

**RAK**  
CERAMICS

**VENTILATED FACADE**



**RAK**  
CERAMICS



Facade: Uni Hyper White and Uni Dark black

## VENTILATED FACADE

The technical performances of the gigantic sized RAK Ceramics Maximus slabs are the perfect solution for the external cladding of buildings. High resistance, light weight, easy to install and maintain, with a high aesthetic and energy value that enhance the building industry.

Our designers and engineers have worked on some of the most iconic projects in the world, giving priority to client requirements to ensure maximum architectural flexibility and cost-efficiency. We bring forth latest and the best trends in the facade design industry with the definitive aim to change the way buildings are viewed, both aesthetically and technologically.

We design and supply personalized facade systems accommodating everything from the edge of the building to the exterior face of the facade panels.

We offer complete and approved facade systems including all the substructure, fixing and sealing components.



WELLNESS CENTER  
&  
SPA



Facade: Portovenere Marble



Facade: Basaltina Grey

## FACADE SUBSTRUCTURE SYSTEMS AND COMPONENTS.

### The Ventilated Curtain Walls System (VCWS)

A ventilated curtain wall is a facade system composed of several layers, in which the supporting external wall is provided with a layer (cladding) that offers protection against the weather. The cladding can be made from a wide variety of materials: ceramic, metal, fibre cement, composite panels, natural stone etc. The substructure attaches this façade cladding to the solid outer wall of a building while leaving a gap between the two.

Ventilated Curtain Walls are acknowledged as one of the most sustainable, cost-effective, and technologically advanced facade systems. On top of their outstanding structural and physical advantages, VCWS offer architects a virtually unlimited range of possibilities for creating striking designs.





This section presents two VECO Facade Substructure Systems used as fastening options for Ceramic Panels.

**VECO-A-2000** - Invisible Fastening with Under-cut Anchors

**VECO-A-1020** - Visible Fastening with Stainless Steel Clips

# VECO-A-2000

## Invisible Fastening with Under-cut Anchors

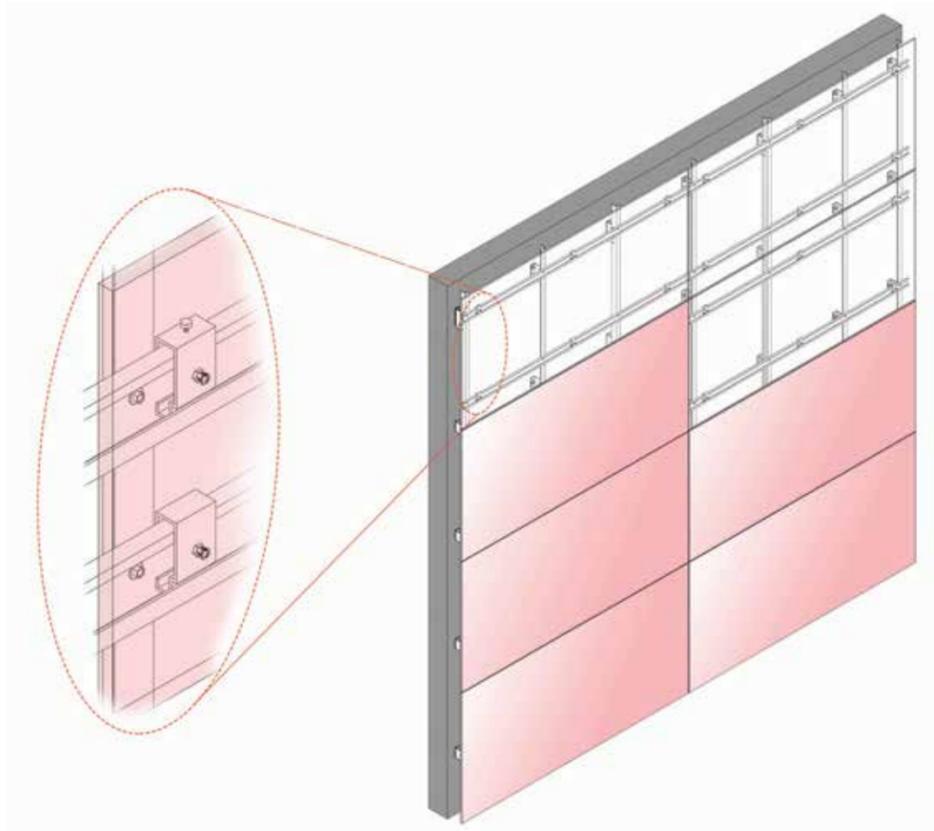
System: This system is used as a horizontal mounting system for invisible facade fastenings in combination with under-cut anchors.

Type of cladding: Large and small format Ceramic panels

Type of fastening: Invisible fixation with under-cut anchor



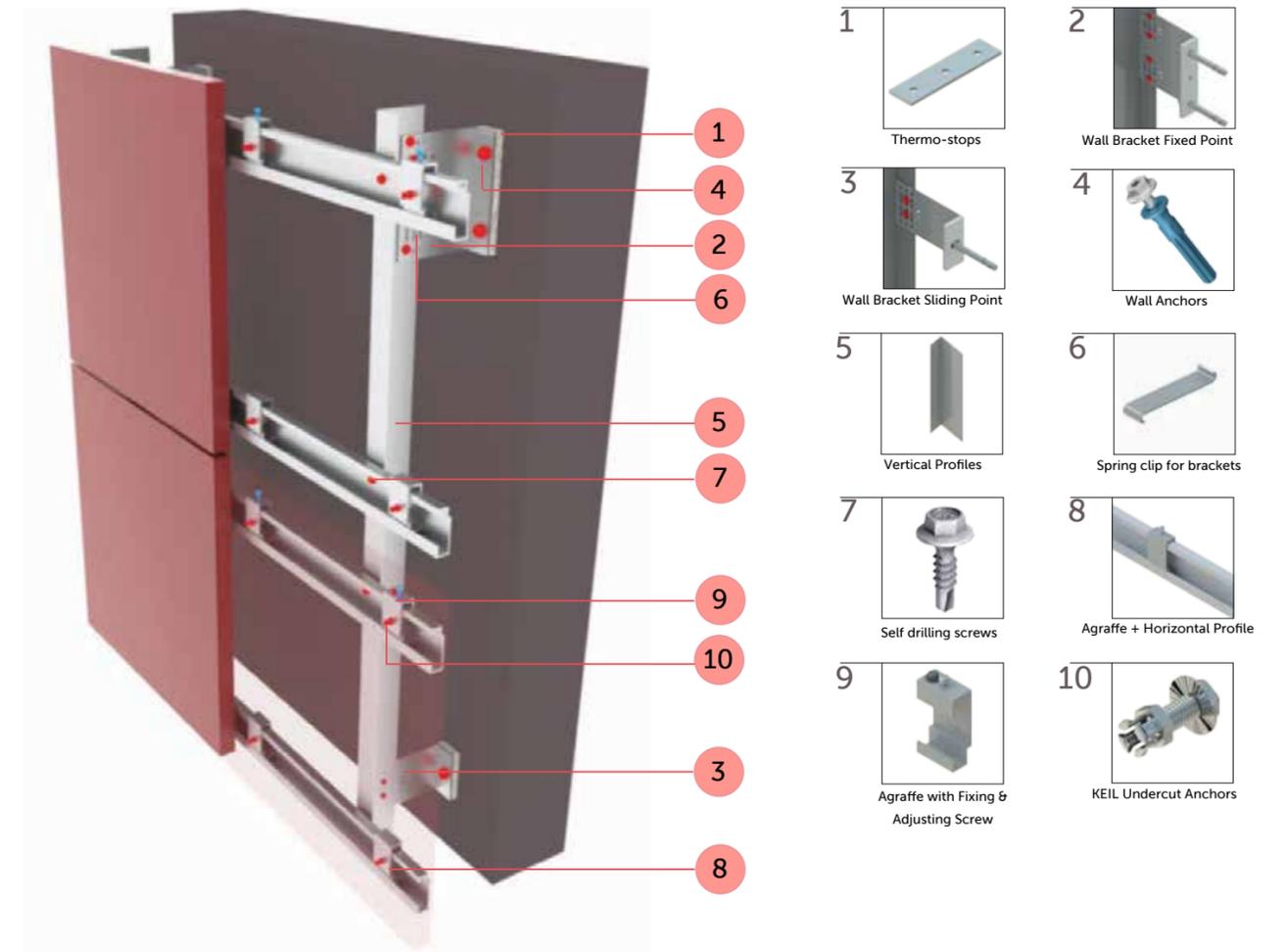
Mockup of Ceramic Panels installed using GIP VECO-A-2000 Substructure System



Vertical Aluminium Substructure with L-Profiles and Horizontal Agraffe Profile

This system is used as a horizontal mounting system for invisible facade fastenings in combination with under-cut anchors.

VECO-A-2000 system components are made from an aluminium alloy of the type EN-AW-6063T66 and are supplied in a variety of sizes to meet the specific static and structural requirements of the project.



# VECO-A-2000

## Invisible Fastening with Under-cut Anchors

### Substructure Components

1 - Thermo-Stop plates are placed to prevent contact between the brackets and the wall of the building.

2 & 3 - VECO-A system brackets are made from an aluminium alloy of type EN-AW-6063T66 and are supplied in a variety of sizes to meet the specific static and structural requirements of the project. The brackets can be used universally as fixed point or sliding point fastenings. Using the corresponding components, the length of the bracket is also infinitely adjustable and can therefore be adapted to the tolerances of the external wall of the building.

4 - Wall Anchors: Mechanical Anchor to fix the brackets to the wall substrate.

5 - Vertical Profiles :

L-Profile from Extruded Aluminium Alloy EN AW-6063T66 (used in central supports & connection applications)

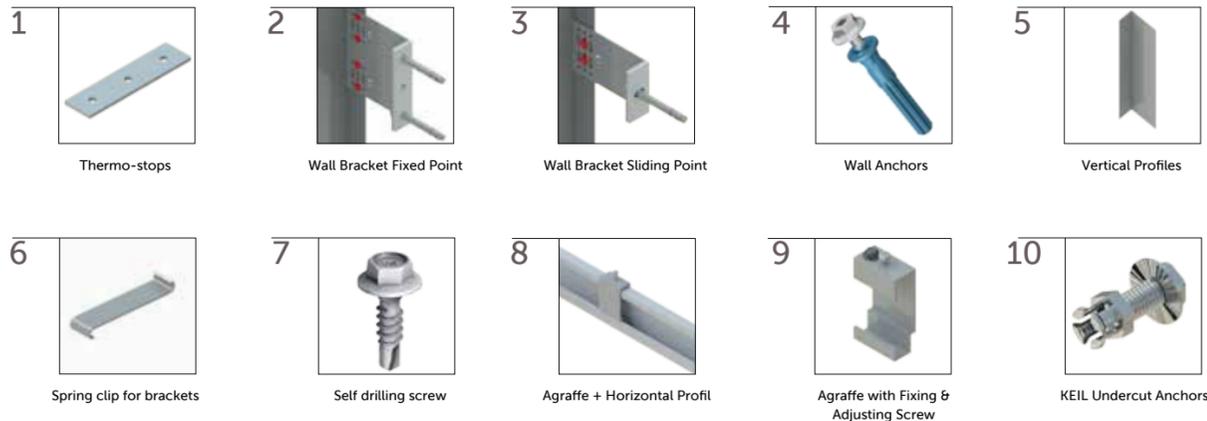
T-Profile from extruded Aluminium Alloy EN AW-6063T66 (used in area of joints)

6 - Spring clip made from spring steel 1.4310 used to aid installation

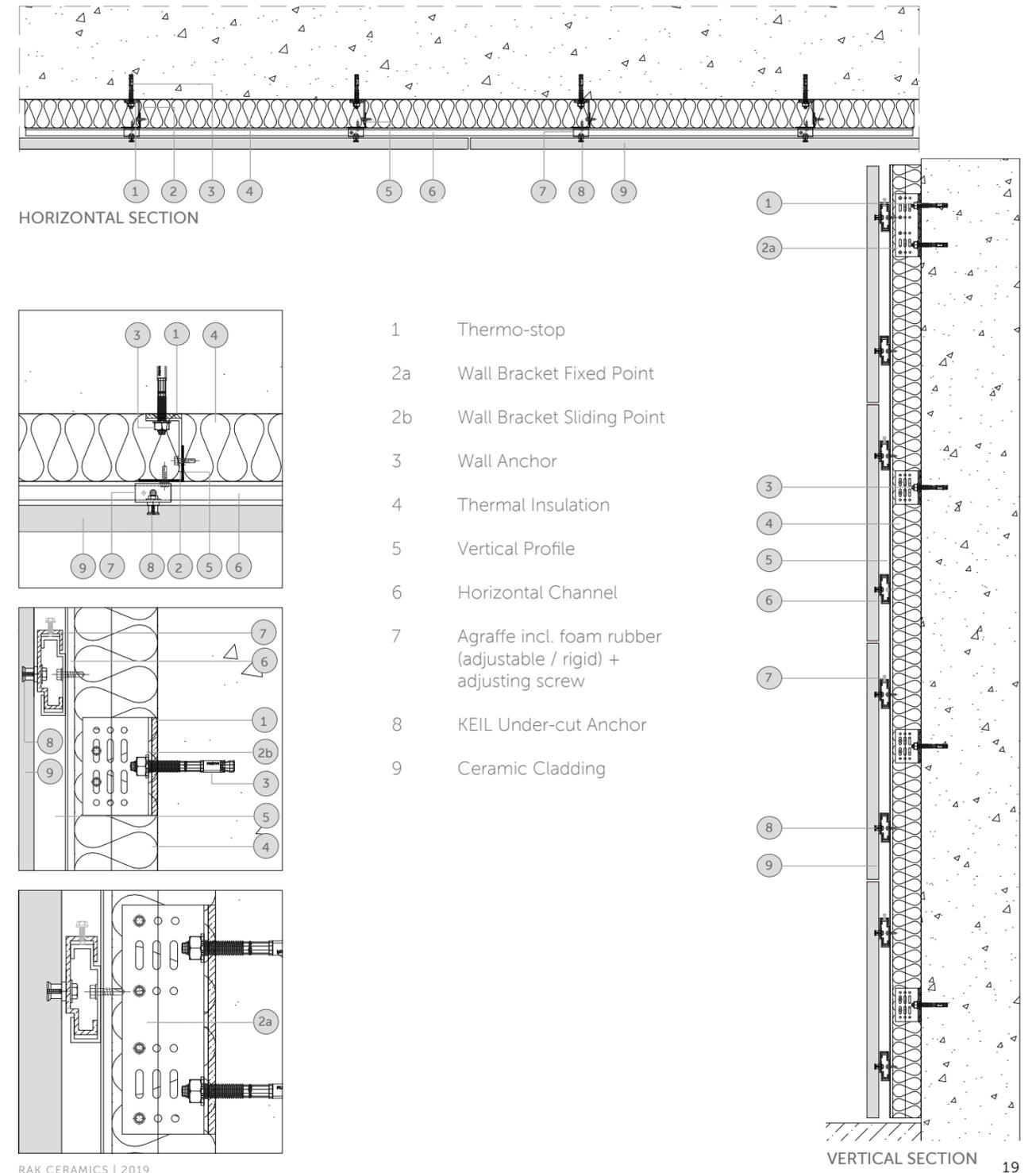
7 - Self Drilling Screws: Self drilling screws made from stainless steel A2 and A4 for fastening of horizontal profiles to brackets and vertical profiles

8 & 9 - There are 3 types of Agraffes: (Rigid)/ (Adjustable)/(Adjusting +Fixed). The components used with them are adjusting screws, self drilling screws and self-adhesive foam rubber.

10 - The KEIL undercut anchor for the hidden attachment of thin panels is made from stainless steel. Its geometry which matches the KEIL undercut drill hole, guarantees a positive locking attachment free from expansion pressure in all panel materials from a panel thickness of 6mm onwards. Different insertion depths are possible depending on the thickness of the panel.



### Aluminium Substructure with Vertical Profiles and Horizontal Agraffe Profile

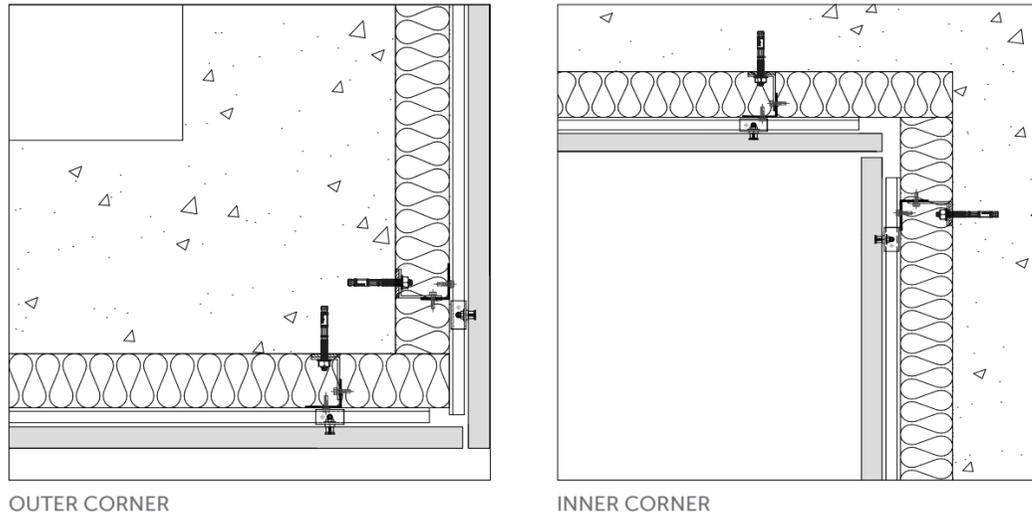


- 1 Thermo-stop
- 2a Wall Bracket Fixed Point
- 2b Wall Bracket Sliding Point
- 3 Wall Anchor
- 4 Thermal Insulation
- 5 Vertical Profile
- 6 Horizontal Channel
- 7 Agraffe incl. foam rubber (adjustable / rigid) + adjusting screw
- 8 KEIL Under-cut Anchor
- 9 Ceramic Cladding

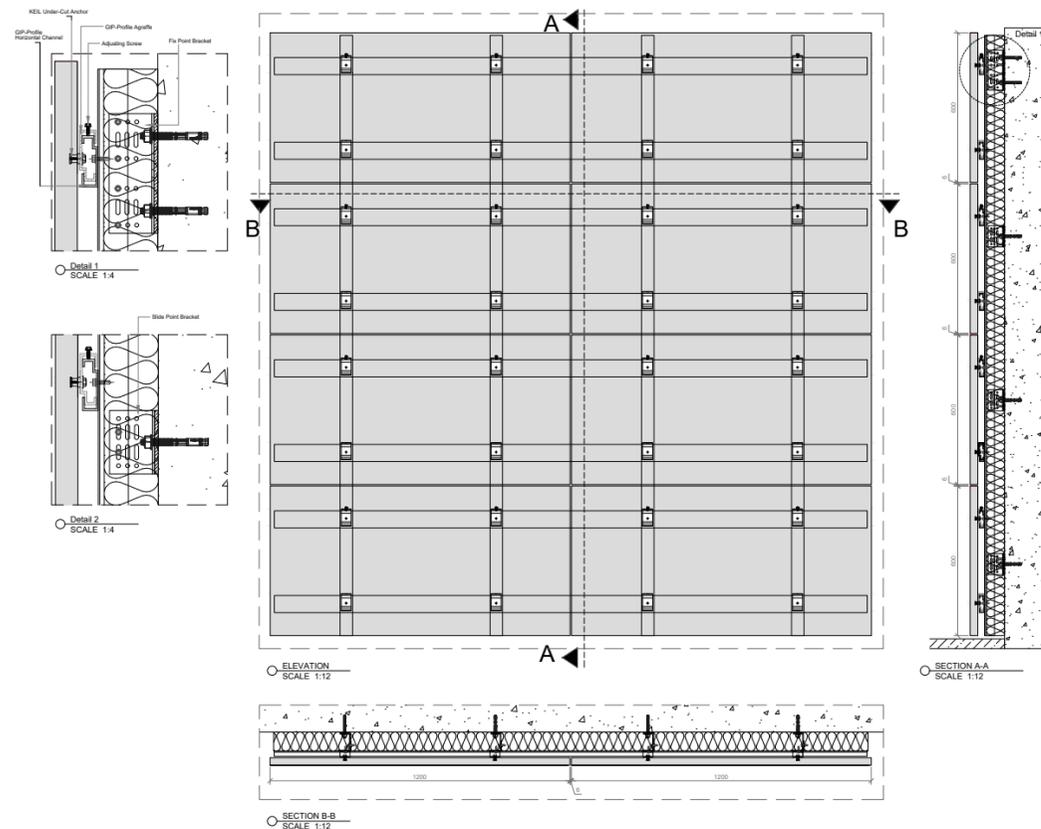
# VECO-A-2000

## Invisible Fastening with Under-cut Anchors

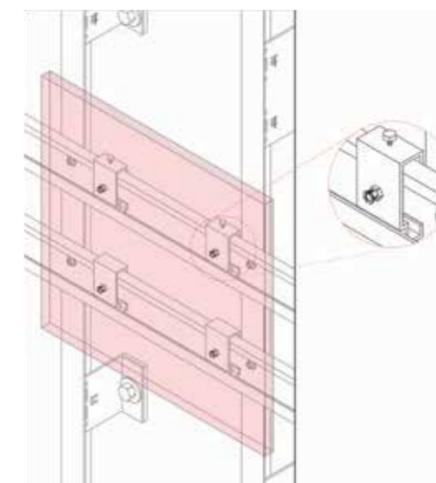
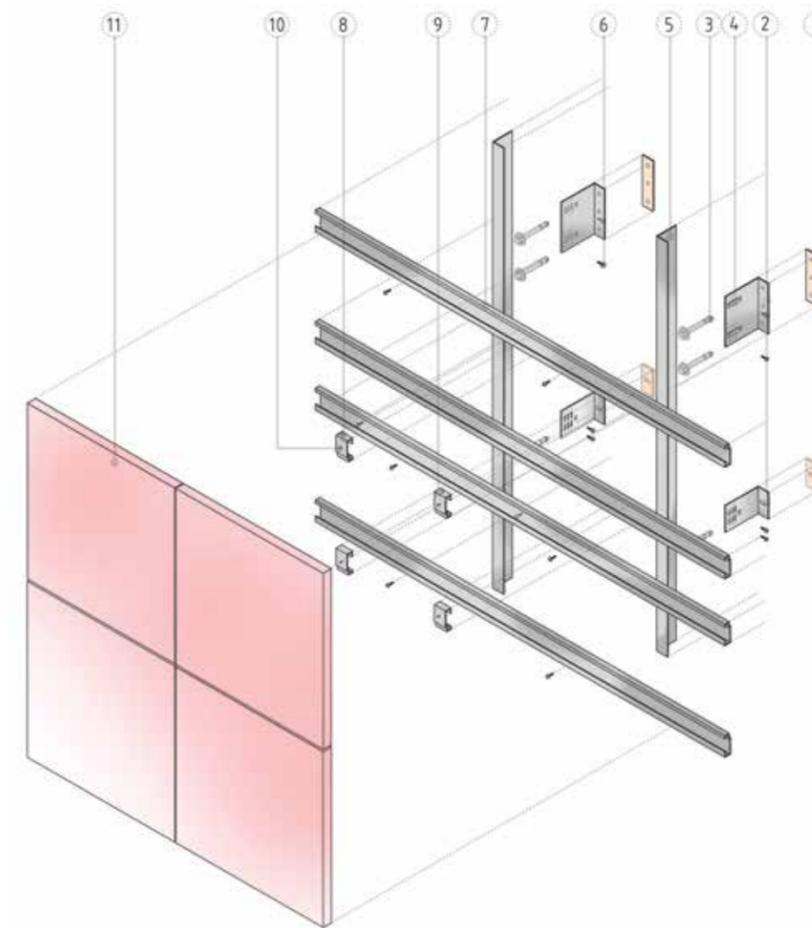
Corner Details



Typical Fixing Detail of Ceramic Panels with GIP-VECO-A-2000 System using Under-cut Anchors



Exploded Axonometric



- 1 Thermo-stop
- 2 Fixed/Sliding Point Brackets
- 3 Wedge Anchor BZ 10/30 M10 A4
- 4 Spring Clip For Bracket
- 5 Veco L-Profile
- 6 Self-Drilling Screw
- 7 GIP Profile Agraffe
- 8 GIP Profile Agraffe with Fixing Screw
- 9 GIP Profile Agraffe with Adjust ment Screw
- 10 KEIL Under-cut Anchor Type KHAA
- 11 Ceramic Cladding

# GIP VECO-A-1020

## Visible Fastening with Stainless Steel Clips

System: Vertical Aluminium substructure with L-and T-profiles and ceramic clips

Type of cladding: Large and small format Ceramic panels

Type of fastening: Visible fixation with clips

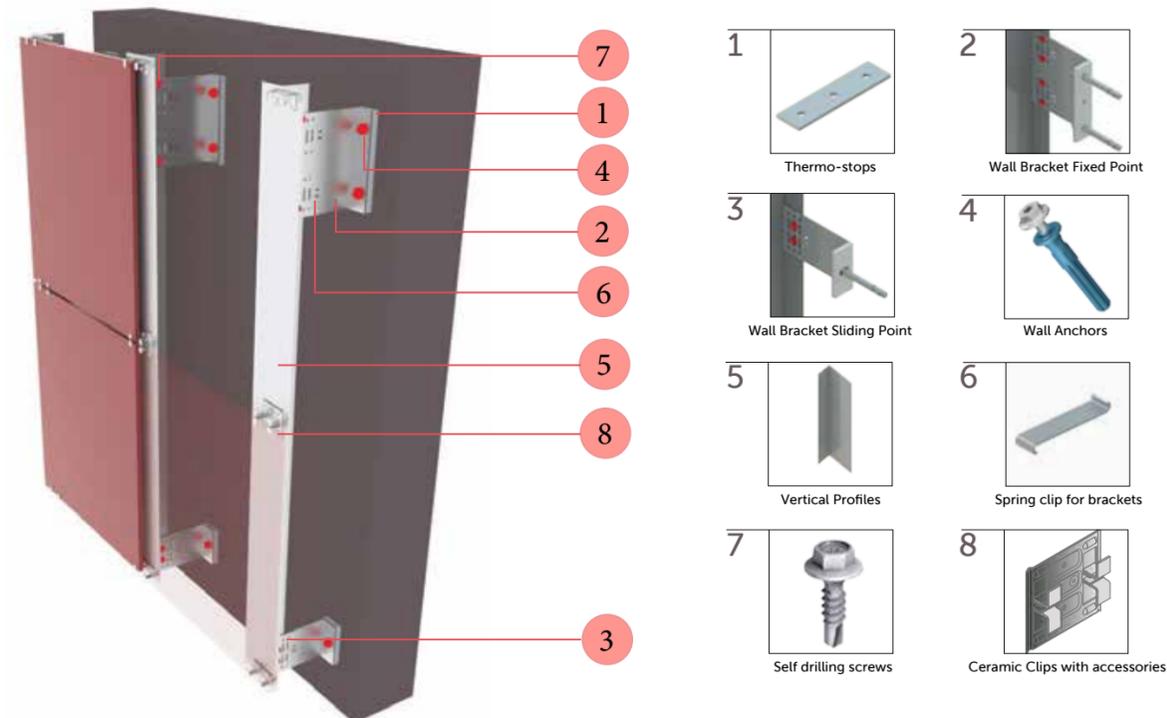


Mockup of Ceramic Panels installed using GIP VECO-A-1020 substructure system

Vertical Aluminium Substructure with L and T-Profiles and ceramic clips

This system is used as a vertical mounting system for visible facade fastenings with ceramic clips.

VECO-A-1020 system components are made from an aluminium alloy of the type EN-AW-6063T66 and are supplied in a variety of sizes to meet the specific static and structural requirements of the project.



1 - Thermo-Stop plates are placed to prevent contact between the brackets and the wall of the building.

2 & 3 - VECO-A system brackets are made from an aluminium alloy of type EN-AW-6063T66 and are supplied in a variety of sizes to meet the specific static and structural requirements of the project. The brackets can be used universally as fixed point or sliding point fastenings. Using the corresponding components, the length of the bracket is also infinitely adjustable and can therefore be adapted to the tolerances of the external wall of the building.

4 - Wall Anchors: Mechanical Anchor to fix the brackets to the wall substrate.

5 - Vertical Profiles :

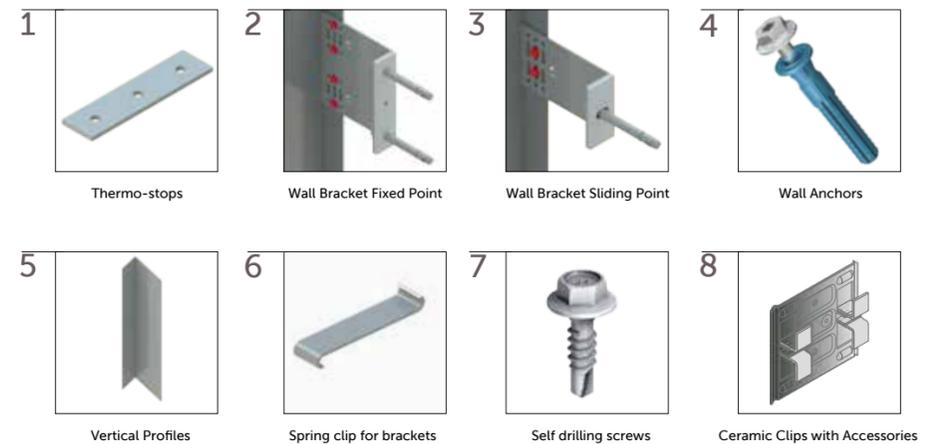
L-Profile from Extruded Aluminium Alloy EN AW-6063T66 (used in central supports & connection applications)

T-Profile from extruded Aluminium Alloy EN AW-6063T66 (used in area of joints)

6 - Spring clip made from spring steel 1.4310 used to aid installation.

7 - Self Drilling Screws: Self drilling screws made from stainless steel A2 and A4 for fastening of horizontal profiles to brackets and vertical profiles.

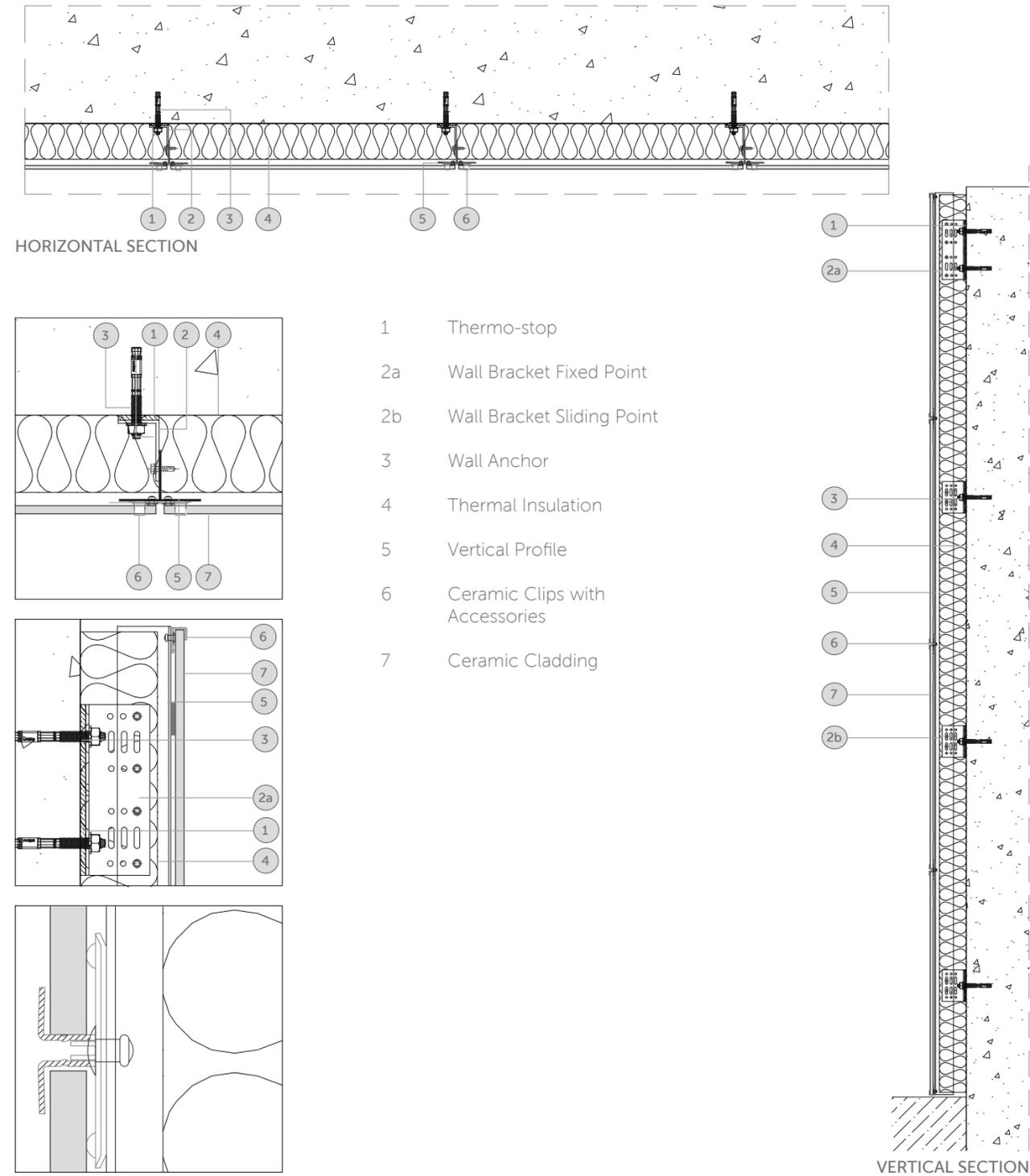
8 - Stainless Steel Coated Ceramic Clips / Ceramic Clips Accessories including ceramic clips plate, rivets and rubber.



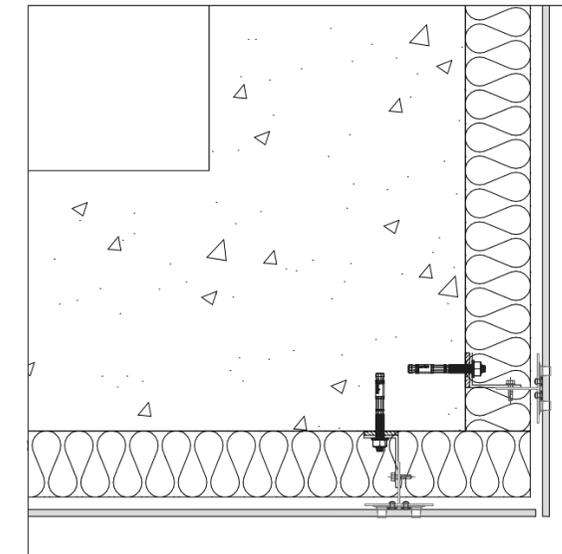
# GIP VECO-A-1020

## Visible Fastening with Stainless Steel Clips

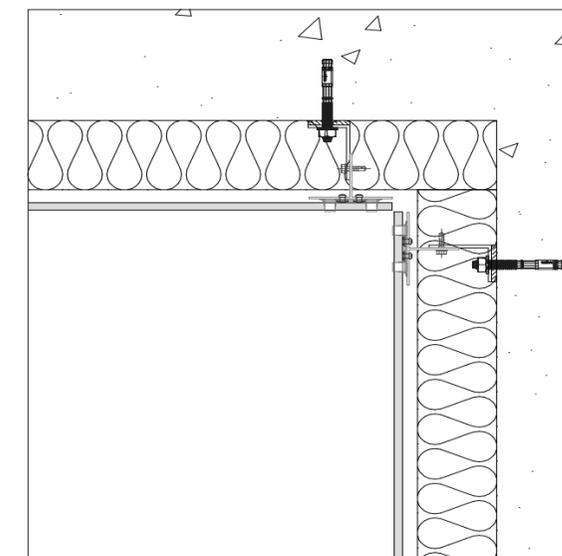
Vertical Aluminium Substructure with L- and T-profiles and ceramic clips



Corner Details



OUTER CORNER



INNER CORNER

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