

COTTOD'ESTE
EXCLUSIVE SURFACES



**VENTILATED
FACADES**

TECHNICAL MANUAL

VENTILATED FACADES

The term “ventilated façades” refers to an opaque wall with an outer coating composed of discontinuous elements made of Panariagroup ceramic surfaces of large sizes. These elements are installed “dry” with a mechanical or chemical-mechanical bond. Between these

ceramic surfaces and the wall behind, a space is created that allows air circulation. Their technical characteristics, combined with their unique beauty, make ceramic surfaces ideal for ventilated wall systems.

RESISTANT



FROST-RESISTANT



FIRE-PROOF



RESISTANT TO STAINS, ACIDS
AND CHEMICAL AGENTS



MINIMUM WATER
ABSORPTION



RESISTANT
TO MOULD AND BACTERIA



HIGH RESISTANCE
TO THERMAL SHOCK



RESISTANT TO ATMOSPHERIC
AGENTS



RESISTANT TO STAINS AND SMOG



SUPERIOR MECHANICAL
STRENGTH

FUNCTIONAL



LIGHT AND EASY TO INSTALL



EASY TO RESTORE ORIGINAL
APPEARANCE IN CASE OF
VANDALISM OR GRAFFITI



EASY TO CLEAN

VERSATILE



EASY TO INSTALL



COLORS ARE RESISTANT TO
SUNLIGHT AND AGING



CAN BE INSTALLED WITH
DIFFERENT ANCHORING SYSTEMS

ECO-FRIENDLY



ECO-FRIENDLY



LEED COMPLIANT

Ventilated walls with hidden anchors

LUNA SLOT system

In partnership with **DALLERA**

Mechanical bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



LAMINATED PORCELAIN STONEWARE

- Formats: all formats of product range
- Type: double-layer laminated porcelain stoneware



GEOS system

In partnership with **GEOS ITALY**

Mechanical bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



LAMINATED PORCELAIN STONEWARE

- Formats: all formats of product range
- Type: laminated porcelain stoneware 5plus-6plus



ADERMA system

In partnership with **ADERMA**

Mechanical bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



PROGEST system

In partnership with **PROGEST**

Structurally adhered bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



LAMINATED PORCELAIN STONEWARE

- Formats: all formats of product range
- Type: laminated porcelain stoneware 3plus-5plus-6plus



GENIUS LIGHT system

In partnership with **FISCHER**

Mechanical bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



Ventilated walls with visible anchors

LUNA VISTA system

In partnership with **DALLERA**

Mechanical bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



LAMINATED PORCELAIN STONEWARE

- Formats: all formats of product range
- Type: laminated porcelain stoneware 3plus-5plus-6plus



VENERE SORMONTATO system

In partnership with **DALLERA**

Mechanical bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



LAMINATED PORCELAIN STONEWARE

- Formats: up to 300x50 cm
- Type: laminated porcelain stoneware 3plus-5plus-6plus



SIRIO system

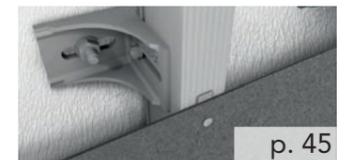
In partnership with **ADERMA**

Mechanical bonding

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

LAMINATED PORCELAIN STONEWARE

- Formats: all formats of product range
- Type: laminated porcelain stoneware 3plus-5plus-6plus



SIMPLE system

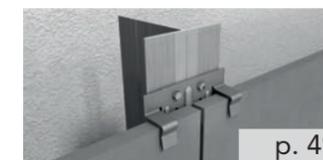
In partnership with **FISCHER**

Mechanical bonding

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

PORCELAIN STONEWARE

- Formats: all formats of product range
- Thicknesses: from 9.5 to 20 mm



In partnership with **DALLERA**

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES

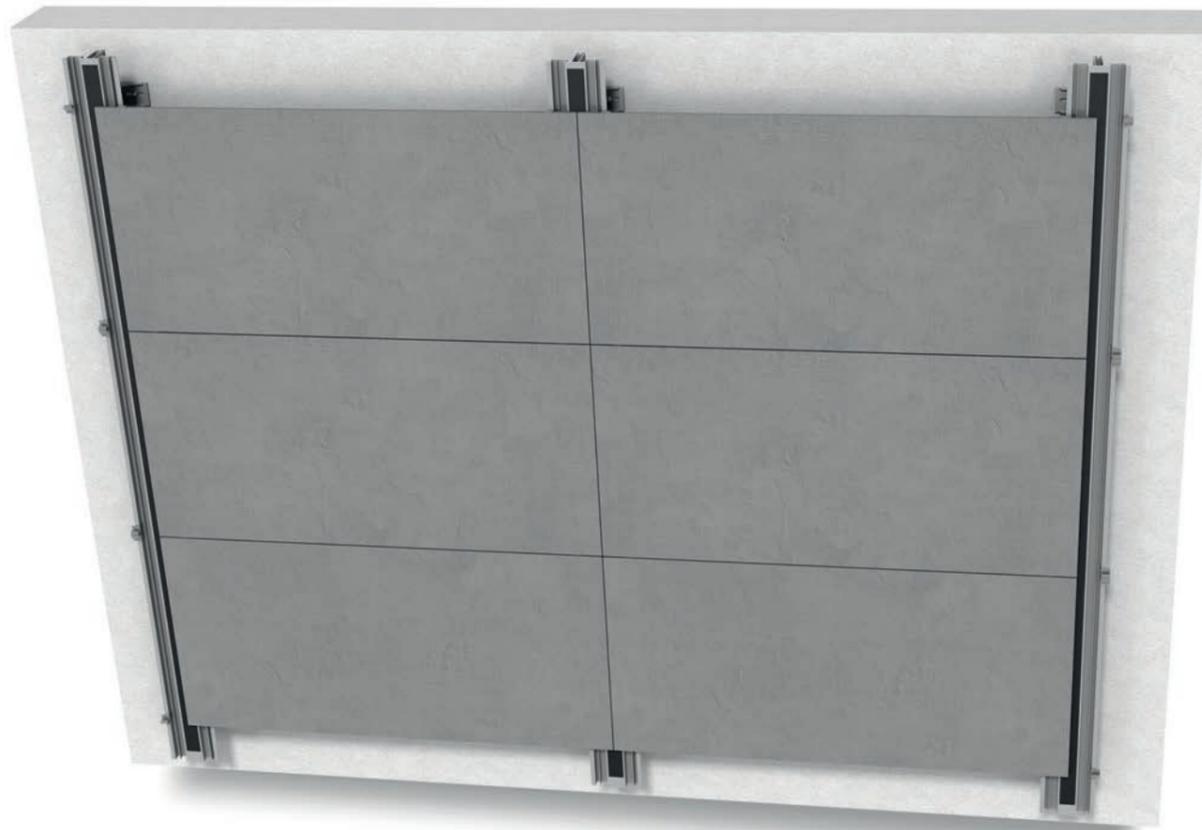
Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

Slots on the horizontal sides

CLADDING TILE SIZES

All sizes of product range



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.

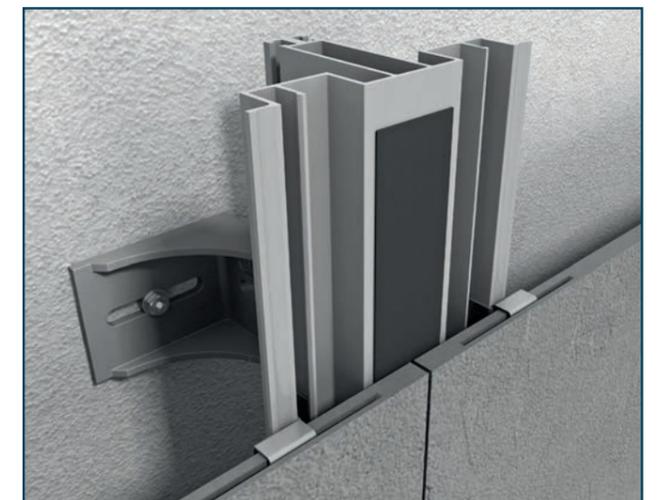
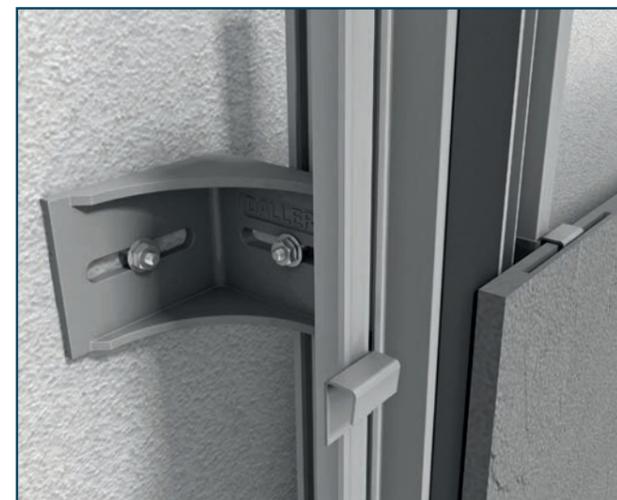
Structural adhesive is also applied between the lateral edges of the profile and the back of the tile to improve the mechanical support of the system.

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

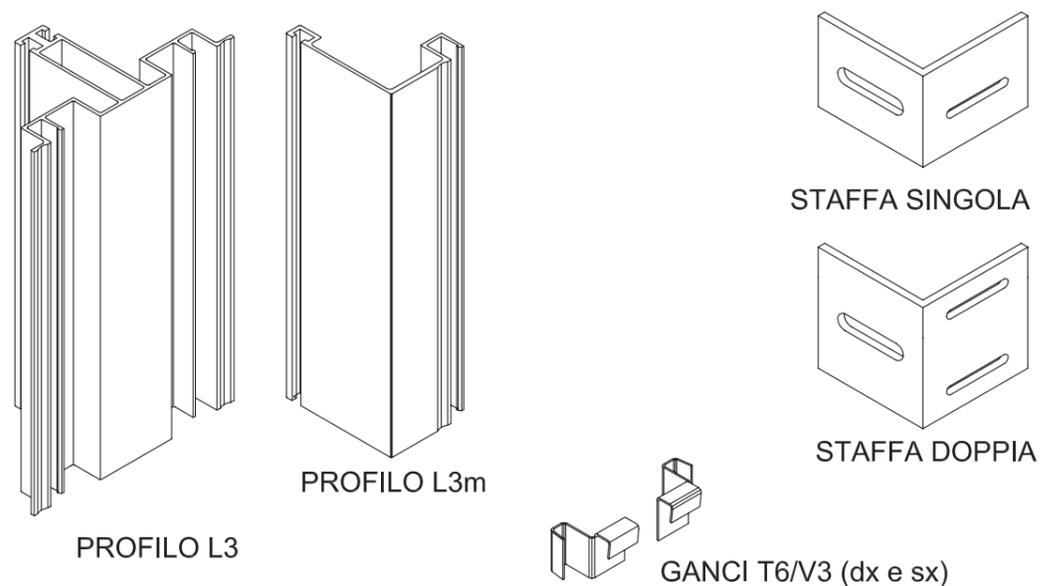
System sizes

- The standard distance between the wall and the back side of the tile is 130 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the tiles for this system is from 9.5 to 20 mm.



In partnership with DALLERA

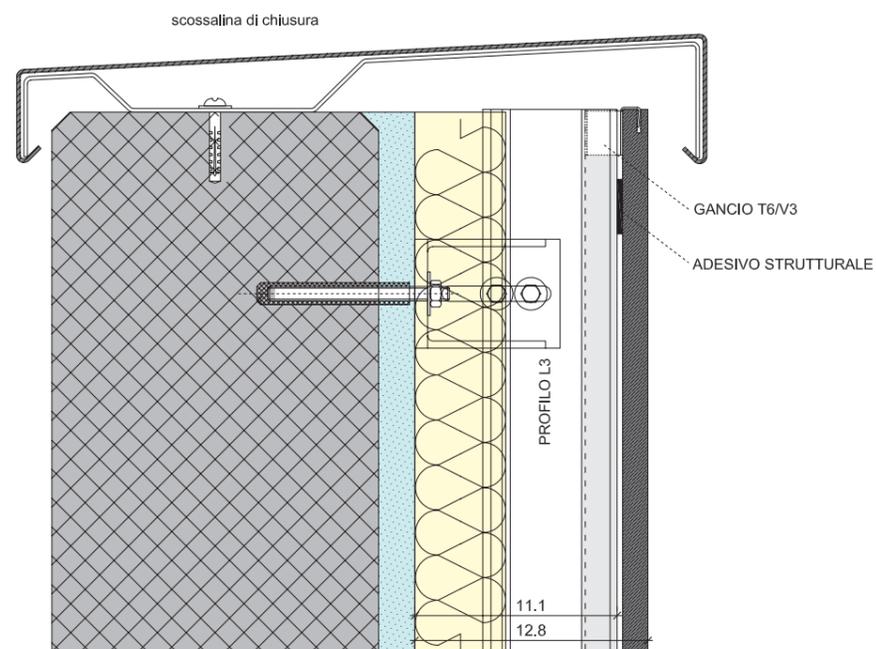
Standard components



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

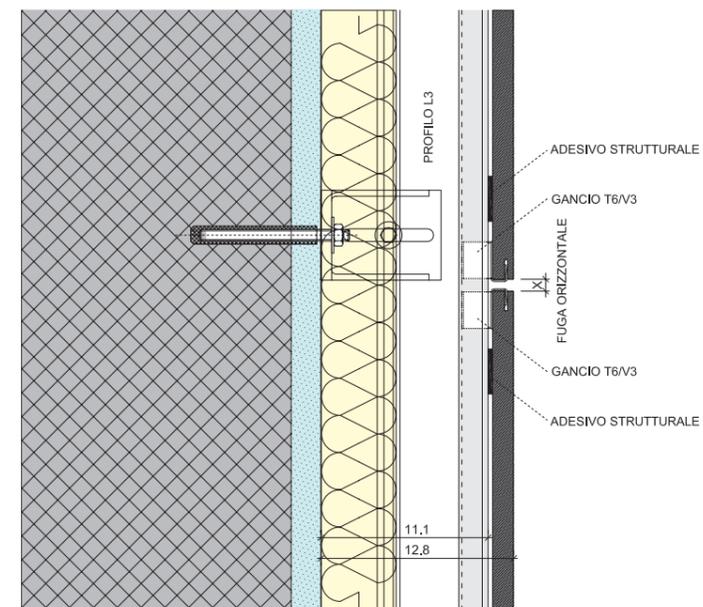
Standard solution for roof finishing

Vertical section - Scale 1:4



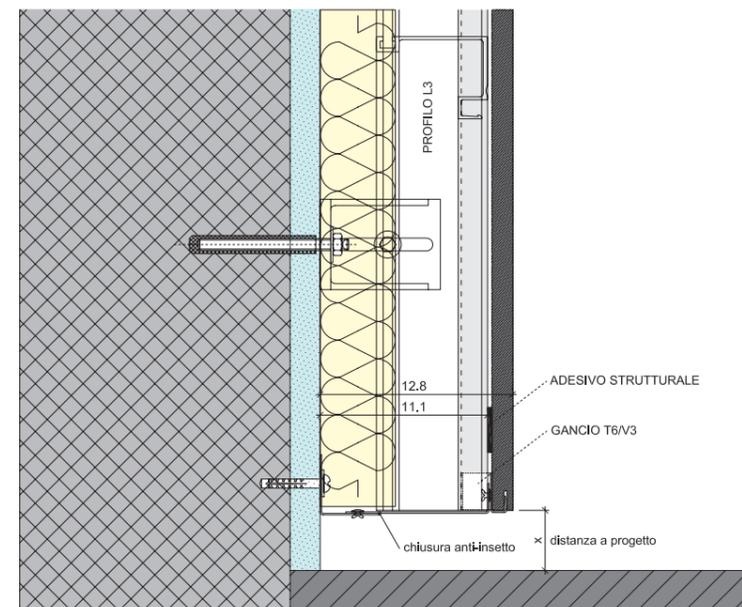
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for floor end

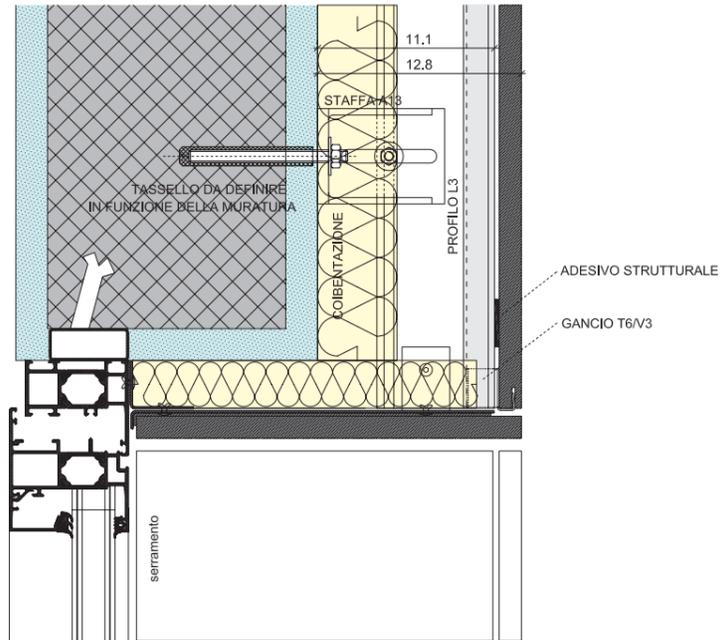
Vertical section - Scale 1:4



In partnership with DALLERA

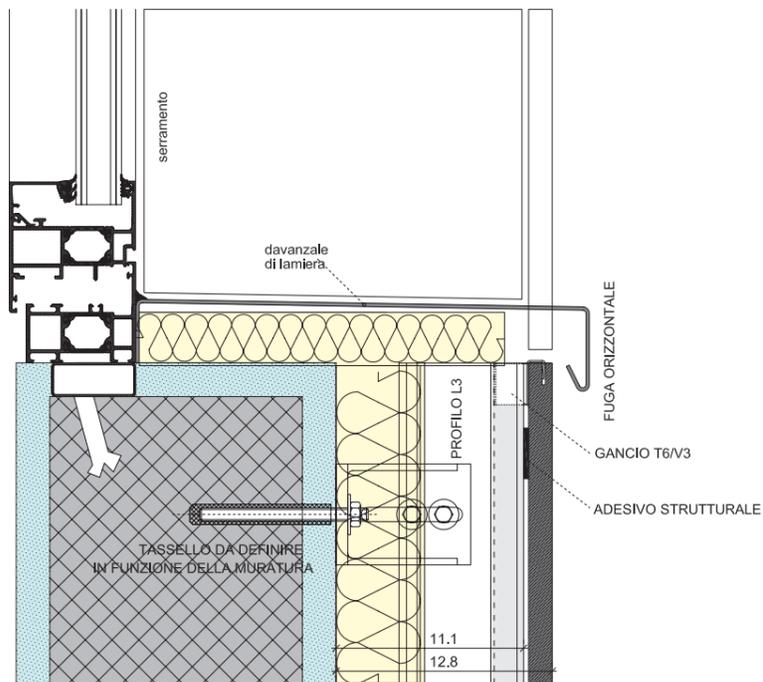
Standard solution for window head

Vertical section - Scale 1:4



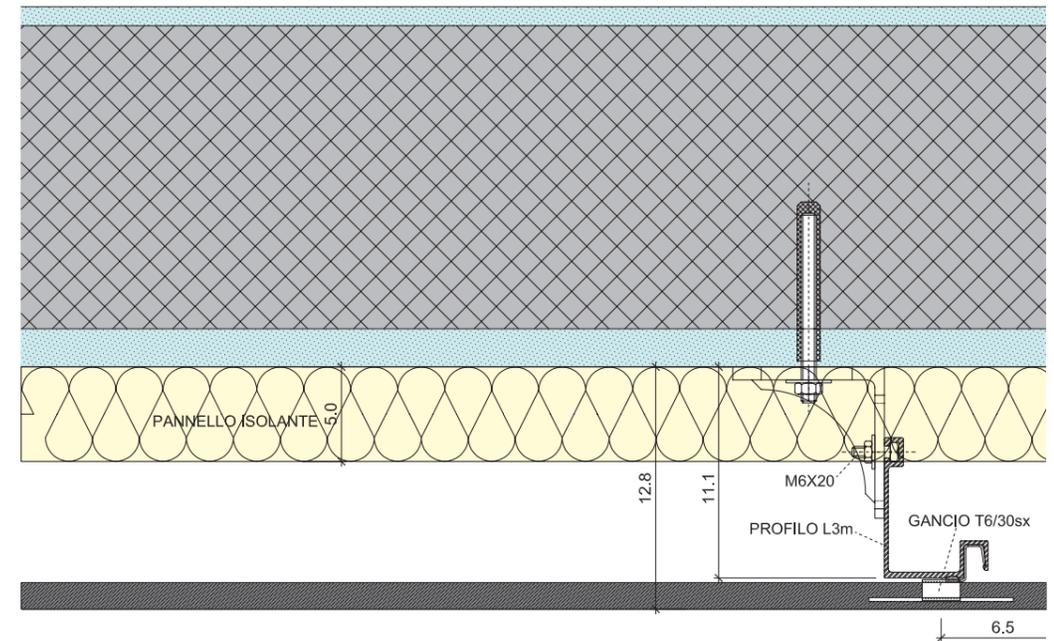
Standard solution below windowsill

Vertical section - Scale 1:4



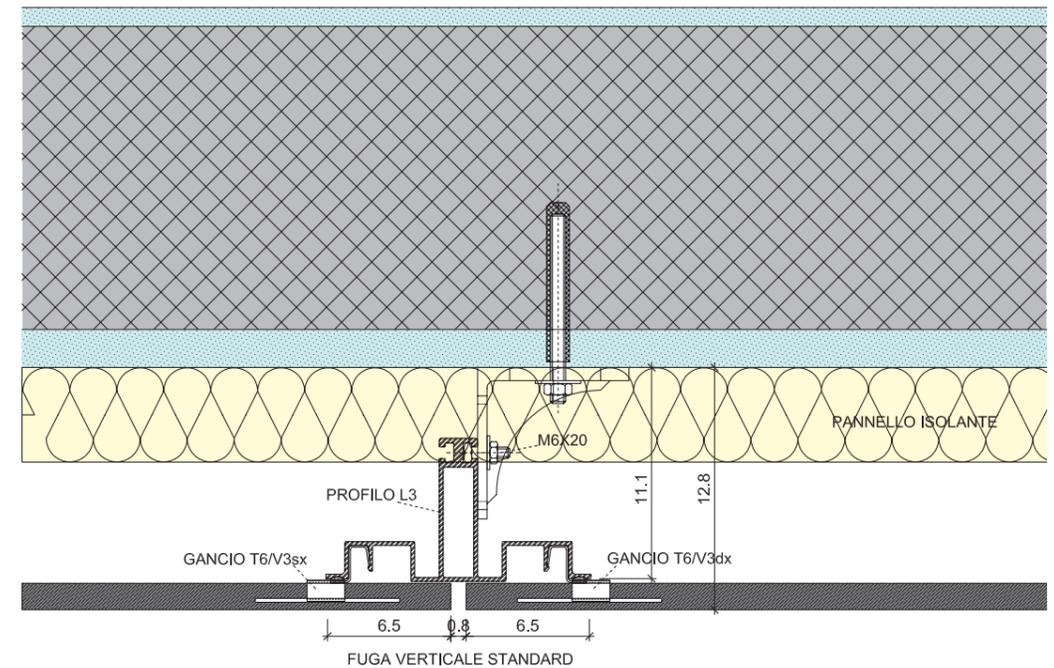
Standard closing solution

Vertical section - Scale 1:4



Standard solution for mid-section

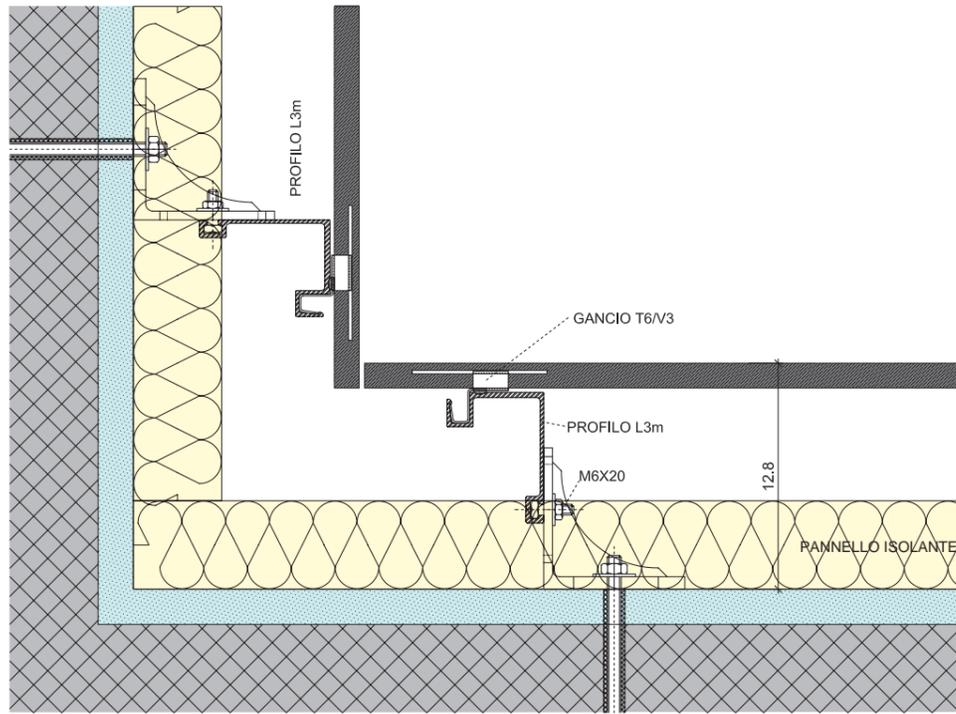
Vertical section - Scale 1:4



In partnership with DALLERA

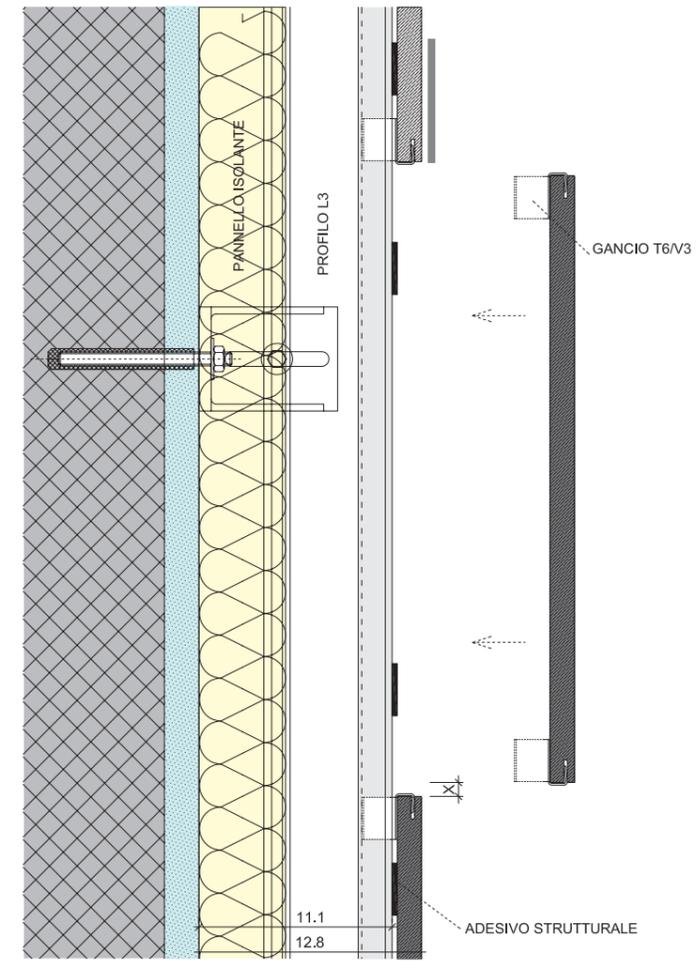
Standard solution for internal angle

Vertical section - Scale 1:4



Tile mounting operation

Vertical section - Scale 1:4



LUNA SLOT System LAMINATED PORCELAIN STONEWARE

In partnership with **DALLERA**

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING SLABS

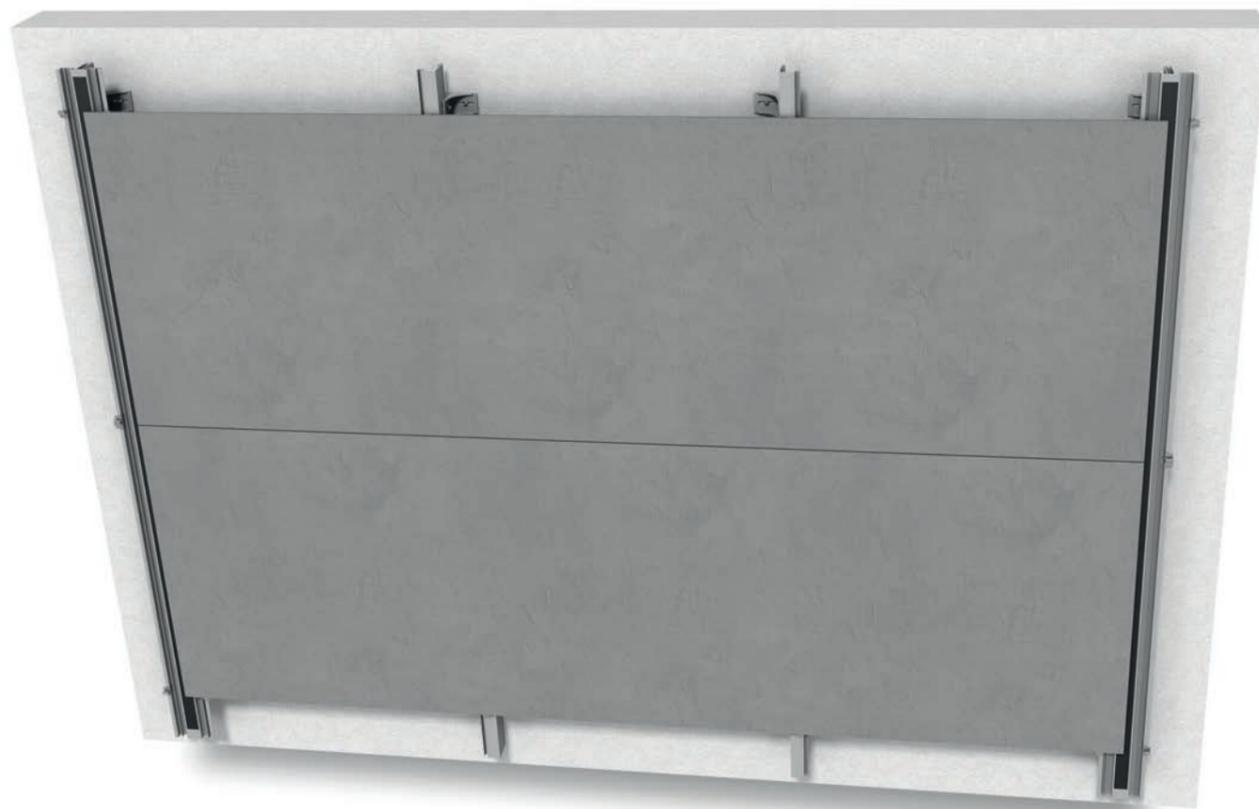
Double-layer laminated porcelain stoneware slabs with a thickness of approximately 8 mm (5mm + 3mm)

OPERATIONS CARRIED OUT ON THE SLAB

Slots on the horizontal sides

CLADDING SLABS SIZES

All sizes of product range



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 slabs "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 slabs 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 slab, 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 slabs.

The cladding slabs are held in place by means of hooks which are inserted into the slots previously machined on the edge of the slabs and which fit into the grooves of the profiles "L3". Each slab 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 slab and the load on the wall.

Structural adhesive is also applied between the lateral edges of the profile and the back of the slab 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.

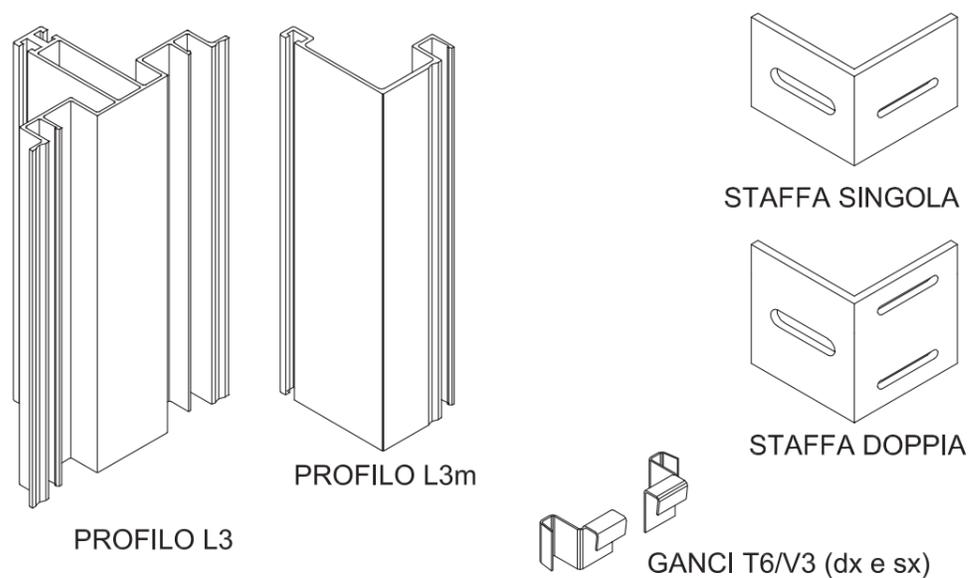
System sizes

- The standard distance between the wall and the back side of the slabs is 111 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the laminated porcelain stoneware slabs for this type of system is 8 mm.



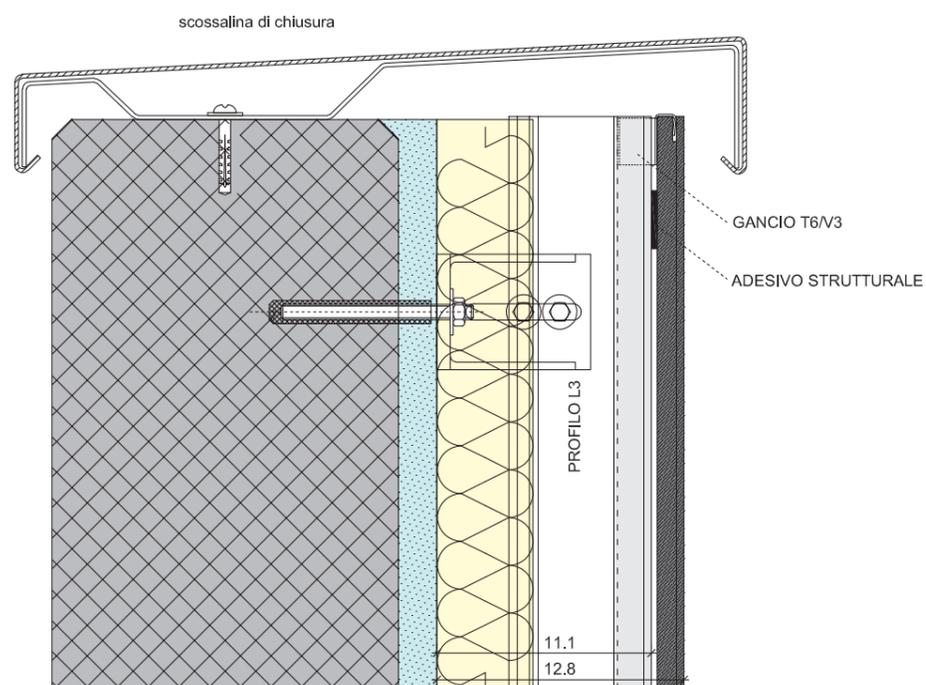
In partnership with DALLERA

Standard components



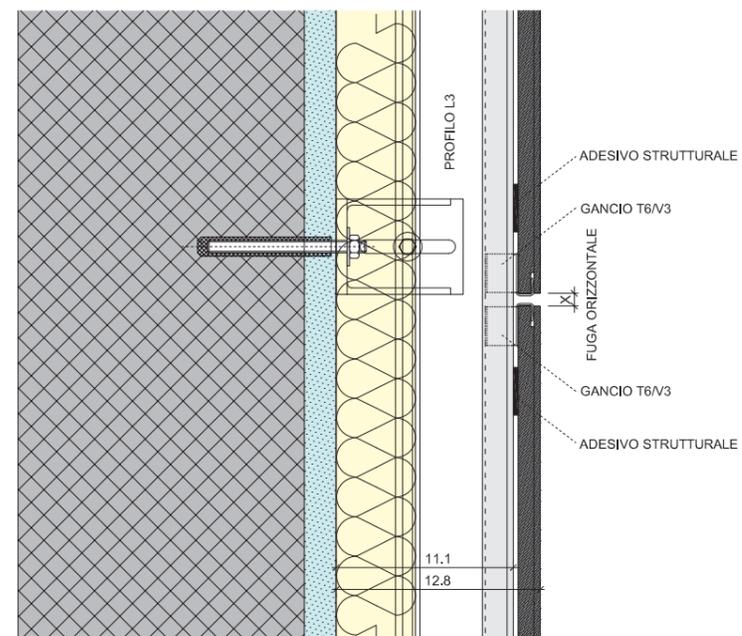
Standard solution for roof finishing

Vertical section - Scale 1:4



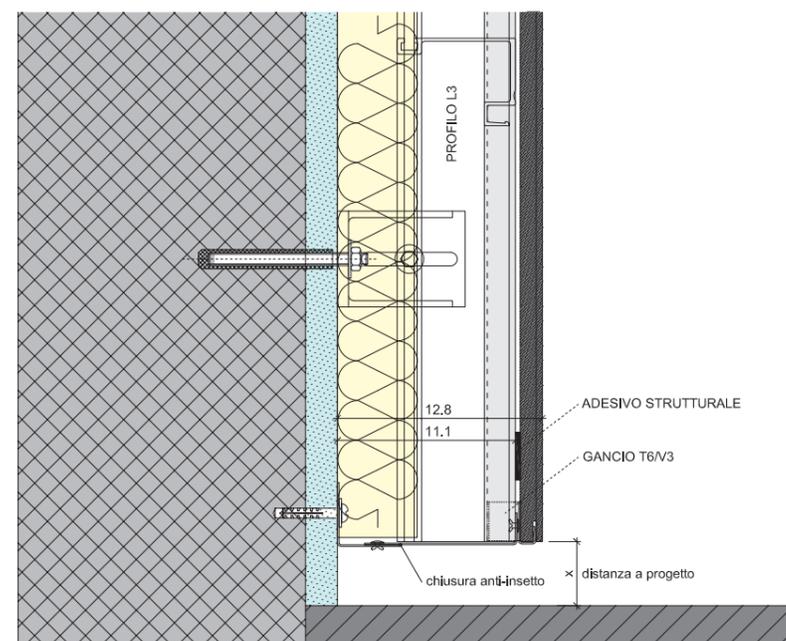
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for floor end

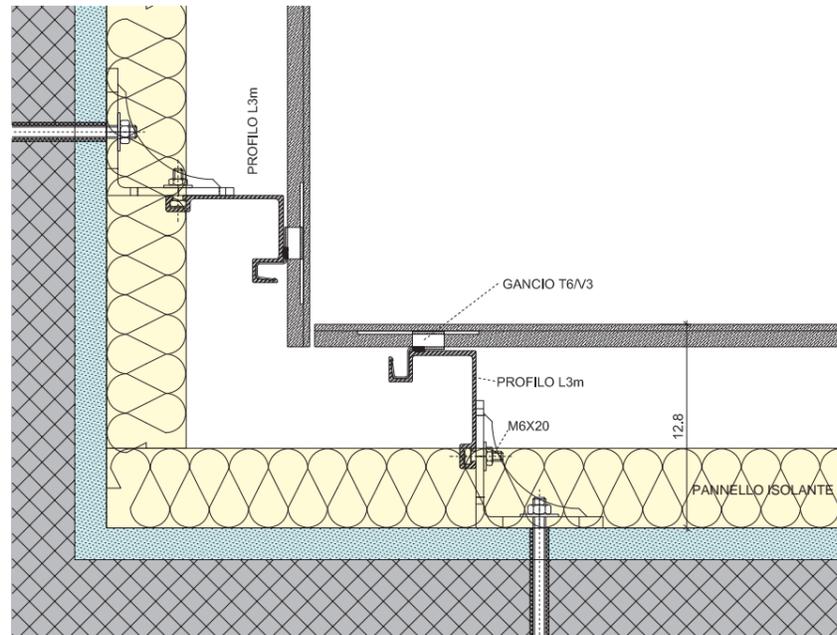
Vertical section - Scale 1:4



In partnership with DALLERA

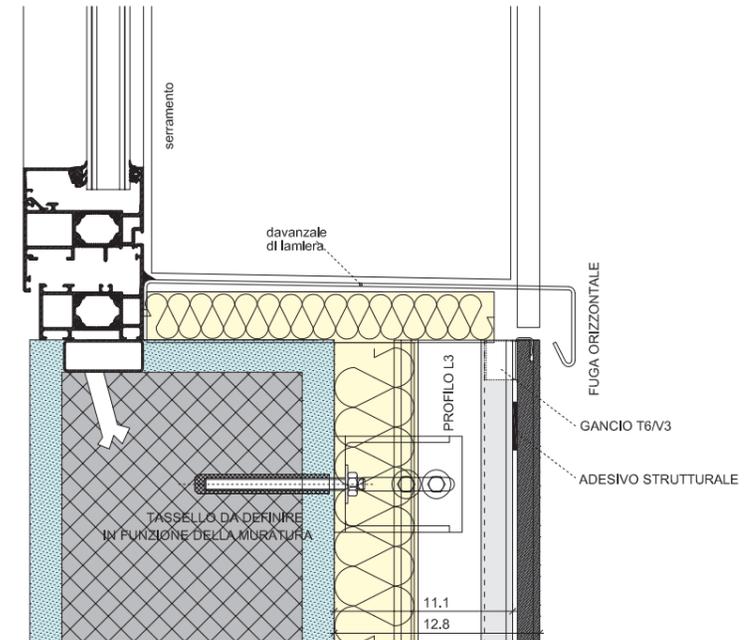
Standard solution for internal angle

Vertical section - Scale 1:4



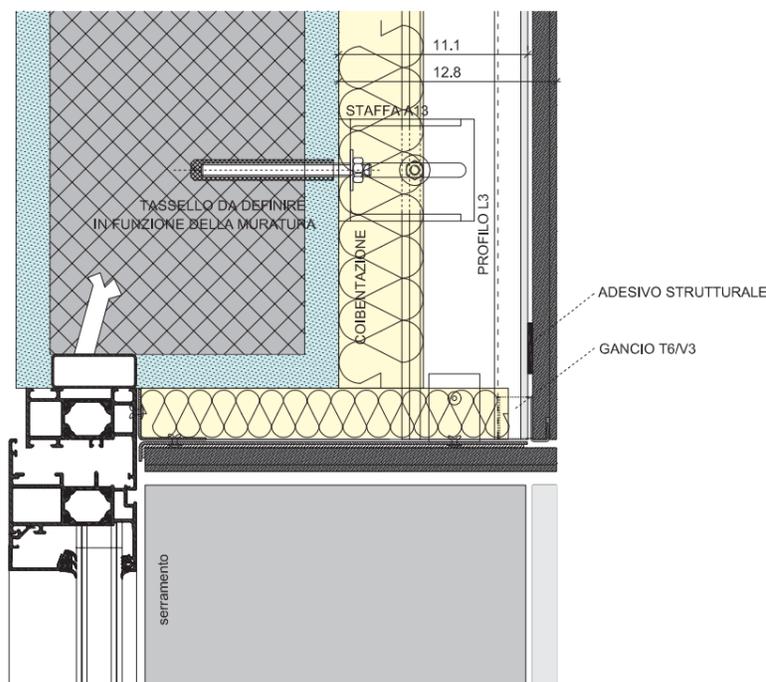
Standard solution below windowsill

Vertical section - Scale 1:4



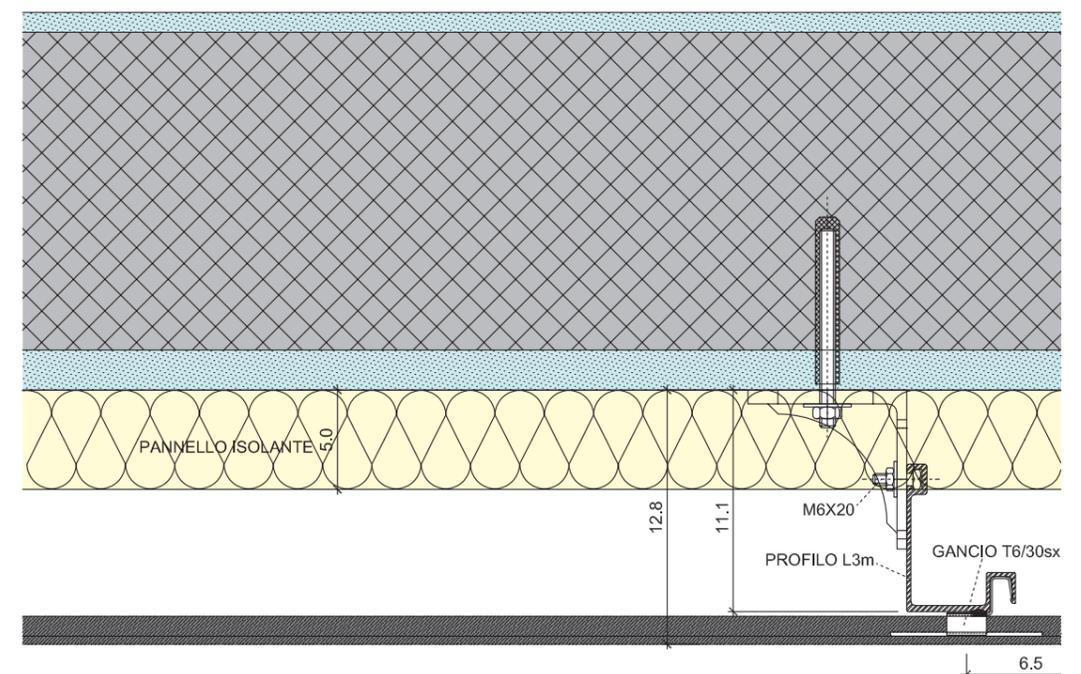
Standard solution for window head

Vertical section - Scale 1:4



Standard closing solution

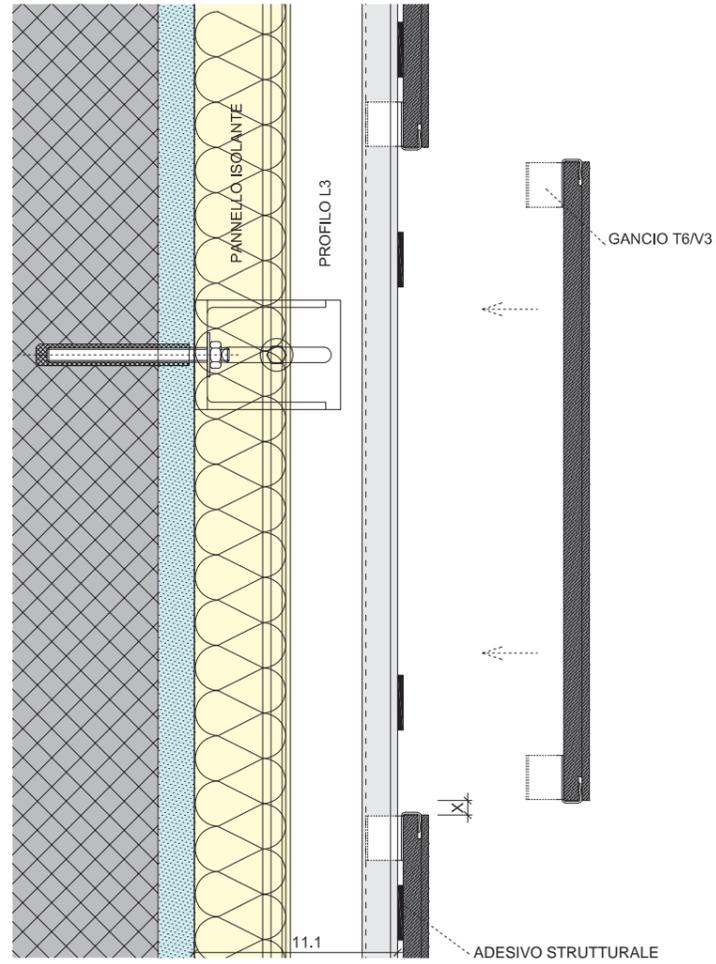
Vertical section - Scale 1:4



In partnership with DALLERA

Tile mounting operation

Vertical section - Scale 1:4



In partnership with **GEOS ITALY**

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES

Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

Slots on the back of the tiles

CLADDING TILE SIZES

All sizes of product range



System components

System "GEOS" 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.

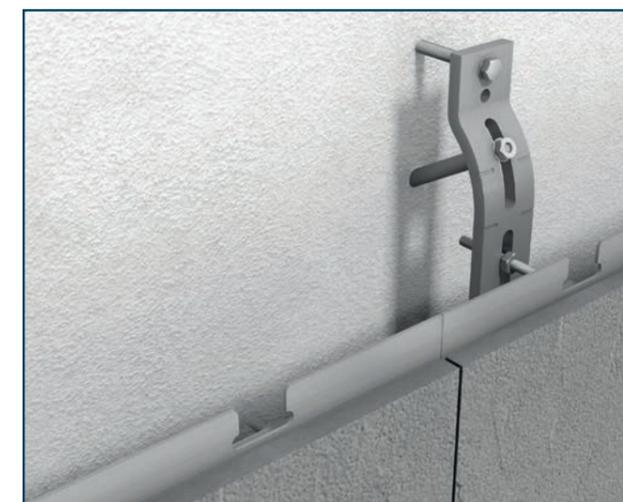
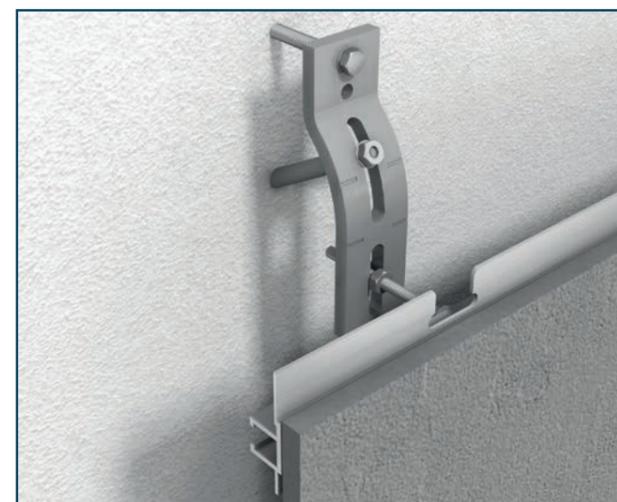
The substructure profiles possess special guides that fit the anchoring system (bracket and hook) precisely onto the wall (brick, concrete or structural load bearing element). The bracket and hook allow each element to be precisely secured and fixed (230 kg normal traction resistance at the surface of 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

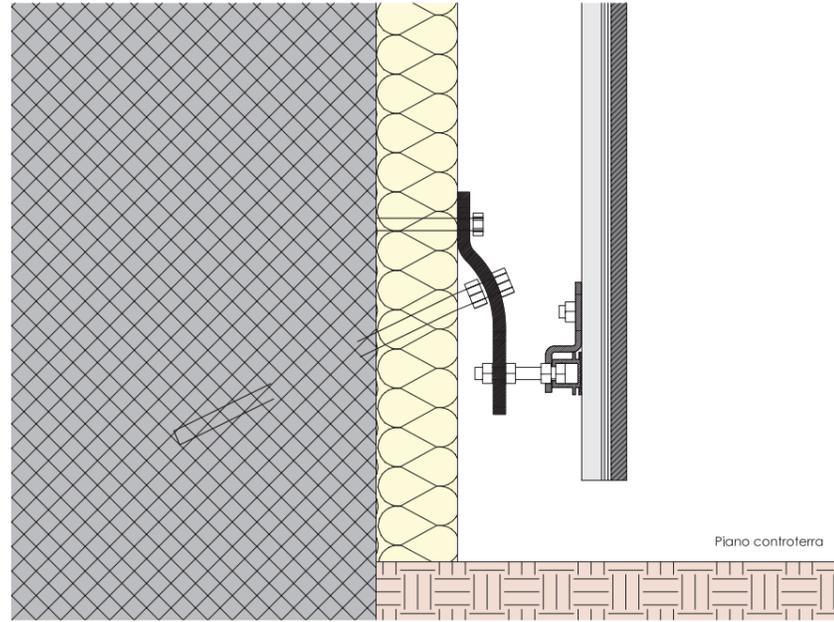
- The standard thickness of porcelain stoneware tiles for this type of system is from 9.5 to 20 mm.



In partnership with GEOS ITALY

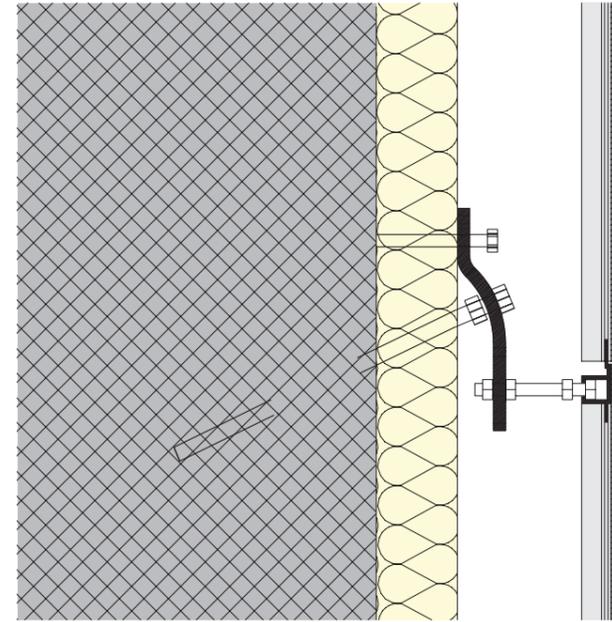
Standard solution for floor end

Vertical section - Scale 1:4



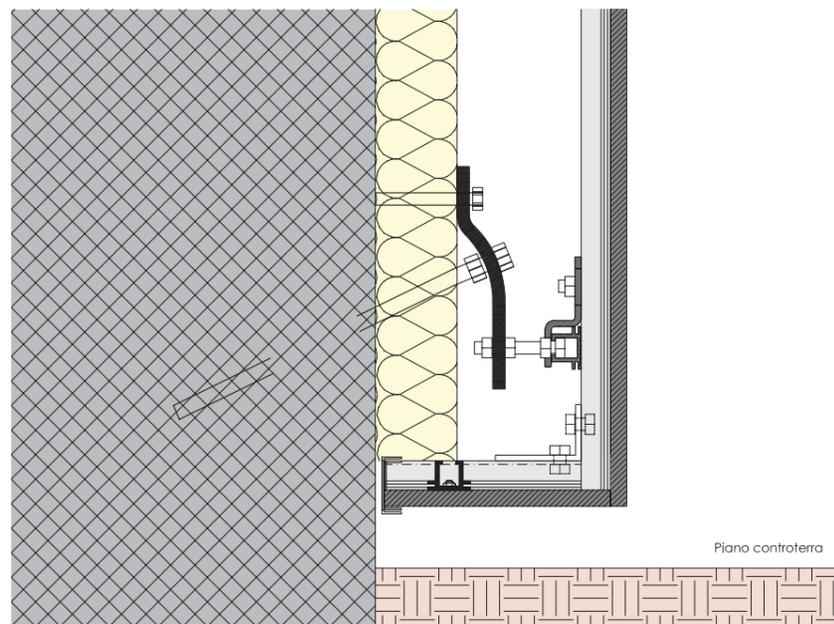
Standard solution for mid-section

Vertical section - Scale 1:4



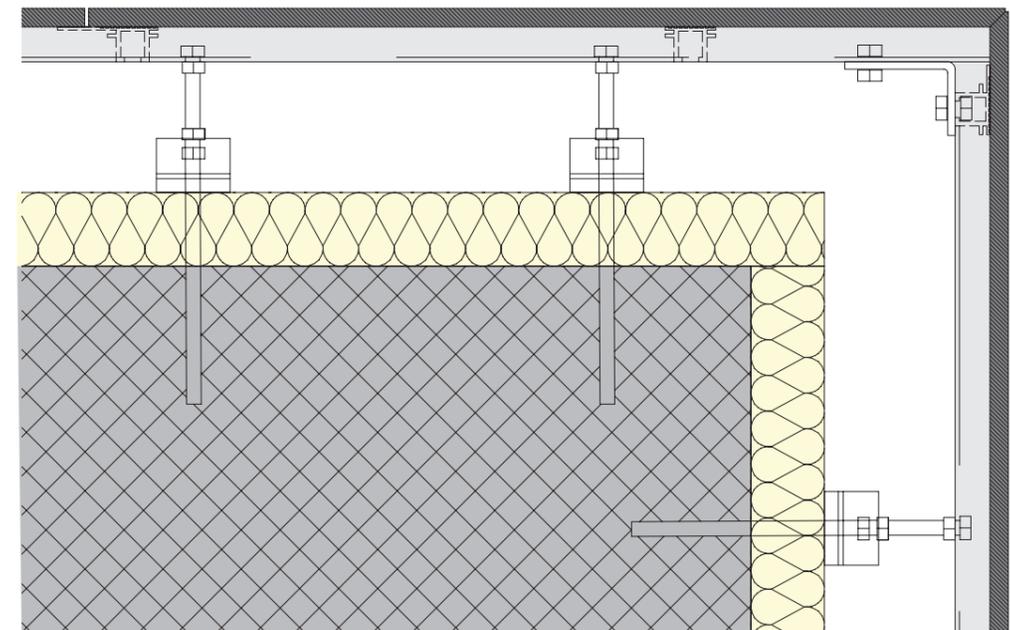
Standard solution for floor end

Vertical section - Scale 1:4



Standard solution for external angle

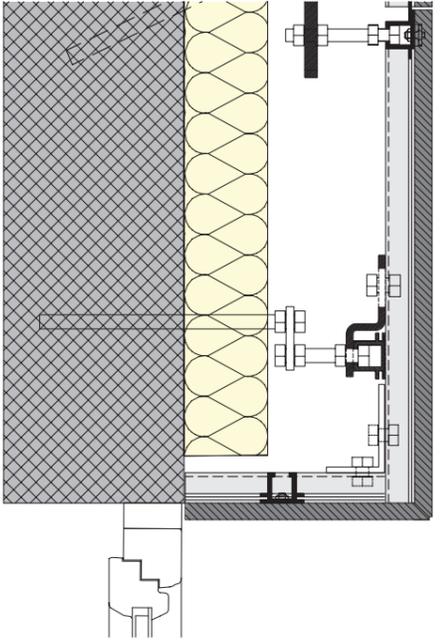
Vertical section - Scale 1:4



In partnership with **GEOS ITALY**

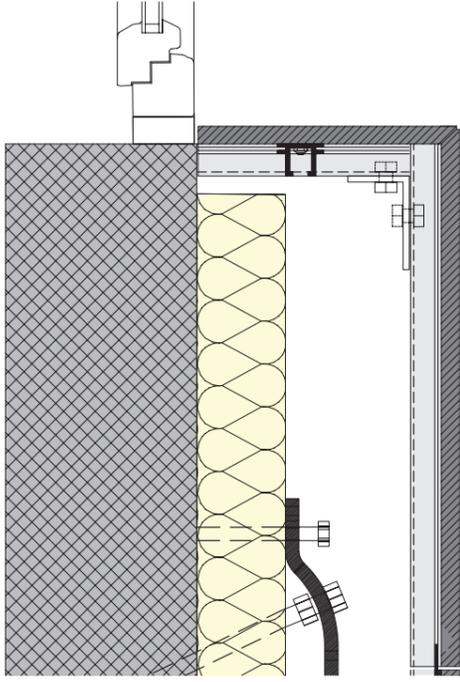
Standard solution for window head

Vertical section - Scale 1:4



Standard solution for windowsills

Vertical section - Scale 1:4



In partnership with **GEOS ITALY**

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING SLABS

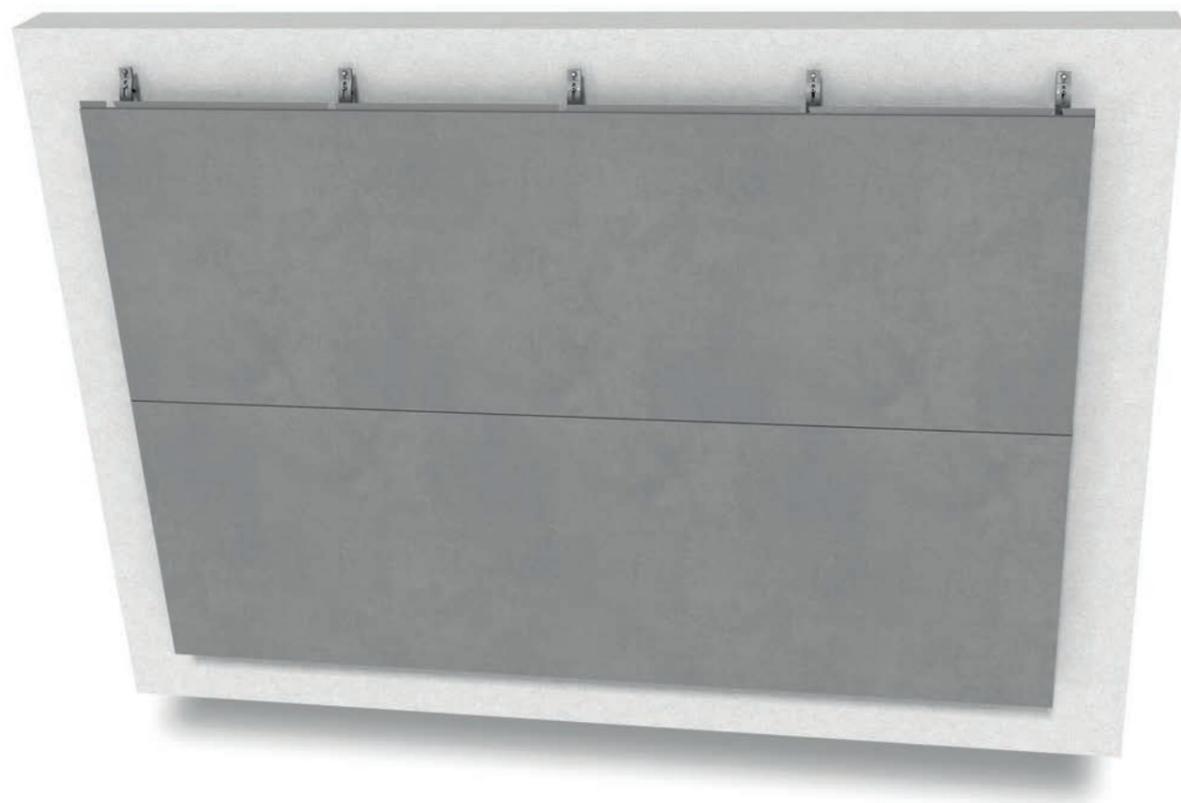
Laminated porcelain stoneware 5plus or 6plus slabs

OPERATIONS CARRIED OUT ON THE SLAB

Slots on the back of the slabs

CLADDING SLAB SIZES

All sizes of product range



System components

System "GEOS" consists of the following elements:

- Aluminium profiles EN AW - 6060 manufactured by Geos Italy and pre-assembled on the cladding slabs;

- 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 slab 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 slabs 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 slab 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 slab 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

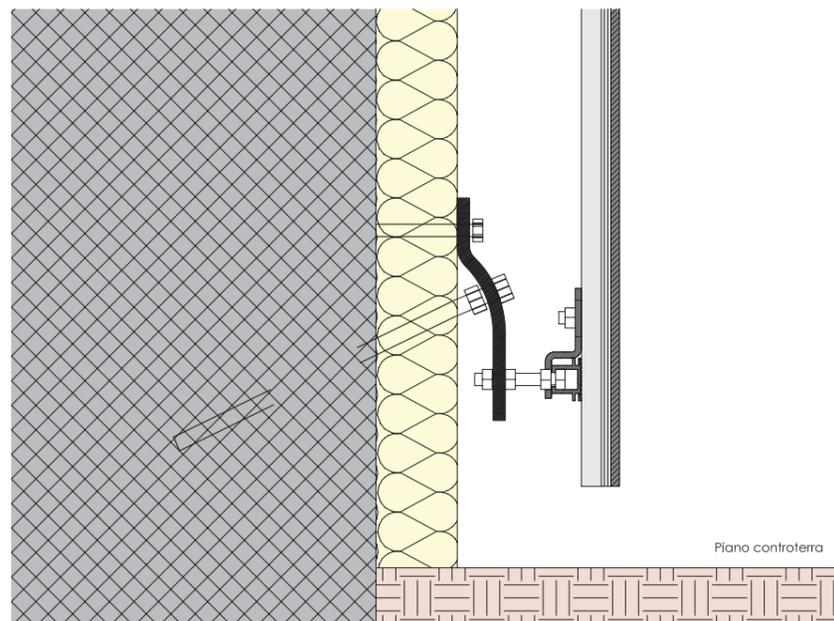
- The standard thickness of the laminated porcelain stoneware slabs for this type of system is 5.5 mm or 6.5 mm.



In partnership with **GEOS ITALY**

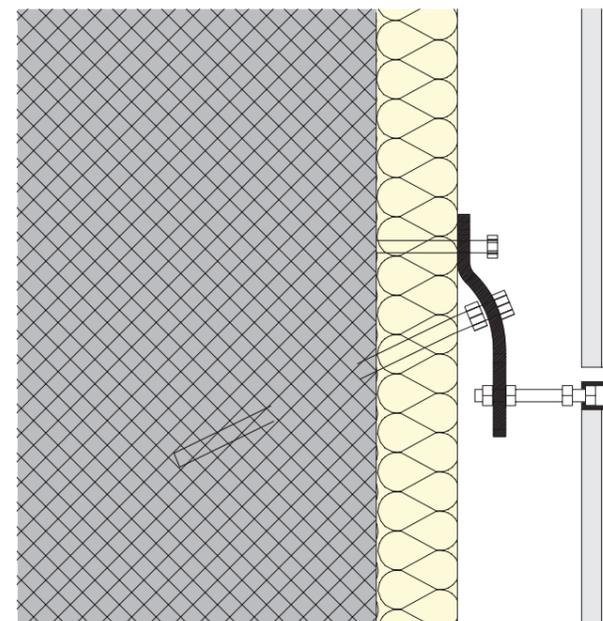
Standard solution for floor end

Vertical section - Scale 1:4



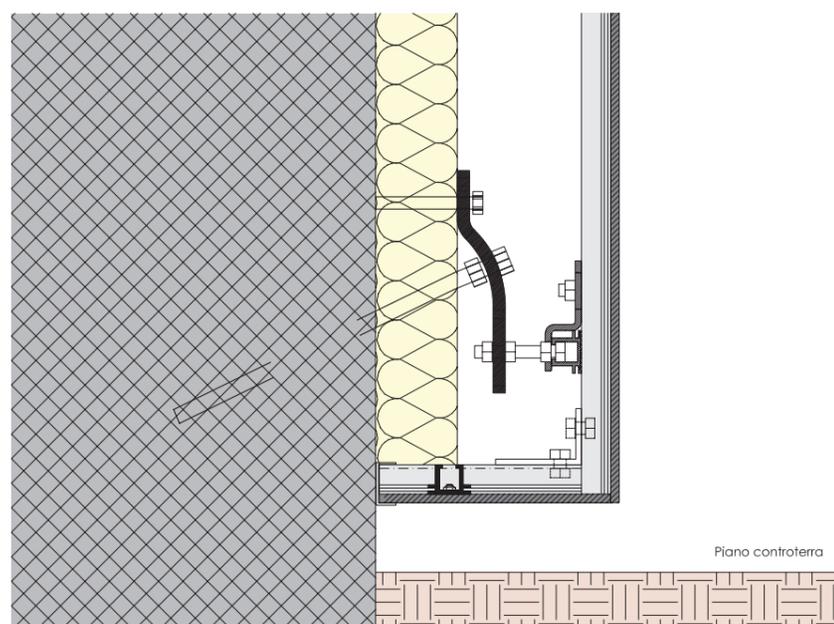
Standard solution for mid-section

Vertical section - Scale 1:4



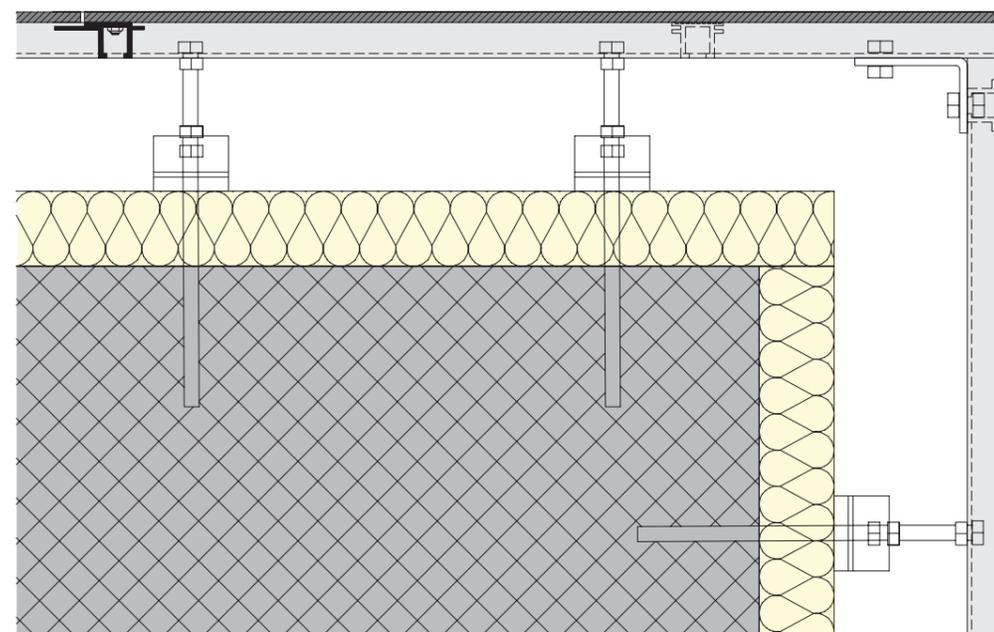
Standard solution for floor end

Vertical section - Scale 1:4



Standard solution for external angle

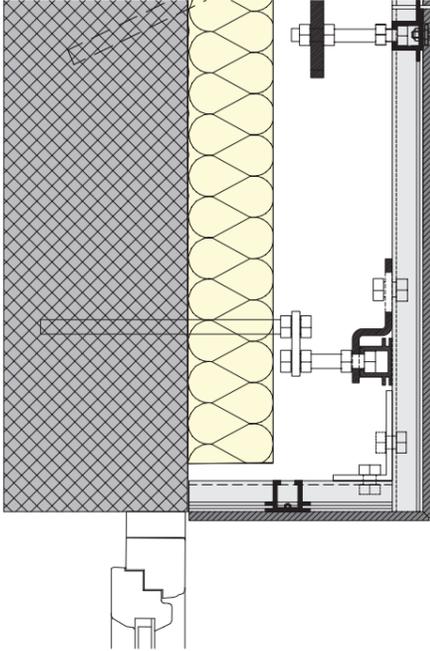
Vertical section - Scale 1:4



In partnership with **GEOS ITALY**

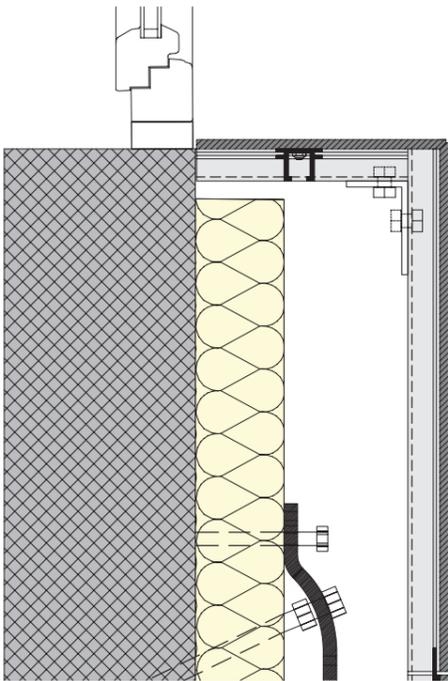
Standard solution for window head

Vertical section - Scale 1:4



Standard solution for windowsills

Vertical section - Scale 1:4



In partnership with ADERMA

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES

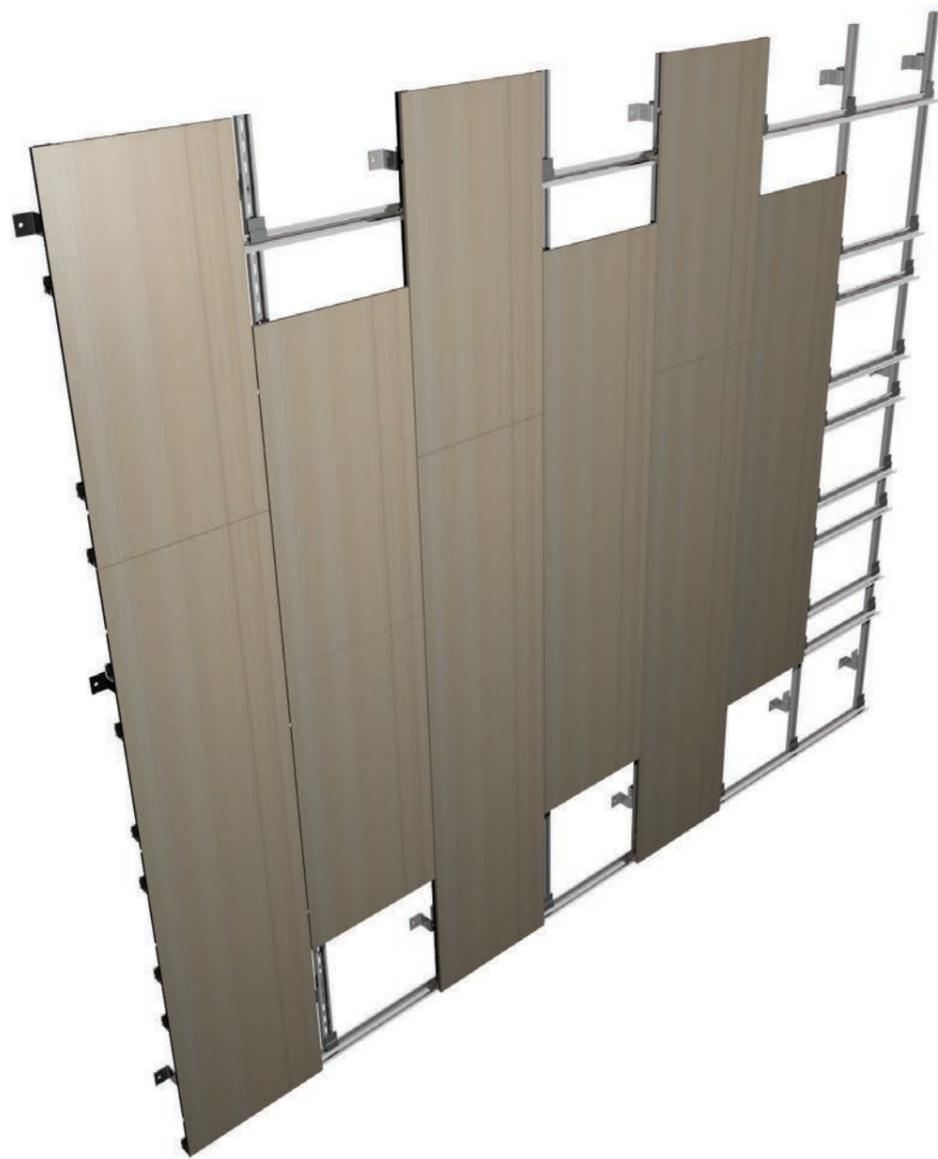
Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

Slots on the horizontal edge

CLADDING TILE SIZES

All sizes of product range



System description

The "ADERMA OVERLAPPING" 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 ± 20 mm, (bigger adjustments are obtained by special spacers) and allows, with some elementary precautions, the dismantling of each tile for maintenance and wall inspection.

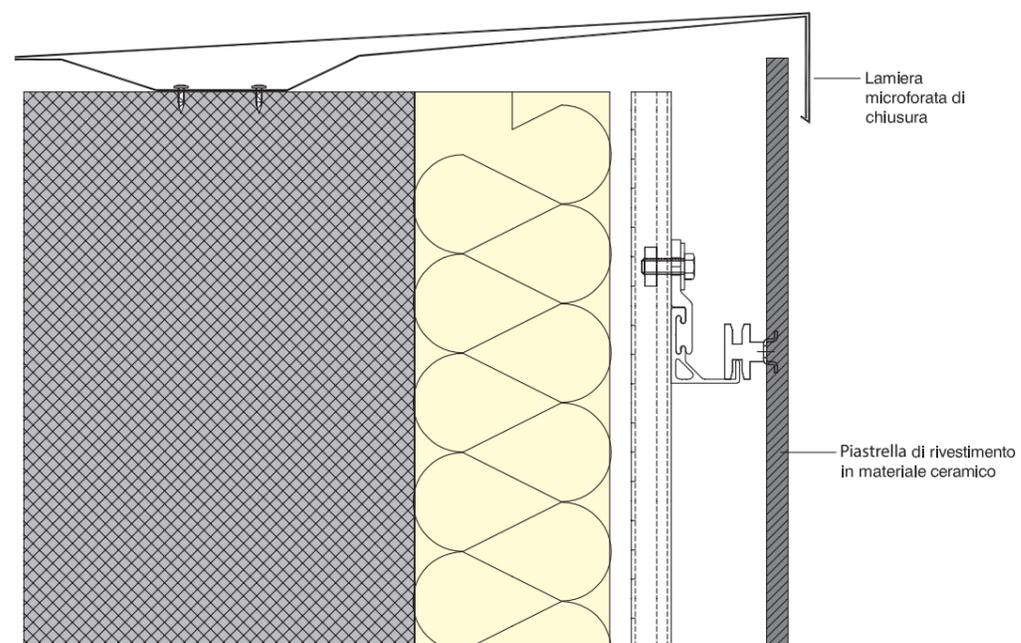
The anchoring system is CE certified to UNI 1090 standards.



In partnership with ADERMA

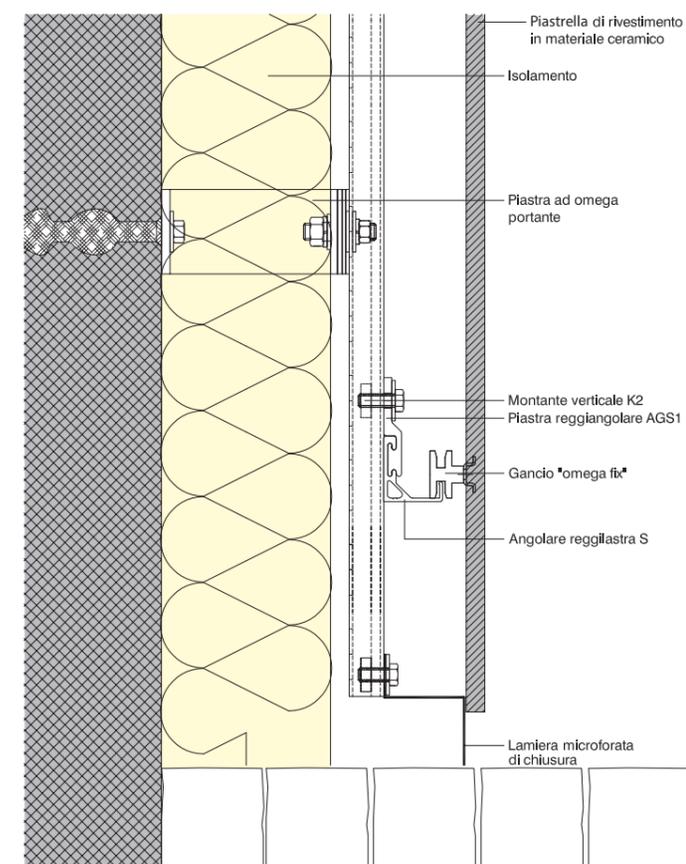
Standard solution for roof finishing

Vertical section - Scale 1:4



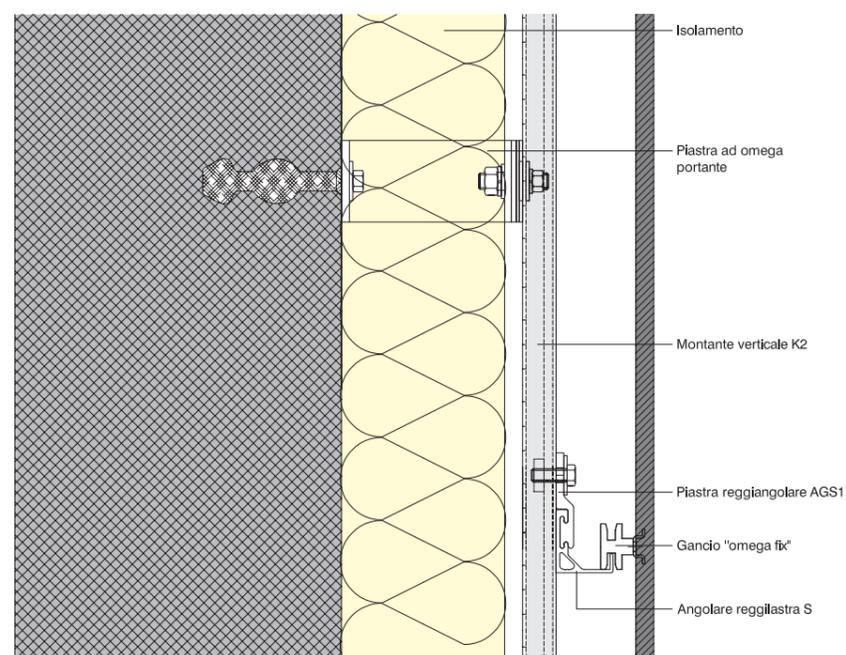
Standard solution for floor end

Vertical section - Scale 1:4



Standard solution for mid-section

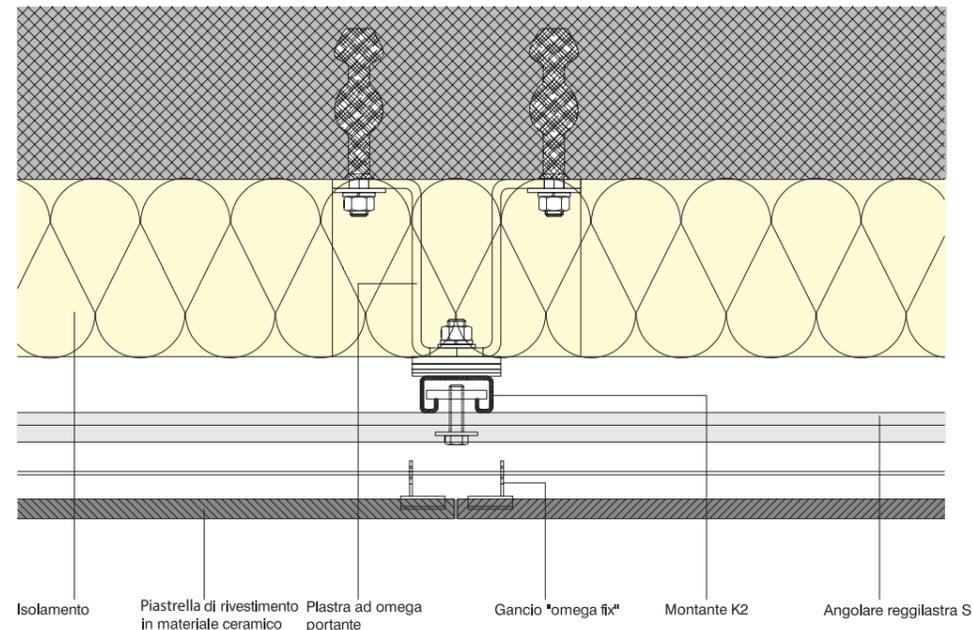
Vertical section - Scale 1:4



In partnership with **ADERMA**

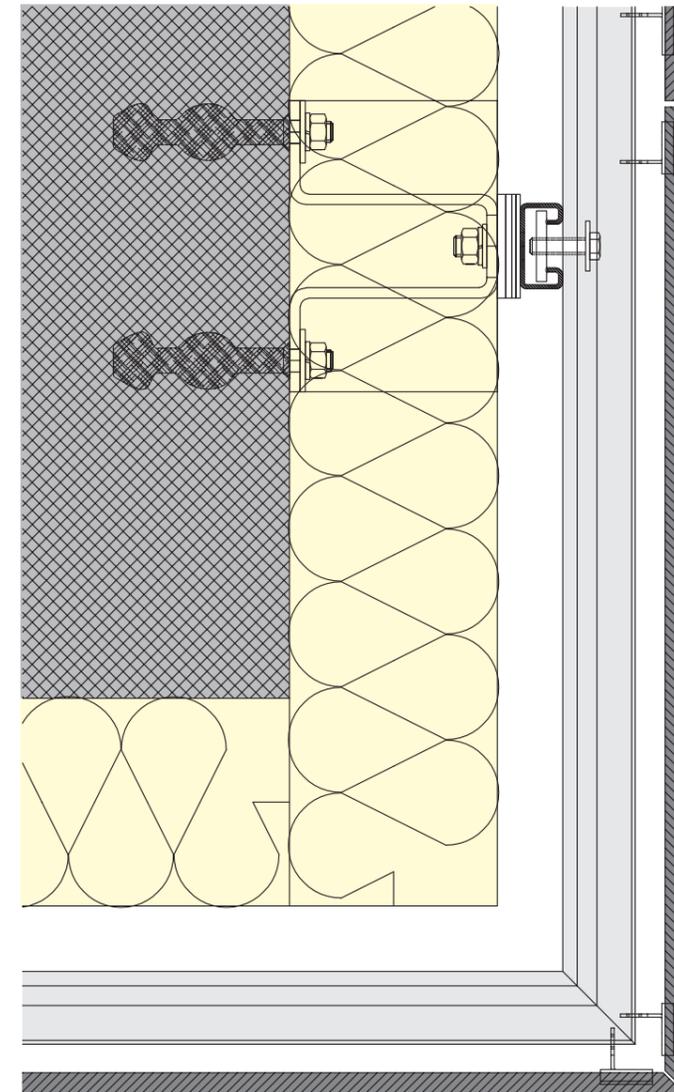
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for external angle

Vertical section - Scale 1:4



In partnership with **PROGEST**

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES

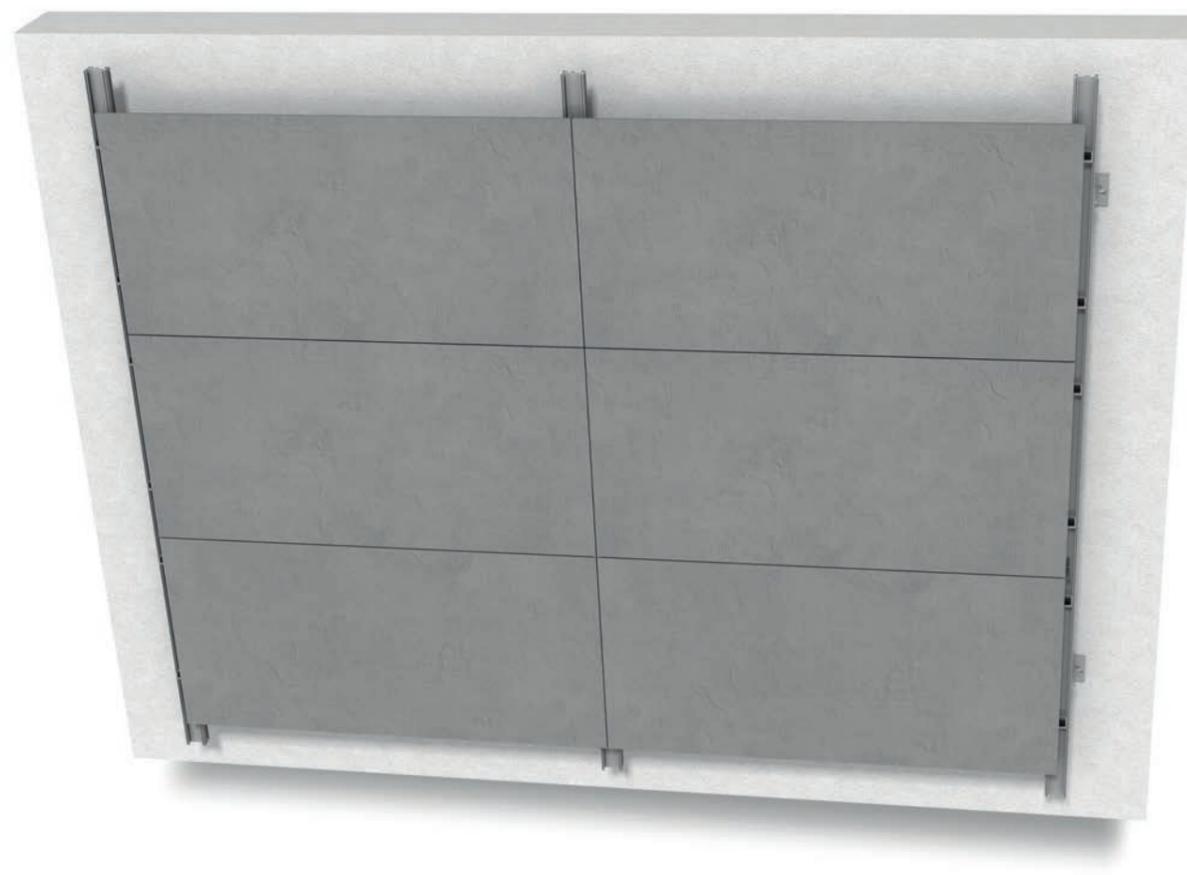
Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

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

CLADDING TILE SIZES

All sizes of product range



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.

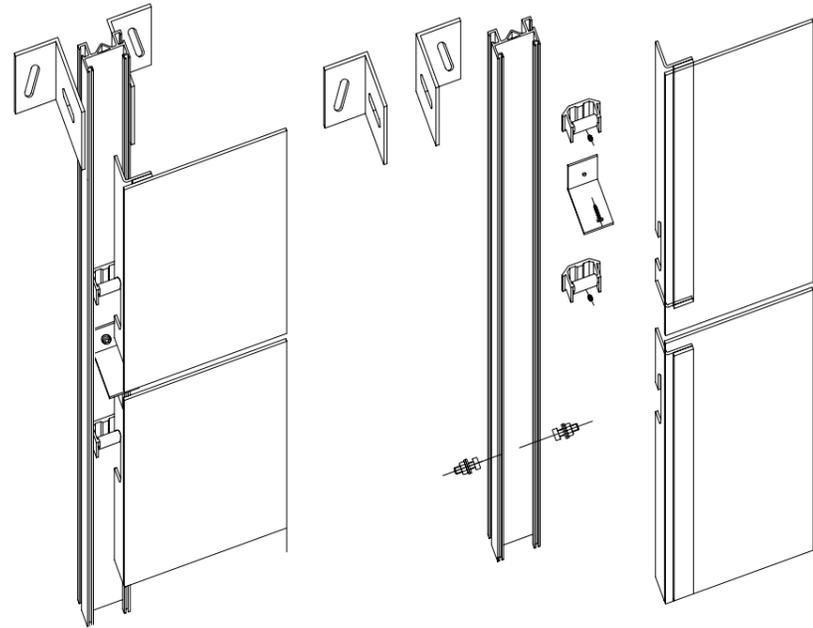
System sizes

- The standard thickness of porcelain stoneware tiles for this type of system is from 9.5 to 20 mm.



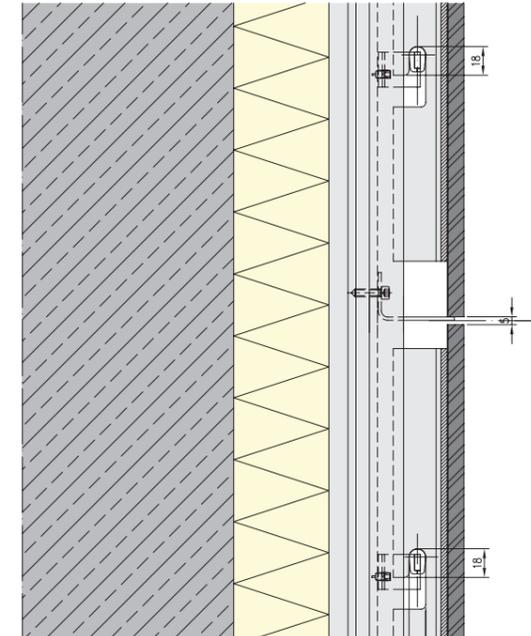
In partnership with PROGEST

Standard components



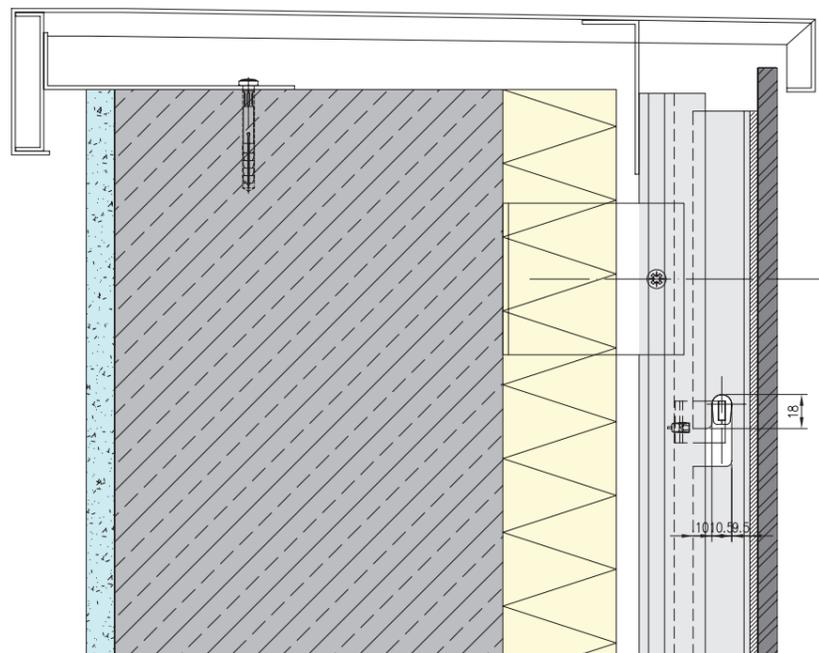
Standard solution for mid-section

Vertical section - Scale 1:4



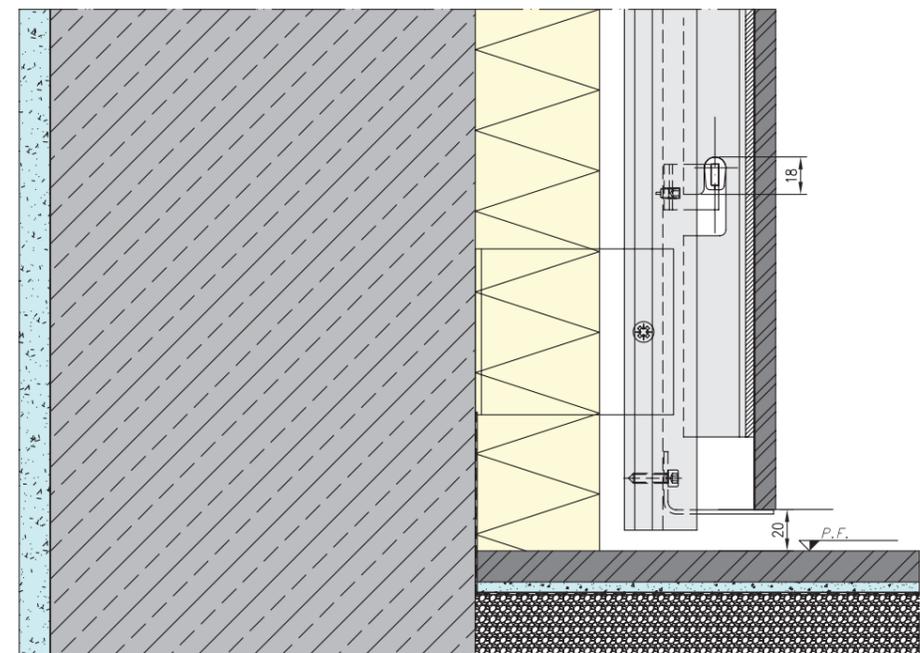
Standard solution for roof finishing

Vertical section - Scale 1:4



Standard solution for floor end

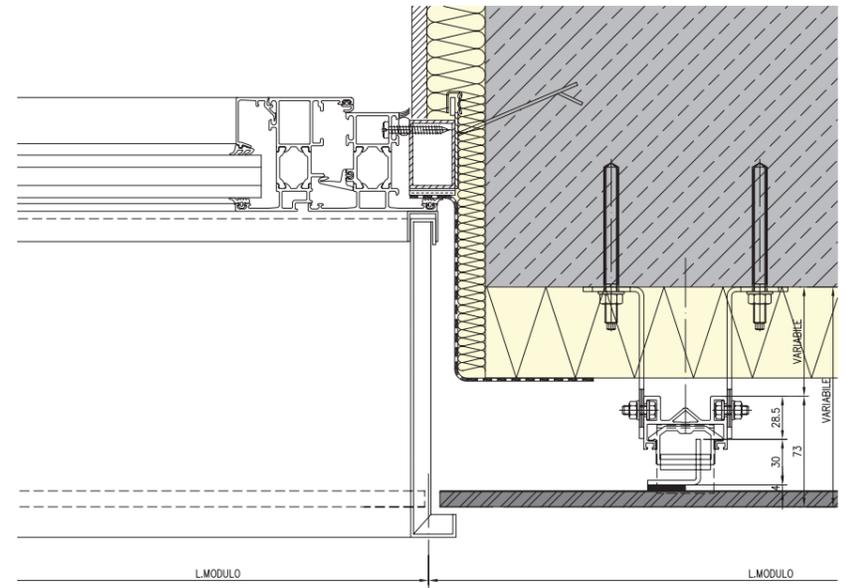
Vertical section - Scale 1:4



In partnership with PROGEST

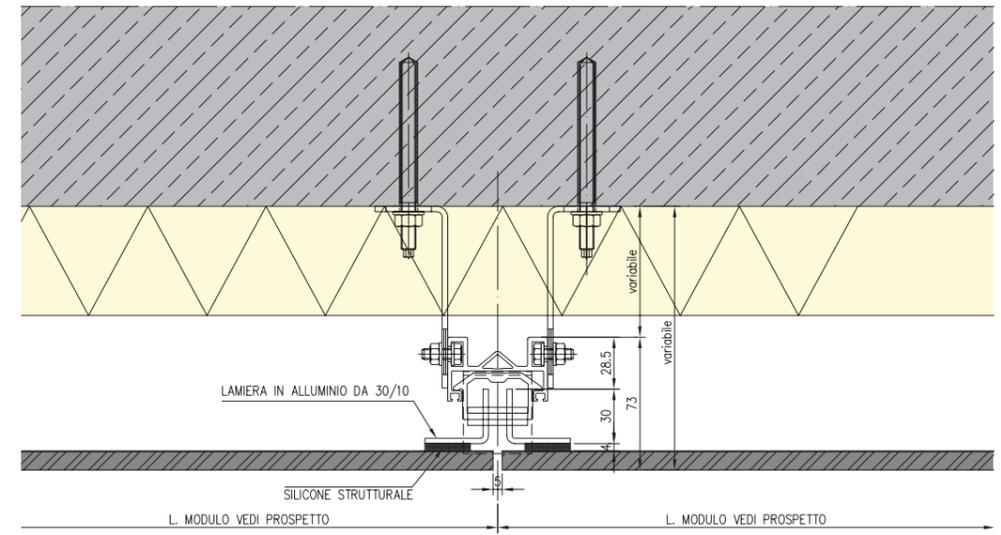
Standard solution for window frame

Vertical section - Scale 1:4



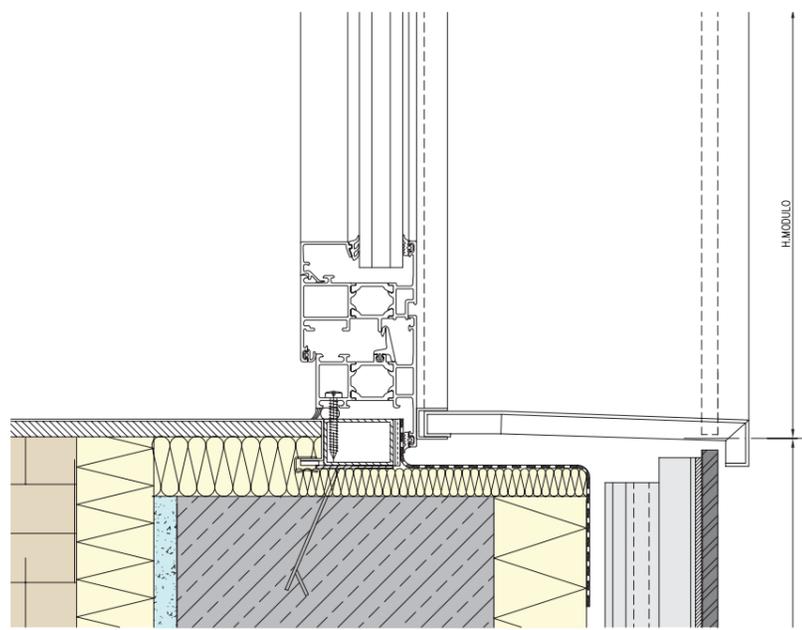
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for windowsills

Vertical section - Scale 1:4



In partnership with **PROGEST**

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING SLABS

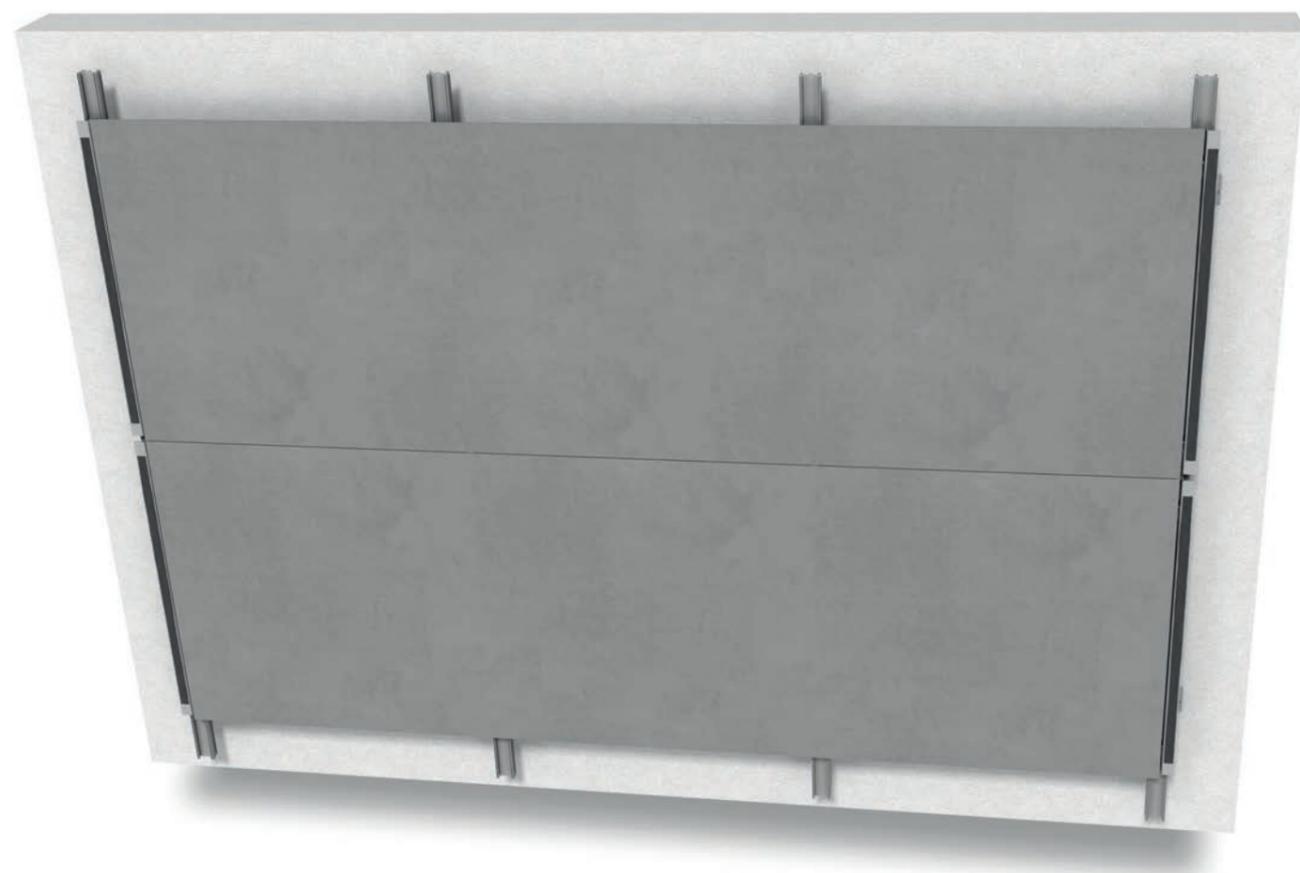
Laminated porcelain stoneware 3plus, 5plus or 6plus slabs

OPERATIONS CARRIED OUT ON THE SLAB

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

CLADDING SLAB SIZES

All sizes of product range



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.

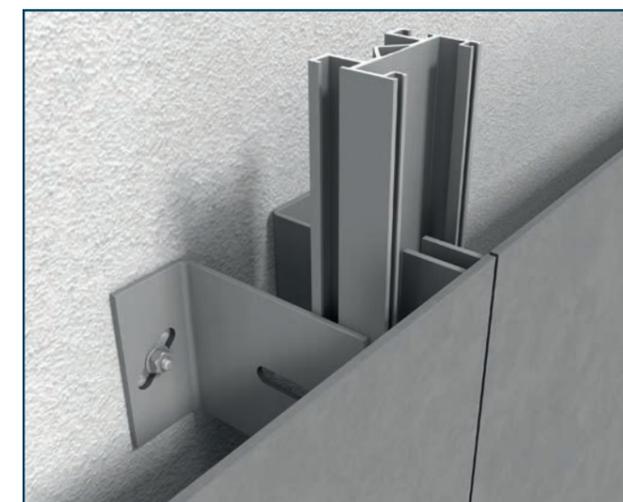
The vertical elements are anchored to the substructure with adjustable brackets that allow for thermal expansion and contraction. To fix the brackets to the existing walls, following pull-out tests, high resistance mechanical and chemical fixing are used.

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 slabs, 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.

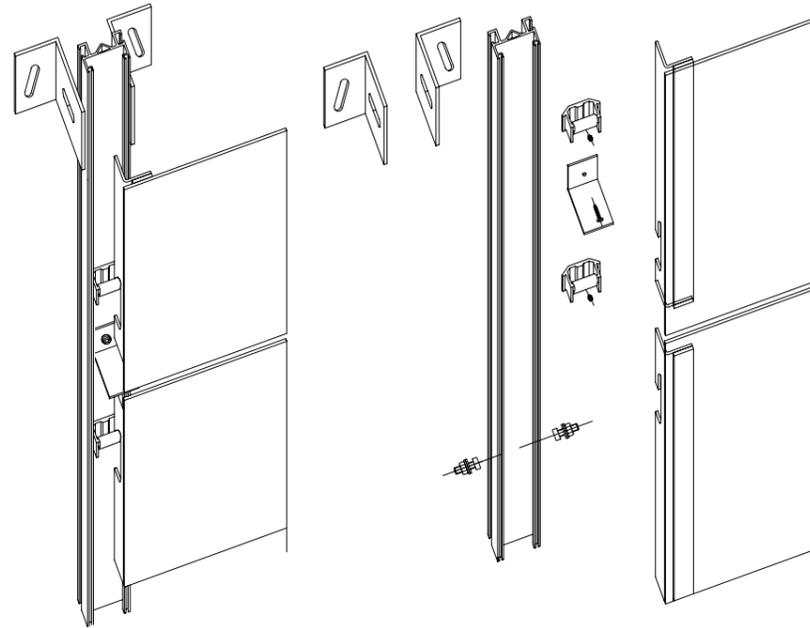
System sizes

- The standard thickness of the laminated porcelain stoneware slabs for this type of system is 3.5mm, 5.5 mm or 6.5 mm.



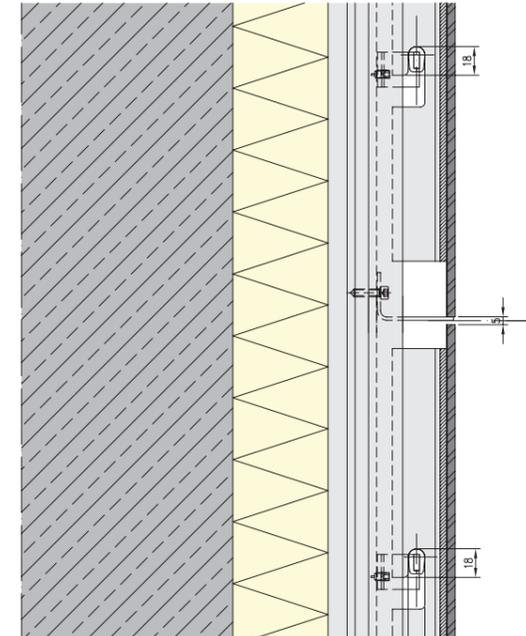
In partnership with PROGEST

Standard components



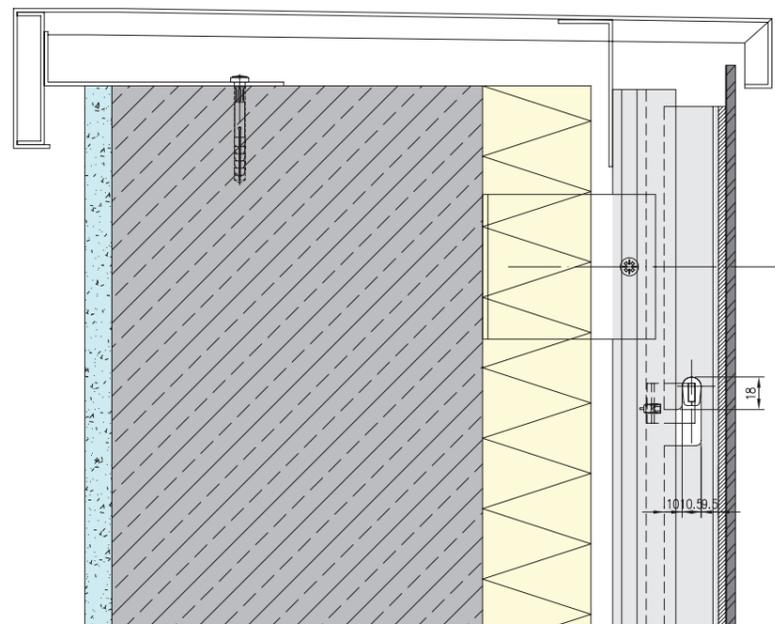
Standard solution for mid-section

Vertical section - Scale 1:4



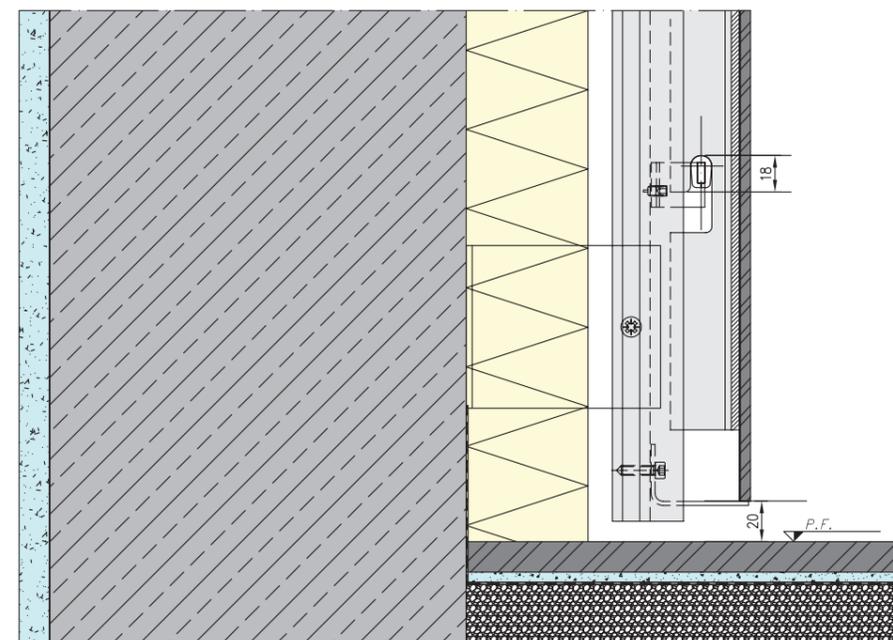
Standard solution for roof finishing

Vertical section - Scale 1:4



Standard solution for floor end

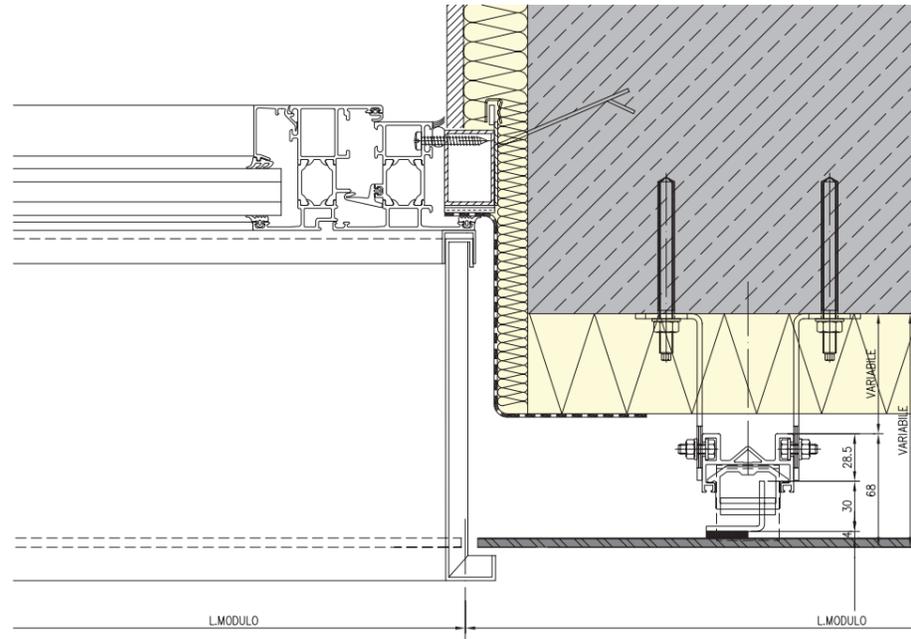
Vertical section - Scale 1:4



In partnership with PROGEST

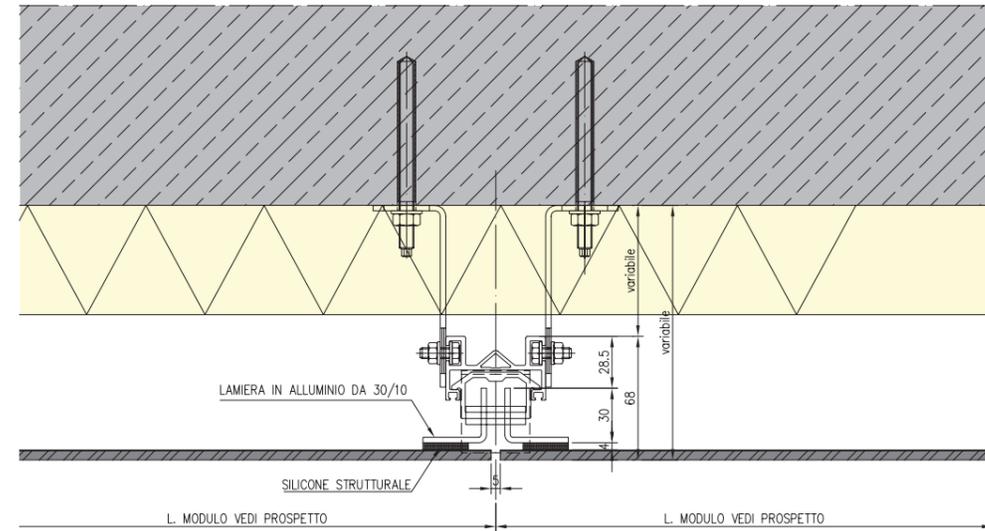
Standard solution for window frame

Vertical section - Scale 1:4



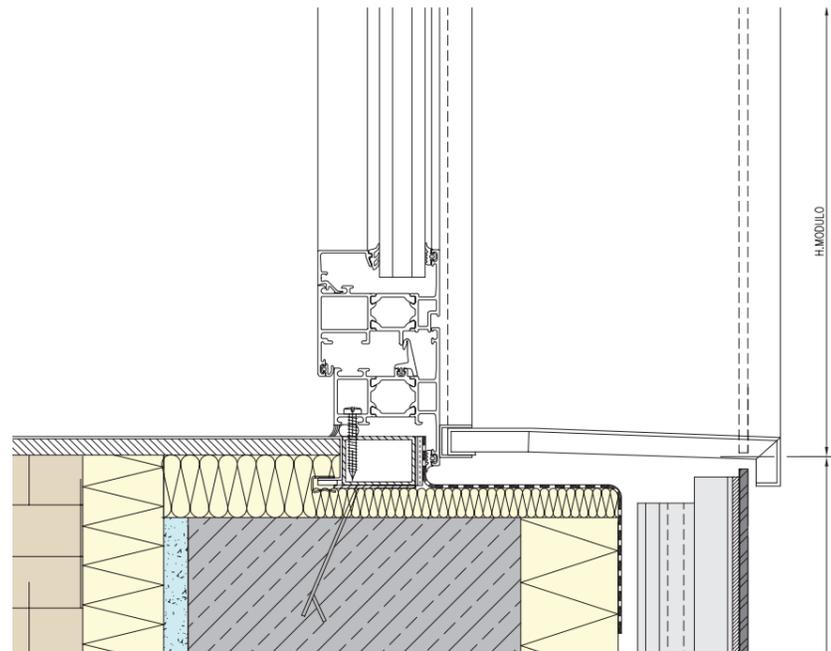
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for windowsills

Vertical section - Scale 1:4



In partnership with **FISCHER**

DESCRIPTION OF THE SYSTEM

Hidden anchors

TYPE OF CLADDING TILES

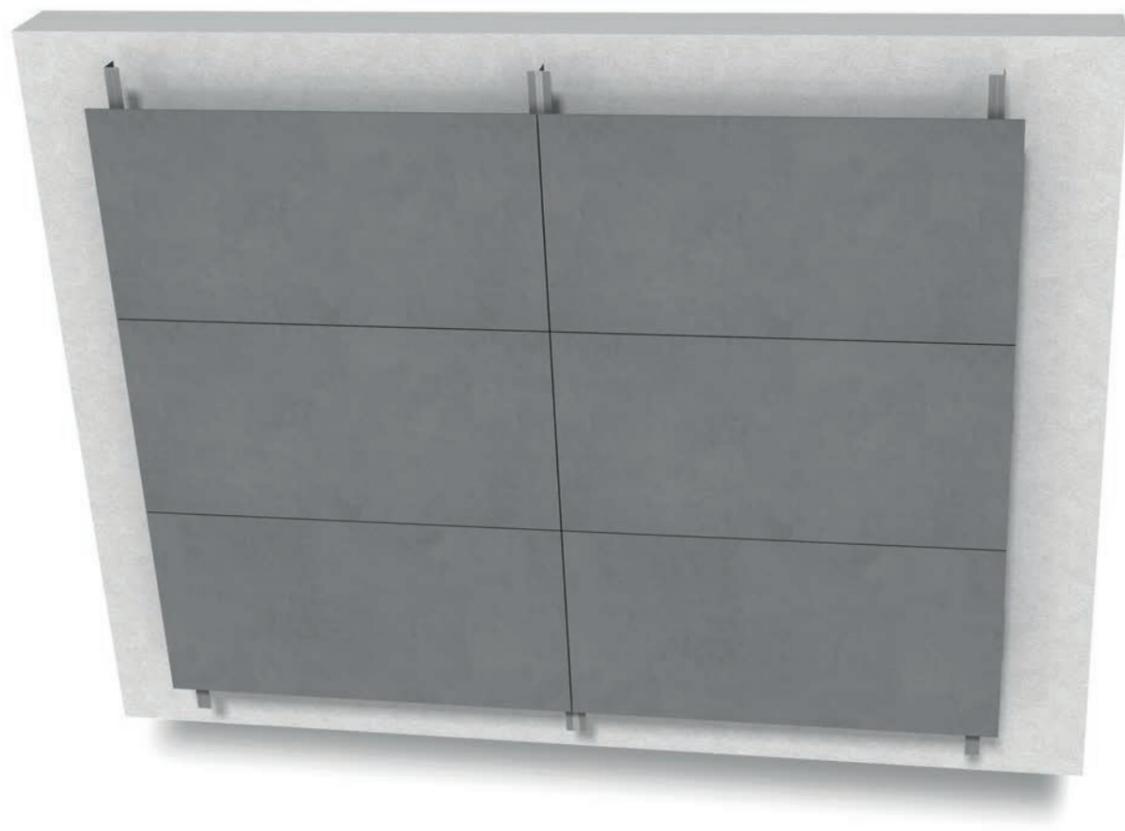
Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

Undercut hole on the back of the tiles

CLADDING TILE SIZES

All sizes of product range



System components

The "Genius light" system consists of the following elements:

- Extruded vertical profile "VP LT / VP L" made in aluminum alloy EN 6063 T66;
- Extruded horizontal profile "HP LC" made in aluminum alloy EN 6063 T66;
- Fixed-point bracket "LFH" made in aluminum alloy EN 6063 T66;
- Sliding-point bracket "LSH" made in aluminum alloy EN 6063 T66;
- Adjustable fixed tile bracket support "BR-AFH" made in aluminum alloy EN 6063 T66;
- Adjustable sliding tile bracket support "BR-ASH" made in aluminum alloy EN 6063 T66;
- Tile support bracket "BR-SH" made in aluminum alloy EN 6063 T66;
- Rivets made in stainless steel AISI 304 for connection of brackets "LFH / LSH" to profile "VP LT / VP L";
- AISI 304 Stainless steel screws for tile support brackets "BR-AFH / BR-ASH";
- Insulating barrier pad "THERMO-PAD" made in PA;
- Tile anchoring dowel "FZP II-T" made in stainless steel AISI 316 with CE marking;
- Mechanical or chemical dowel with CE marking made in stainless steel AISI 316 to fix "LFH / LSH" brackets on supporting wall.

System description

The system uses vertical profiles VP, spaced according to the design, and fastened to the support by means of wall brackets LFH/LSH through stainless steel A2 rivets. The wall brackets are designed according to UNI 11018. The fixing to the support is guaranteed by fischer mechanical or chemical anchors. The vertical profile is equipped with a lateral guide to identify maximum excursion when inserted in the LFH and LSH wall brackets.

The substructure is completed with a horizontal profile "HP-LC", shaped to accommodate brackets BR-AFH / BR-ASH / BR-SH.

The horizontal profile HP-LC, with spacing equal to the width of the tiles, is fastened to the vertical profile by means of stainless steel A2 rivets through the slotted hole of the horizontal profile.

The slotted holes permit the thermal expansion of the profile.

The tiles are anchored to the structure with Fischer FZP II T panel anchors. The anchor FZP II T is installed into pre-drilled undercut hole on the tile made with a special fischer diamond drill bit FZP B.

The shape and design of the undercut anchor does not create stress inside the tile.

Thanks to this technology it is possible to bear loads four times higher than conventional anchoring systems. This allows for larger panel sizes.

The system is suitable to realize wall cladding with a regular, staggered or offset pattern of tiles.

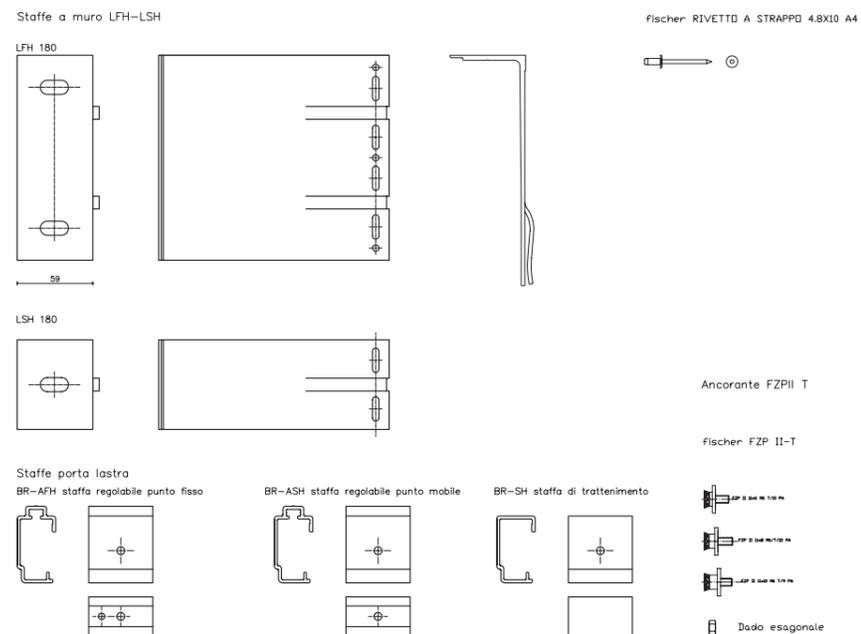
System sizes

- With the different wall brackets (LFH / LSH) the standard distance between the wall and the back side of the tiles can vary between 100 mm and 255 mm.
- The standard thickness of porcelain stoneware tiles for this type of system is from 9.5 to 20 mm.



In partnership with **FISCHER**

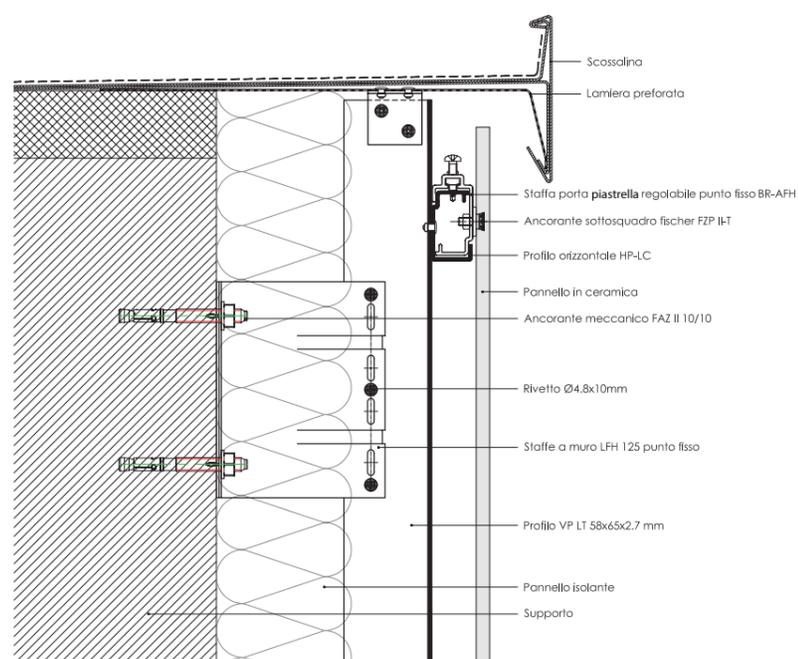
Standard components



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

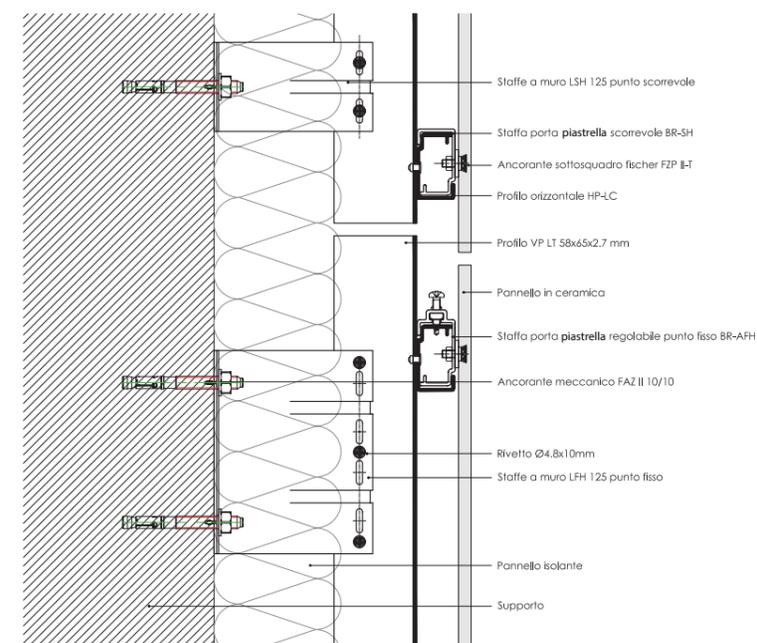
Standard solution for roof finishing

Vertical section - Scale 1:5



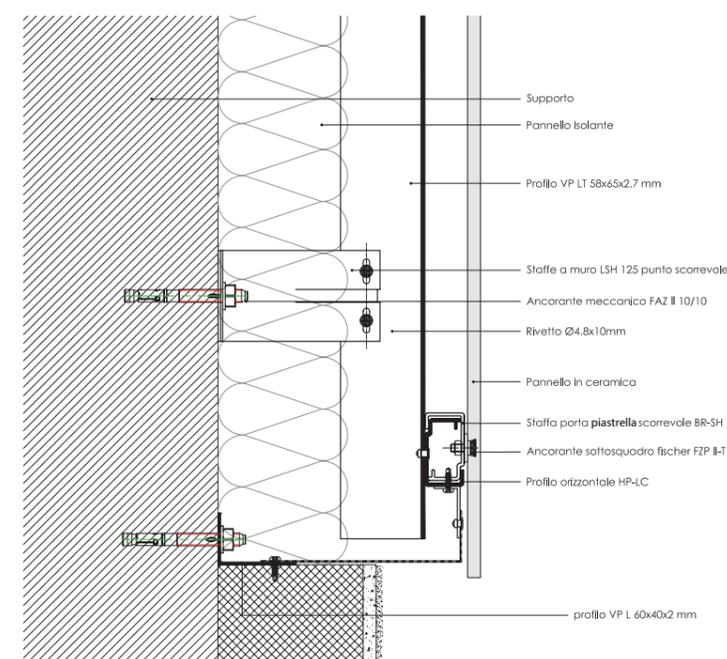
Standard solution for mid-section

Vertical section - Scale 1:5



Standard solution for floor end

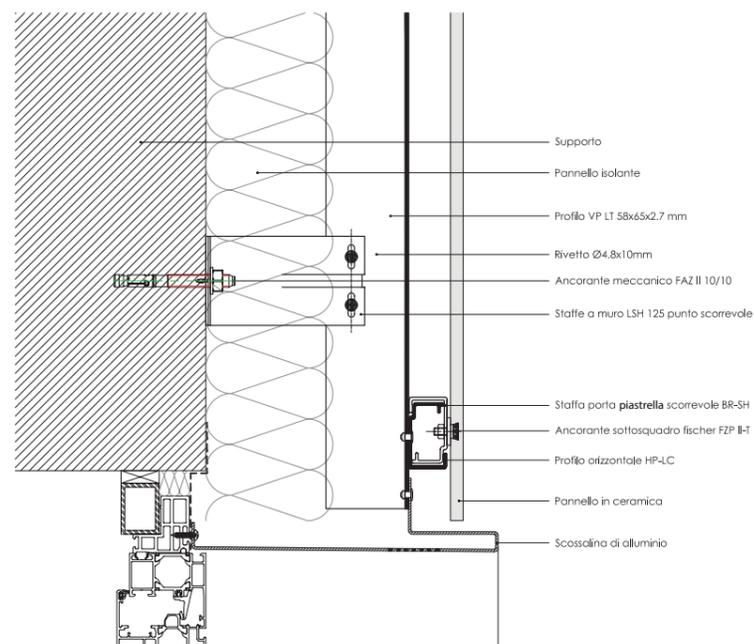
Vertical section - Scale 1:5



In partnership with FISCHER

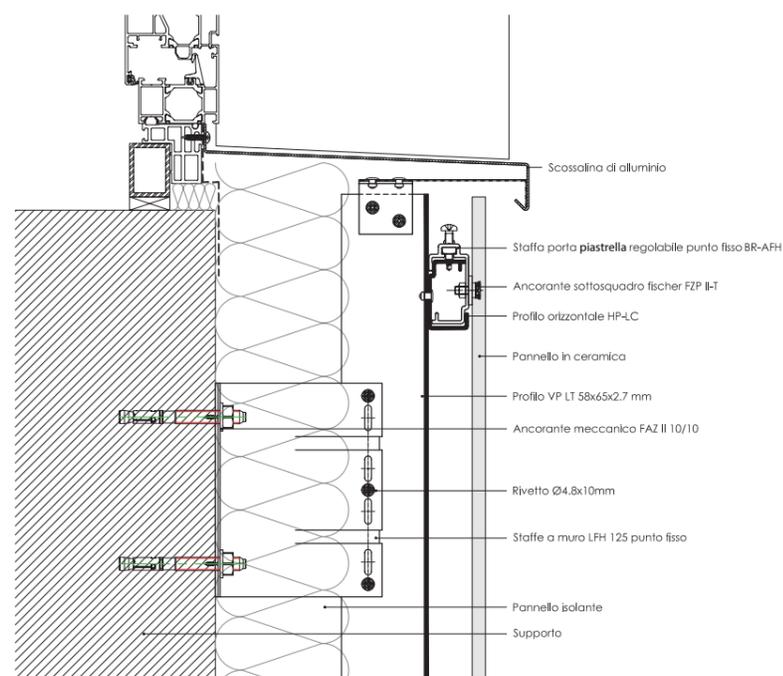
Standard solution for window head

Vertical section - Scale 1:5



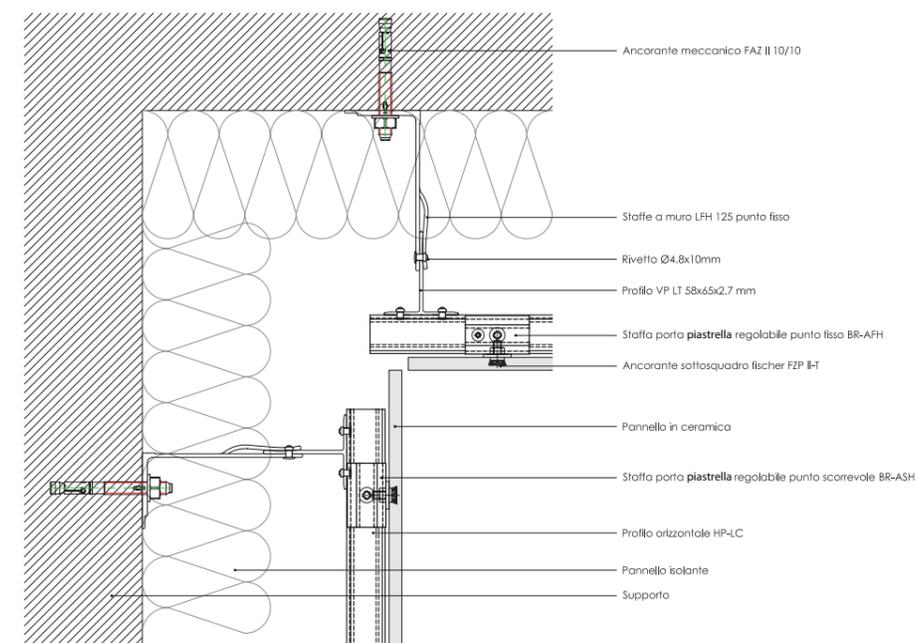
Standard solution below windowsill

Vertical section - Scale 1:5



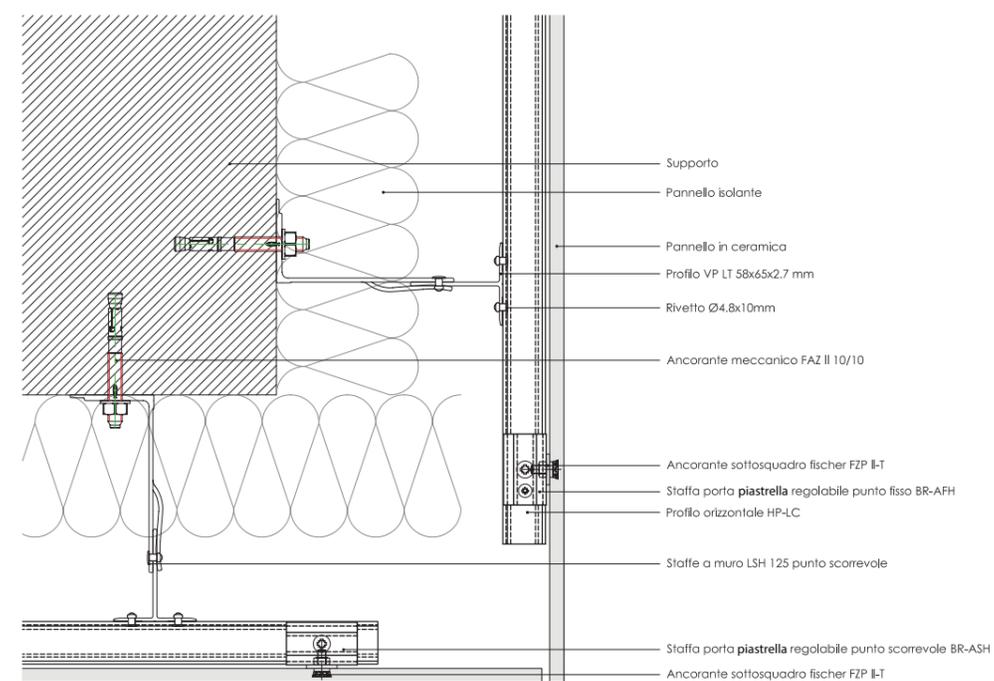
Standard solution for mid-section

Vertical section - Scale 1:5



Standard solution for floor end

Vertical section - Scale 1:5



In partnership with **DALLERA**

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES

Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

None

CLADDING TILE SIZES

All sizes of product range



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" 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 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.

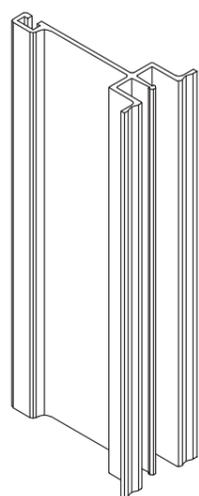
System sizes

- The standard distance between the wall and the back side of the tile is 111 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of porcelain stoneware tiles for this type of system is from 9.5 to 20 mm.

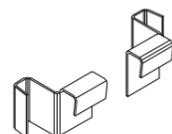


In partnership with DALLERA

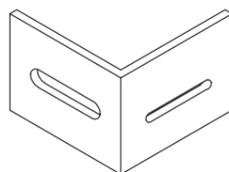
Standard components



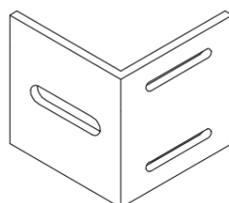
PROFILO L1



GANCI T6/V3 (dx e sx)



STAFFA SINGOLA

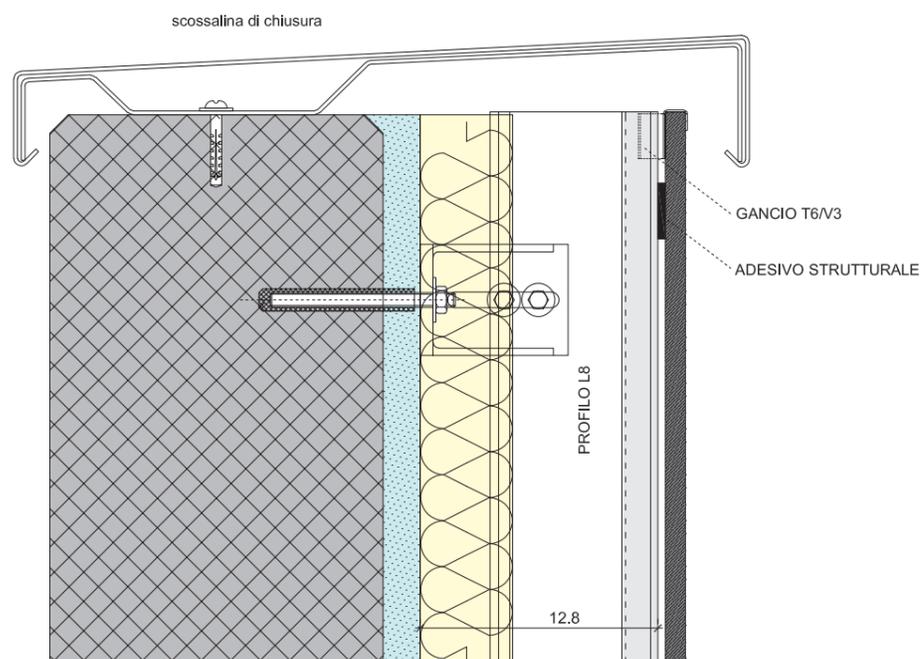


STAFFA DOPPIA

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

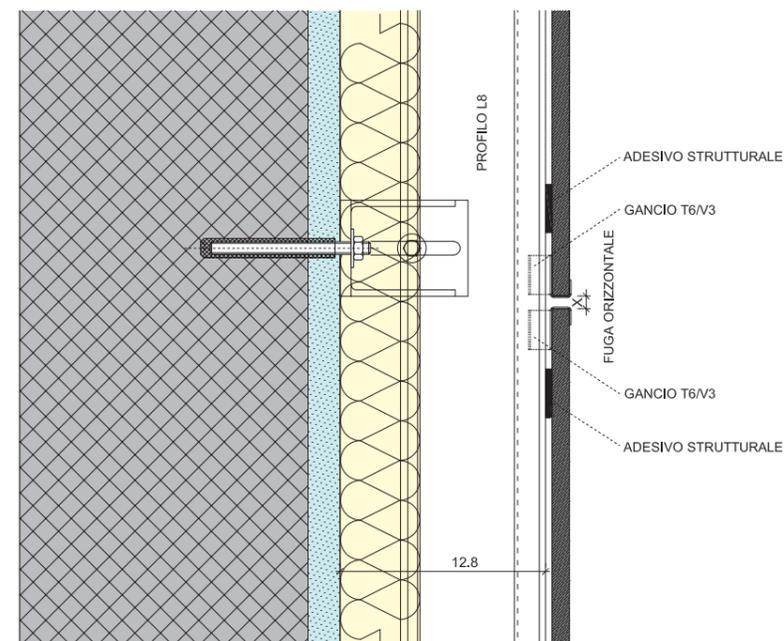
Standard solution for roof finishing

Vertical section - Scale 1:4



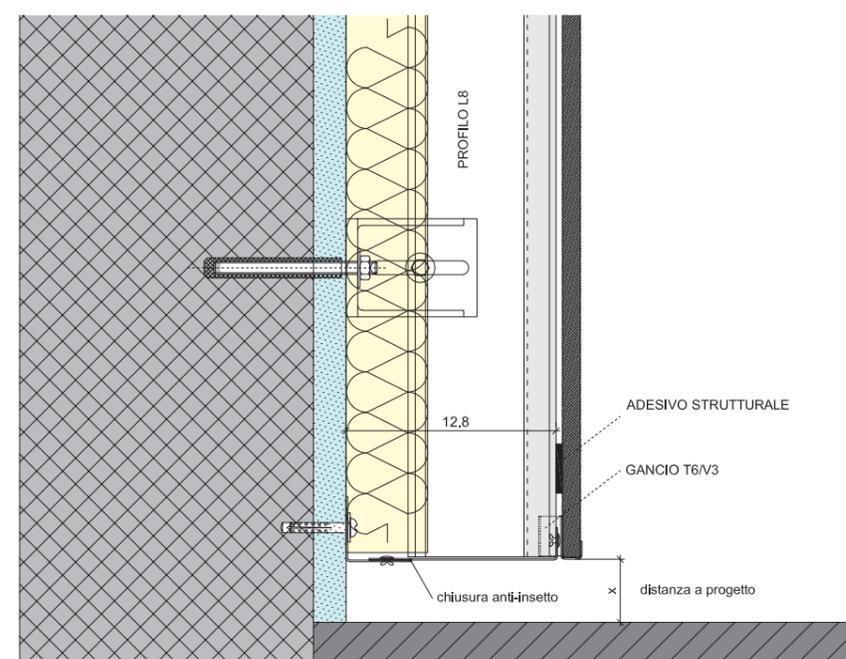
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for floor end

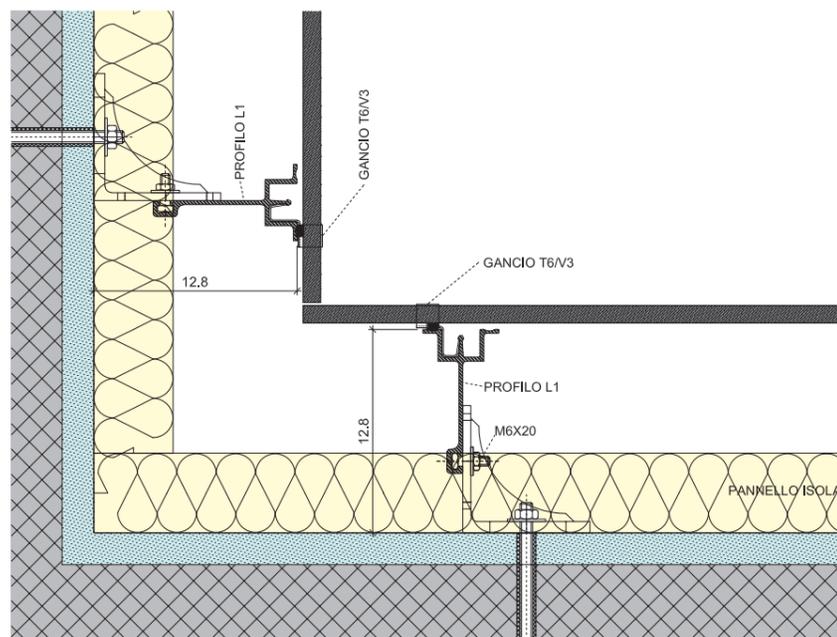
Vertical section - Scale 1:4



In partnership with DALLERA

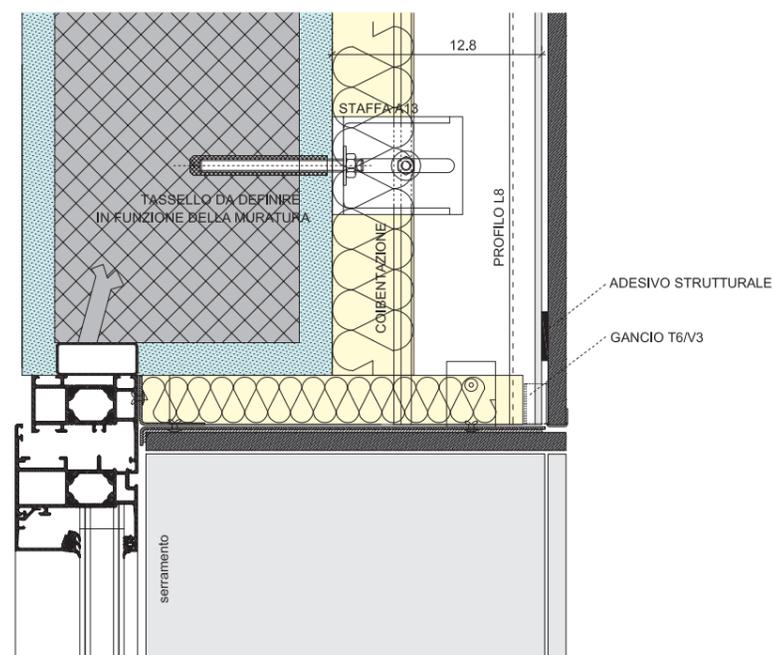
Standard solution for internal angle

Vertical section - Scale 1:4



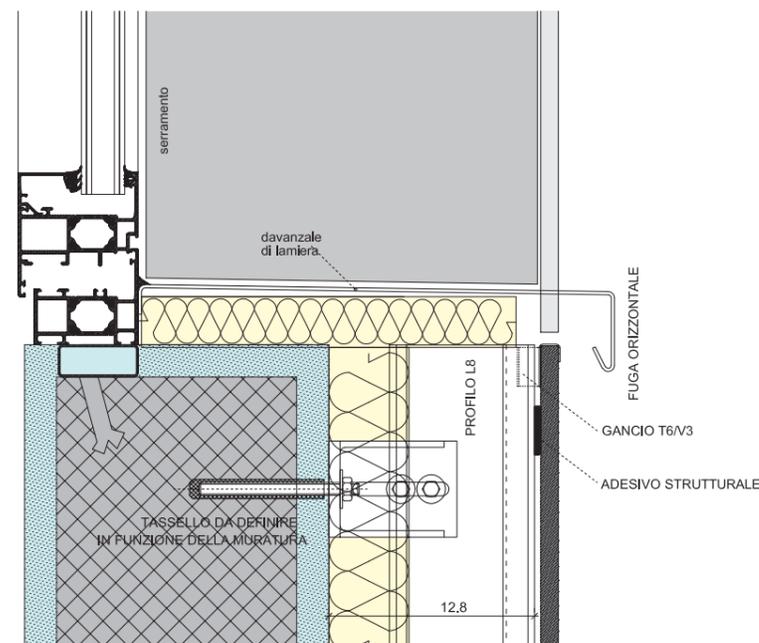
Standard solution for window head

Vertical section - Scale 1:4



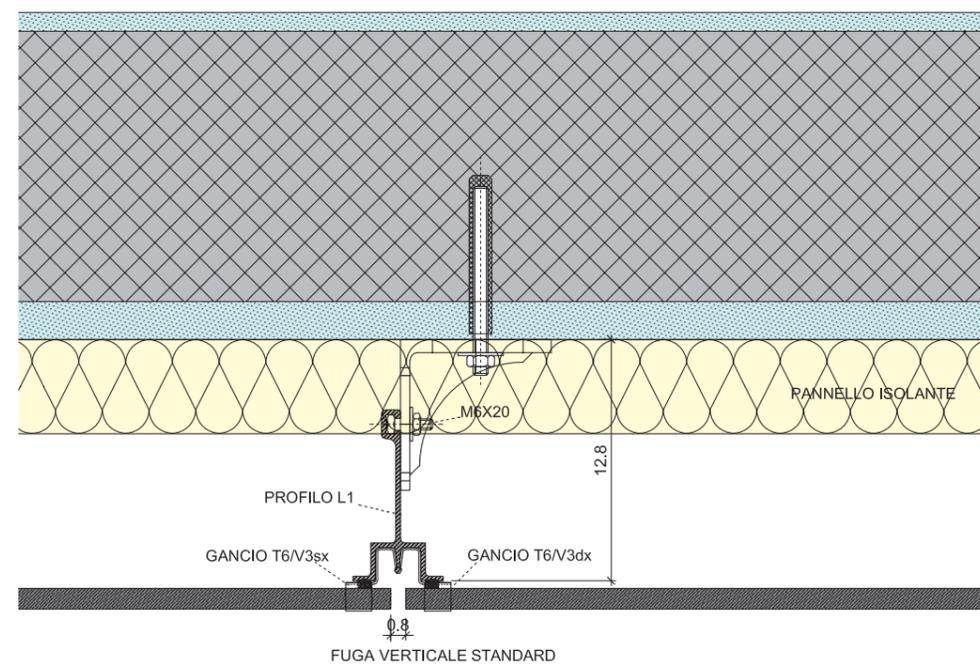
Standard solution below windowsill

Vertical section - Scale 1:4



Standard solution for mid-section

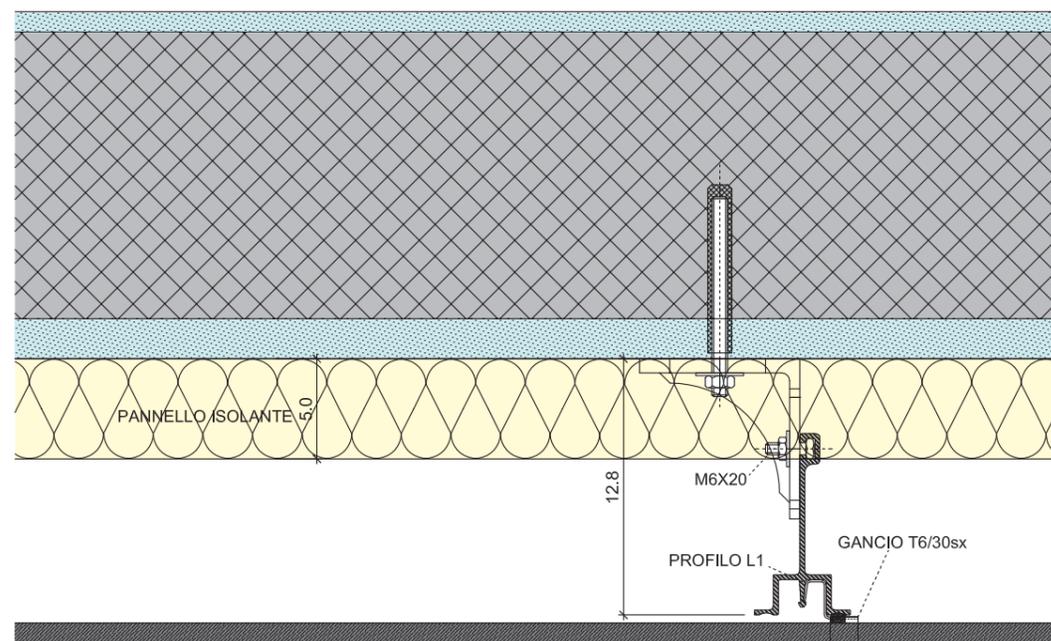
Vertical section - Scale 1:4



In partnership with **DALLERA**

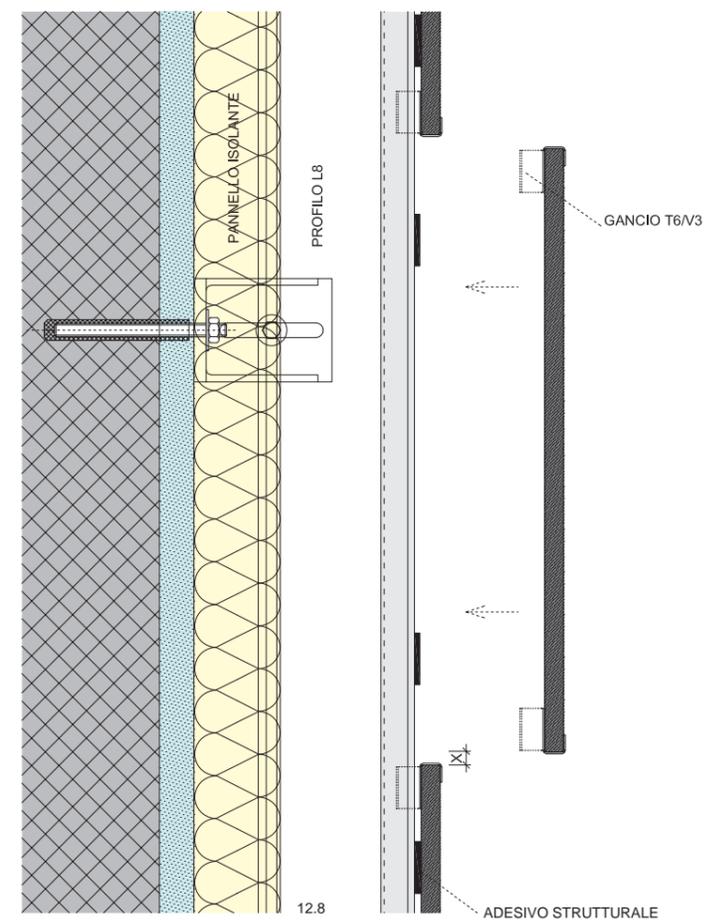
Standard closing solution

Vertical section - Scale 1:4



Tile mounting operation

Vertical section - Scale 1:4



In partnership with **DALLERA**

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING SLABS

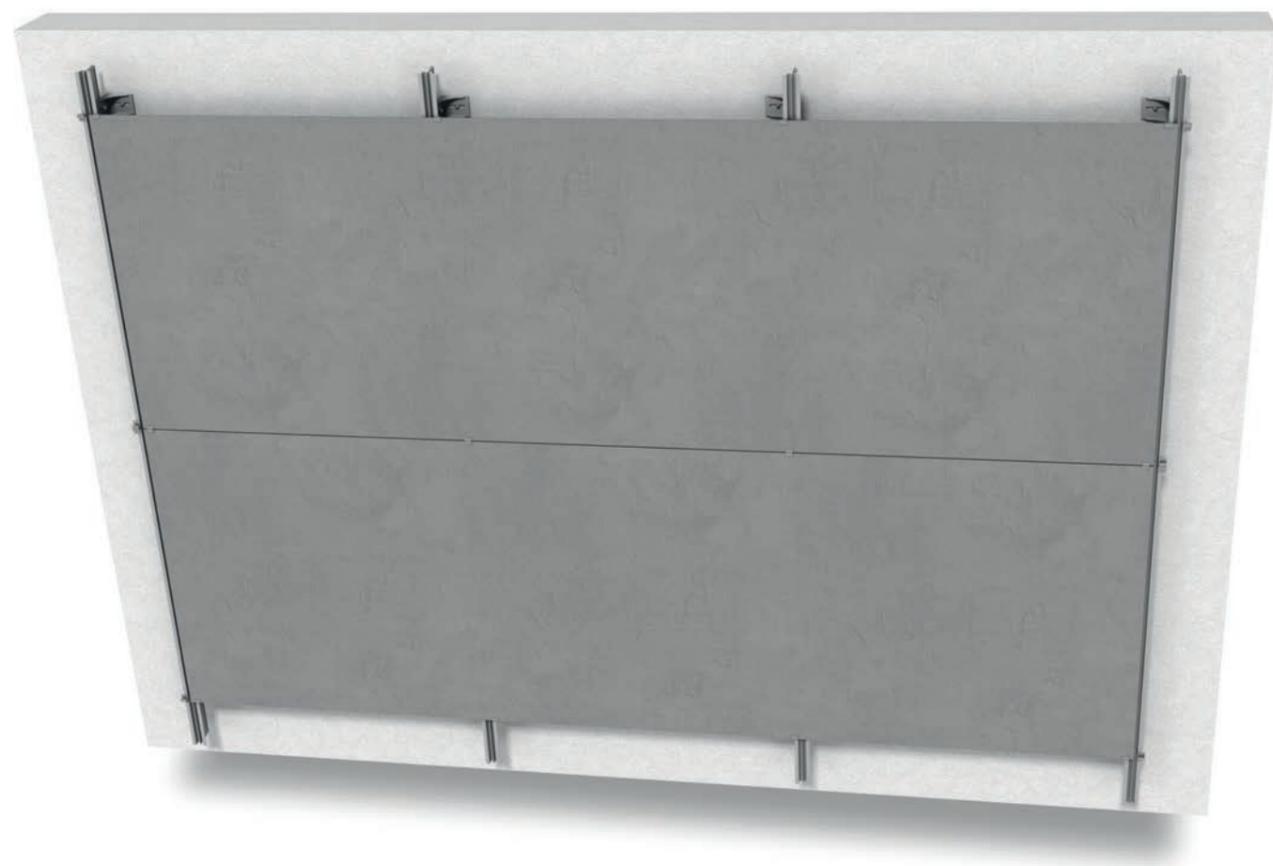
Laminated porcelain stoneware 3plus, 5plus or 6plus slabs

OPERATIONS CARRIED OUT ON THE SLAB

None

CLADDING SLAB SIZES

All sizes of product range



System components

The "LUNA VISTA system consists of the following 3 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 slabs "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" profile to the brackets;
- Anchoring dowels for fixing brackets to the wall, mechanically or with chemical resin as necessary;
- Silicone drops bonding the slabs to hooks and profile.

System description

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

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 slabs.

The cladding slabs 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 even from a small distance from the façade itself. Each slab 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 slab and the load on the wall.

Structural adhesive is also applied between the lateral edges of the profile and the back of the slab 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.

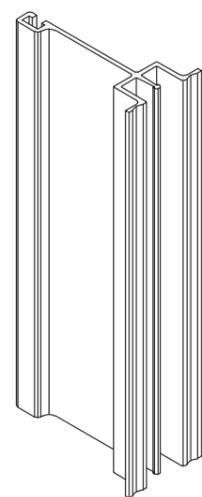
System sizes

- The standard distance between the wall and the back side of the slabs is 111 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the laminated porcelain stoneware slabs for this type of system is 3.5mm, 5.5 mm or 6.5 mm.

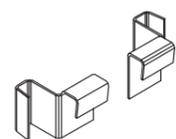


In partnership with **DALLERA**

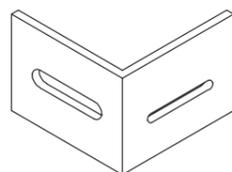
Standard components



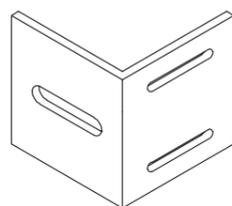
PROFILO L1



GANCI T6/V3 (dx e sx)



STAFFA SINGOLA

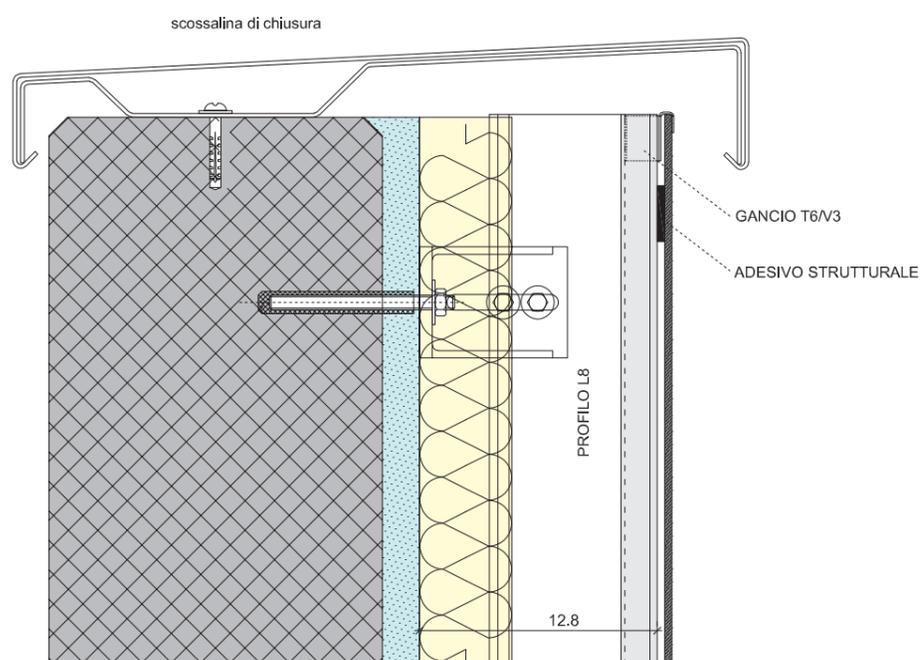


STAFFA DOPPIA

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

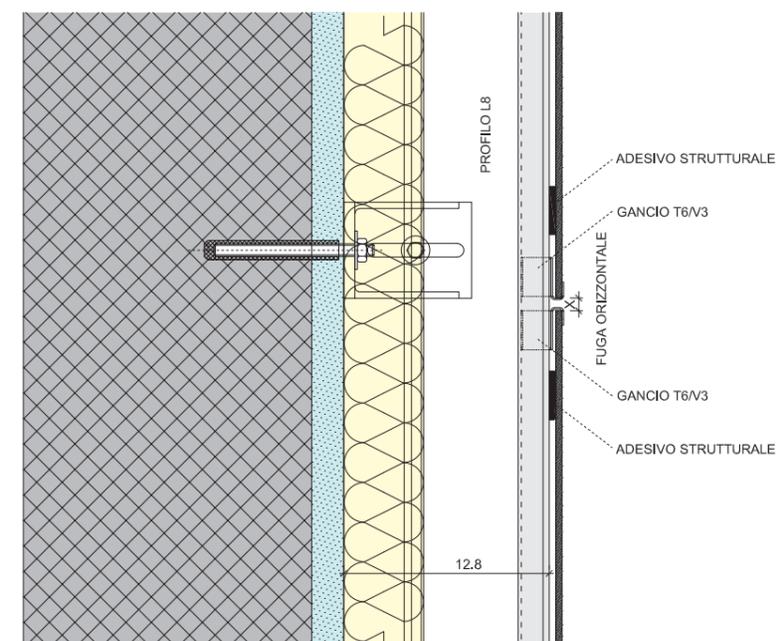
Standard solution for roof finishing

Vertical section - Scale 1:4



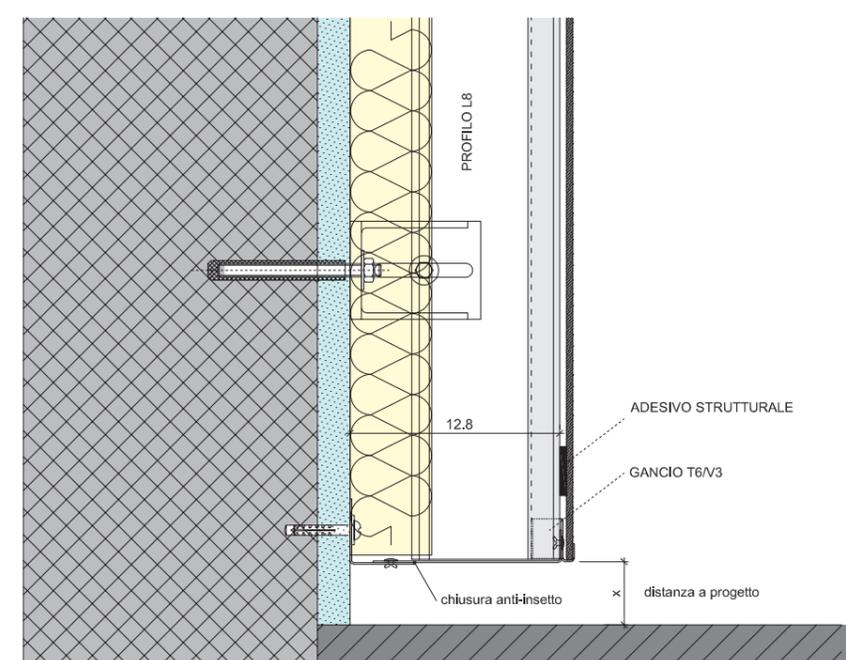
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for floor end

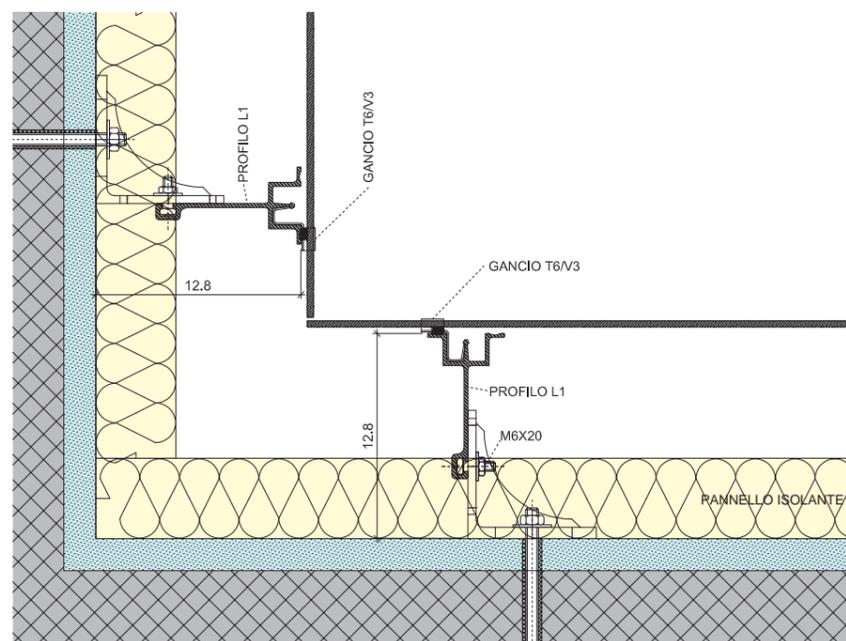
Vertical section - Scale 1:4



In partnership with **DALLERA**

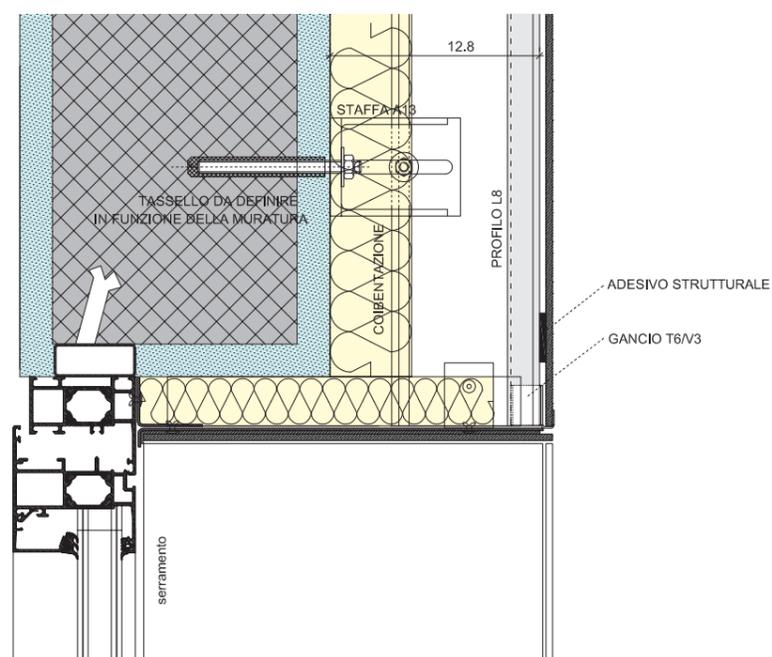
Standard solution for internal angle

Vertical section - Scale 1:4



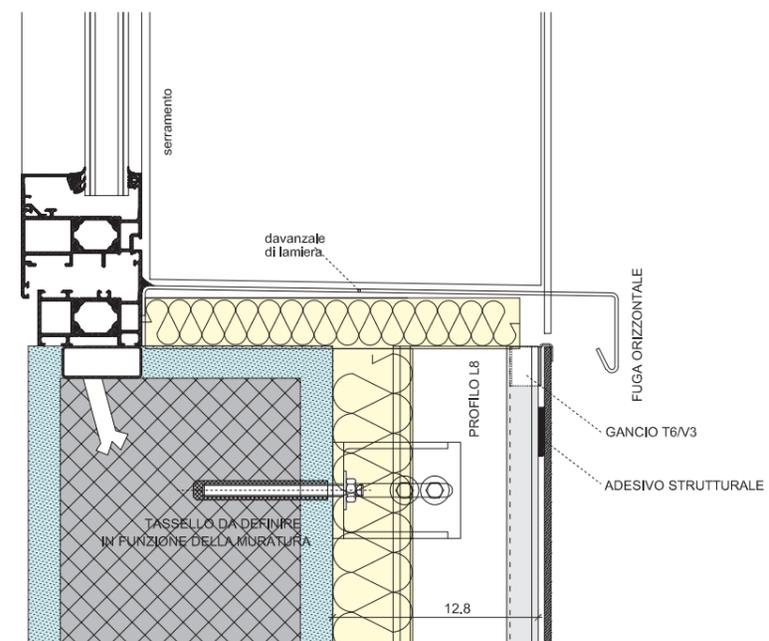
Standard solution for window head

Vertical section - Scale 1:4



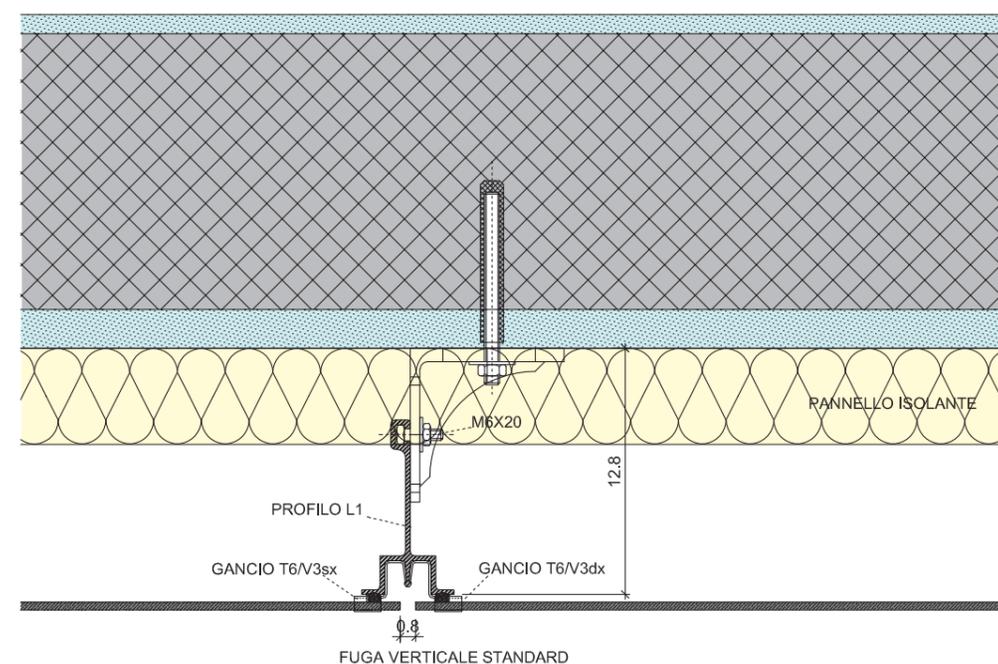
Standard solution below windowsill

Vertical section - Scale 1:4



Standard solution for mid-section

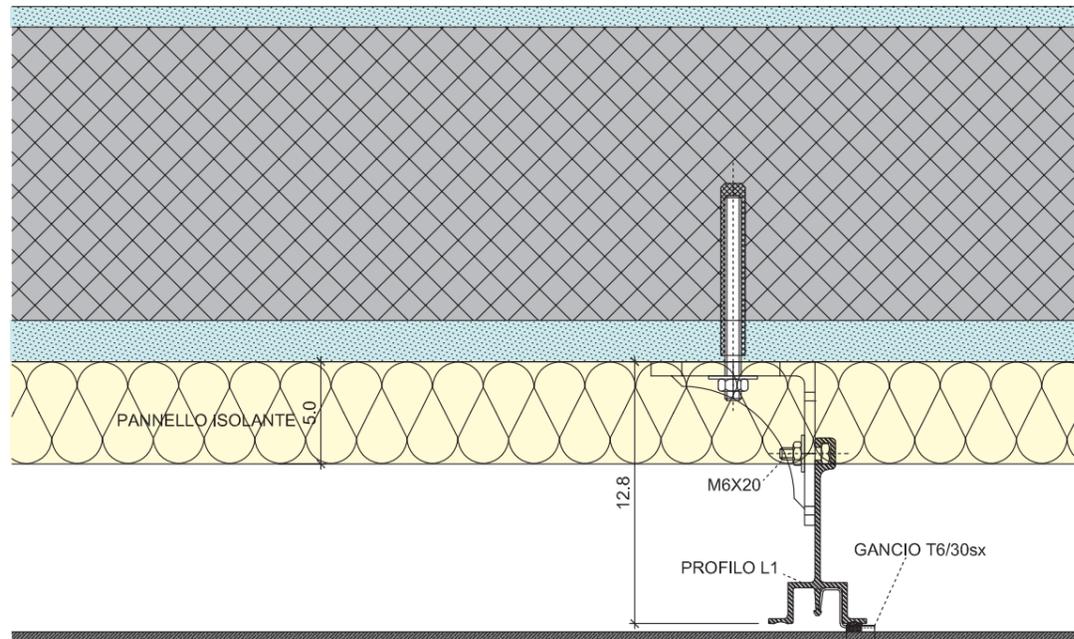
Vertical section - Scale 1:4



In partnership with DALLERA

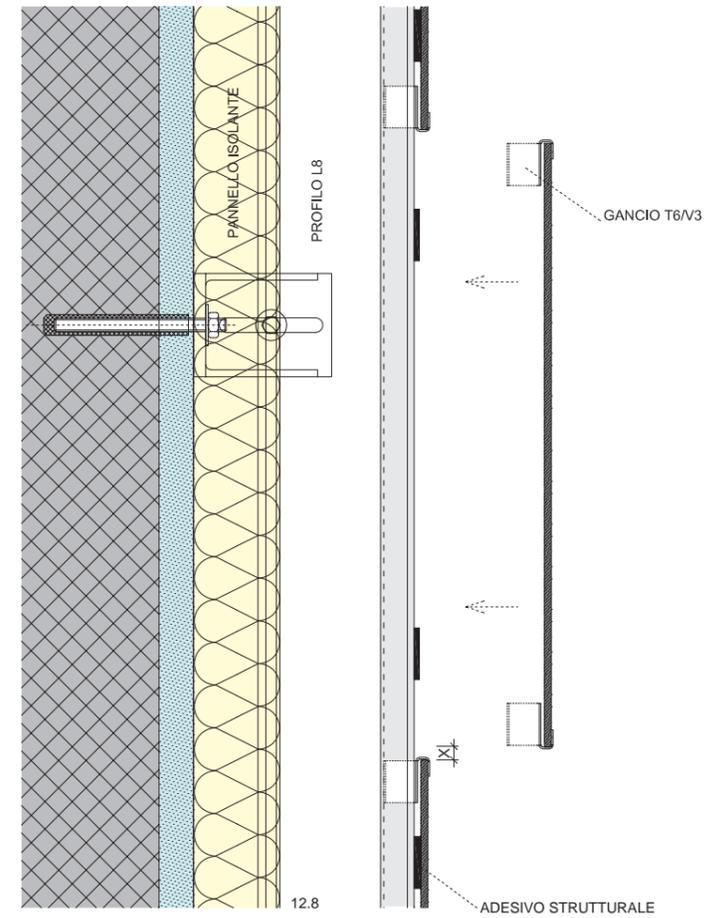
Standard closing solution

Vertical section - Scale 1:4



Tile mounting operation

Vertical section - Scale 1:4



In partnership with **DALLERA**

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES

Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

None

CLADDING TILE SIZES

All sizes of product range



System components

The "Venere Sormontato" 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 surface 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.

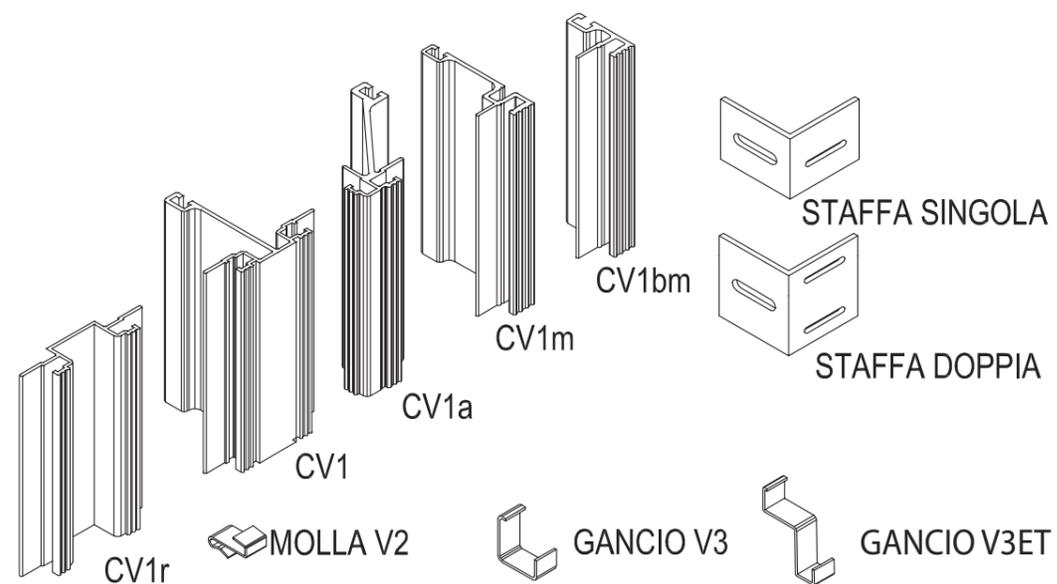
System sizes

- The standard distance between the wall and the back side of the tile is 110 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of porcelain stoneware tiles for this type of system is from 9.5 to 20 mm.



In partnership with DALLERA

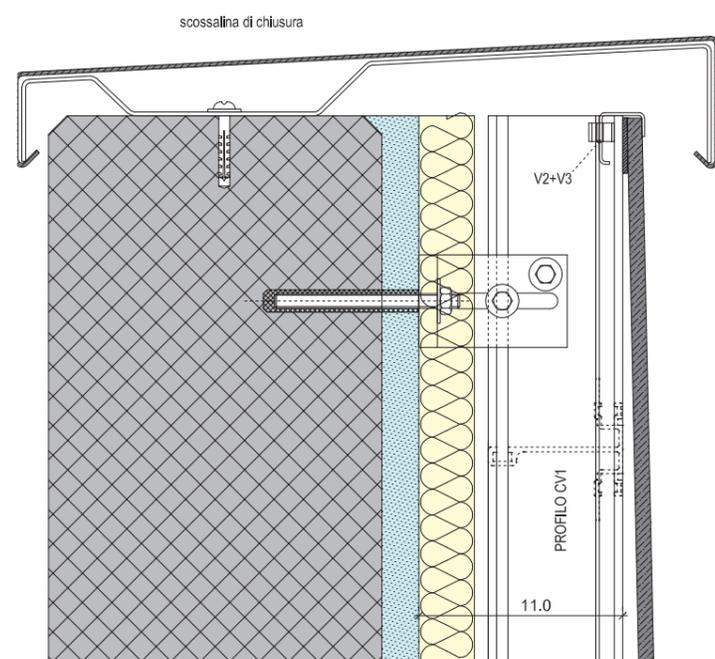
Standard components



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

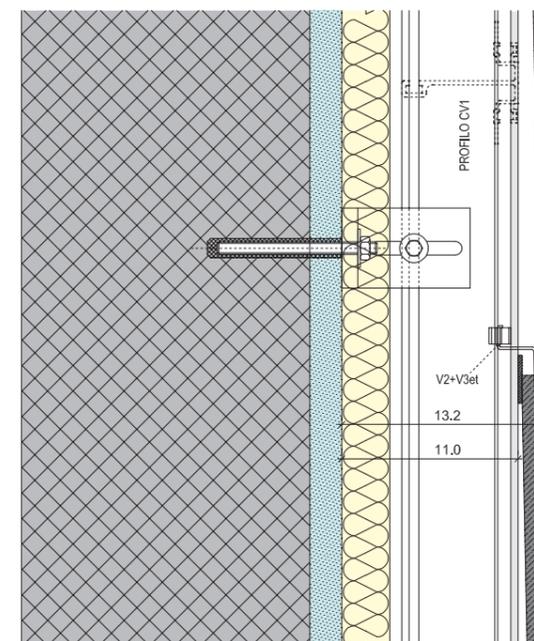
Standard solution for roof finishing

Vertical section - Scale 1:4



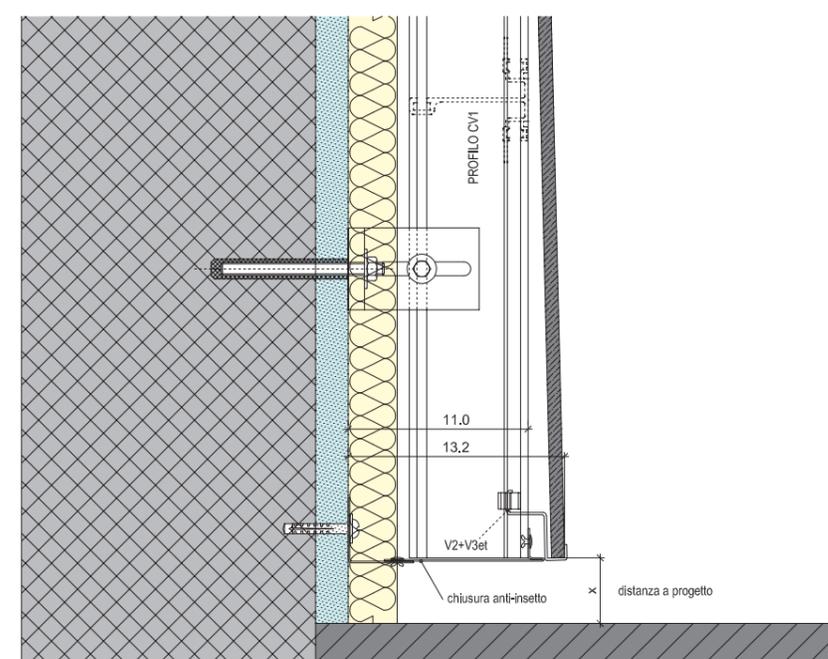
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for floor end

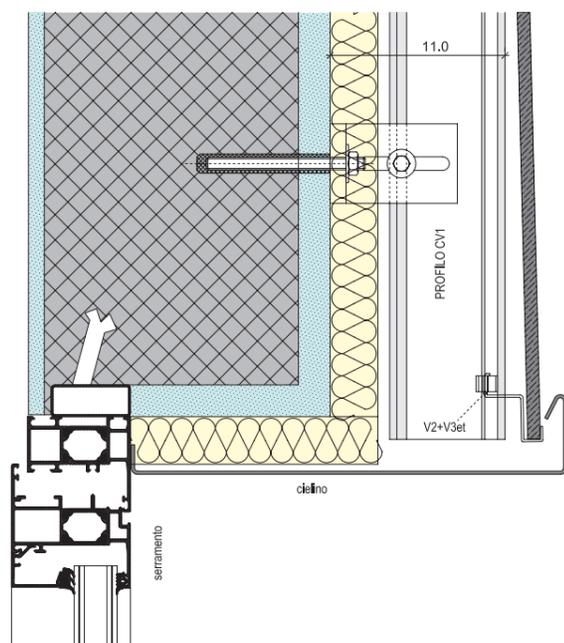
Vertical section - Scale 1:4



In partnership with **DALLERA**

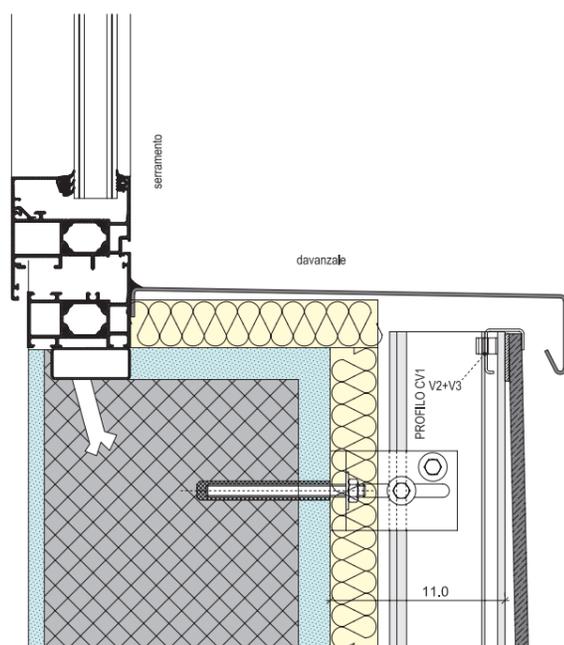
Standard solution for window head

Vertical section - Scale 1:4



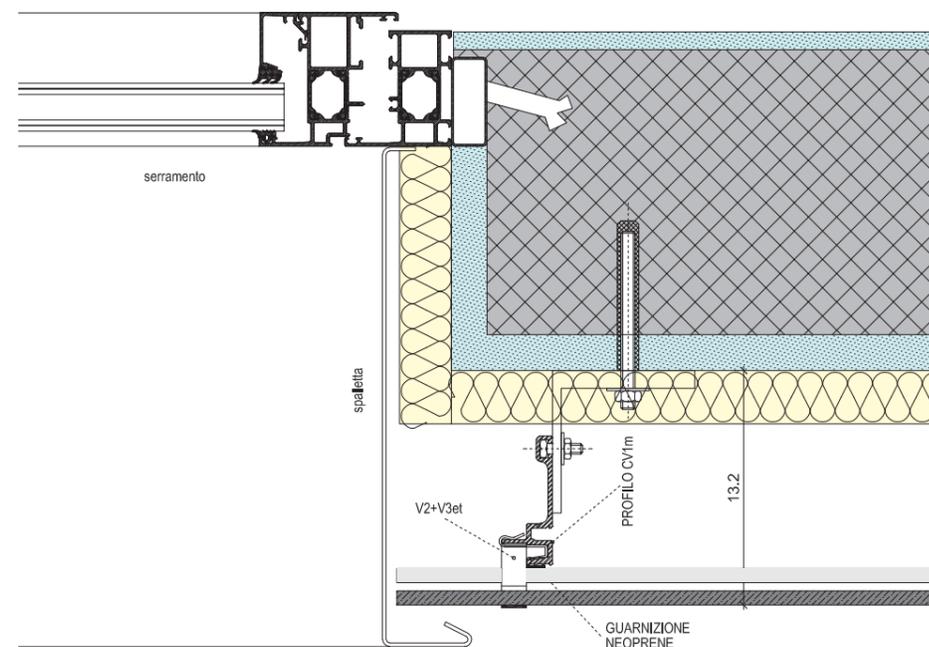
Standard solution below windowsill

Vertical section - Scale 1:4



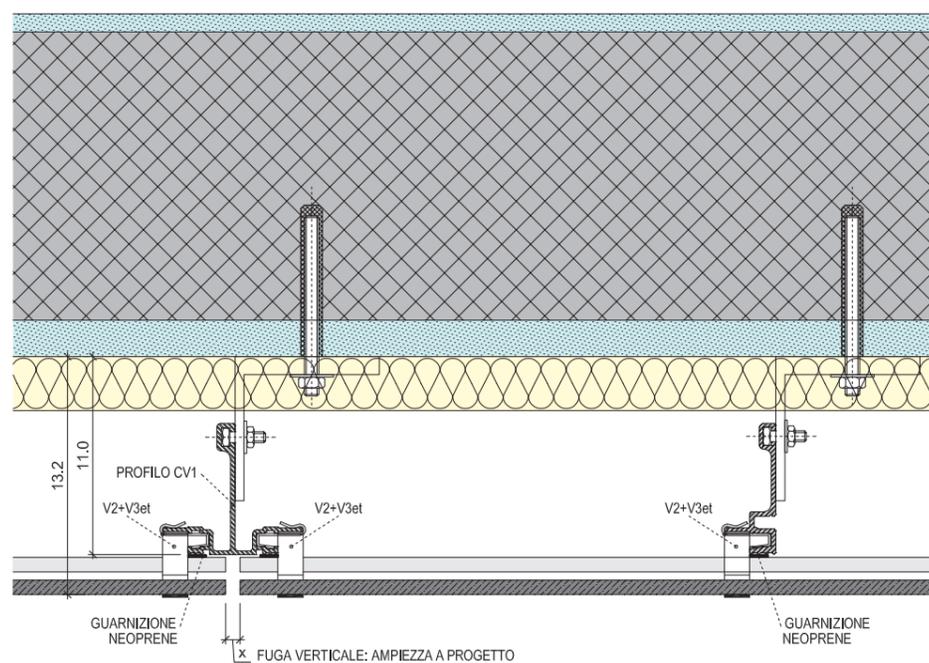
Standard solution for window head

Vertical section - Scale 1:4



Standard solution for mid-section

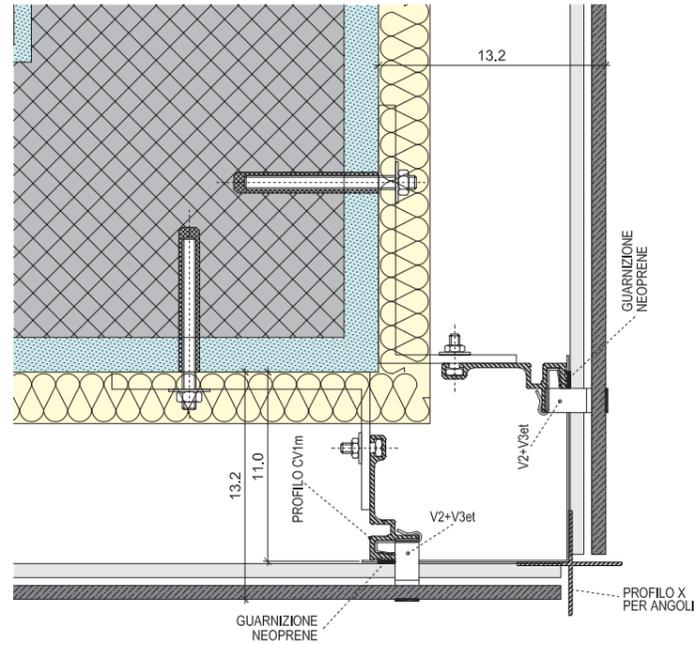
Vertical section - Scale 1:4



In partnership with DALLERA

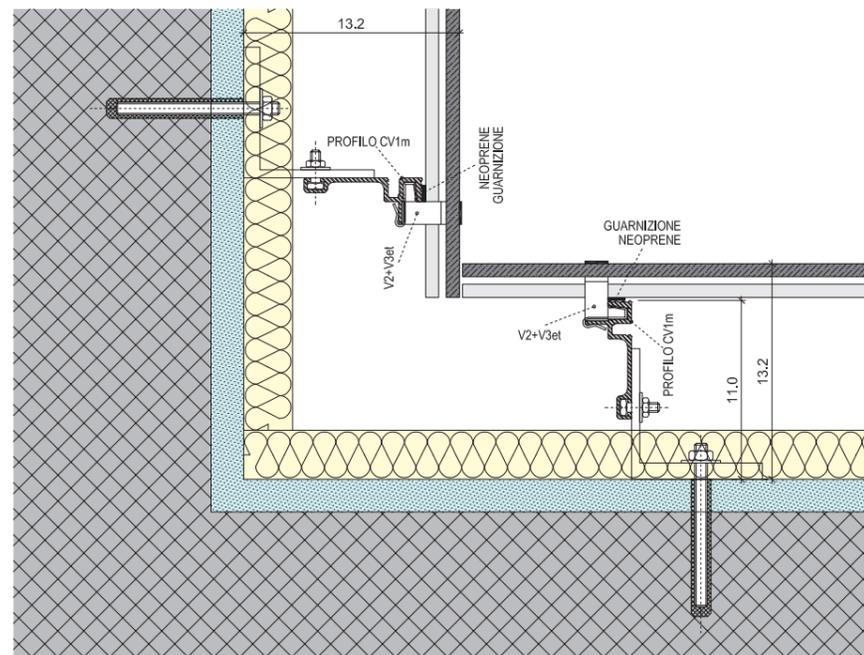
Standard solution for external angle

Vertical section - Scale 1:4



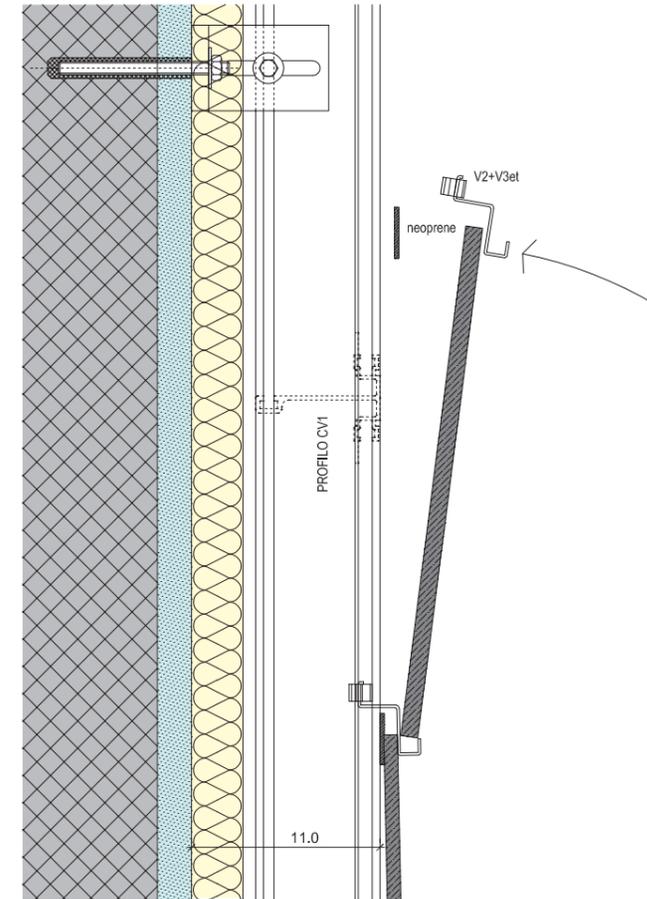
Standard solution for internal angle

Vertical section - Scale 1:4



Tile mounting operation

Vertical section - Scale 1:4



In partnership with **DALLERA**

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING SLABS

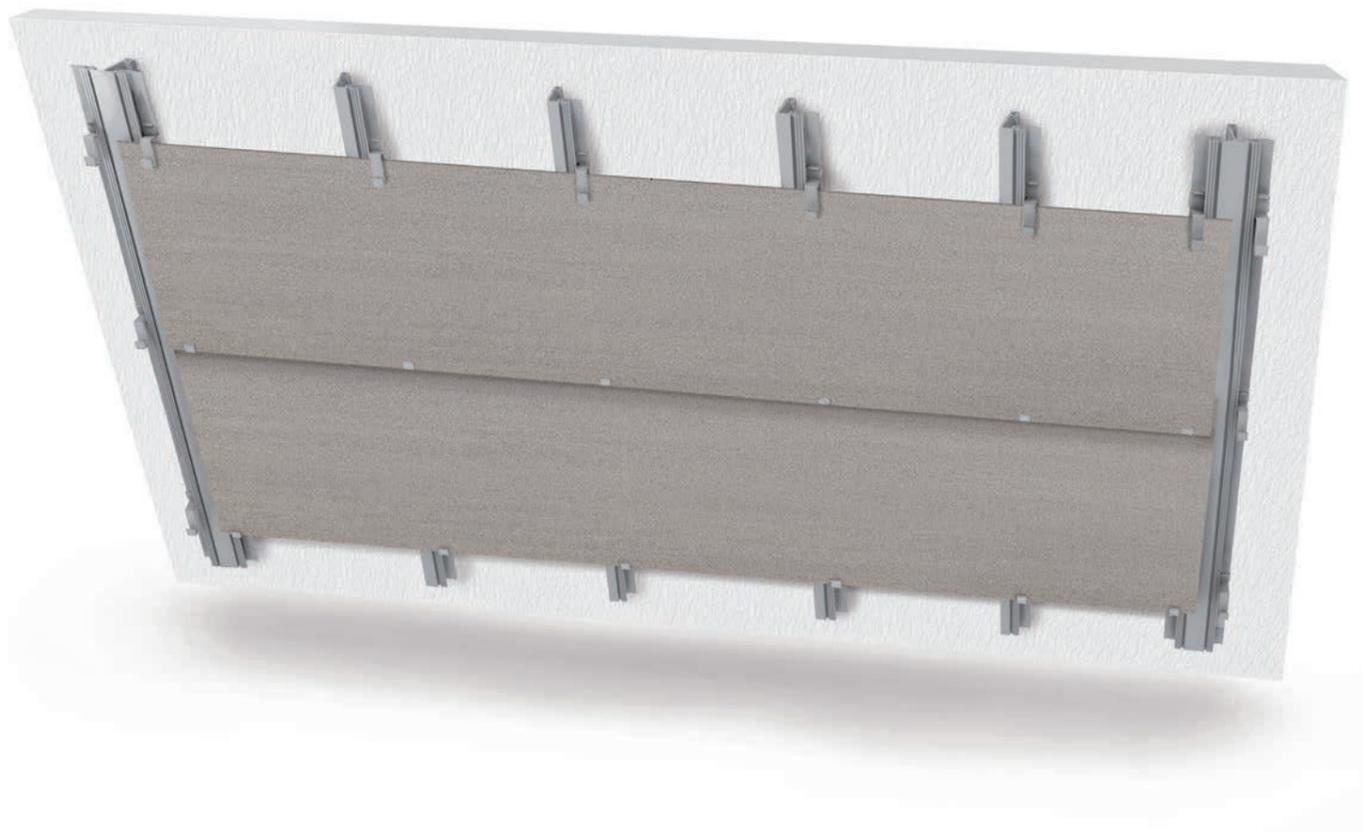
Laminated porcelain stoneware 3plus, 5plus or 6 plus slabs

OPERATIONS CARRIED OUT ON THE SLAB

None

CLADDING SLAB SIZES

Maximum size 300x50 cm



System components

The "Venere Sormontato" system consists of the following elements:

- Extruded "CV1" profile in aluminium alloy EN 6060 T5 (or similar, according to requirements);
- Support hooks of the slabs "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 slabs 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 slab, 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 slab 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 slab 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 slab is settled in a almost-vertical position, so that the upper slab surmounts the inferior slab about 1 cm. The slabs 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 surface so that they are not visible even from a small distance from the façade itself.

Each slab 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 slab can be set up 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.

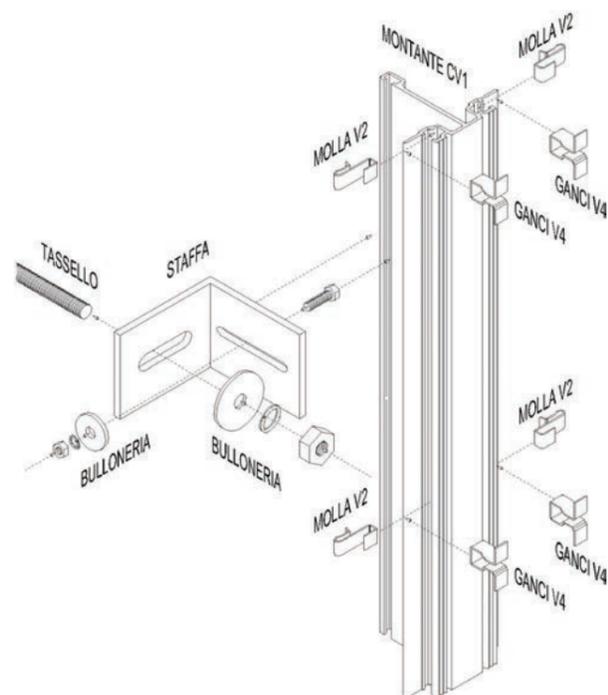
SYSTEM SIZES:

- The supporting structure allows any type of adjustment; it is able to protect from wind loads and allows the thermal expansion of the different components.
- The standard thickness of the laminated porcelain stoneware slabs for this type of system is 3.5 mm, 5.5 mm or 6.5 mm.



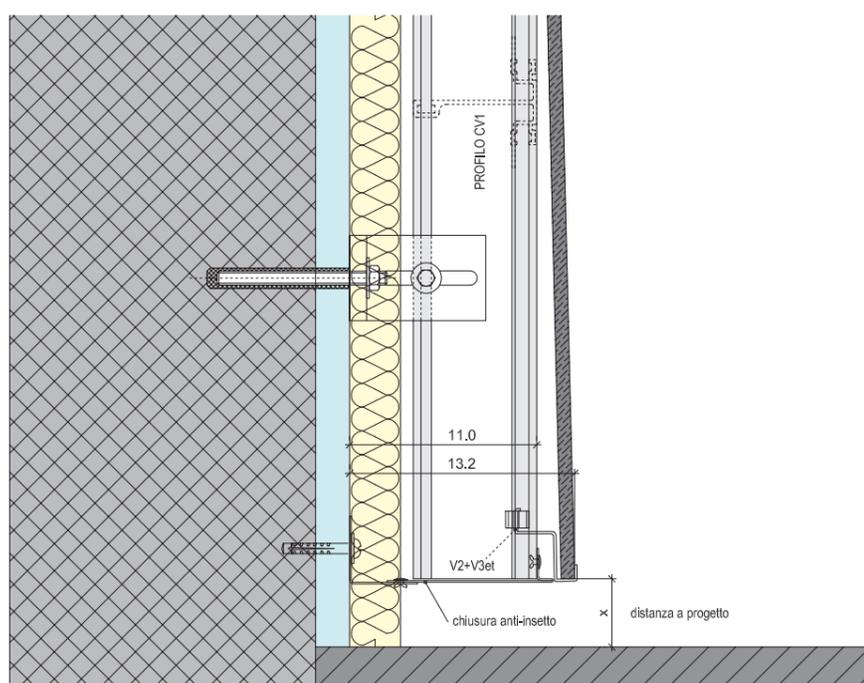
In partnership with DALLERA

Standard components



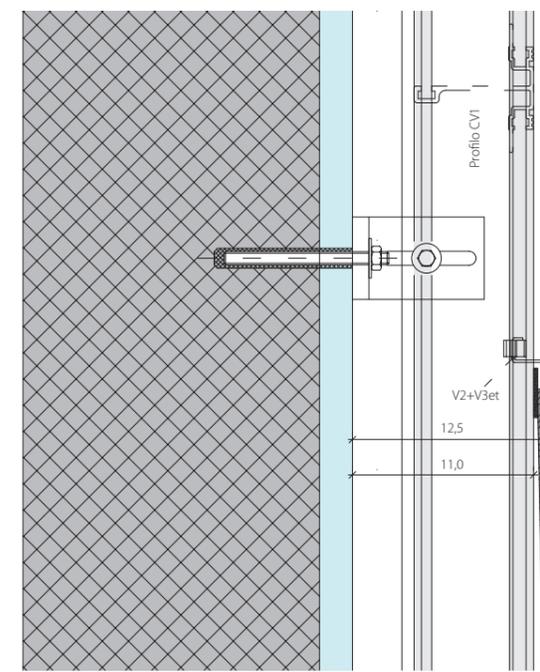
Standard solution for roof finishing

Vertical section - Scale 1:4



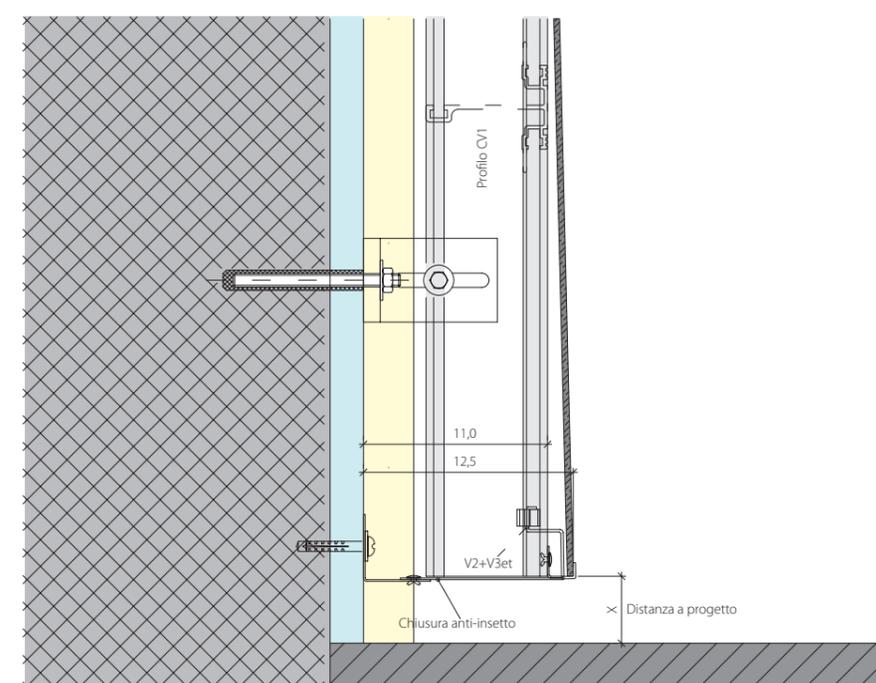
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for floor end

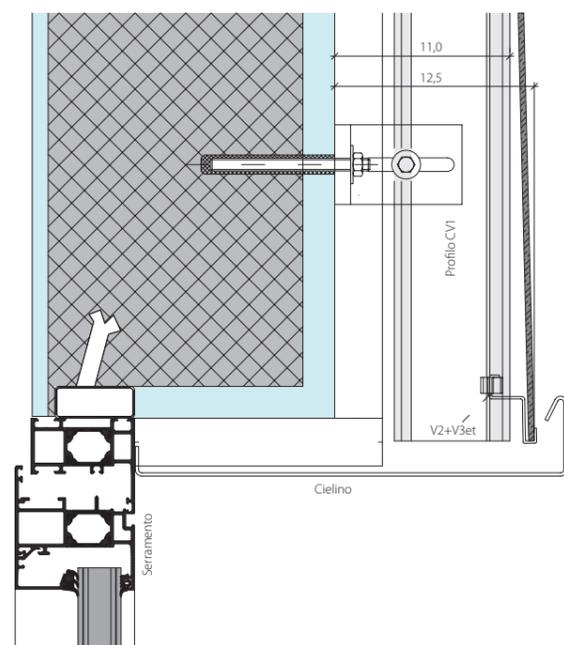
Vertical section - Scale 1:4



In partnership with **DALLERA**

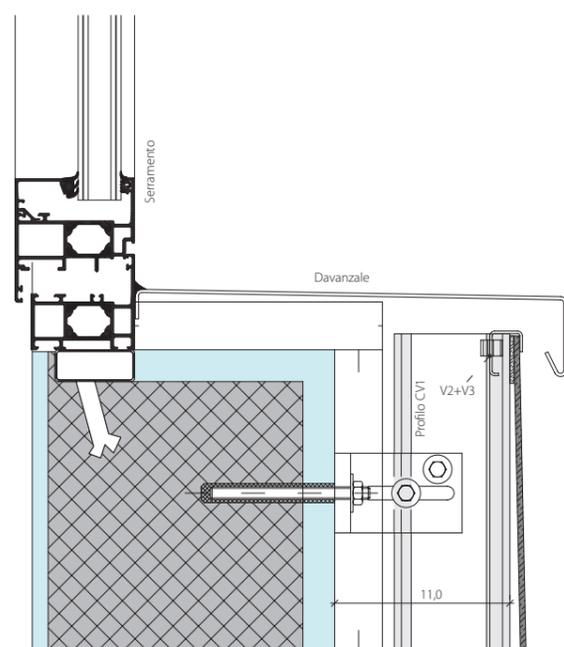
Standard solution for window head

Vertical section - Scale 1:4



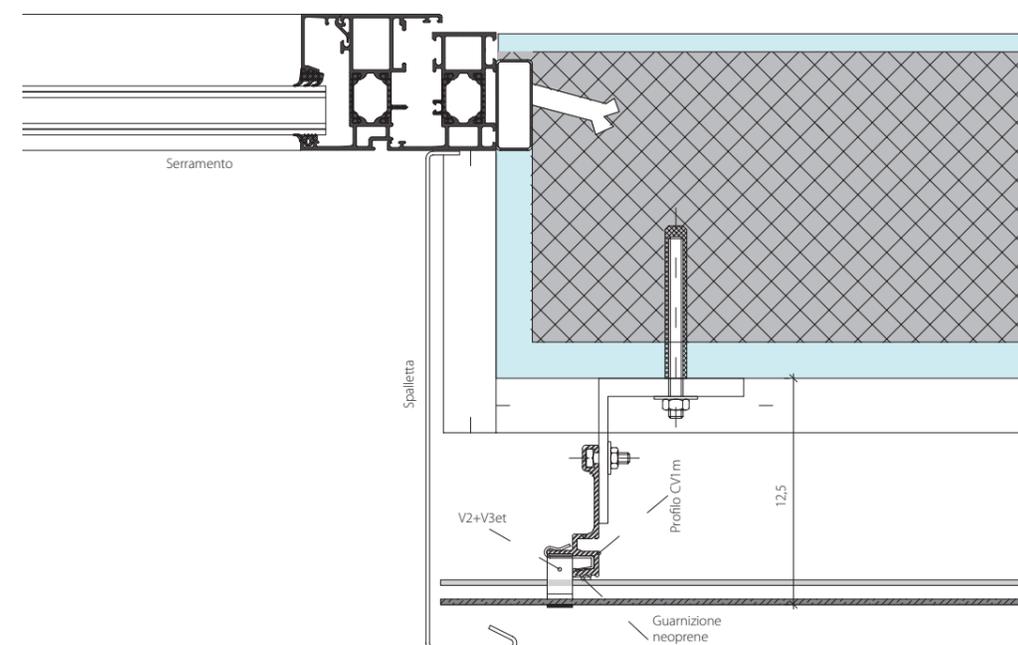
Standard solution below windowsill

Vertical section - Scale 1:4



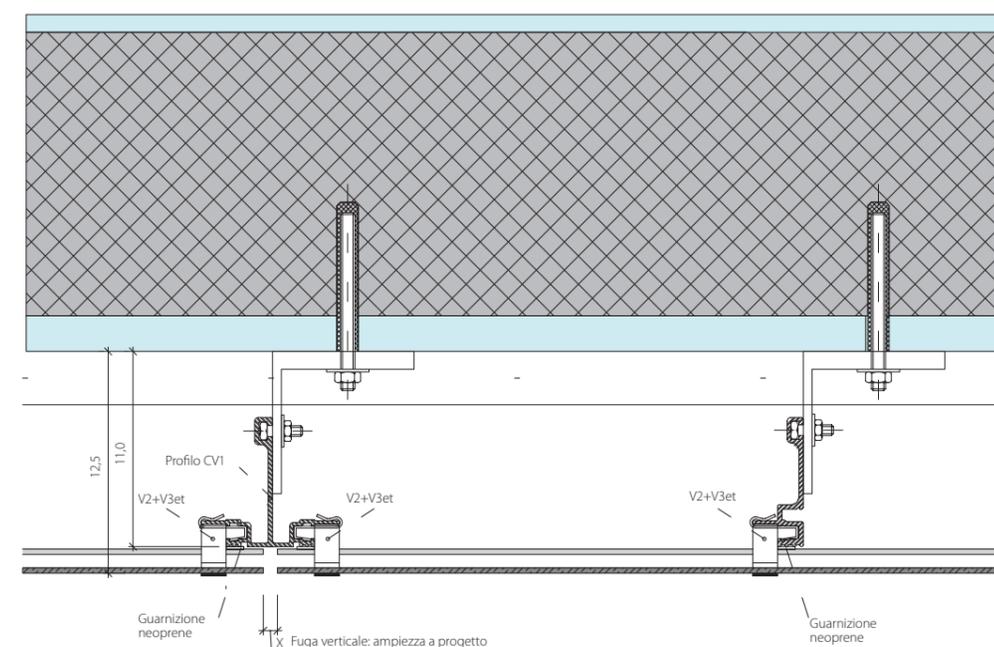
Standard solution for window head

Vertical section - Scale 1:4



Standard solution for mid-section

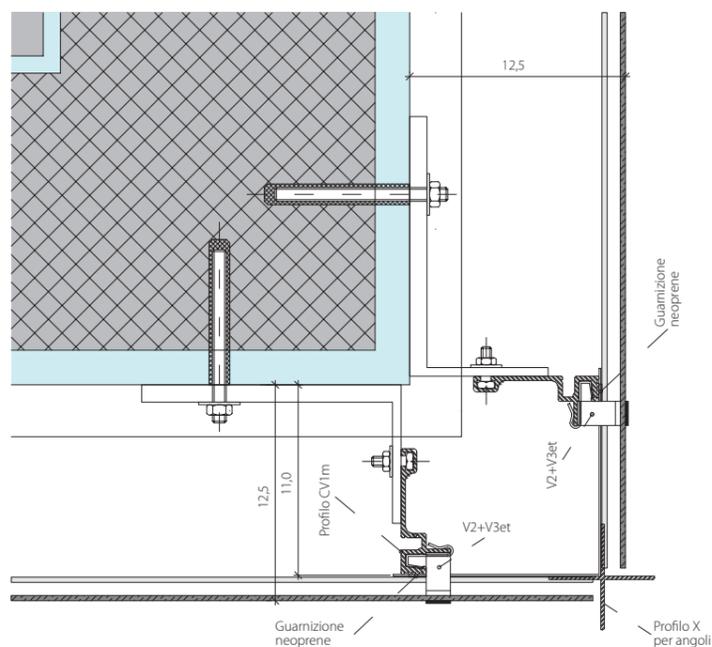
Vertical section - Scale 1:4



In partnership with **DALLERA**

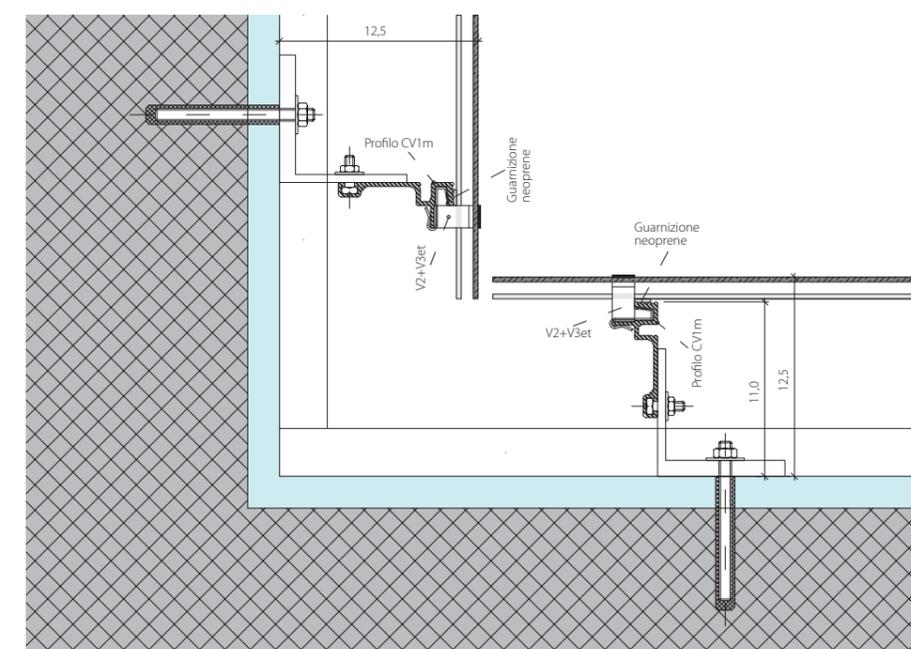
Standard solution for external angle

Vertical section - Scale 1:4



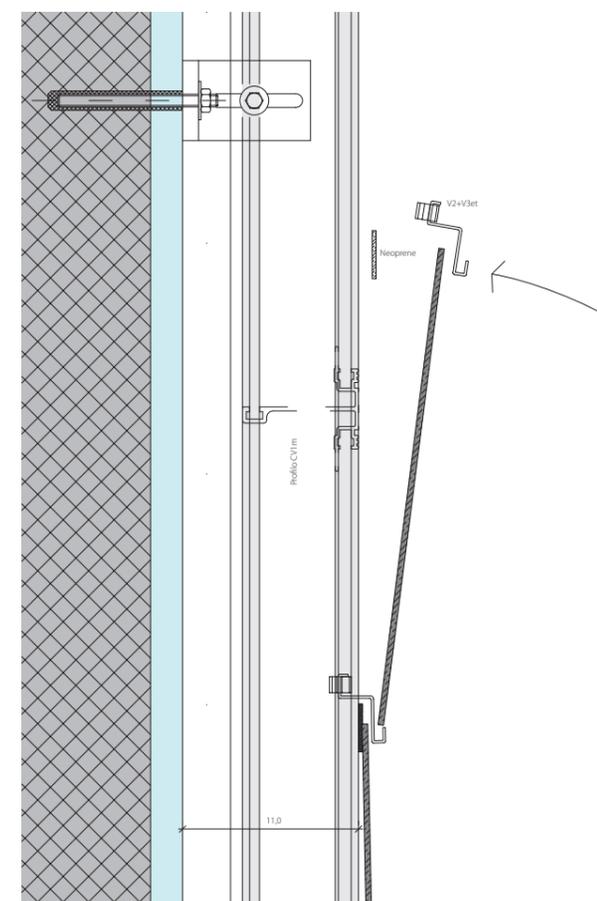
Standard solution for internal angle

Vertical section - Scale 1:4



Tile mounting operation

Vertical section - Scale 1:4



In partnership with **ADERMA**

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING SLABS

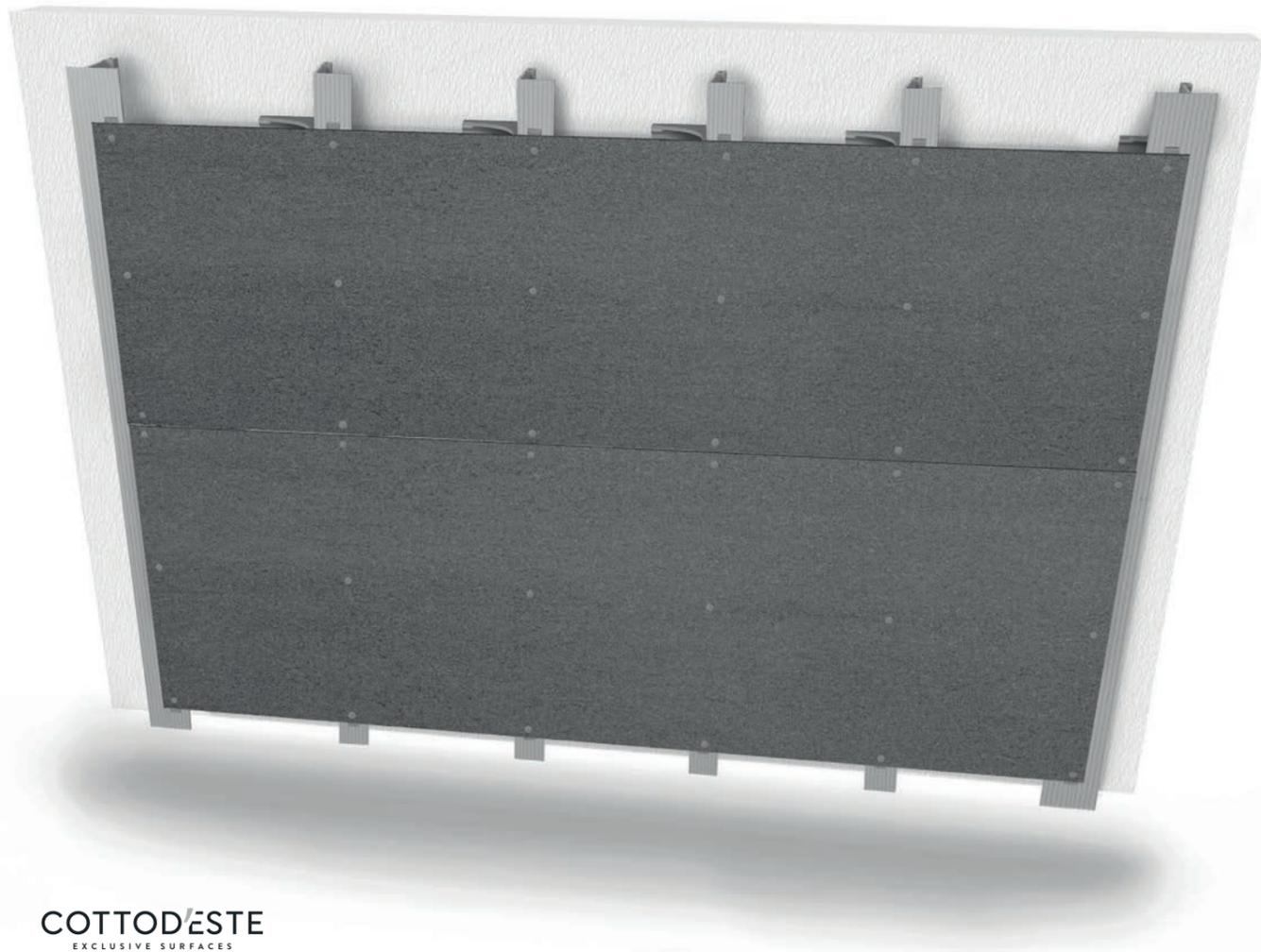
Laminated porcelain stoneware 3plus, 5plus or 6plus slabs

OPERATIONS CARRIED OUT ON THE SLAB

Through drilling

CLADDING SLAB SIZES

All sizes of product range



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 slab 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 slabs 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 slab and the joint of project, and a profile "ET1m" in intermediary points. Their pitch is determined by the width of the slabs 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 slabs, and a solid element for the application of the rivets (or other fasteners) for the fixing of the slabs.

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

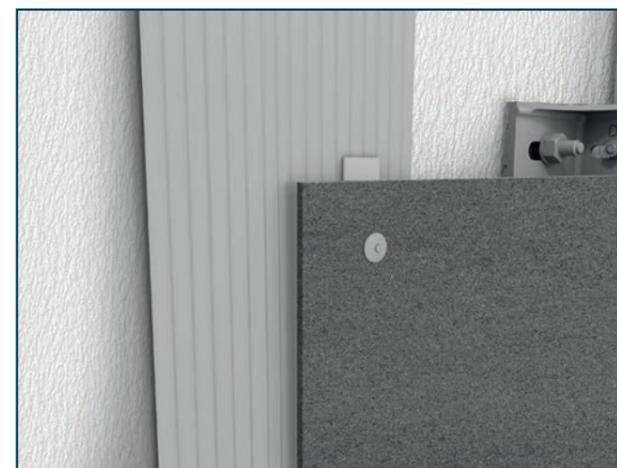
Each slab is bonded with the hooks and the vertical profile using neoprene gasket strips of adequate thickness and silicone drops, when needed.

The main characteristic of the "Sirio" system is that sheets are mounted on the front part by means of rivets that are visible from outside; thus sheets must be drilled before laying. The drilling diagram of sheets with the sizes of holes and their positions is made in line with the technical instruction given by the companies producing sheets to guarantee the optimal utilization of sheets 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 slabs to appear almost invisible from very close.

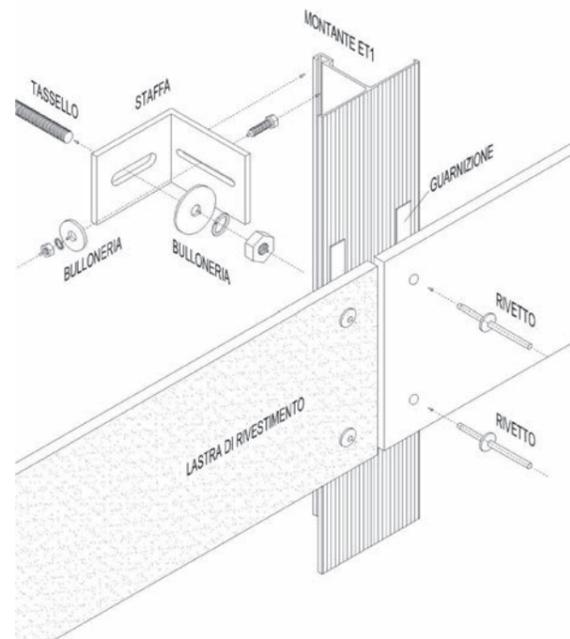
System sizes

- The standard distance between the wall and the back side of the slabs is 110 mm, with a standard adjustment range of ± 25 mm.
- The standard thickness of the laminated porcelain stoneware slabs for this type of system is 3.5 mm, 5.5 mm or 6.5 mm.



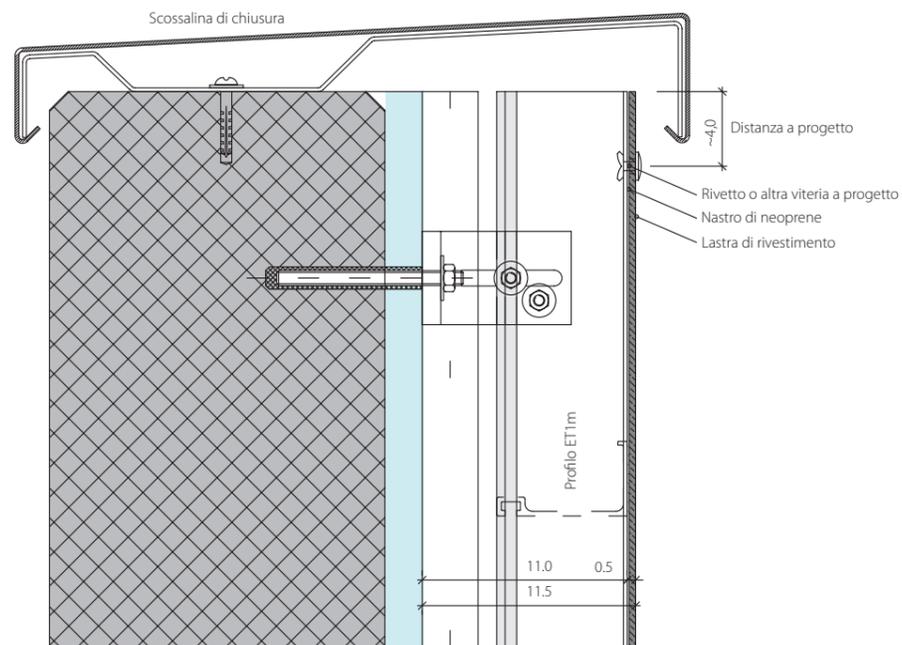
In partnership with ADERMA

Standard components



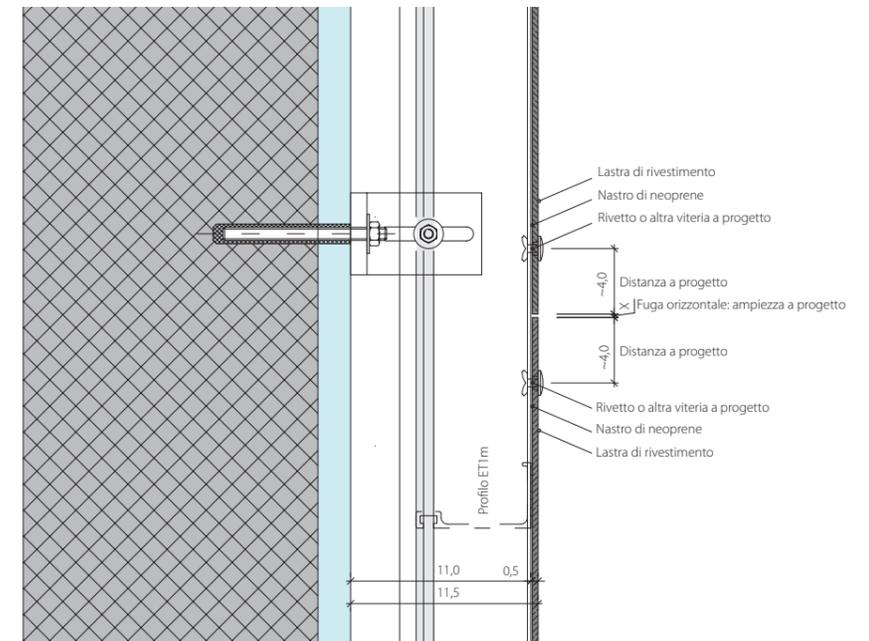
Standard solution for roof finishing

Vertical section - Scale 1:4



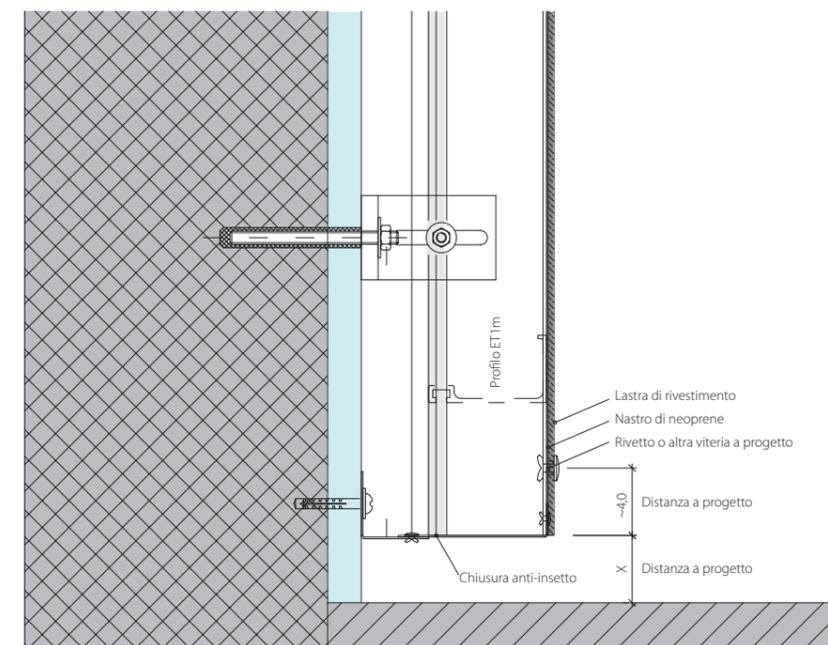
Standard solution for mid-section

Vertical section - Scale 1:4



Standard solution for floor end

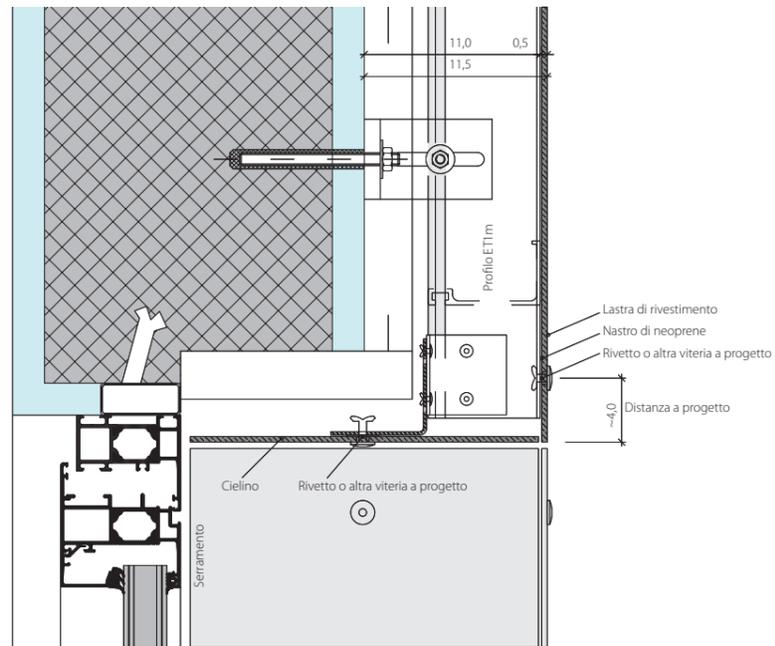
Vertical section - Scale 1:4



In partnership with ADERMA

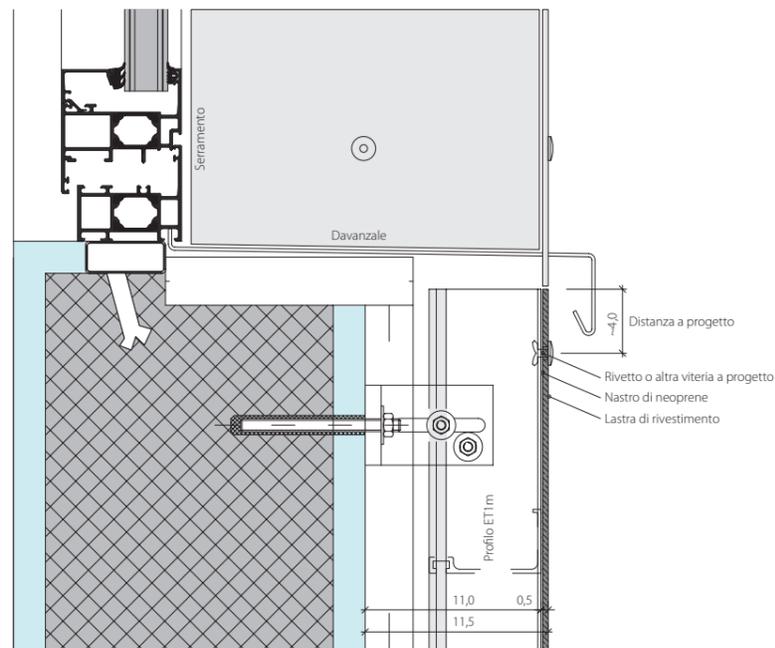
Standard solution for window head

Vertical section - Scale 1:4



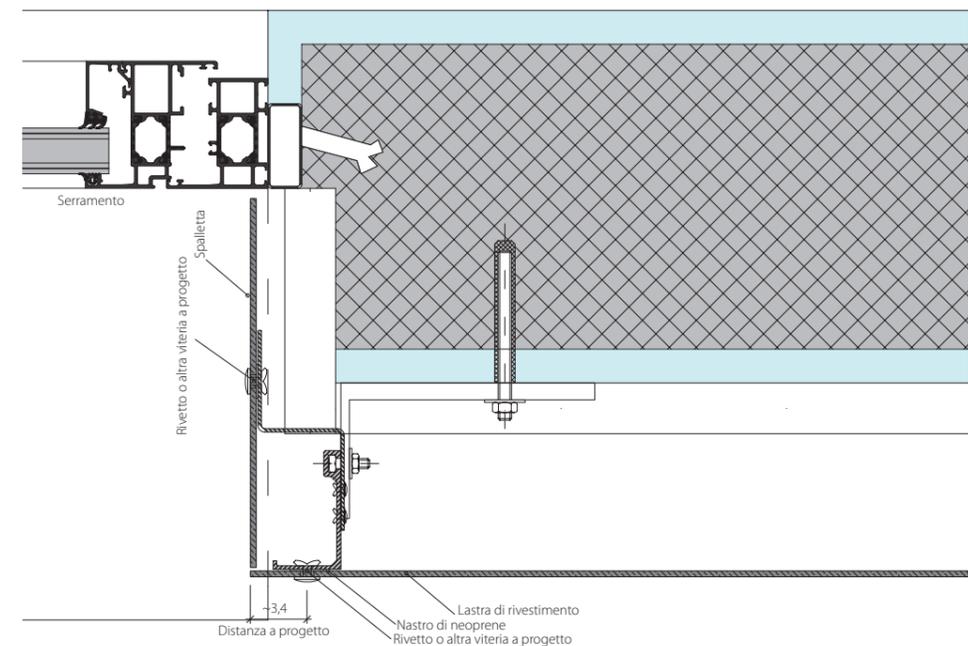
Standard solution below windowsill

Vertical section - Scale 1:4



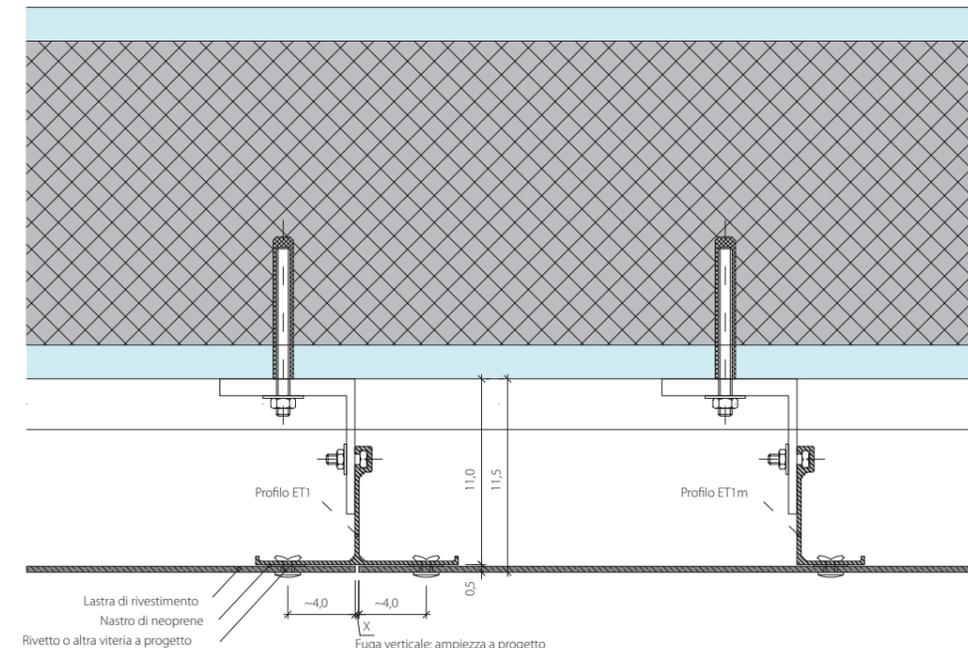
Standard solution for window head

Vertical section - Scale 1:4



Standard solution for mid-section

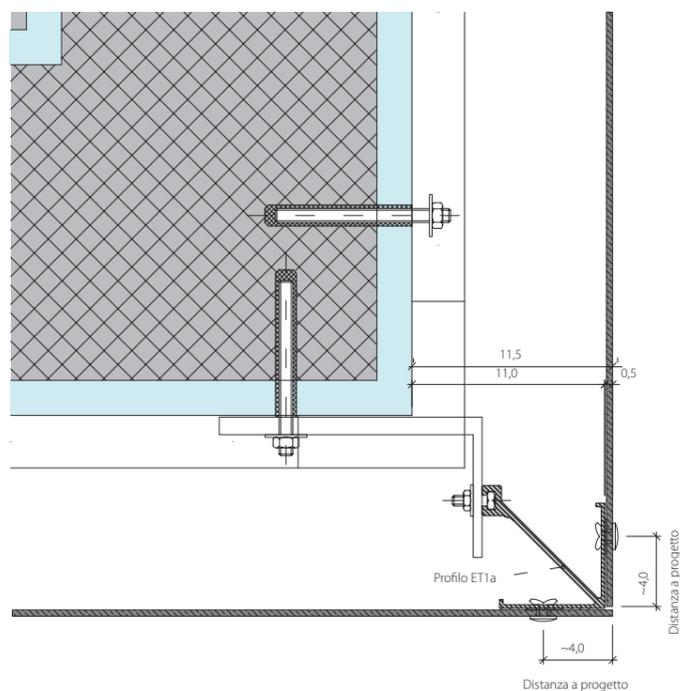
Vertical section - Scale 1:4



In partnership with **ADERMA**

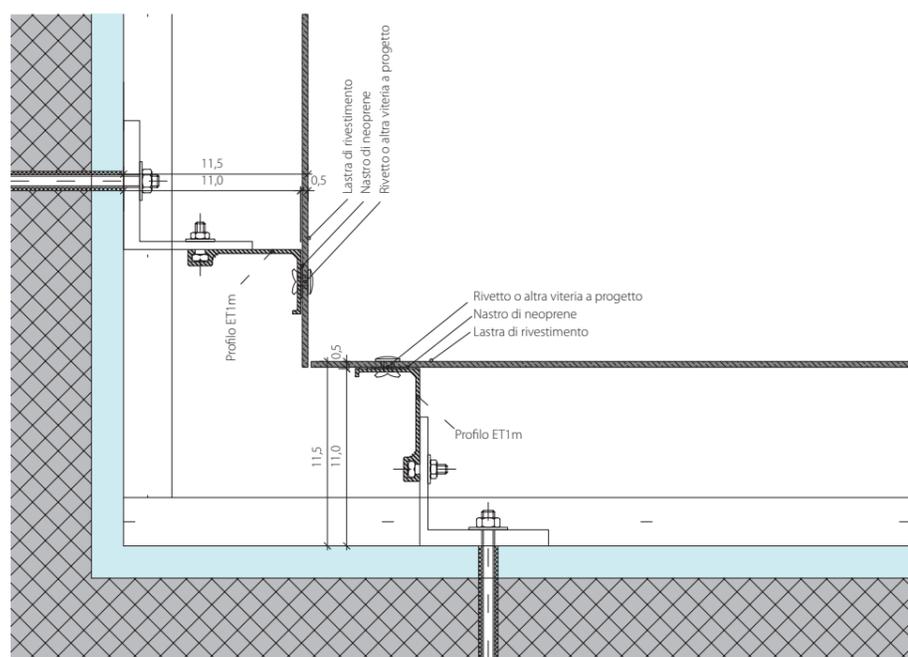
Standard solution for external angle

Vertical section - Scale 1:4



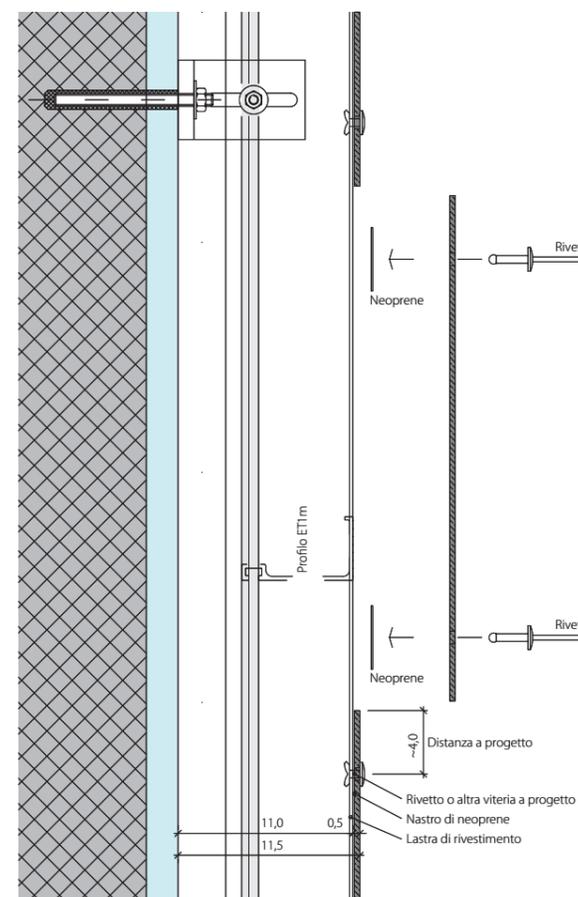
Standard solution for internal angle

Vertical section - Scale 1:4



Tile mounting operation

Vertical section - Scale 1:4



In partnership with **FISCHER**

SYSTEM TYPE

Visible hooks

TYPE OF CLADDING TILES

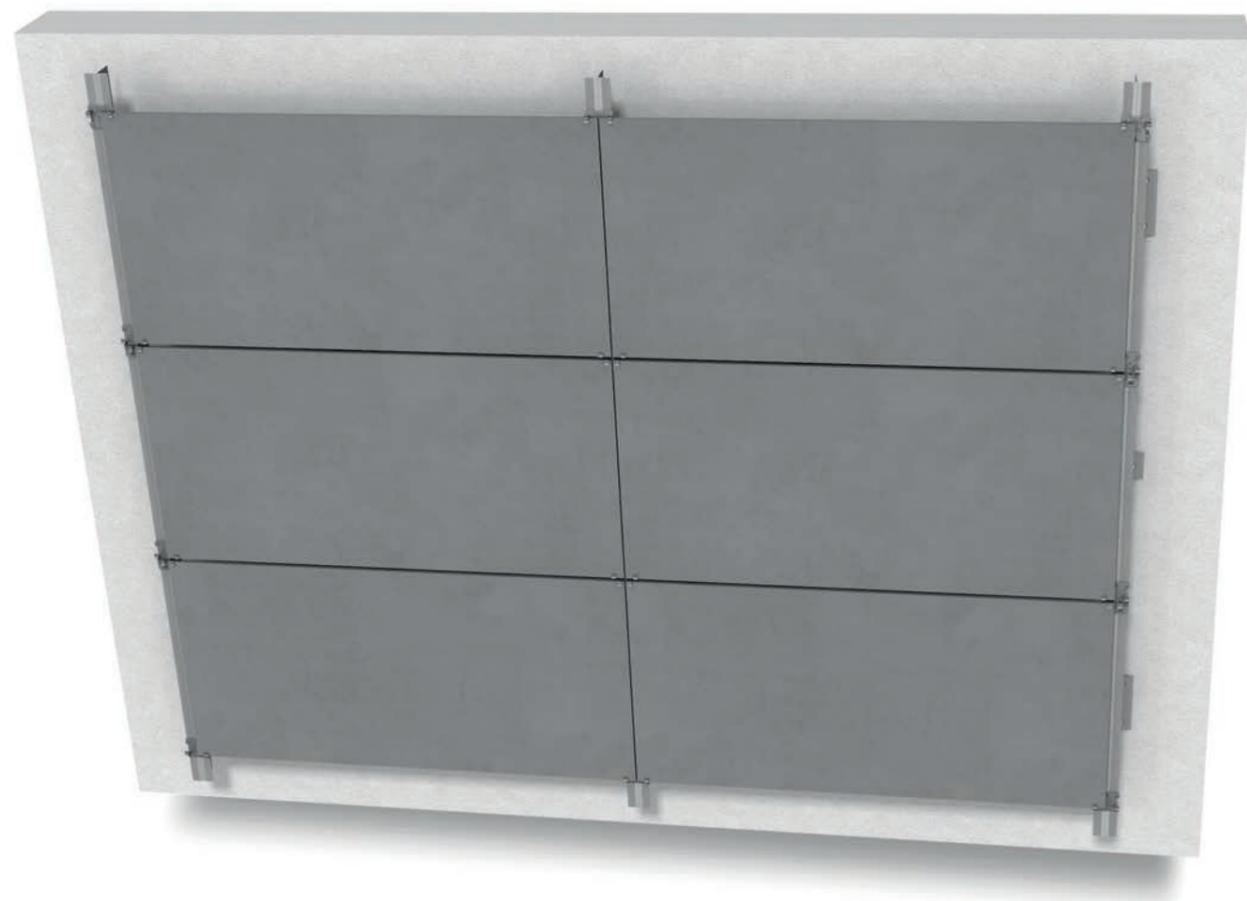
Porcelain stoneware tiles with thickness from 9.5 to 20 mm

OPERATIONS CARRIED OUT ON THE TILE

None

CLADDING TILE SIZES

All sizes of product range



System components

The "Simple" system consists of the following elements:

- Extruded vertical profile "VP LT / VP L" made in aluminum alloy EN 6063 T66;
- Fixed-point bracket "LFH" made in aluminum alloy EN 6063 T66;
- Sliding-point bracket "LSH" made in aluminum alloy EN 6063 T66;
- Visible bracket "BRV / BRV-C / BRV-R / BRV-L" made in stainless steel AISI 304;
- Rivets made in stainless steel AISI 304 for connection of brackets "BRV / BRV-C/BRV-R / BRV-L" to profile "VP LT/VP L";
- Insulating barrier pad "THERMO-PAD" made in PA.

System description

The system uses vertical profiles VP, placed according to the width of the tile, and fastened to the support by means of wall brackets LFH/LSH with stainless steel A2 rivets. The wall brackets are designed according to UNI 11018 and allow the thermal expansion of vertical profile.

The fixing to the support is assured by fischer mechanical or chemical anchors. The vertical profile is equipped with a lateral guide to identify maximum excursion when inserted in the LFH and LSH wall brackets.

The tiles are anchored to the vertical profile by means of visible bracket fastened with rivets.

The visible brackets can be painted with the same color of the tile to camouflage them in the facade.

The system is suitable to realize a facade with a regular pattern of tiles.

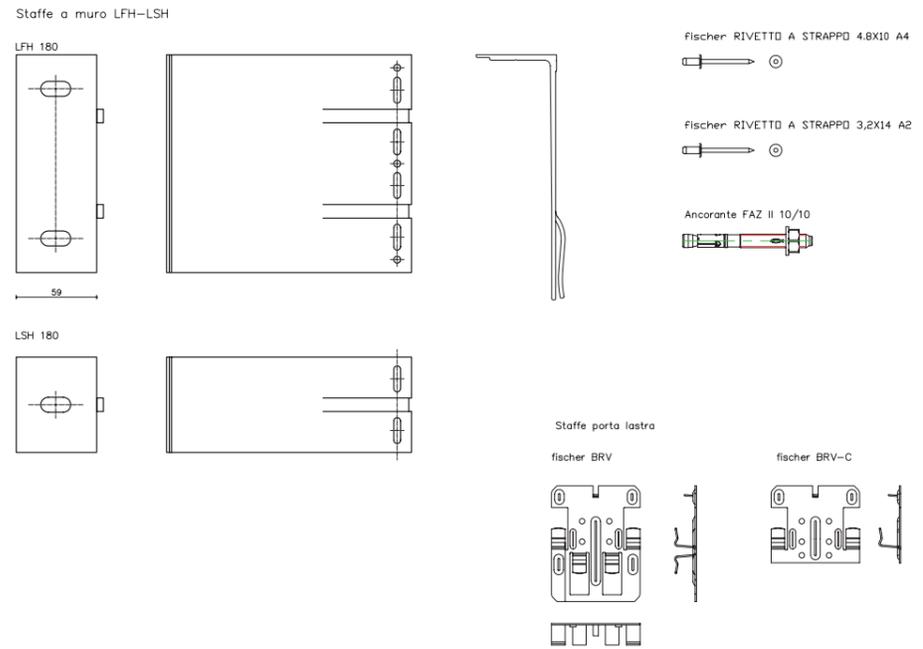
System sizes

- With the different wall brackets (LFH /LSH) the standard distance between the wall and the back side of the tiles can vary between 70 mm and 225 mm.
- The standard thickness of porcelain stoneware tiles for this type of system is from 9.5 to 20 mm.



In partnership with FISCHER

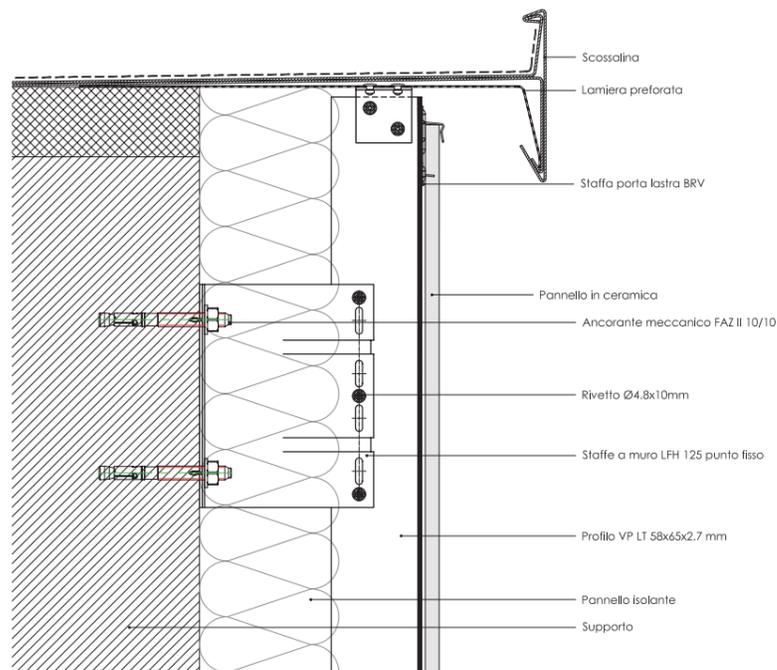
Standard components



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

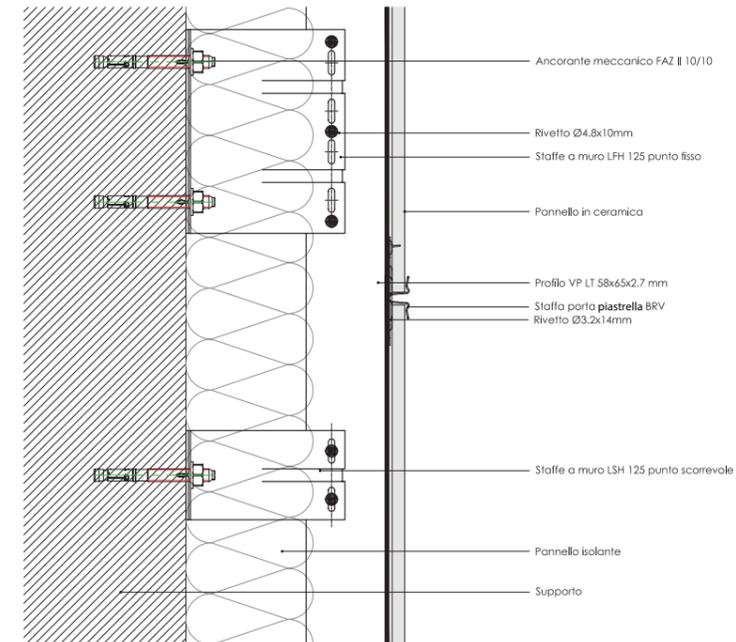
Standard solution for roof finishing

Vertical section - Scale 1:5



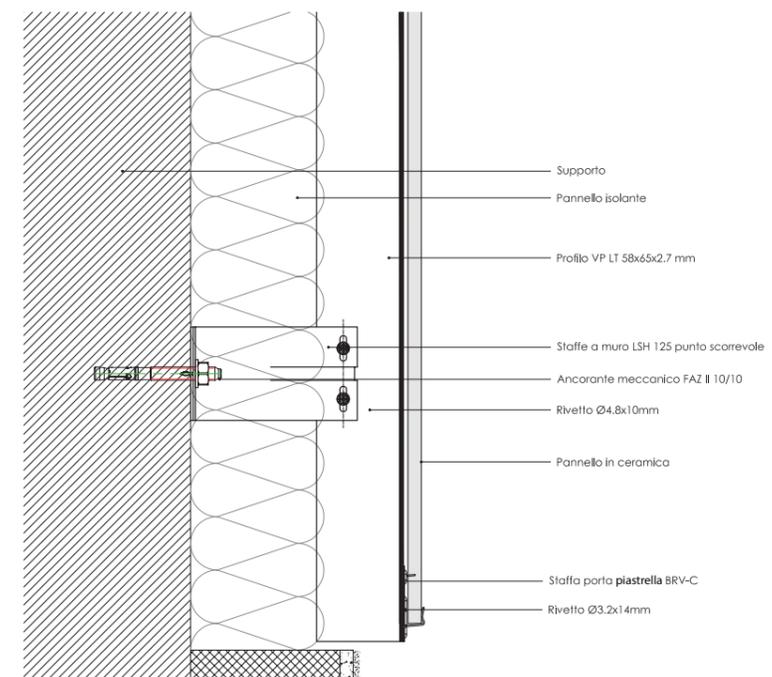
Standard solution for mid-section

Vertical section - Scale 1:5



Standard solution for floor end

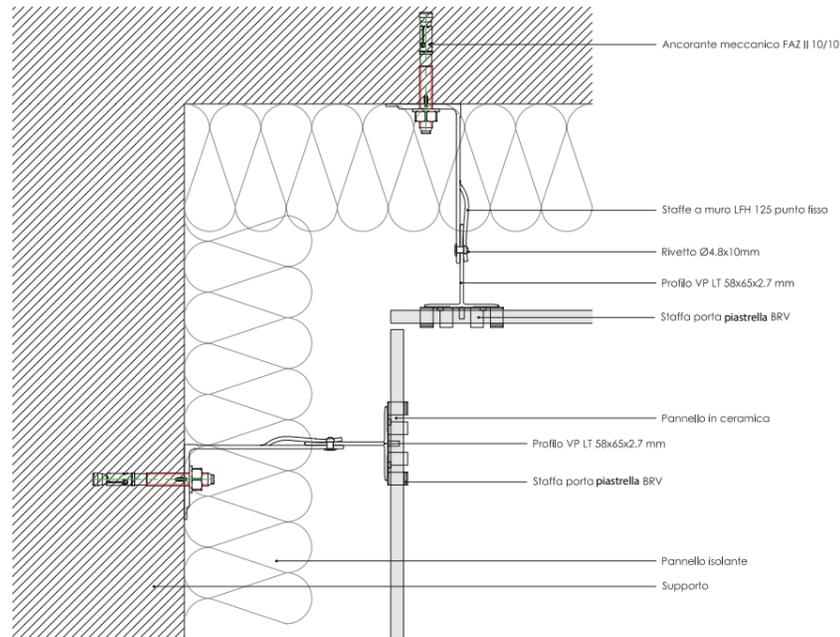
Vertical section - Scale 1:5



In partnership with FISCHER

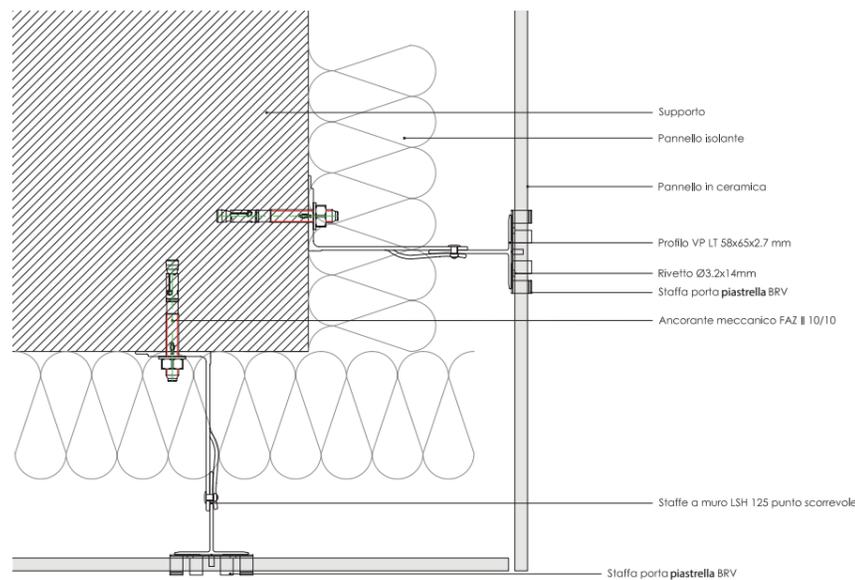
Standard solution for internal angle

Vertical section - Scale 1:5



Standard solution for external angle

Vertical section - Scale 1:5





Via Emilia Romagna, 31
41049 Sassuolo (MO) Italy
Tel +39 0536 814 911 - Fax +39 0536 814 921
cottodeste.it - info@cottodeste.it

PANARIAGROUP INDUSTRIE CERAMICHE S.p.A.