section
Vertical section - Scale 1:4

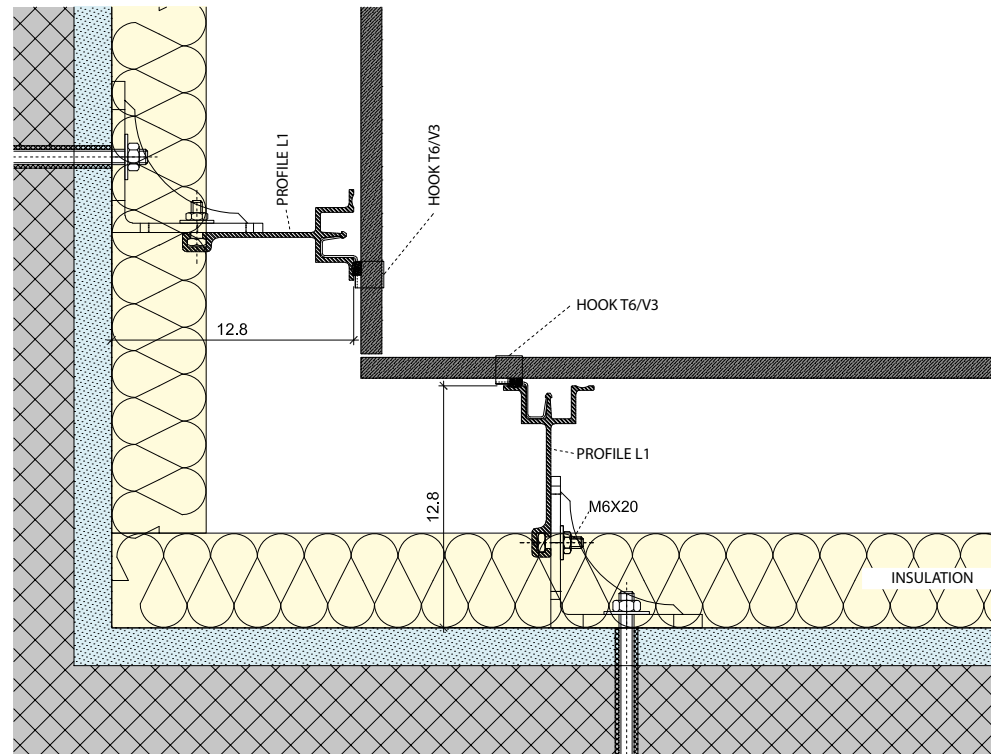
Panaria porcelain tile

Standard solution for floor end
Vertical section - Scale 1:4

LUNA VISTA SYSTEM PANARIA PORCELAIN STONEWARE

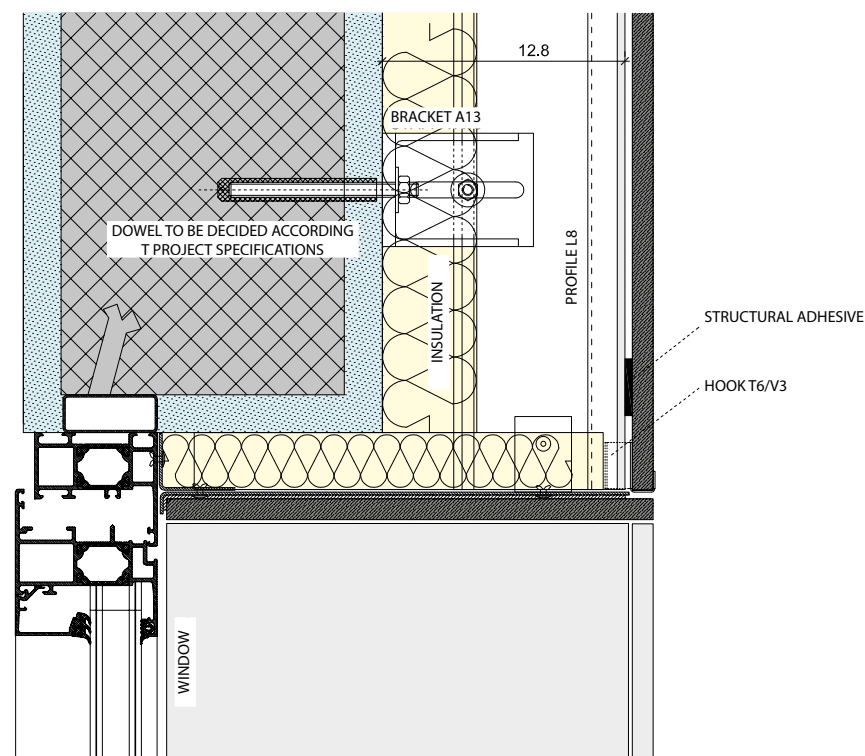
Panaria porcelain tile

Standard solution for internal angle
Horizontal section - Scale 1:4



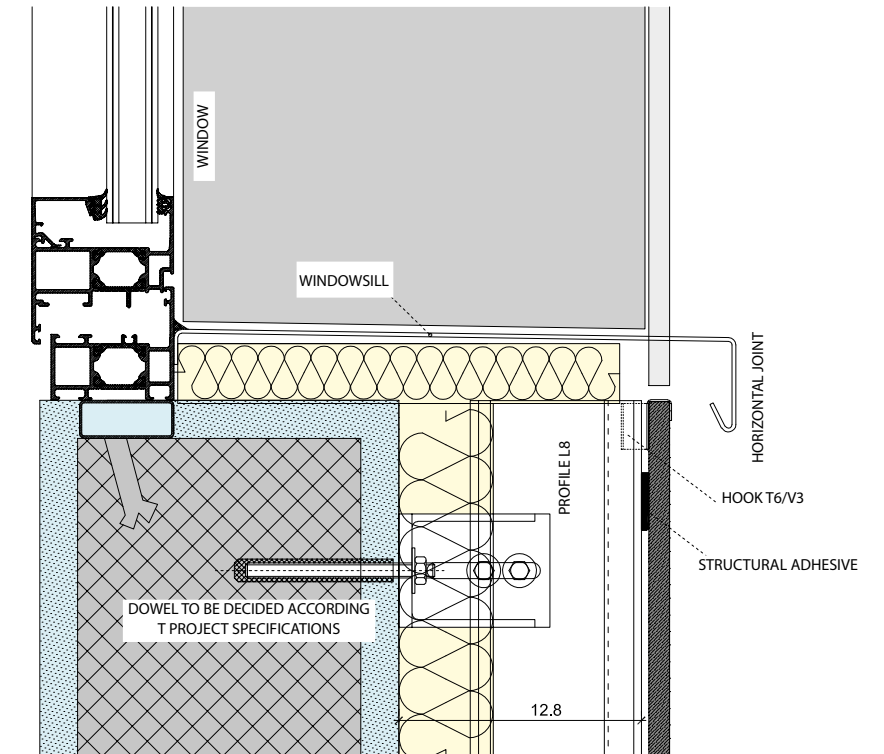
Panaria porcelain tile

Standard solution for window head
Vertical section - Scale 1:4



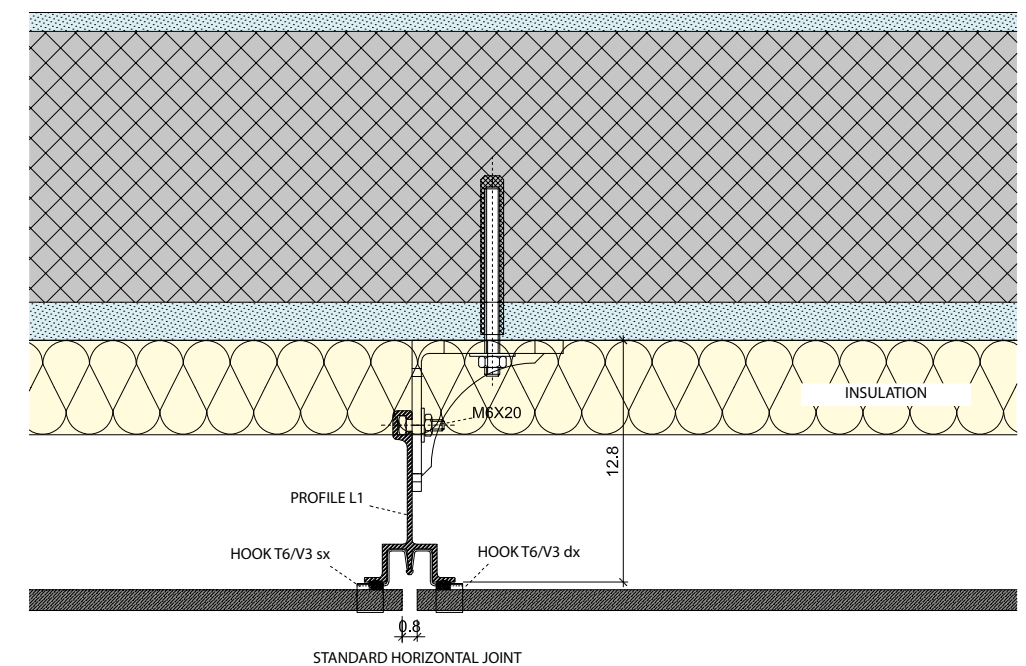
Panaria porcelain tile

Standard solution below windowsill
Vertical section - Scale 1:4



Panaria porcelain tile

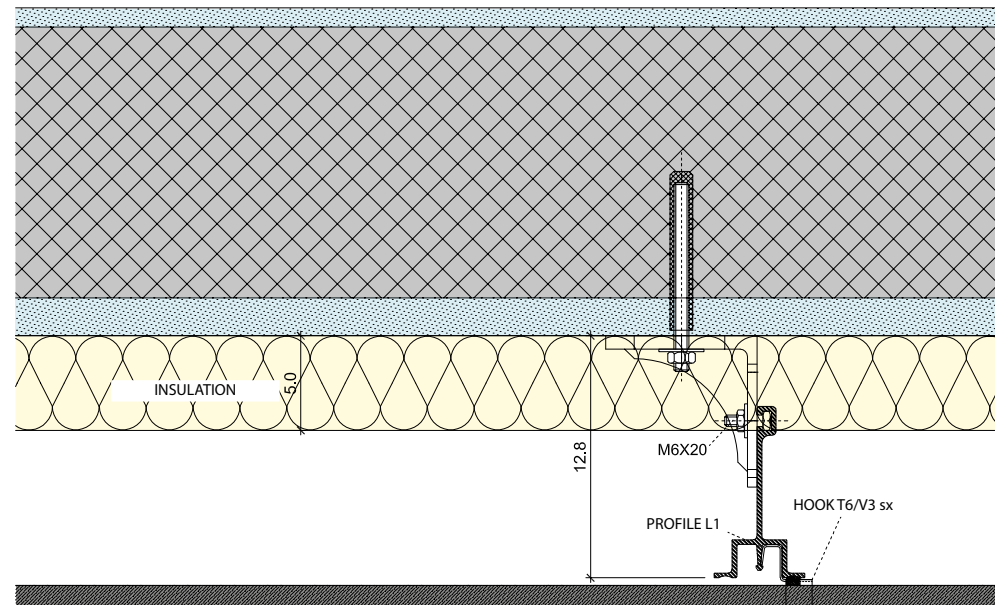
Standard solution for mid-section
Horizontal section - Scale 1:4



LUNA VISTA SYSTEM PANARIA PORCELAIN STONEWARE

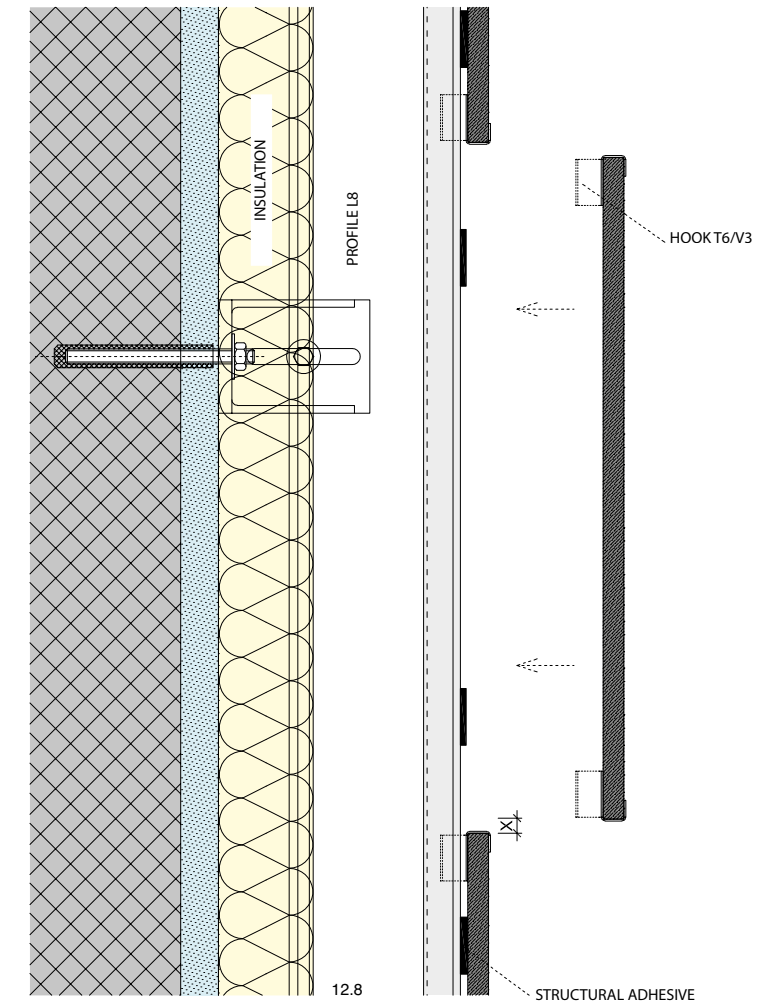
Panaria porcelain tile

Standard horizontal closing solution
Horizontal section - Scale 1:4



Panaria porcelain tile

Tile mounting operation
Vertical section - Scale 1:4



LUNA VISTA SYSTEM ZERO.3

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES:

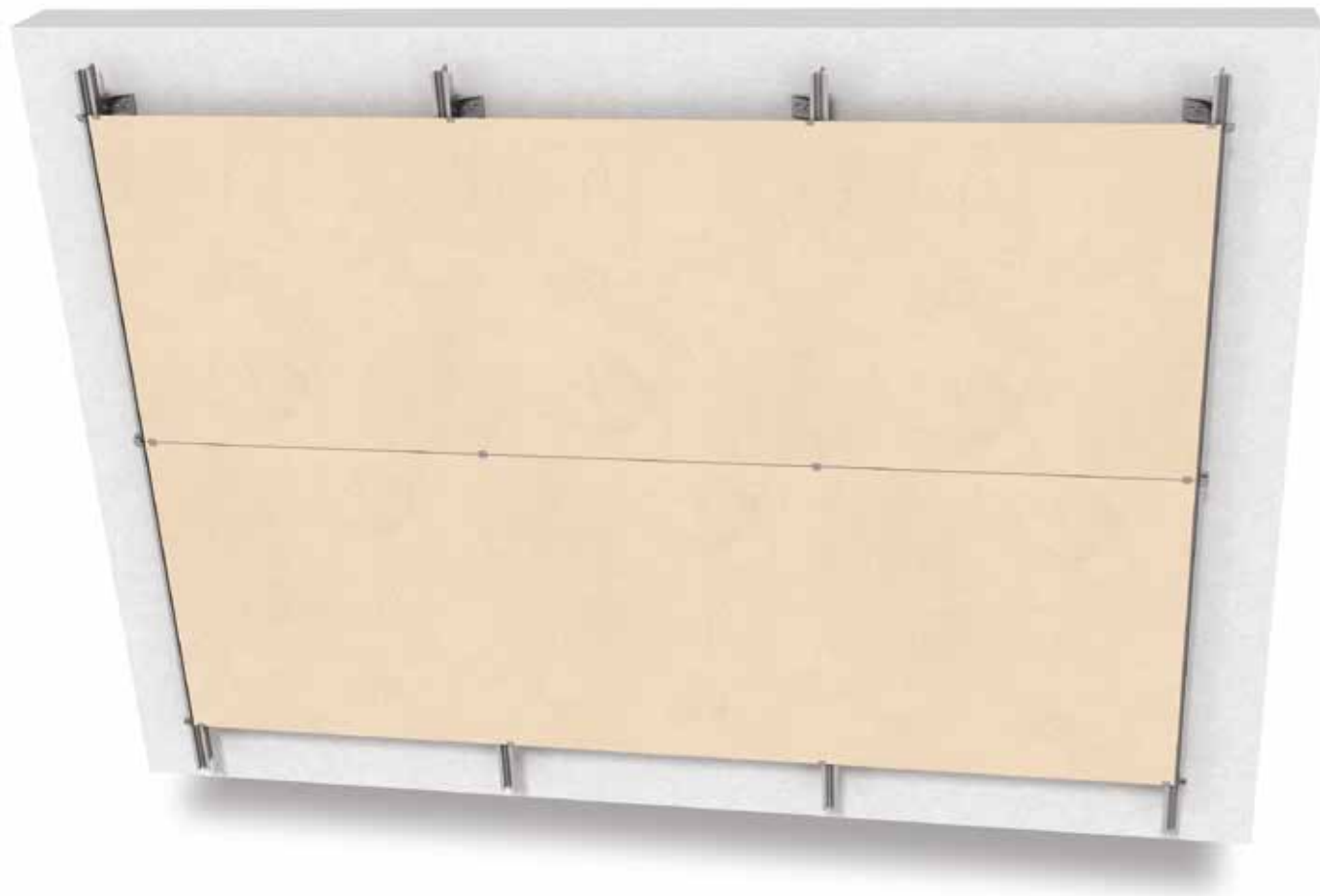
ZERO.3 3PLUS or ZERO.3 5PLUS ceramic tiles in laminated porcelain stoneware

OPERATIONS CARRIED OUT ON THE TILE:

None

CLADDING TILE SIZES:

Maximum size 300x100 cm



SYSTEM COMPONENTS

The "Luna vista" system consists of the following elements:

- Extruded "L8" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Extruded "L1" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Support hooks of the tiles "T6/V3 dx" and "T6/V3 sx" stainless steel EN 1.4310 (AISI 304);
- Standard support brackets "A13" and "B13" made from extruded aluminium EN 6060;
- Stainless steel screws, for fixing "L8" profiles to the brackets;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Silicone drops bonding the tiles to hooks and profile.

SYSTEM DESCRIPTION

The system consists of a vertical aluminium profile "L8" with a spacing depending on the width of the tiles, plus the joint and the vertical aluminium "L1" profile where required by the project in case of big size tiles.

The vertical profiles "L8" and "L1" are shaped to accommodate without drilling the following accessories:

- wall fixing brackets screwed with stainless steel bolts, according to project pitch;
- the glazed hooks "T6/V3sx" and "T6/V3dx" to support the cladding tiles.

The cladding tiles are held in position by means of hooks that fit into the grooves of the profiles "L8" or "L1". If needed, the hooks can be painted the same colour of the tiles surface so that they are not visible not even from a small distance from the cladding itself. Each tile can be assembled or disassembled independently, by snapping the hooks "T6/V3" into the slots on the front of the vertical profile. The number of hooks depends on the size of the tile and the load on the wall.

Structural adhesive is also applied between the lateral edges of the profile and the back of the tile to improve the mechanical support of the system.

As there are no holes, no damage is done to the surface protection (caused by oxidation or electrocoloring) and this increases the life-cycle of the profiles.

The supporting structure allows any type of adjustment; it is able to protect from wind loads and allows the thermal expansion of the different components.

SYSTEM SIZES:

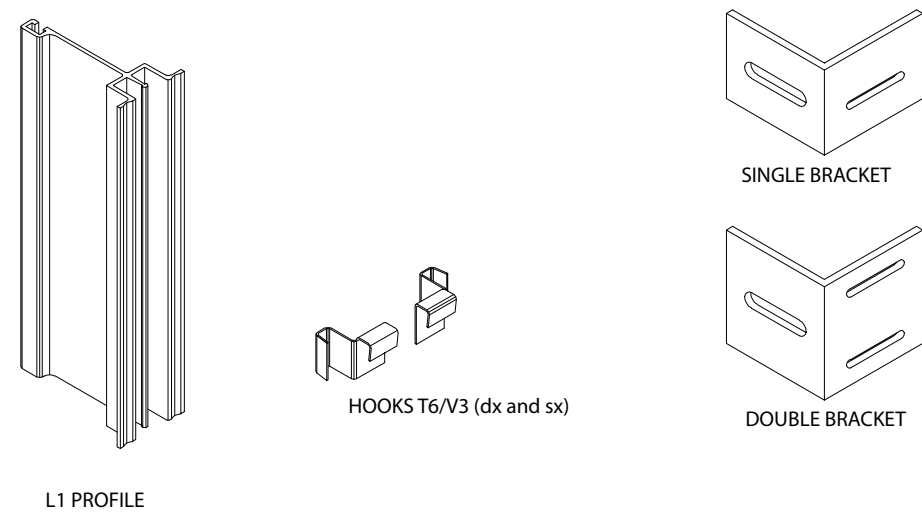
- The standard distance between the wall and the internal face of the tiles is 111 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the tiles for this system is either 3.5 or 5.5 mm.



LUNA VISTA SYSTEM ZERO.3

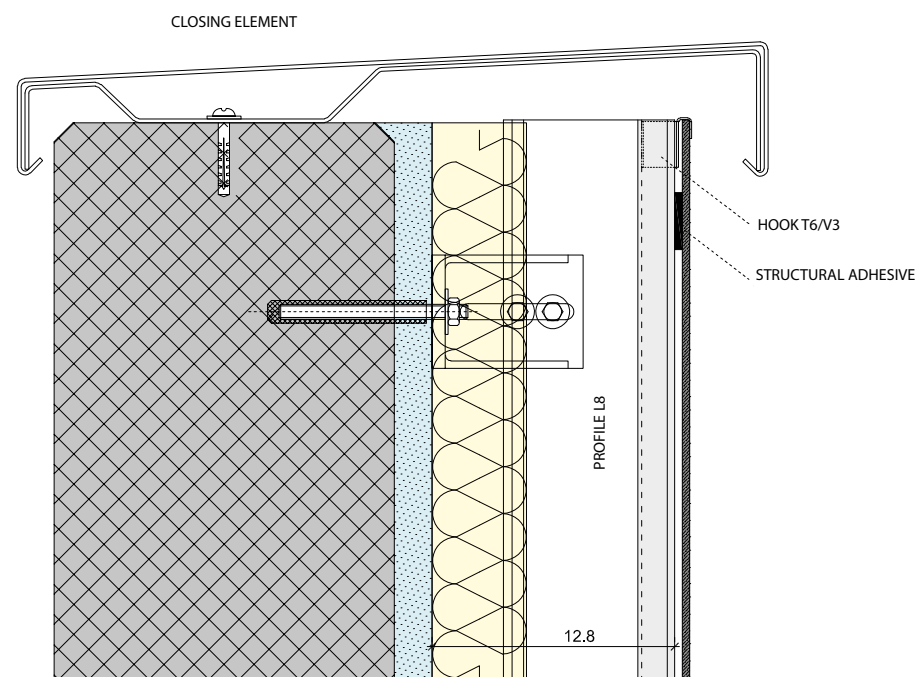
ZERO.3

Components

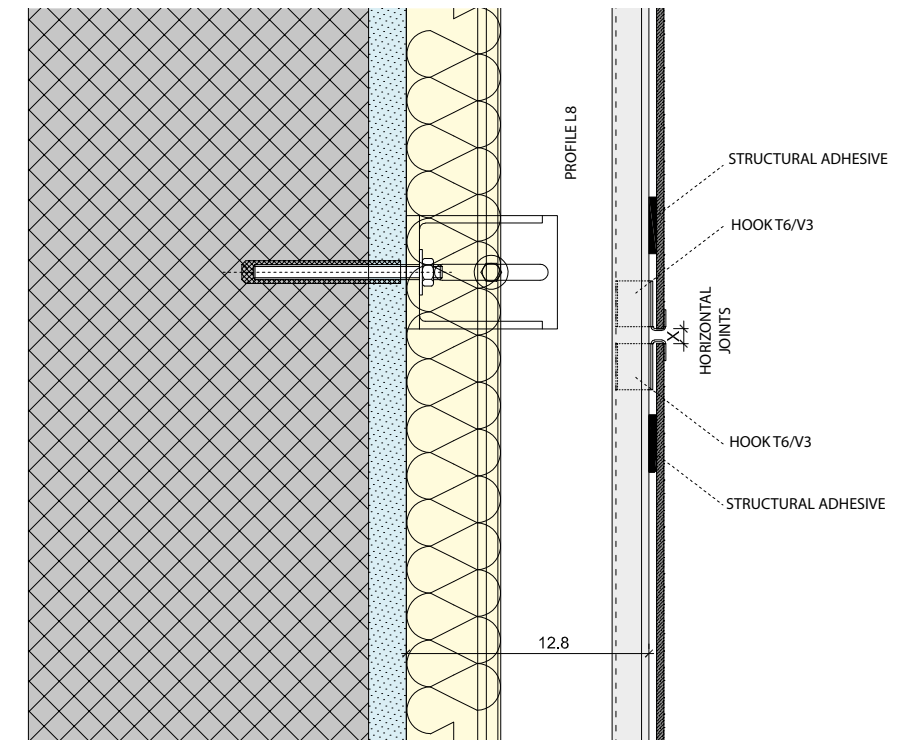


N.B: The actual components may be modified in the design phase.

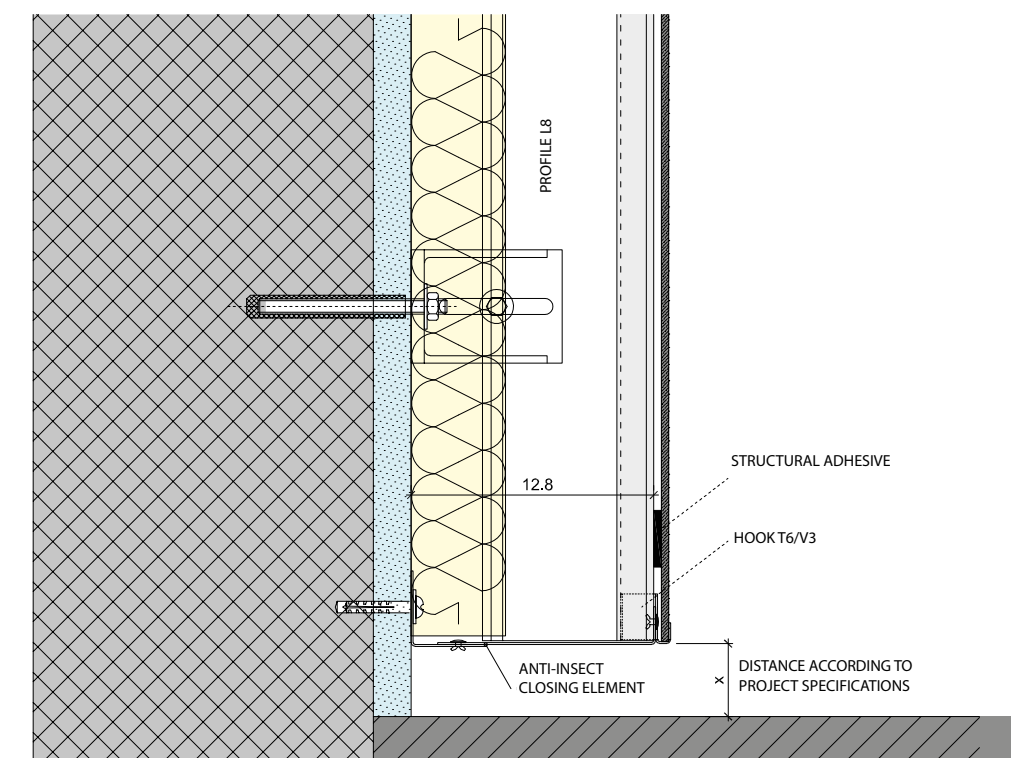
ZERO.3

Standard solution for roof finishing
Vertical section - Scale 1:4

ZERO.3

Standard solution for mid-section
Vertical section - Scale 1:4

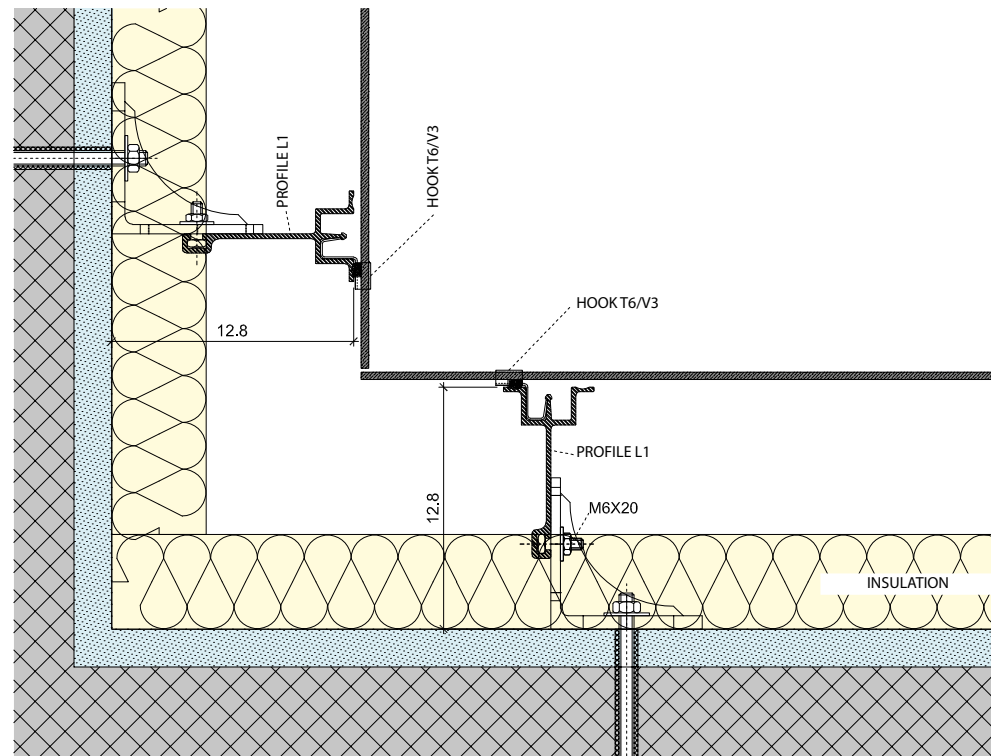
ZERO.3

Standard solution for floor end
Vertical section - Scale 1:4

LUNA VISTA SYSTEM ZERO.3

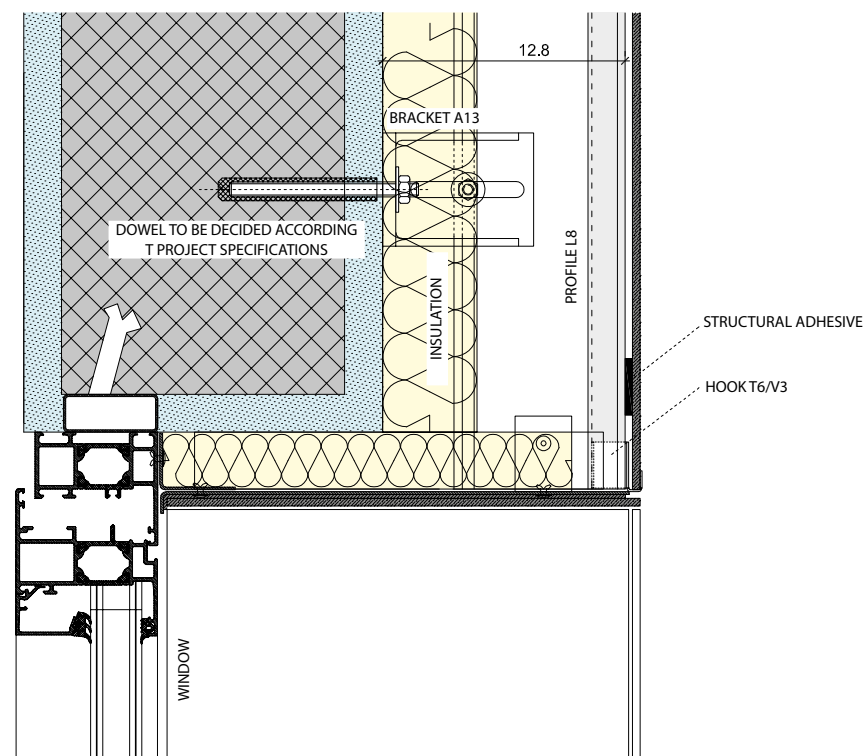
ZERO.3

Standard solution for internal angle
Horizontal section - Scale 1:4



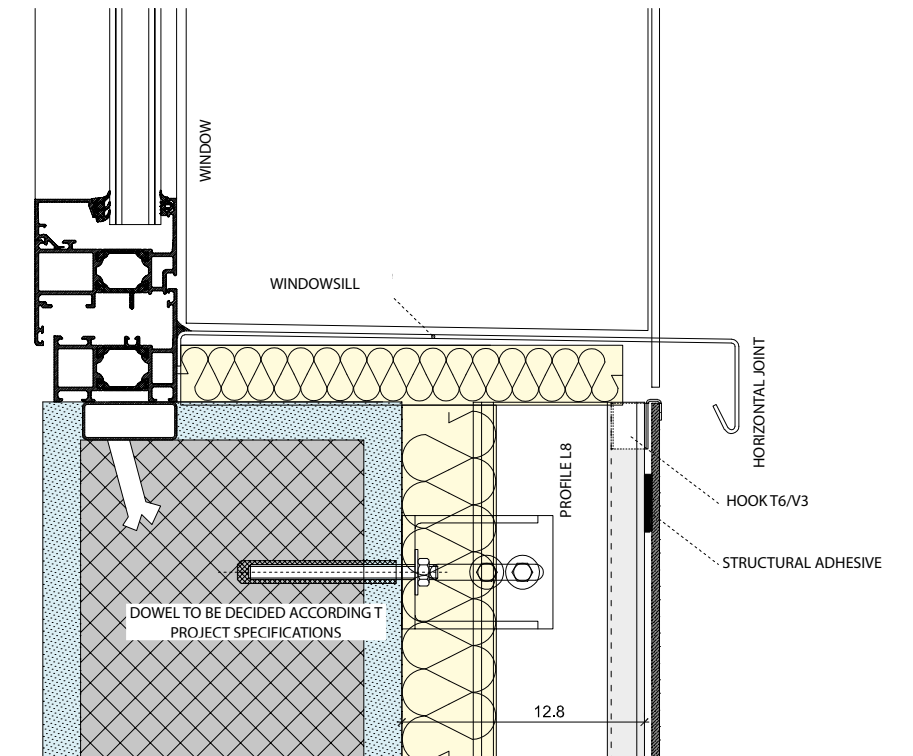
ZERO.3

Standard solution for window head
Vertical section - Scale 1:4



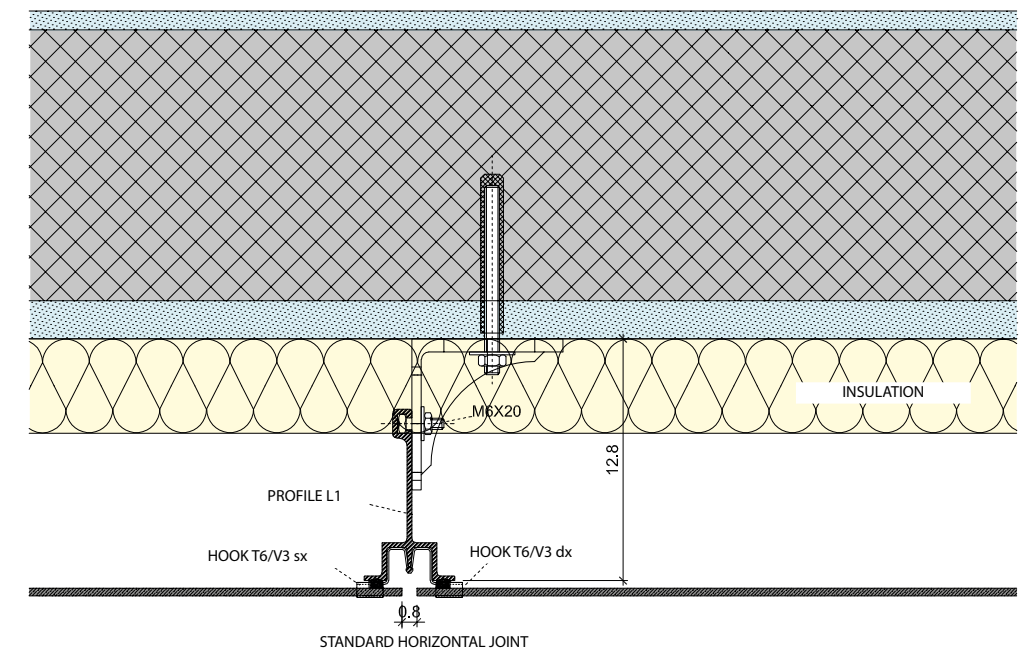
ZERO.3

Standard solution below windowsill
Vertical section - Scale 1:4



ZERO.3

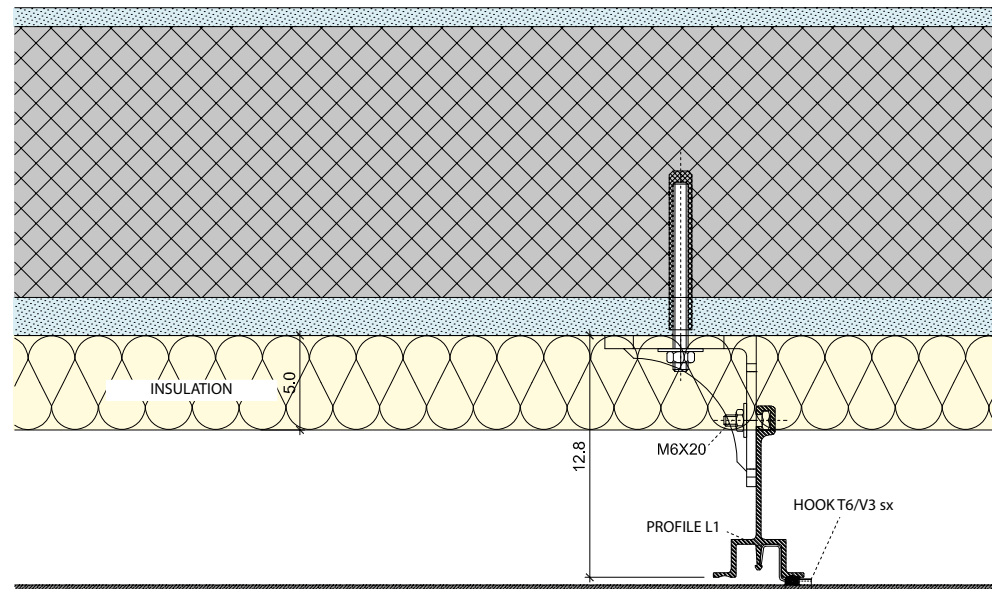
Standard solution for mid-section
Horizontal section - Scale 1:4



LUNA VISTA SYSTEM ZERO.3

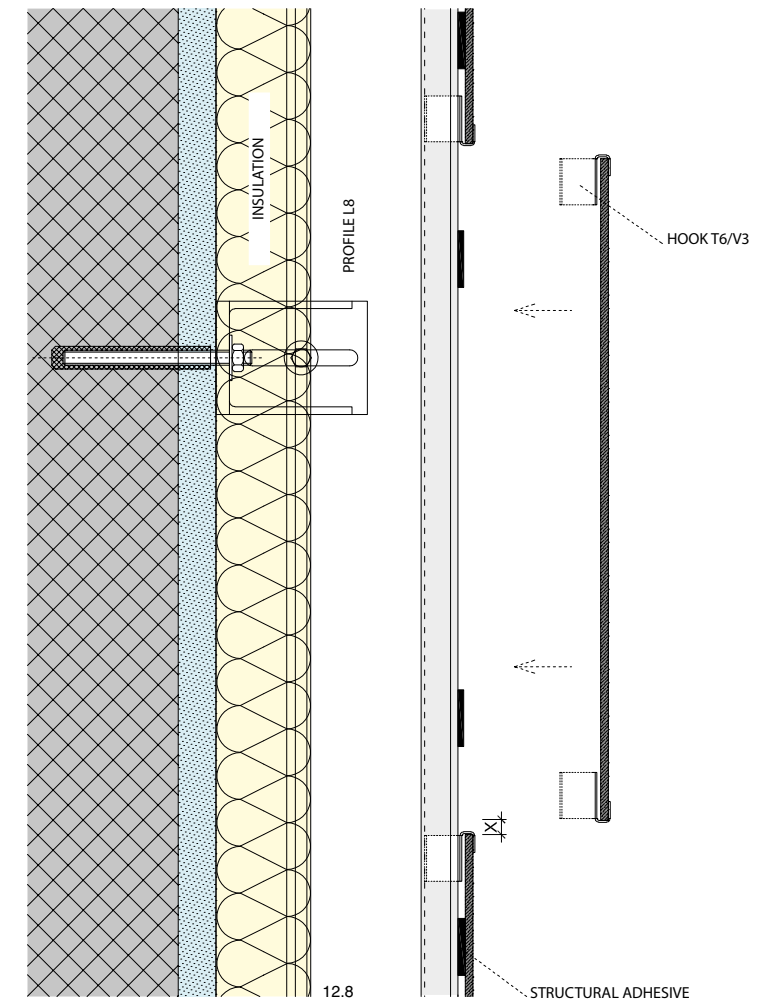
ZERO.3

Standard horizontal closing solution
Horizontal section - Scale 1:4



ZERO.3

Tile mounting operation
Vertical section - Scale 1:4



VENERE SORMONTATO SYSTEM PANARIA PORCELAIN STONEWARE

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES:

Ceramic tiles in Panaria porcelain stoneware with thickness from 9 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE:

None

CLADDING SLAB SIZES:

60x60 - 75x75 - 90x90 - 60x120



SYSTEM COMPONENTS

The "Venere" system consists of the following elements:

- Extruded "CV1" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Support hooks of the tiles "V3et" and "V3" stainless steel EN 1.4310 (AISI 301);
- Fixing springs of the hooks to the profile "CV1" type "V2" in stainless steel EN 1.4310 (AISI 301) treated;
- Standard support brackets "A12" and "B12" made from extruded aluminium EN 6060;
- Stainless steel screws, for fixing "CV1" profile to the brackets;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Neoprene sealing strip to improve the bonding between the tiles and the hooks and profiles, of a different thickness as required;
- "Lana" springs in hardened and tempered stainless steel, to support the insulation panels applied to the wall, when required.

SYSTEM DESCRIPTION

The system consists of a mounted aluminium vertical profile "CV1" according to the width of the tile, plus the joint of the project.

The vertical profile "CV1" is shaped to accommodate without drilling the following accessories:

- wall fixing brackets screwed with stainless steel bolts, according to project pitch;
- the hooks "V3et" and "V3" for the support of the tile and the corresponding fixing springs "V2" should be inserted with an appropriate tool in the slot of the vertical profile, according to the height of the cladding tiles plus the project joints (which are not visible);
- the supporting springs of the insulating panel, when necessary, snapped in.

As there are no holes, no damage is done to the surface protection (caused by oxidation or electrocoloring) and this increases the life-cycle of the profiles.

The main characteristic of this "Venere Sormontato" system is that each tile is installed in an almost-vertical position, so that the upper tile overlaps the inferior tile by about 1 cm. The tiles can be installed on the cladding very simply, without any further work on their surfaces or edges, by the supporting hooks which are visible from outside the façade. If needed, the hooks can be painted the same colour of the tiles so that they are not visible not even from a small distance from the cladding itself.

Each tile is bonded with the hooks and the vertical profile using neoprene gasket strips of adequate thickness and silicone drops, when needed.

When all the components are put in place, each tile can be installed or dismantled one at a time.

The supporting structure allows any type of adjustment; it is able to protect from wind loads and allows the thermal expansion of the different components.

SYSTEM SIZES:

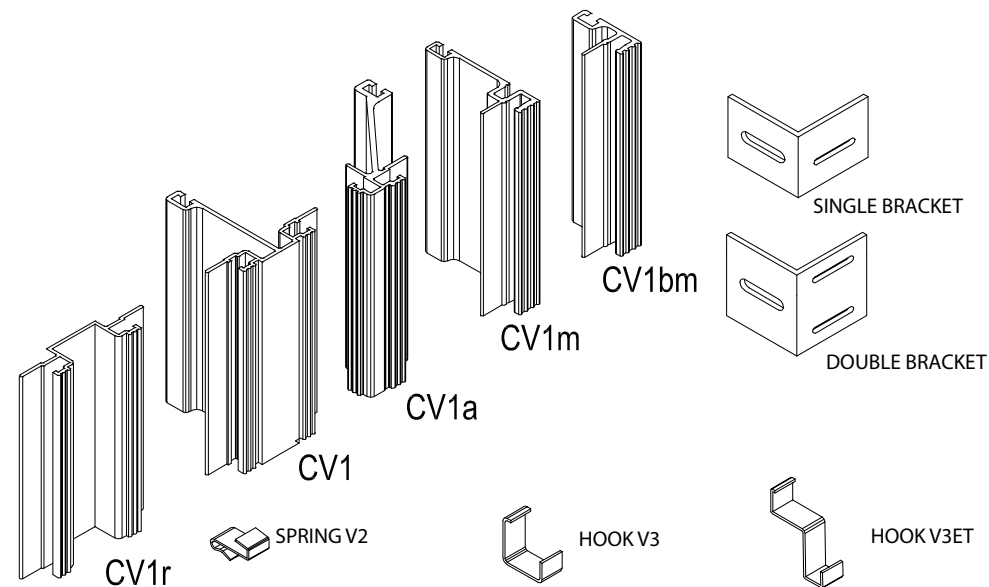
- The standard distance between the wall and the internal face of the tiles is 110 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the cladding tiles for this system is between 9 and 14 mm.



VENERE SORMONTATO SYSTEM PANARIA PORCELAIN STONEWARE

Panaria porcelain tile

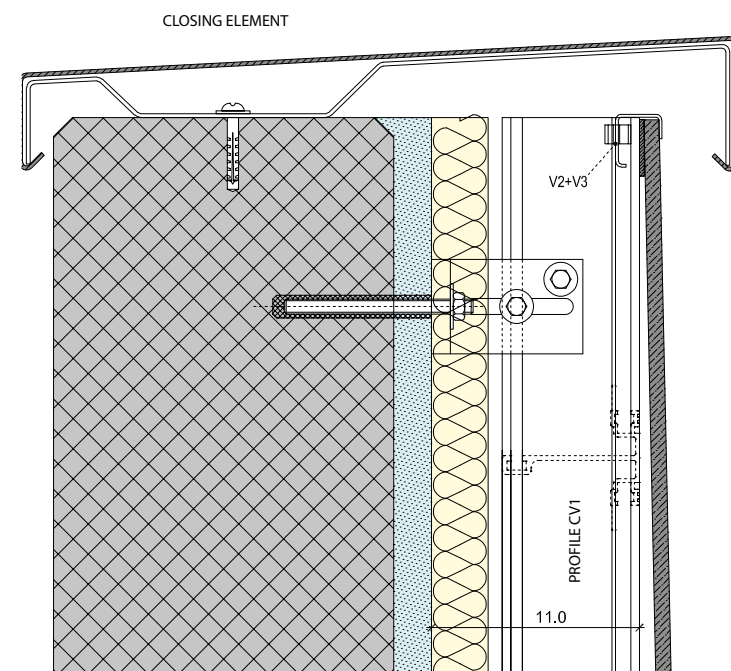
Standard components



N.B: The actual components may be modified in the design phase.

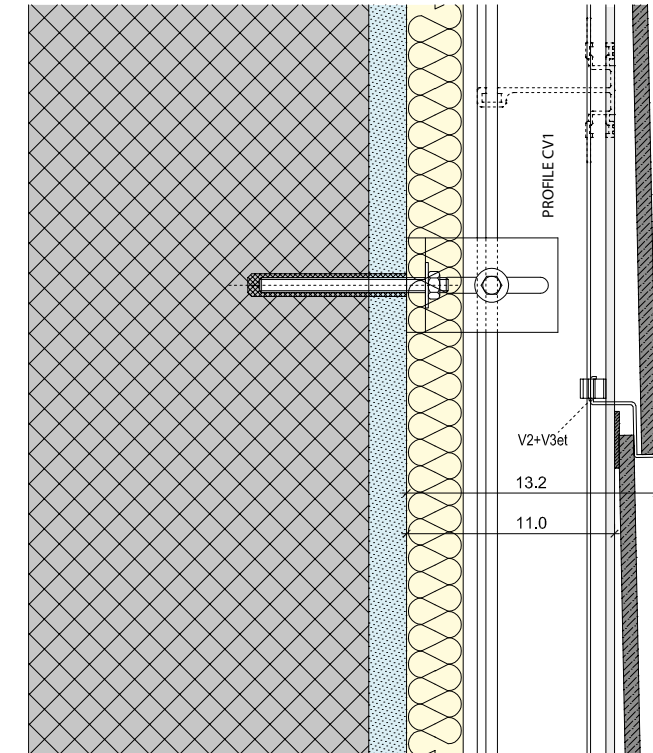
Panaria porcelain tile

Standard solution for roof finishing
Vertical section - Scale 1:4



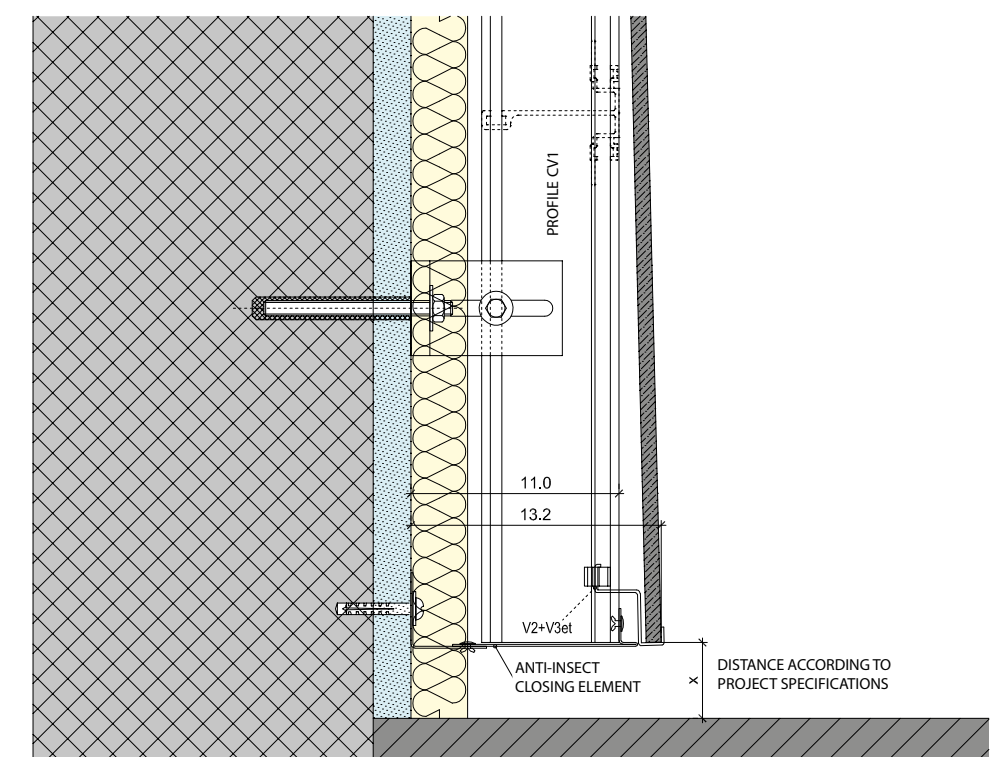
Panaria porcelain tile

Standard solution for mid-section
Vertical section - Scale 1:4



Panaria porcelain tile

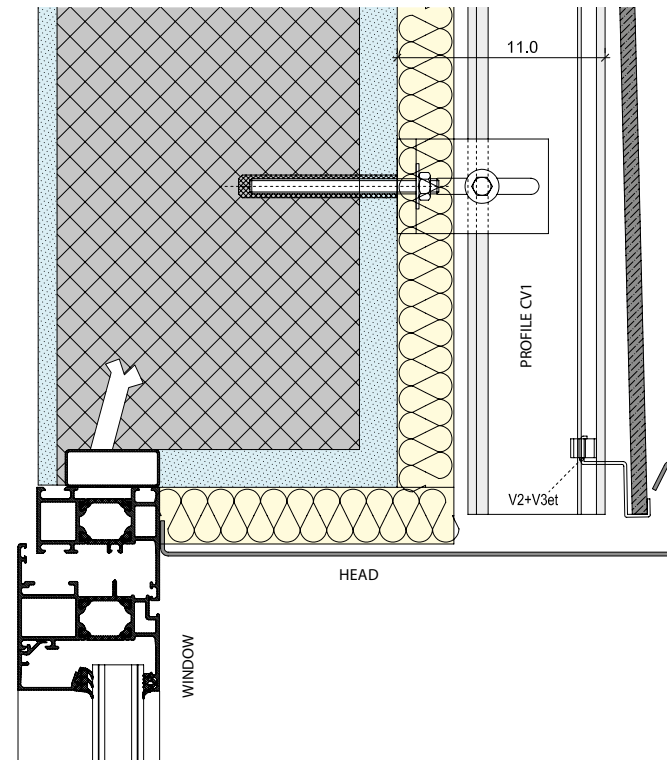
Standard solution for floor end
Vertical section - Scale 1:4



VENERE SORMONTATO SYSTEM PANARIA PORCELAIN STONEWARE

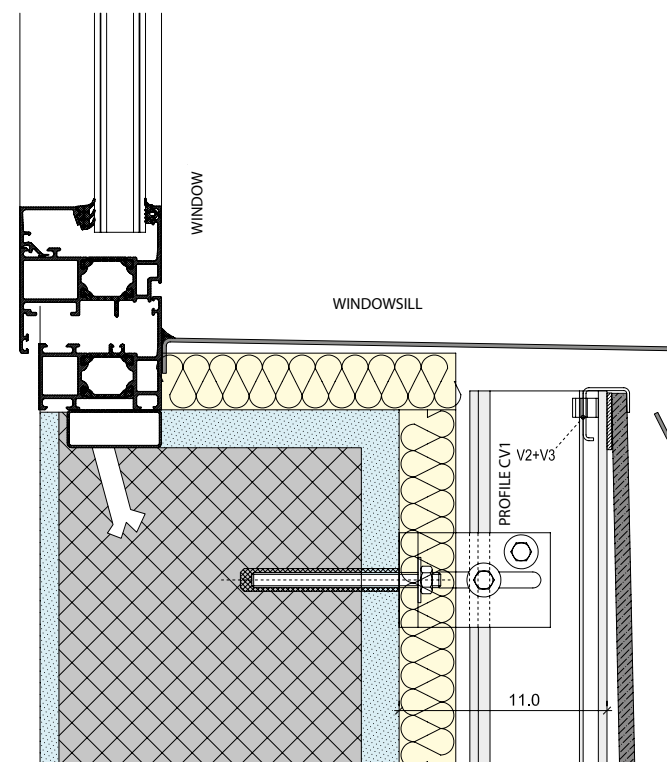
Panaria porcelain tile

Standard solution for window head
Vertical section - Scale 1:4



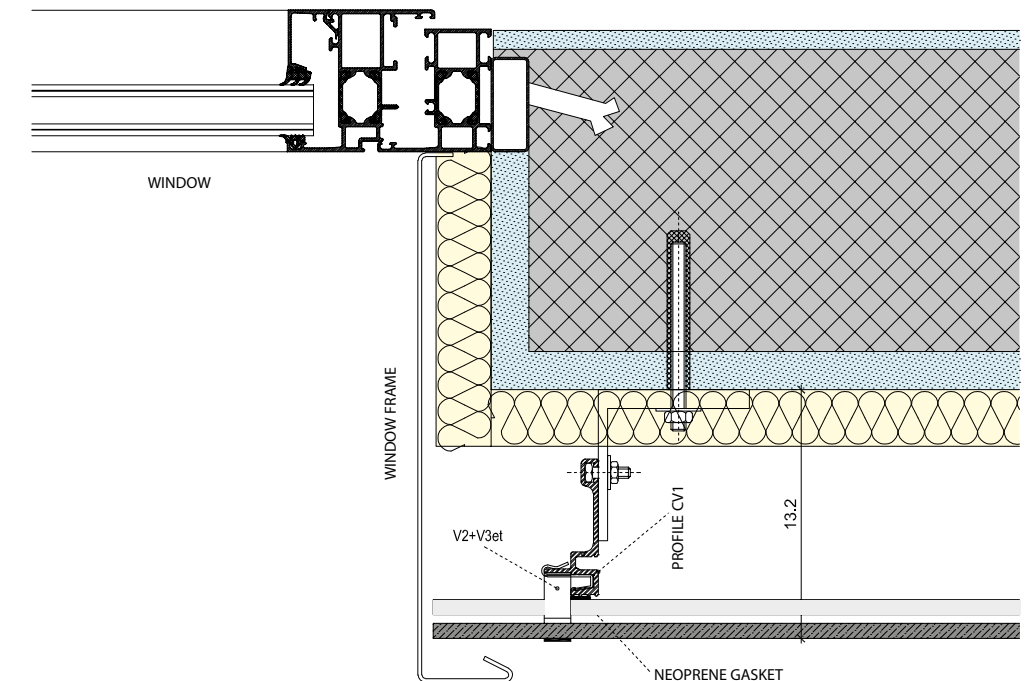
Panaria porcelain tile

Standard solution below windowsill
Vertical section - Scale 1:4



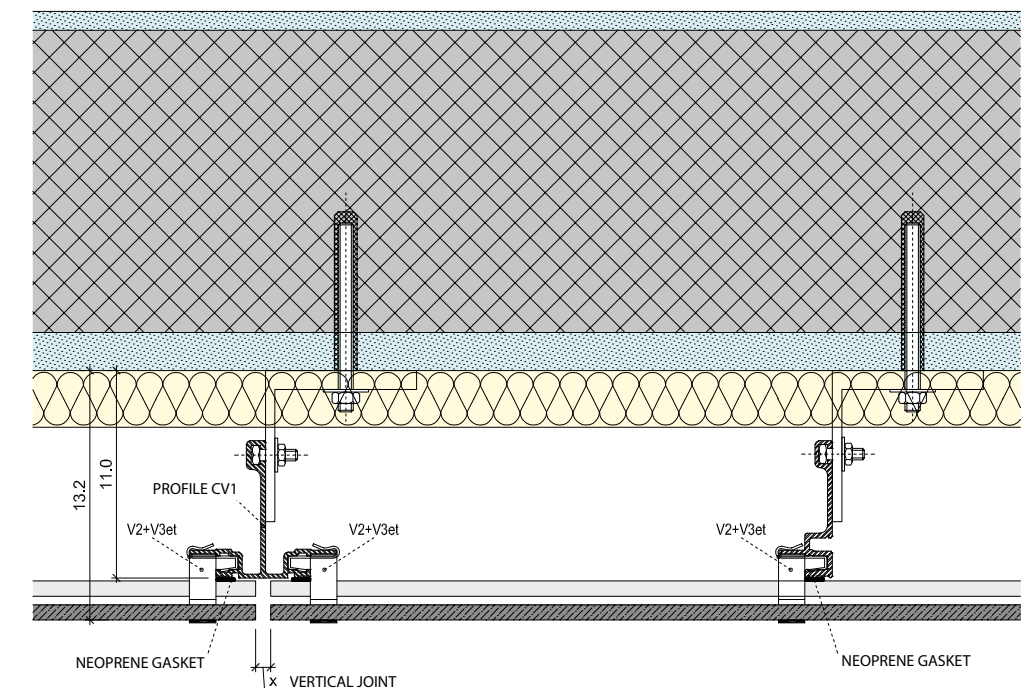
Panaria porcelain tile

Standard solution for windows head
Horizontal section - Scale 1:4



Panaria porcelain tile

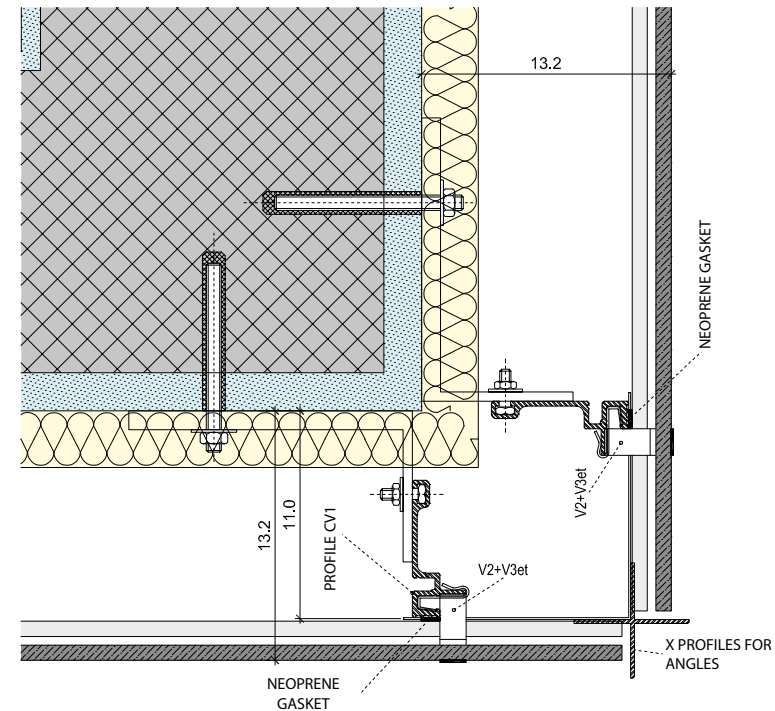
Standard solution for mid-section
Horizontal section - Scale 1:4



VENERE SORMONTATO SYSTEM PANARIA PORCELAIN STONEWARE

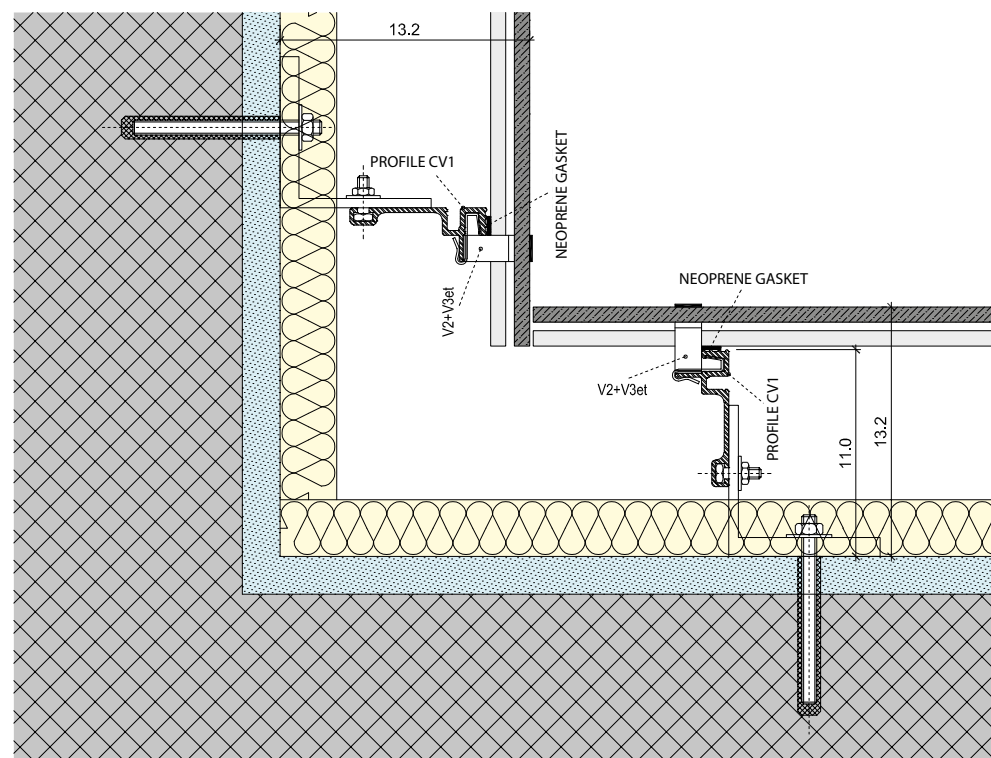
Panaria porcelain tile

Standard solution for external angle
Horizontal section - Scale 1:4



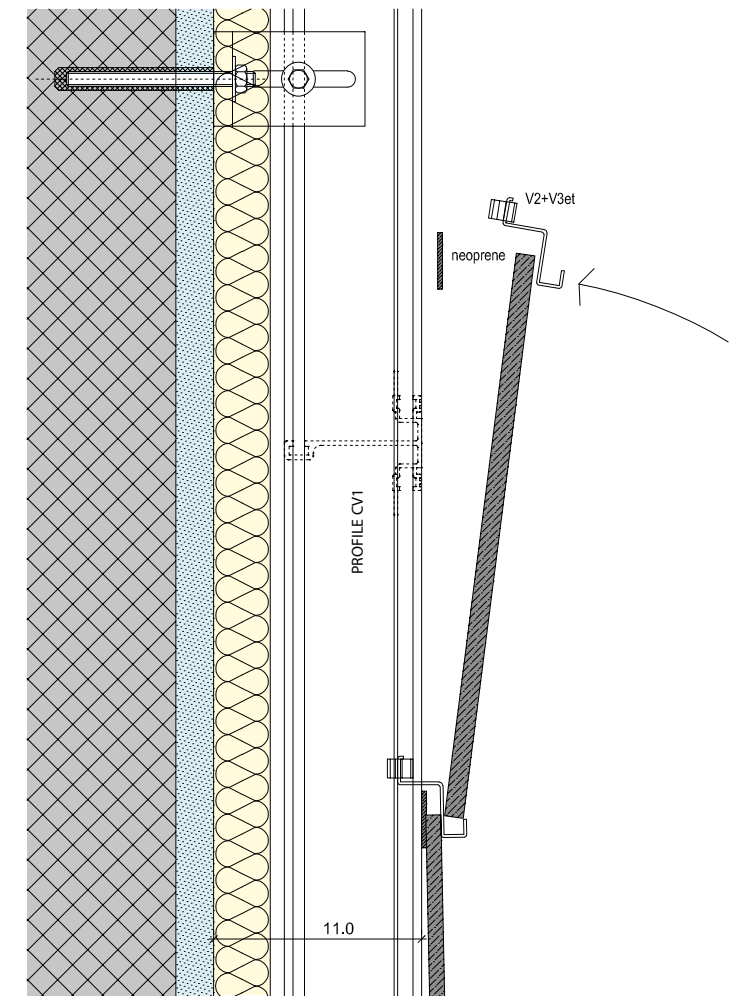
Panaria porcelain tile

Standard solution for internal angle
Horizontal section - Scale 1:4



Panaria porcelain tile

Tile mounting operation
Vertical section - Scale 1:4



11

VENERE SORMONTATO SYSTEM ZERO.3

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES:

ZERO.3 3PLUS or ZERO.3 5PLUS ceramic tiles in laminated porcelain stoneware

OPERATIONS CARRIED OUT ON THE TILE:

None

CLADDING TILE SIZES:

Maximum size 300x50 cm



SYSTEM COMPONENTS

The "Venere" system consists of the following elements:

- Extruded "CV1" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Support hooks of the tiles "V3et" and "V3" stainless steel EN 1.4310 (AISI 301);
- Fixing springs of the hooks to the profile "CV1" type "V2" in stainless steel EN 1.4310 (AISI 301) treated;
- Standard support brackets "A12" and "B12" made from extruded aluminium EN 6060;
- Stainless steel screws, for fixing "CV1" profile to the brackets;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Neoprene sealing strip to improve the bonding between the tiles and the hooks and profiles, of a different thickness as required;
- "Lana" springs in hardened and tempered stainless steel, to support the insulation panels applied to the wall, when required.

SYSTEM DESCRIPTION

The system consists of a vertical aluminium profile "CV1" according to the width of the tile, plus the joint of the project.

The vertical profile "CV1" is shaped to accommodate without drilling the following accessories:

- wall fixing brackets screwed with stainless steel bolts, according to project pitch;
- the hooks "V3et" and "V3" for the support of the tile and the corresponding fixing springs "V2" should be inserted with an appropriate tool in the slot of the vertical element, according to the height of the cladding tile and joint of the project (which is not visible);
- the supporting springs of the insulating panel, if necessary, snapped in.

As there are no holes, no damage is done to the surface protection (caused by oxidation or electrocoloring) and this increases the life-cycle of the profiles.

The main characteristic of this Venere Sormontato system is that each tile is installed in an almost-vertical position, so that the upper tile overlaps the inferior tile by about 1 cm. The tiles can be installed on the cladding very simply, without any further work on their surfaces or edges, by the supporting hooks which are visible from outside the façade. If needed, the hooks can be painted the same colour of the tiles so that they are not visible not even from a small distance from the cladding itself.

Each tile is bonded with the hooks and the vertical profile using neoprene gasket strips of adequate thickness and silicone drops, when needed.

When all the components are put in place, each tile can be installed or dismantled one at a time.

The supporting structure allows any type of adjustment; it is able to protect from wind loads and allows the thermal expansion of the different components.

SYSTEM SIZES:

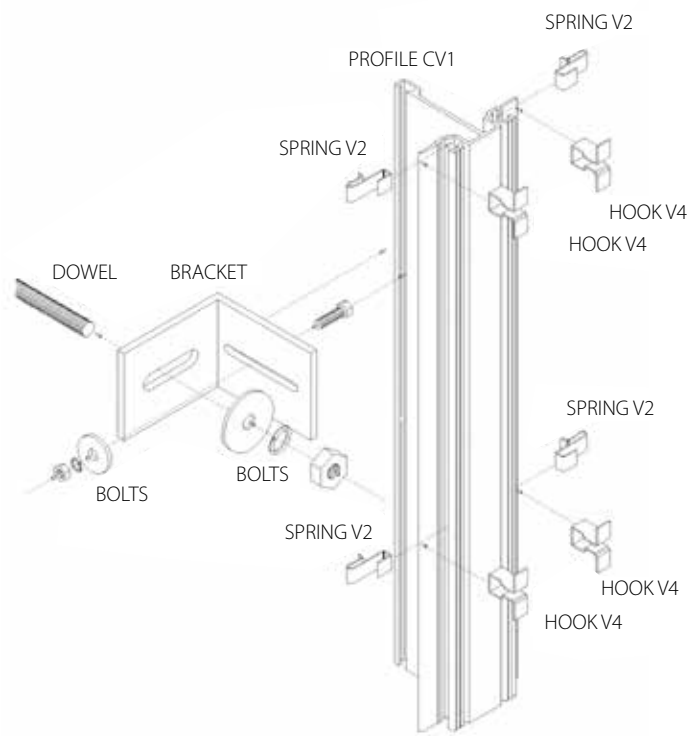
- The standard distance between the wall and the internal face of the tiles is 110 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the tiles for this system is either 3.5 or 5.5 mm.



“VENERE SORMONTATO” SYSTEM ZERO.3

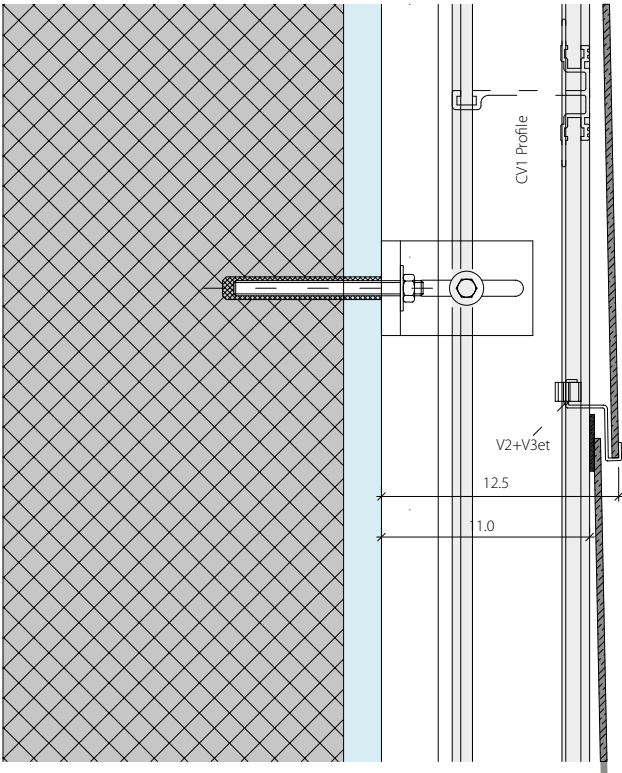
ZERO.3

Components



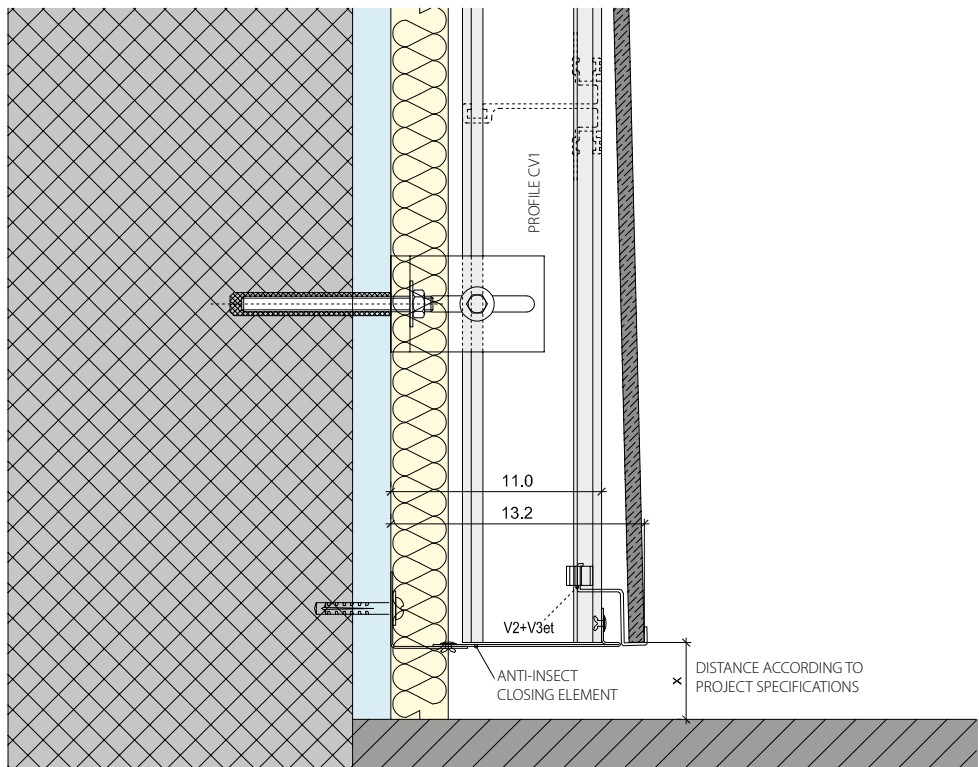
ZERO.3

Standard solution for mid-section
Vertical section - Scale 1:4



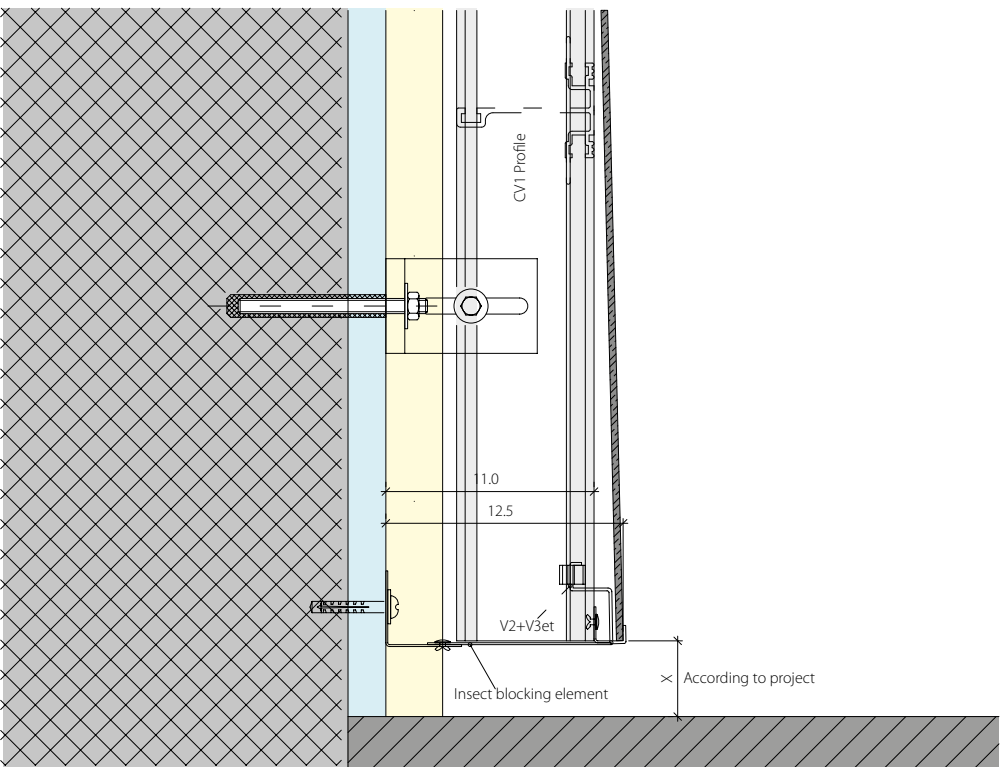
ZERO.3

Standard solution for roof finishing
Vertical section - Scale 1:4



ZERO.3

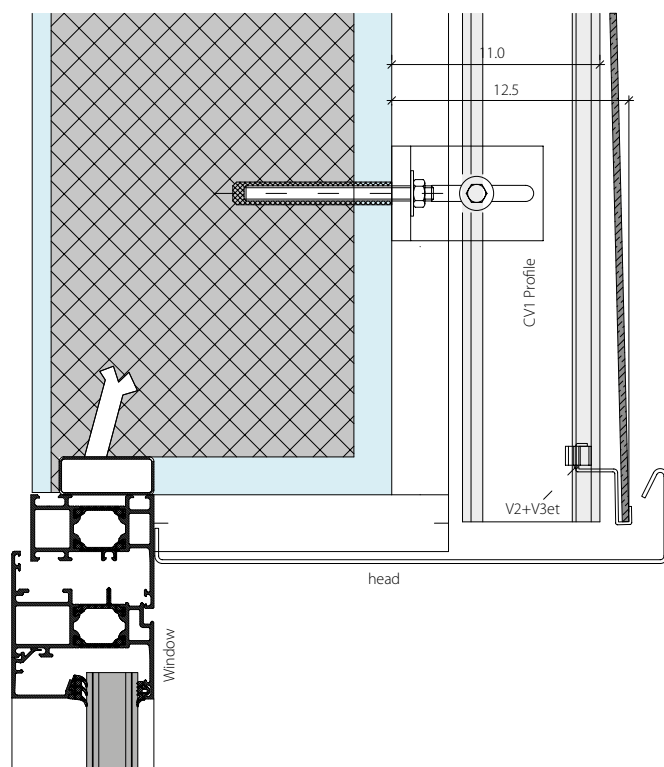
Standard solution for floor end
Vertical section - Scale 1:4



VENERE SORMONTATO SYSTEM ZERO.3

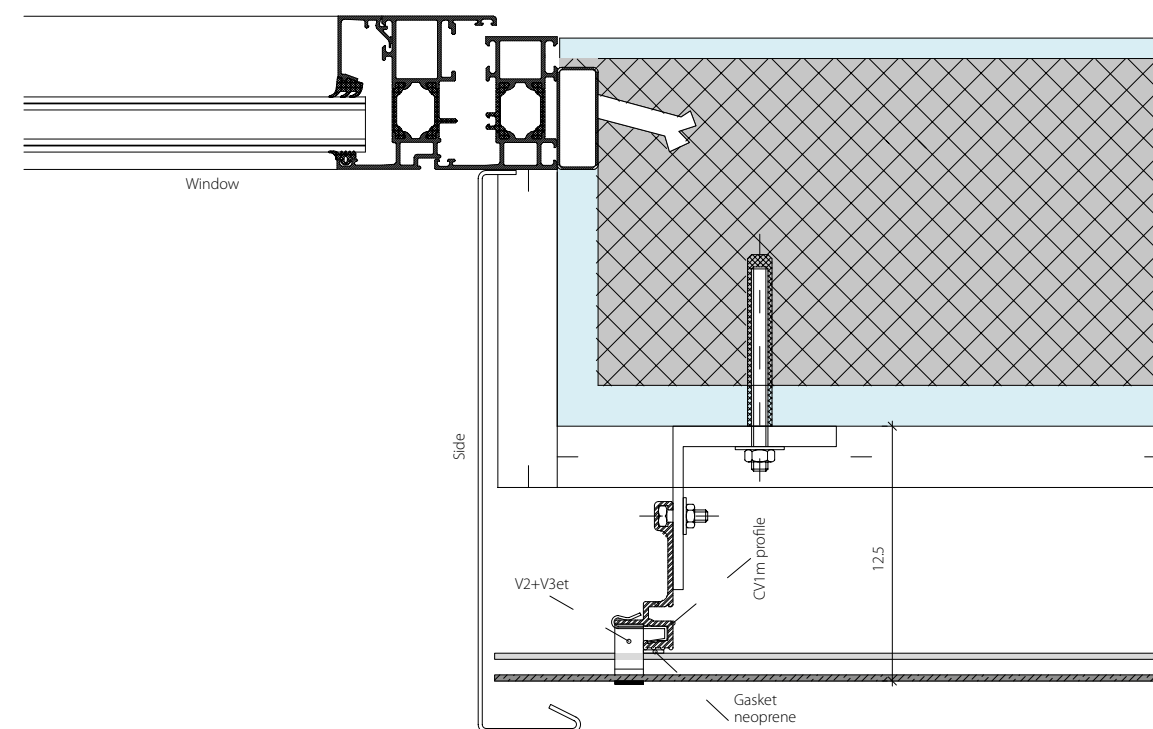
ZERO.3

Standard solution for window head
Vertical section - Scale 1:4



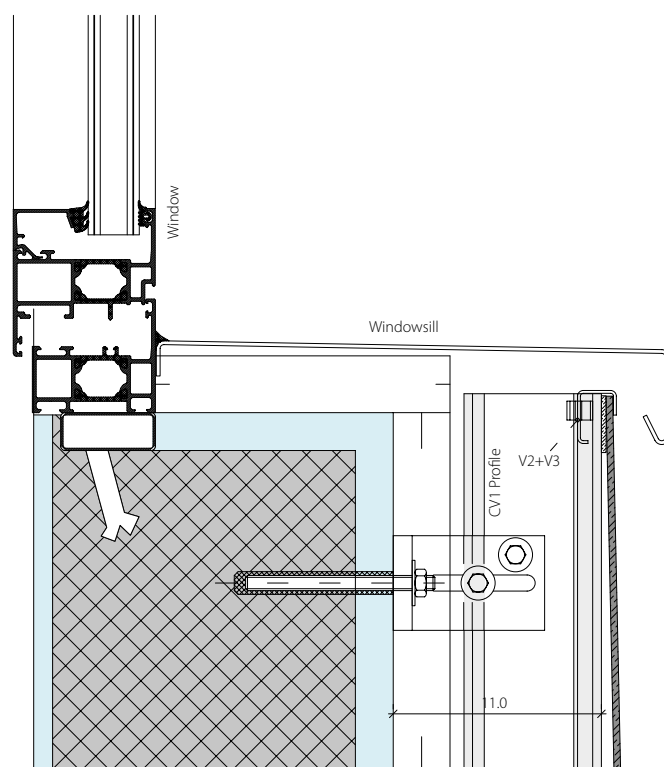
ZERO.3

Standard solution for window head
Horizontal section - Scale 1:4



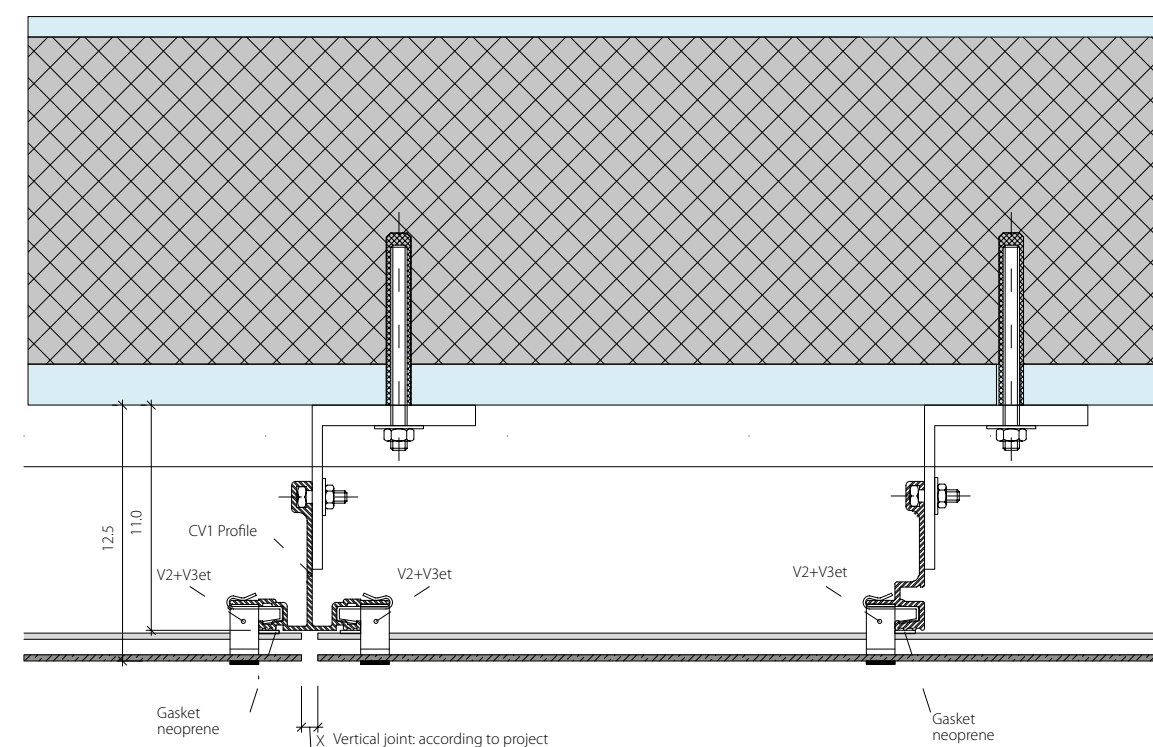
ZERO.3

Standard solution below windowsill
Vertical section - Scale 1:4



ZERO.3

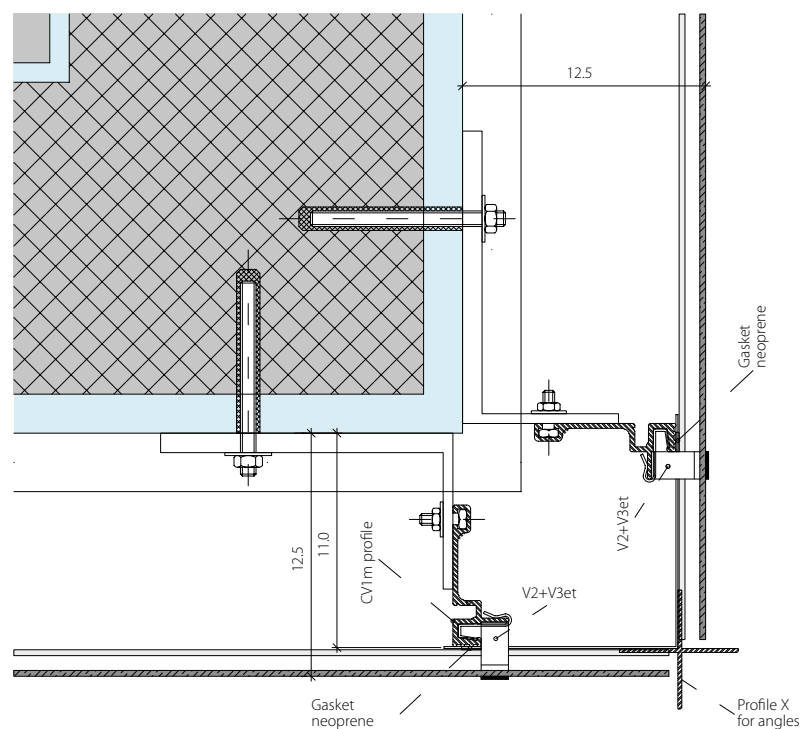
Standard solution for mid-section
Horizontal section - Scale 1:4



VENERE SORMONTATO SYSTEM ZERO.3

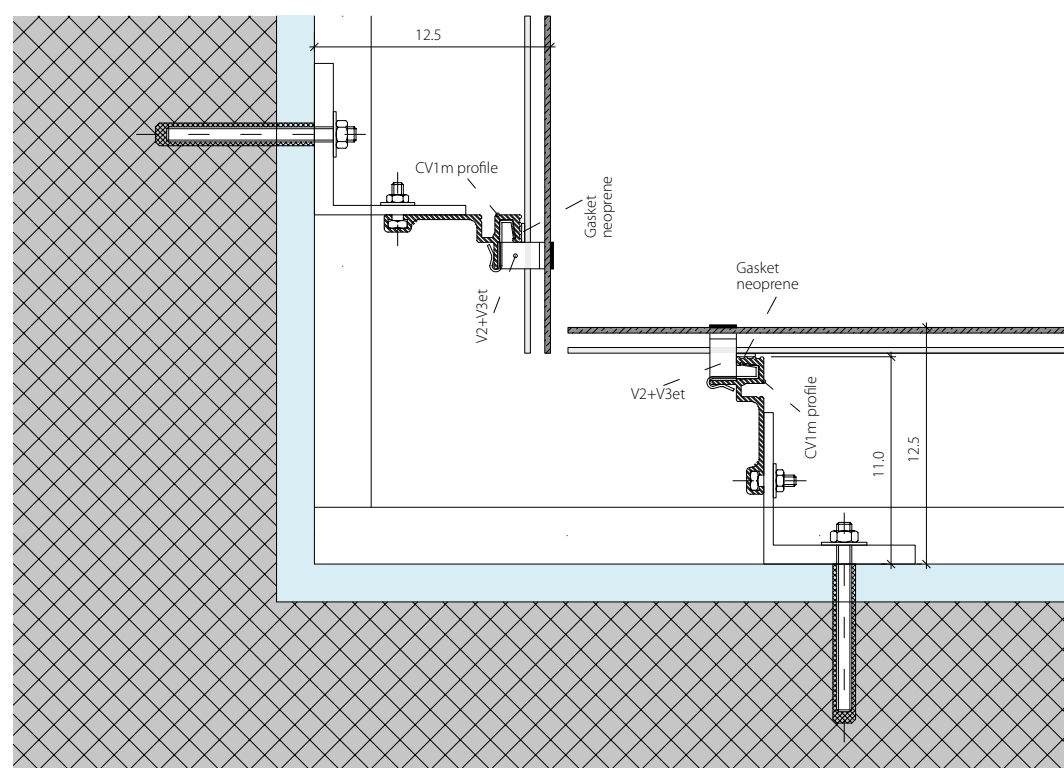
ZERO.3

Standard solution for external angle
Horizontal section - Scale 1:4



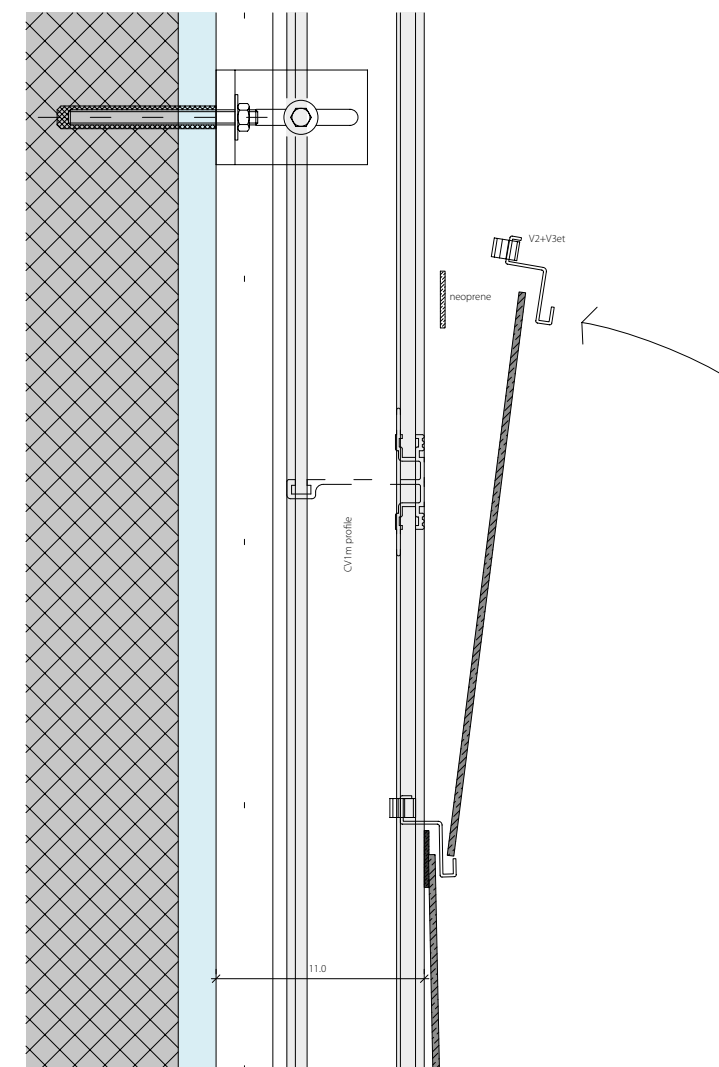
ZERO.3

Standard solution for internal angle
Horizontal section - Scale 1:4



ZERO.3

Tile mounting operation
Vertical section - Scale 1:4



SIRIO SYSTEM ZERO.3

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES:

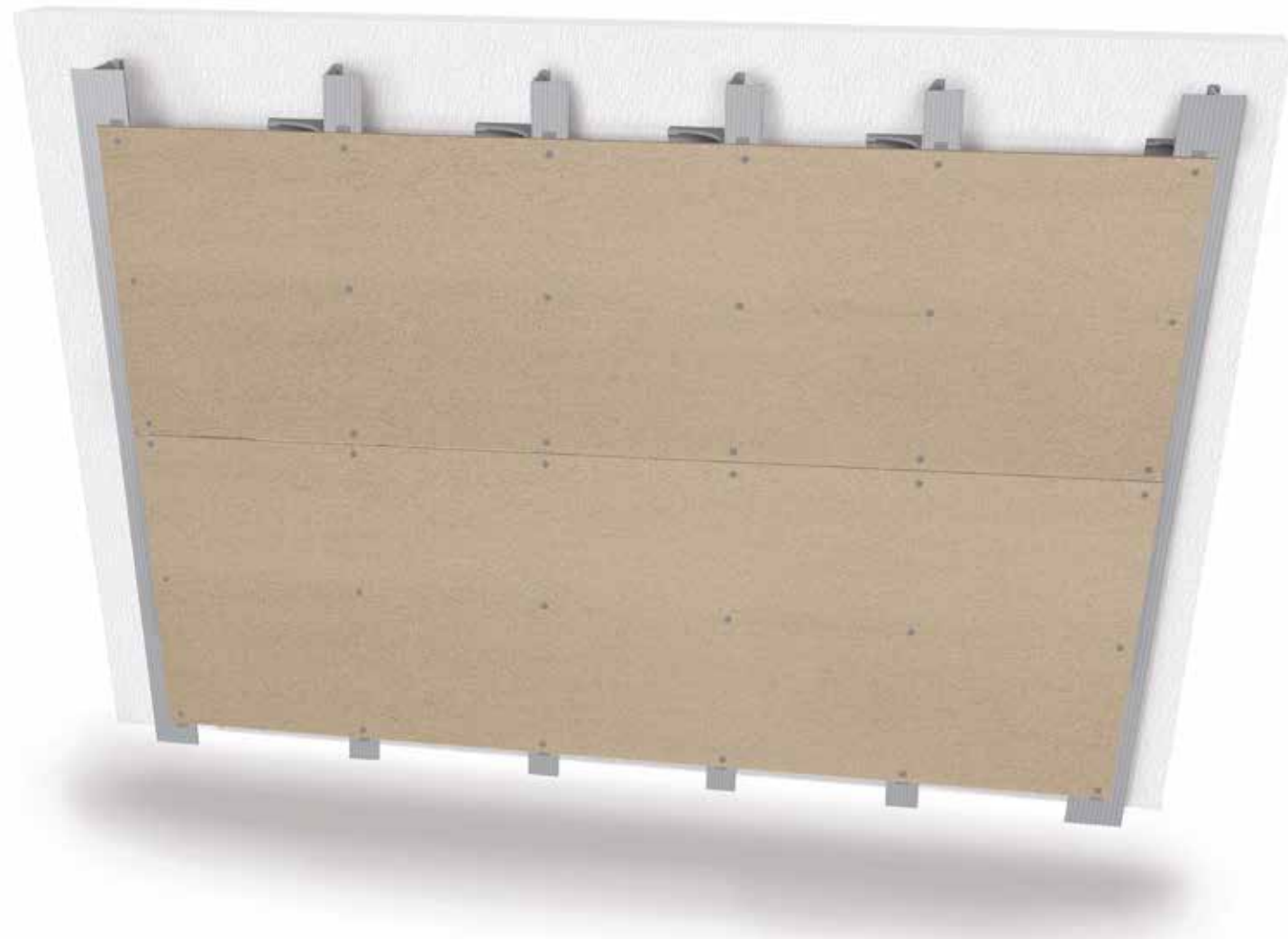
ZERO.3 3PLUS or ZERO.3 5PLUS ceramic tiles in laminated porcelain stoneware

OPERATIONS CARRIED OUT ON THE TILE:

Through drilling

CLADDING TILE SIZES:

Maximum size 300x100 cm



SYSTEM COMPONENTS

The "Sirio" system consists of the following elements:

- Extruded "ET1" and "ET1m" profiles in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Aluminium rivets EN 6060 T5 with large head to fix the tile to the profile (or other fasteners, according to project);
- Standard support brackets "A12" and "B12" made from extruded aluminium EN 6060;
- Screws for fixing "ET1" and "ET1m" profiles to the brackets, stainless steel class A2;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Neoprene sealing strip to improve the bonding between the tiles and the profiles, of a different thickness as required;

SYSTEM DESCRIPTION

The system consists of a vertical profile of aluminium "ET1" placed according to the width of the tile and the joint of project, and a profile "ET1m" in intermediary points. Their pitch is determined by the width of the tiles and installation requirements.

The vertical profiles "ET1" and "ET1m" are shaped in such a way as to:

- be attached to the wall fixing brackets with stainless steel bolts, according to project pitch;
- provide an adequate surface to support the tiles, and a solid element for the application of the rivets (or other fasteners) for the fixing of the tiles.

Profiles can be supplied plain or electro-coloured, on request.

Each tile is bonded with the hooks and the vertical profile using neoprene gasket strips of adequate thickness and silicone drops, when needed.

The main characteristic of the "Sirio" system is that the tiles are mounted by means of rivets that are visible from outside; therefore tiles must be drilled before laying. The drilling diagram of the tiles with the sizes of holes and their positions is made in line with the technical instructions given by the manufacturer of the tiles to guarantee their optimal utilization and their longest life.

Depending on the architect's instructions, rivets (or the other fixing materials) can be plain or painted in the same colour of the tiles to appear almost invisible from very close.

SYSTEM SIZES:

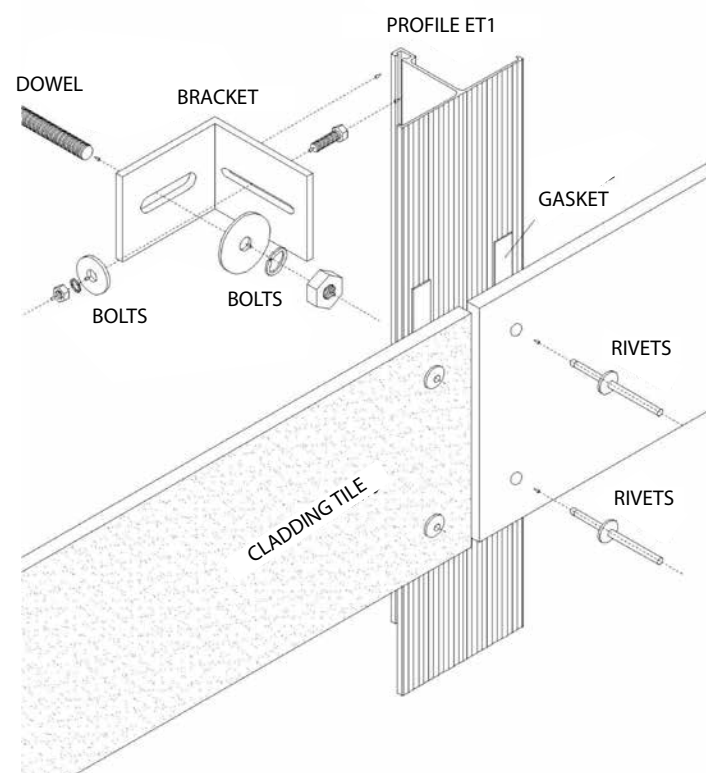
- The standard distance between the wall and the internal face of the tiles is 110 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the tiles for this system is either 3.5 or 5.5 mm.



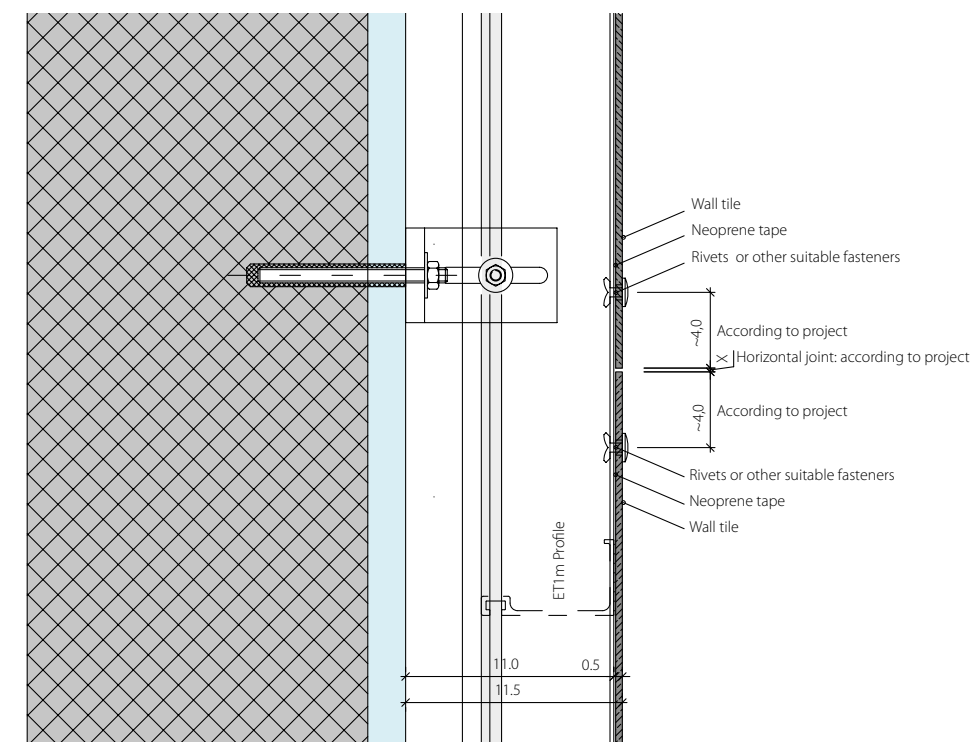
SIRIO SYSTEM ZERO.3

ZERO.3

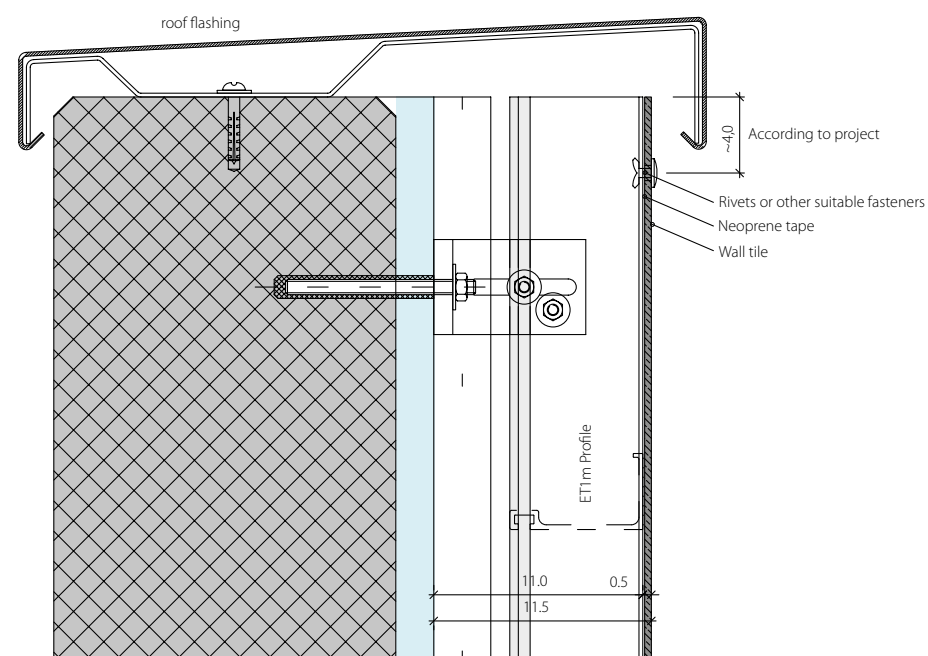
Components



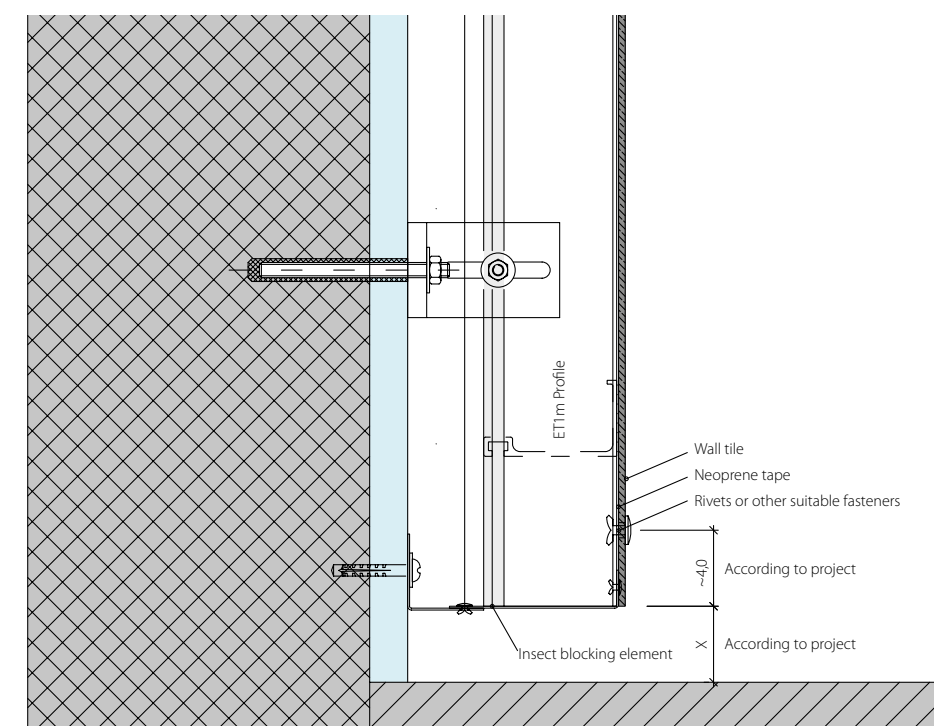
ZERO.3

Standard solution for mid-section
Vertical section - Scale 1:4

ZERO.3

Standard solution for roof finishing
Vertical section - Scale 1:4

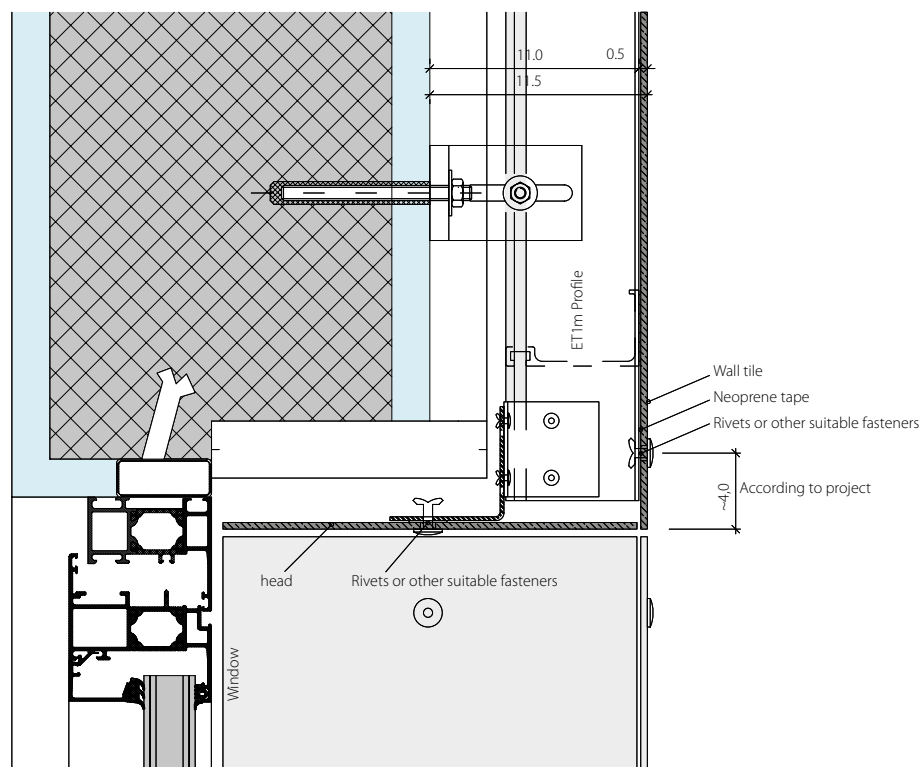
ZERO.3

Standard solution for floor end
Vertical section - Scale 1:4

SIRIO SYSTEM ZERO.3

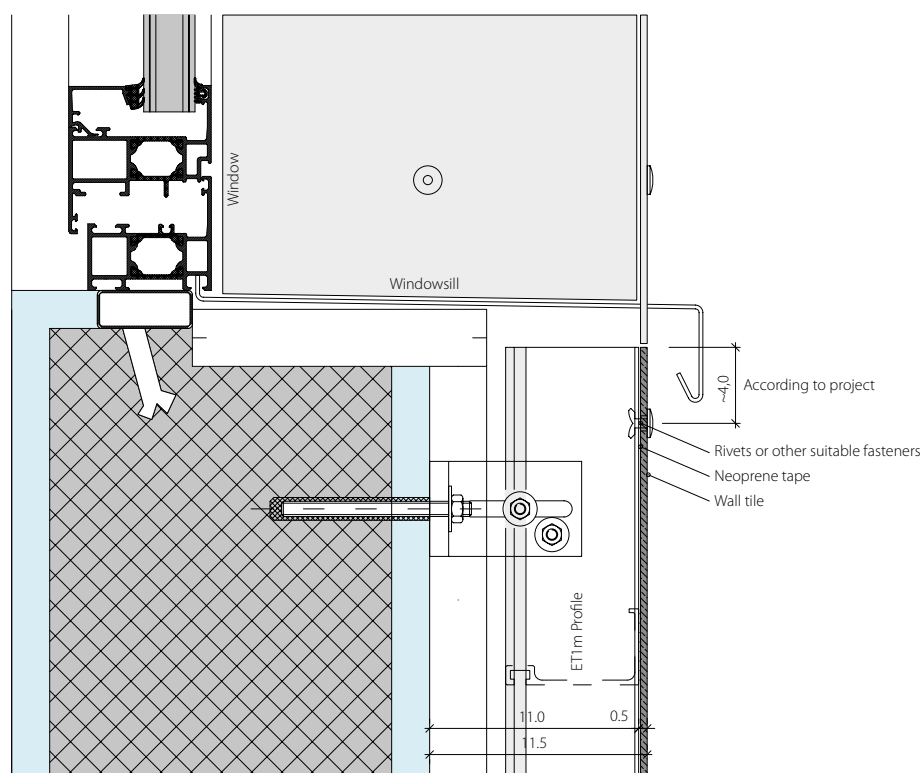
ZERO.3

Standard solution for window head
Vertical section - Scale 1:4



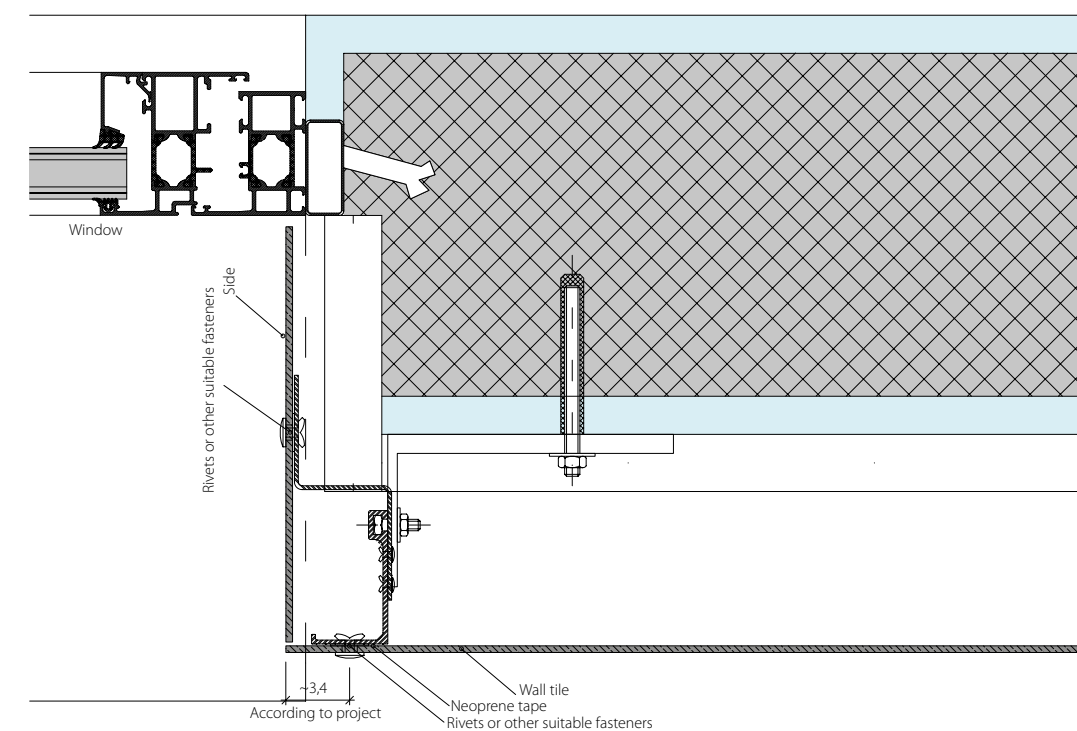
ZERO.3

Standard solution below windowsill
Vertical section - Scale 1:4



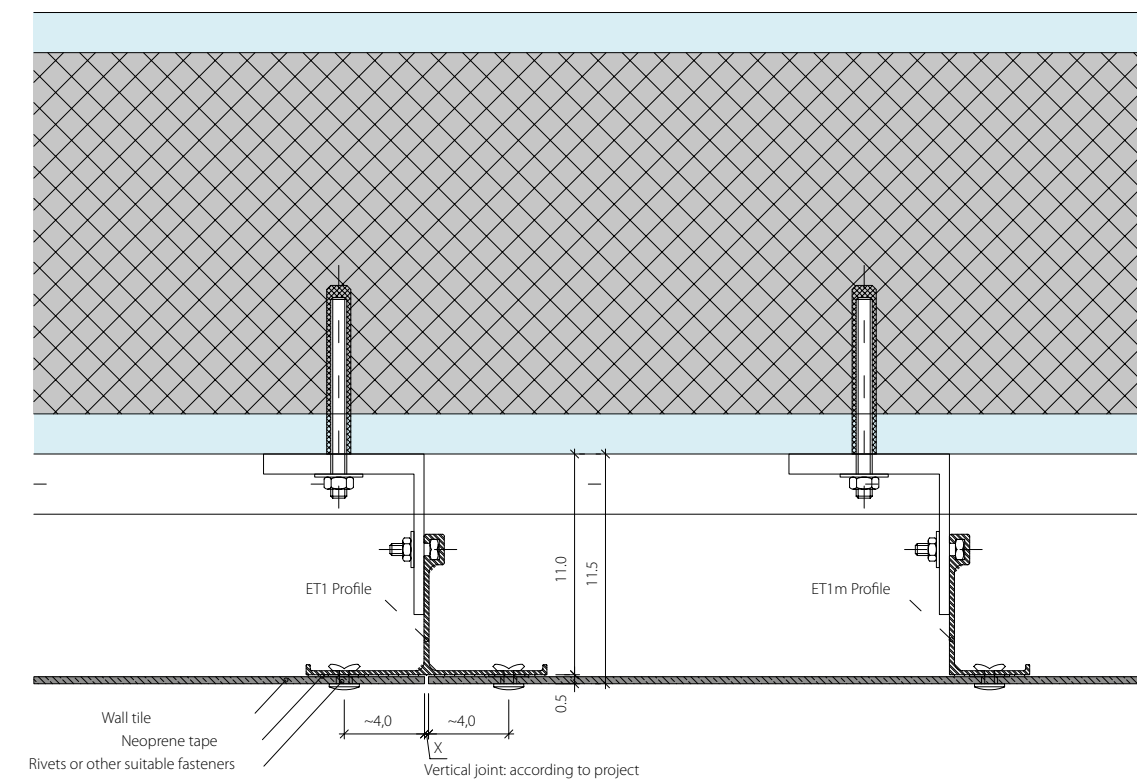
ZERO.3

Standard solution for window head
Horizontal section - Scale 1:4



ZERO.3

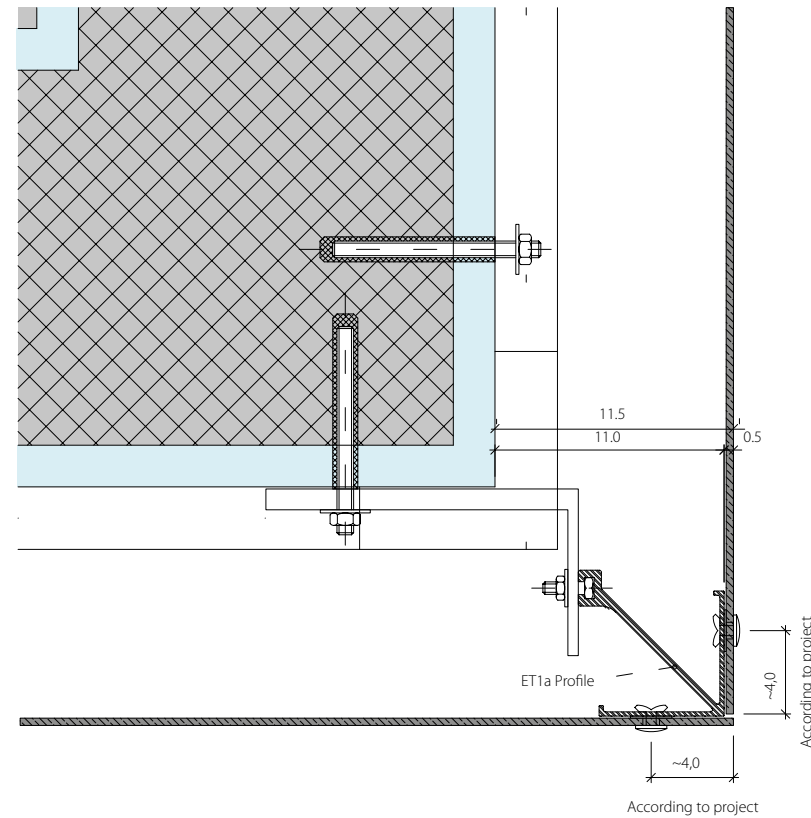
Standard solution for mid-section
Horizontal section - Scale 1:4



SIRIO SYSTEM ZERO.3

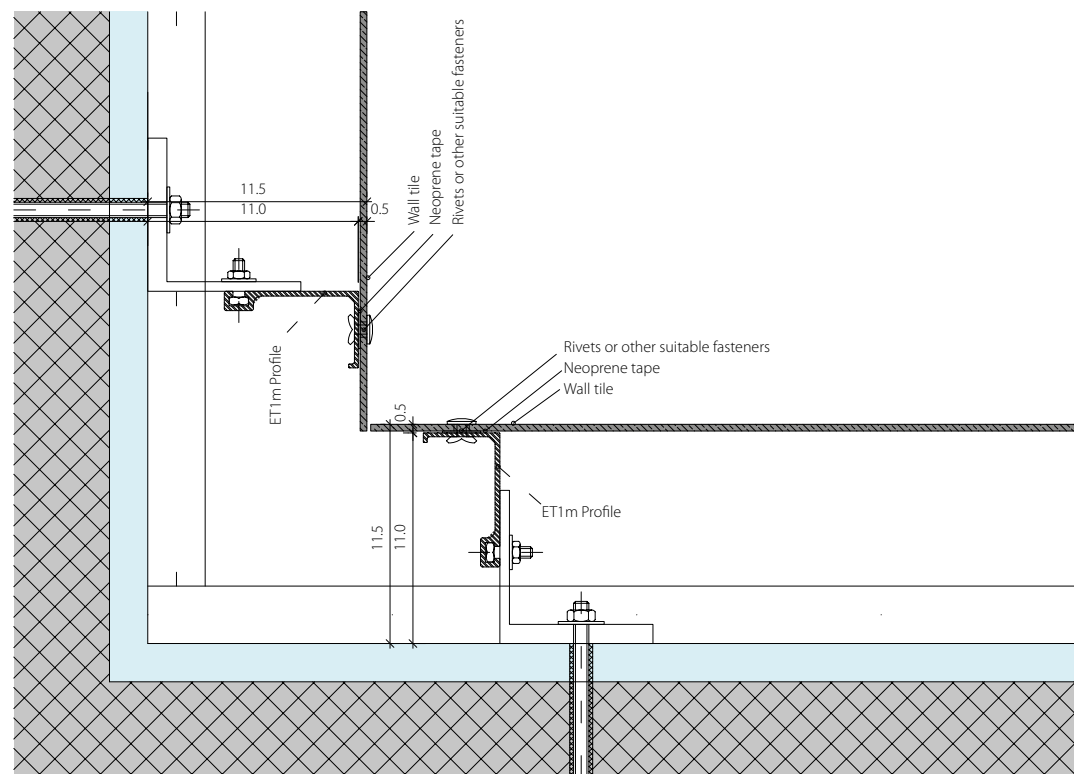
ZERO.3

Standard solution for external angle
Horizontal section - Scale 1:4



ZERO.3

Standard solution for internal angle
Horizontal section - Scale 1:4



ZERO.3

Tile mounting operation
Vertical section - Scale 1:4

