

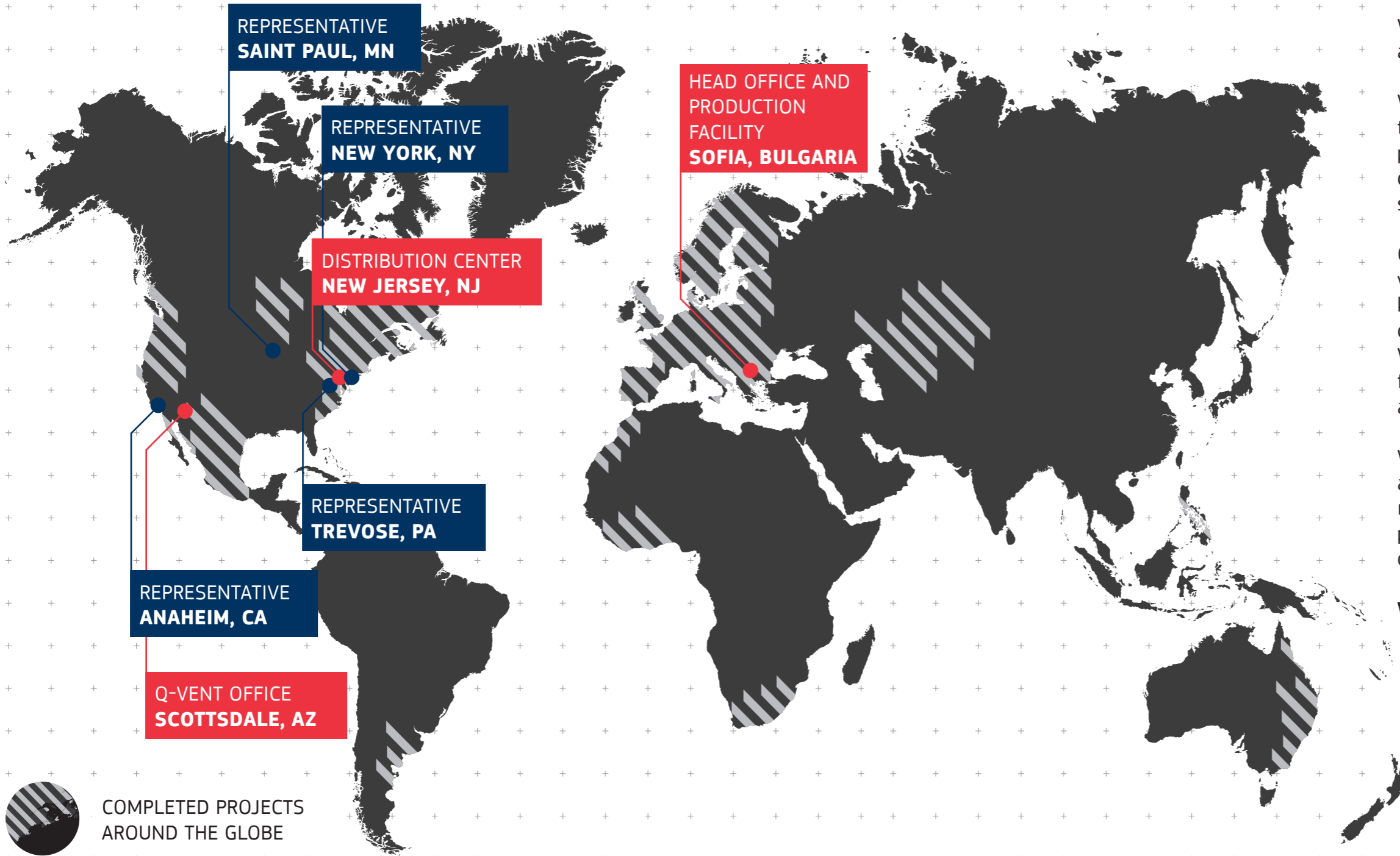


Q-VENT

**DESIGN AND
MANUFACTURE OF
ARCHITECTURAL
RAINSCREEN
SYSTEMS**

q-vent.com

02/2023



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SOFIA, BULGARIA

 COMPLETED PROJECTS
AROUND THE GLOBE

We design, engineer, and manufacture architectural rainscreen systems.

We can design bespoke solutions, according to individual project specifications and provide full-scale engineering service. We can also simply manufacture and ship standard system components.

Our typical production lead time is 2-3 weeks ExW Sofia, Europe warehouse. We keep the most common items in stock in our distribution center in New Jersey, US. We ship all needed parts for a complete facade installation, including fasteners and accessories.

We have worked on numerous projects around the globe, from small high-end residential projects, to large commercial projects such as universities, hospitals, offices, hotels, and government buildings.

We are Q-VENT.

OUR SYSTEMS

DELIVERY OPTIONS

The systems are manufactured for individual project specifications as fully engineered solutions OR can be purchased as components only from existing stock located in Sofia, EU, and New Jersey, US warehouses.

ENGINEERING SERVICES:

- Shop Drawings
- Structural Calculations
- Installation Plans
- PE stamp
- Panels and Substructure quantity take-off
- Bespoke System Development

QUALITY CONTROL

System components are manufactured from the highest quality materials to rigorous quality control standards, ensuring long-term reliability and service life.

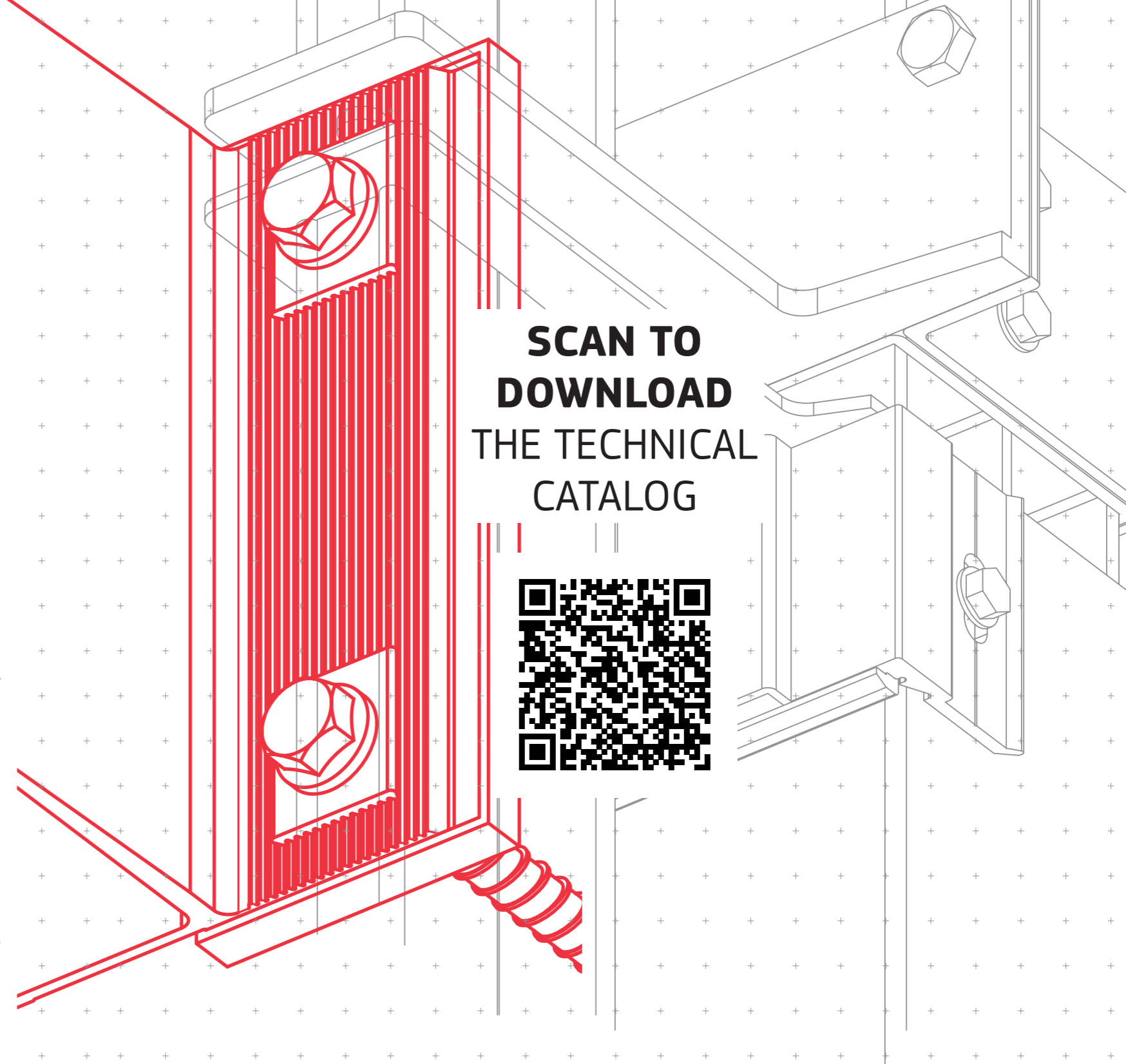
The systems components are designed by Q-VENT, manufactured in Bulgaria, from materials with preferential EU origin conforming to CE mark certification.

Q-GUARANTEE

10 YEARS WARRANTY FOR COMPONENTS

Project-specific system warranty is available only in case Q-VENT provides or approves structural calculations, shop drawings, and installation plans.

**SCAN TO
DOWNLOAD
THE TECHNICAL
CATALOG**



QV1.1

EXPOSED MECHANICAL FASTENING FOR FLAT PANELS, USING QVB WALL BRACKETS



- + THE SIMPLEST AND MOST WIDESPREAD SOLUTION
- + COMPATIBLE WITH MOST CLADDING MATERIALS
- + BUILT-IN ADJUSTABILITY
- + THERMALLY BROKEN BY MEANS OF THERMO-PADS
- + A1 NON-COMBUSTIBLE
- + 100% RECYCLABLE

CLADDINGS

- + HPL
- + Fiber-cement
- + GFRC
- + Stone
- + Ceramic
- + ACM
- + Metal panels

The QV1.1 system is widely used for attachment of cladding panels, using visible fasteners. In addition, QV1.1 can serve as the vertical attachment basis for other cladding systems.

QV1.1 is most suitable for concrete and masonry (CMU) substrates. It can be used on a stud wall where the vertical profile location is independent of the joint layout.

The system consists of QVB wall brackets and vertical T and L profiles:

- > The vertical profiles are attached to the QVB wall brackets via a series of fixed and sliding connections.
- > The fixed connections absorb both dead and wind loads. The sliding connections absorb the wind load and allow for the thermal movement.
- > Cladding panels are attached to the vertical profiles using exposed fasteners, usually painted to match the cladding finish.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
T and L profiles	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion resistant coating	

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV1.2

EXPOSED MECHANICAL FASTENING FOR FLAT PANELS IN CASE OF STUD WALL CONSTRUCTION



+ **THREE OPTIONS FOR HORIZONTAL SUPPORT**

+ **COMPATIBLE WITH MOST CLADDING MATERIALS**

+ **BUILT-IN ADJUSTABILITY**

+ **THERMALLY BROKEN BY MEANS OF THERMO-PADS**

+ **A1 NON-COMBUSTIBLE**

+ **100% RECYCLABLE**

CLADDINGS

- + HPL
- + Fiber-cement
- + GFRC
- + Stone
- + Ceramic
- + ACM
- + Metal panels

The QV1.2 system is an exposed attachment system designed for stud walls and where a horizontal support is required for the vertical rails. The panels are attached to vertical HAT and J rails using visible fasteners.

> The vertical rails are attached to one of the following configurations of horizontal supports:

- Continuous horizontal HAT / J / Z rails attached directly to the wall.
- Continuous horizontal T rails fixed to the stud wall and L clips, at every vertical rail, fixed to the horizontal T rail.
- Continuous L rails attached to QHB wall brackets.

> All options can come with thermo-pads to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
Horizontal and vertical rails	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QHB wall brackets	Extruded aluminum, alloy AW 6063 T66	Cavity depth - check the latest company delivery program; Unpainted, typ.
L clips	Extruded aluminum, alloy AW 6063 T66	Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QHB thermo-pads	Polypropylene	
Fasteners	Stainless steel or with corrosion resistant coating	

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV2

CONCEALED STRUCTURAL ADHESIVE FASTENING FOR FLAT PANELS



- + EFFICIENT SOLUTION FOR ON-SITE ADHESIVE FIXING
- + COMPATIBLE WITH MOST CLADDING MATERIALS
- + BUILT-IN ADJUSTABILITY
- + THERMALLY BROKEN BY MEANS OF THERMO-PADS
- + 100% RECYCLABLE

CLADDINGS

- + HPL
- + Fiber-cement
- + GFRC
- + Stone
- + Ceramic
- + ACM
- + Metal panels

The QV2 system is suitable for structural adhesive attachment of many cladding types. Panels are attached to vertical T and L profiles using various adhesive systems, specified by the cladding manufacturer.

QV2 is most suitable for concrete and masonry (CMU) substrates.

- > The vertical profiles are attached to QVB wall brackets via a series of fixed and sliding connections.
- > The fixed connections absorb both dead and wind loads. The sliding connections absorb the wind load and allow for the thermal movement.
- > The adhesive system is applied on the installed vertical profiles.
- > The cladding panels are pressed firmly to the vertical profiles until they contact the bonding agent, following the adhesive manufacturer's guidelines.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
T and L profiles	Extruded aluminum, alloy AW 6063 T66	Unpainted, anodized 12 µm (or more upon request)
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion-resistant coating	
Adhesive system	Polyurethane or silicone adhesive	Check the manufacturer guidelines for the product application, suitable working-site conditions, and the local FR regulations

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV3.1

AGROB BUCHTAL KeraTwin® K20 TERRACOTTA PANELS HORIZONTAL FIXING USING T-RAILS



- + THE MOST ADVANCED FIXING SYSTEM FOR TERRACOTTA PANELS
- + IMPROVED INSTALLATION SPEED USING FEWER COMPONENTS
- + BUILT-IN ADJUSTABILITY
- + THERMALLY BROKEN BY MEANS OF THERMO-PADS
- + A1 NON-COMBUSTIBLE
- + 100% RECYCLABLE

CLADDINGS

- + Only terracotta panels KeraTwin® K20 made by Agrob Buchtal

The QV3.1 system is designed to attach horizontal terracotta panels by Agrob Buchtal, using specialized vertical T and L system rails. The system rails feature pre-punched hooks and springs to provide a complete and secure panel attachment.

QV3.1 is most suitable for concrete and masonry (CMU) substrates.

- > The vertical system rails are attached to QVB wall brackets via a series of fixed and sliding connections.
- > The fixed connections absorb both dead and wind loads. The sliding connections absorb the wind load and allow for the thermal movement.
- > The cladding panels are directly hung on the system rails without the need for additional adjustment or fixing.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
K20 system rails	Extruded aluminum, alloy AW 6063 T6	RAL7021 painted, Unpainted, special RAL painted upon request, anodized 12 µm (or more upon request)
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion resistant coating	

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV3.2

AGROB BUCHTAL KeraTwin® K20 TERRACOTTA PANELS HORIZONTAL FIXING FOR STUD WALL USING OMEGA-RAILS



- + THE MOST ADVANCED FIXING SYSTEM FOR TERRACOTTA PANELS IMPROVED INSTALLATION SPEED USING FEWER COMPONENTS
- + BUILT-IN ADJUSTABILITY
- + THERMALLY BROKEN BY MEANS OF THERMO-PADS
- + A1 NON-COMBUSTIBLE
- + 100% RECYCLABLE

CLADDINGS

- + Only terracotta panels KeraTwin® K20 made by Agrob Buchtal

The QV3.2 system is designed to attach horizontal terracotta panels by Agrob Buchtal, using specialized Omega system rails. The Omega rails feature pre-punched hooks and springs to provide a complete and secure panel attachment.

QV3.2 is suitable for stud walls where a horizontal support is required for the vertical rails.

- > The vertical Omega rails are attached to one of the following configurations of horizontal supports:
 - Continuous horizontal HAT / J / Z rails attached directly to the wall.
 - Continuous horizontal T rails fixed to the stud wall and L clips, at every vertical rail, fixed to the horizontal T rail.
- > The cladding panels are directly hung on the system rails without the need for additional adjustment or fixing.
- > All options can come with thermo-pads to reduce thermal bridging and prevent galvanic corrosion.

The Omega rails can also be attached directly to concrete or masonry (CMU) substrates via fasteners or other custom configurations.

COMPONENTS	MATERIAL	NOTES
K20 system rails	Extruded aluminum, alloy AW 6063 T6	RAL7021 painted, Unpainted, special RAL painted upon request, anodized 12 µm (or more upon request)
Horizontal rails	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
L clips	Extruded aluminum, alloy AW 6063 T66	Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Thermo-pads	Polypropylene	
Fasteners	Stainless steel or with corrosion resistant coating	

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV3.3

AGROB BUCHTAL KeraTwin® K20 TERRACOTTA PANELS VERTICAL FIXING



+ **THE MOST ADVANCED FIXING SYSTEM FOR TERRACOTTA PANELS**

+ **IMPROVED INSTALLATION SPEED USING FEWER COMPONENTS**

+ **BUILT-IN ADJUSTABILITY**

+ **THERMALLY BROKEN BY MEANS OF THERMO-PADS**

+ **A1 NON-COMBUSTIBLE**

+ **100% RECYCLABLE**

CLADDINGS

- + Only terracotta panels KeraTwin® K20 made by Agrob Buchtal

The QV3.3 system is designed to attach vertical terracotta panels by Agrob Buchtal, using specialized horizontal Omega system rails and horizontal Omega-S rails.

QV3.3 can be used on stud wall, concrete, and masonry (CMU) substrates.

- > The Omega-S rails support the dead load of the terracotta panels, while the Omega system rails absorb the wind load.
- > Both Omega and Omega-S rails are attached to vertical T and L profiles.
- > The vertical profiles are attached to QVB wall brackets via a series of fixed and sliding connections.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
K20 system rails	Extruded aluminum, alloy AW 6063 T6	Unpainted, RAL painted upon request, anodized 12 µm (or more upon request)
Omega-S rails	Extruded aluminum, alloy AW 6063 T66	RAL7021 painted, unpainted, anodized 12 µm (or more upon request)
Vertical profiles	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion resistant coating	

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV6

CONCEALED FASTENING FOR FLAT AND 3D PANELS USING UNDERCUT ANCHORS



+ **ADVANCED SYSTEM USING UNDERCUT TECHNOLOGY**

+ **COMPATIBLE WITH MOST CLADDING MATERIALS**

+ **BUILT-IN ADJUSTABILITY**

+ **THERMALLY BROKEN BY MEANS OF THERMO-PADS**

+ **A1 NON-COMBUSTIBLE**

+ **100% RECYCLABLE**

CLADDINGS FROM 8 mm [5/16"] TO 50 mm [2"]

- + HPL
- + Fiber-cement
- + GFRC
- + Stone
- + Ceramic

The QV6 system is designed for hidden support of various cladding materials, using undercut anchor technology. The system can be used on stud wall, concrete, and masonry (CMU) substrates.

QV6 is customizable to be used with many types of undercut anchors available on the market.

- > The undercut anchors are placed in the back of the cladding panels and hangers are secured to the undercut anchors. The hangers have built-in bolts allowing fine vertical adjustment of the panels.
- > The cladding panels are suspended with the hangers that are engaged into the horizontal system rails.
- > The horizontal system rails are attached to the vertical T and L profiles, which are attached to the QVB wall brackets via a series of fixed and sliding connections.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
Horizontal system rails	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Hangers	Extruded aluminum, alloy AW 6063 T66	Unpainted, anodized 12 µm (or more upon request)
Pads (between hangers and panels)	Silicone	Thickness 1 mm [0.04"] and 2 mm [0.08"]
Vertical profiles	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Undercut anchors	Stainless steel	
Fasteners	Stainless steel or with corrosion resistant coating	

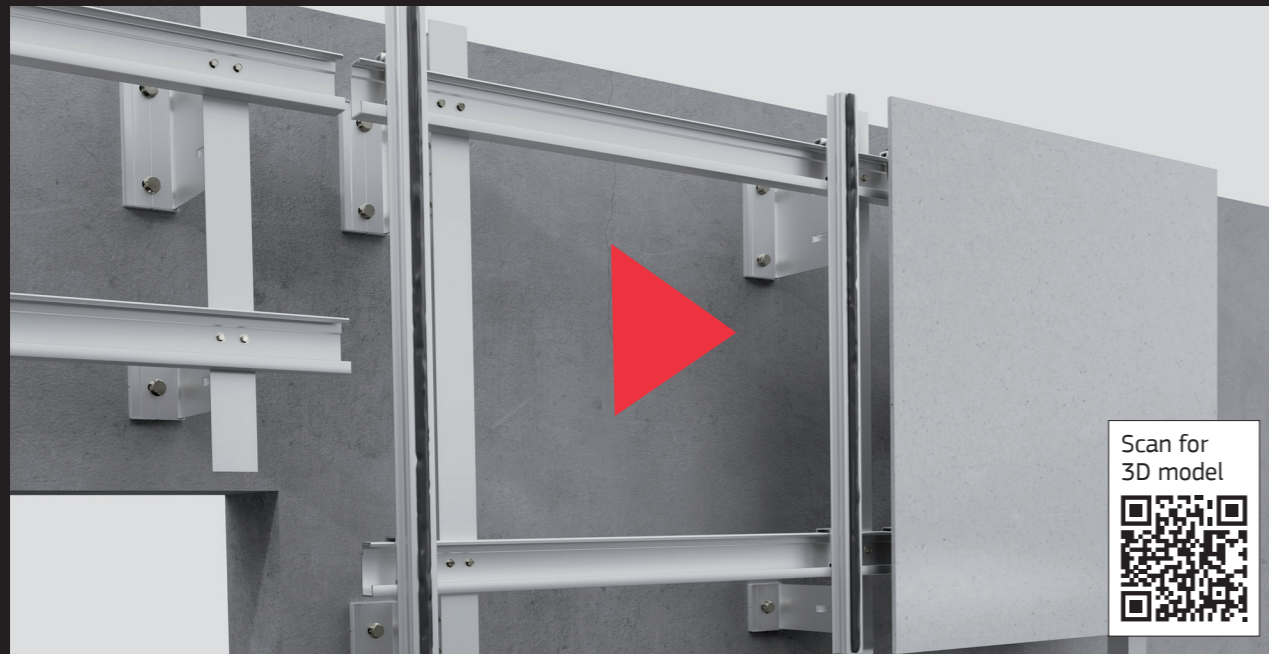
THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

Q-CLOUD

CONCEALED STRUCTURAL ADHESIVE FASTENING FOR GLASS PANELS



+ OFF-SITE ADHESIVE BONDING

+ BUILT-IN ADJUSTABILITY

+ THERMALLY BROKEN BY MEANS OF THERMO-PADS

+ 100% RECYCLABLE

CLADDINGS

+ Glass panels

Q-CLOUD system is used for attachment of opaque glass panels in a rainscreen application. The specialized vertical profiles are bonded to the glass panels in an off-site environment.

Q-CLOUD can be used on stud wall, concrete, and masonry (CMU) substrates.

- > The hangers are secured to the special vertical profiles via fasteners. The hangers have built-in bolts allowing fine vertical adjustment of the panels.
- > The glass panels are suspended with the hangers that are engaged into the horizontal system rails.
- > The horizontal system rails are attached to the vertical T and L profiles, which are attached to the QVB wall brackets via a series of fixed and sliding connections.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
Vertical Q-CLOUD profiles	Extruded aluminum, alloy AW 6063 T66	Unpainted, anodized 12 µm (or more upon request)
Horizontal system rails	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Hangers	Extruded aluminum, alloy AW 6063 T66	Unpainted, anodized 12 µm (or more upon request)
QVB Wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Adhesive system	Polyurethane or silicone adhesive	Check the manufacturer guidelines for the product application, suitable working-site conditions, and the local FR regulations
Fasteners	Stainless steel or with corrosion resistant coating	

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV7

MECHANICAL FASTENING FOR TERRACOTTA PANELS



- + VERSATILE SOLUTION FOR ATTACHMENT OF TERRACOTTA PANELS USING CLIPS
- + COMPATIBLE WITH MOST CLADDING MATERIALS
- + BUILT-IN ADJUSTABILITY
- + THERMALLY BROKEN BY MEANS OF THERMO-PADS
- + A1 NON-COMBUSTIBLE
- + 100% RECYCLABLE

CLADDINGS

- + Terracotta panels with thickness >1", produced by any manufacturer

The QV7 system is a solution for mechanical attachment of terracotta panels using clips. The system is designed to support terracotta panels with 25 mm [1"] minimum thickness, and it can be adapted for use with most terracotta manufacturers producing flat and 3D units.

QV7 can be used on stud wall, concrete, and masonry (CMU) substrates.

- > The system can be configured for both horizontal and vertical orientation of the terracotta panels.
- > The terracotta panels are attached to either vertical or horizontal rails, depending on the project specific configuration.
- > All options can come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
Vertical and horizontal rails	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Clips	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Gaskets	Silicone, soft PVC	Black, typ.
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion resistant coating	

THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV9.3

MECHANICAL FASTENING FOR FORMED METAL PANELS



+ THE SIMPLEST AND MOST WIDESPREAD SOLUTION FOR FORMED METAL PANELS USING HANGERS

+ BUILT-IN ADJUSTABILITY

+ THERMALLY BROKEN BY MEANS OF THERMO-PADS

+ A1 NON-COMBUSTIBLE

+ 100% RECYCLABLE

CLADDINGS

- + ACM
- + Metal panels

The QV9.3 system is an efficient solution for mechanical attachment of formed metal panels using hangers. The system requires formed metal panels to have “keyhole” cutouts that engage with the hangers.

QV9.3 is most suitable for concrete and masonry (CMU) substrates but can also be used on stud walls with the addition of horizontal profiles.

- > The panels are suspended on the hangers and secured with fasteners on the top leg of the panel.
- > The hangers are attached to vertical T profiles, which are attached to QVB wall brackets via a series of fixed and sliding connections.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
T and L profiles	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Hanger	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Spacer	Extruded aluminum, alloy AW 6063 T66	RAL painted, anodized 12 µm (or more upon request)
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063, T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion resistant coating	

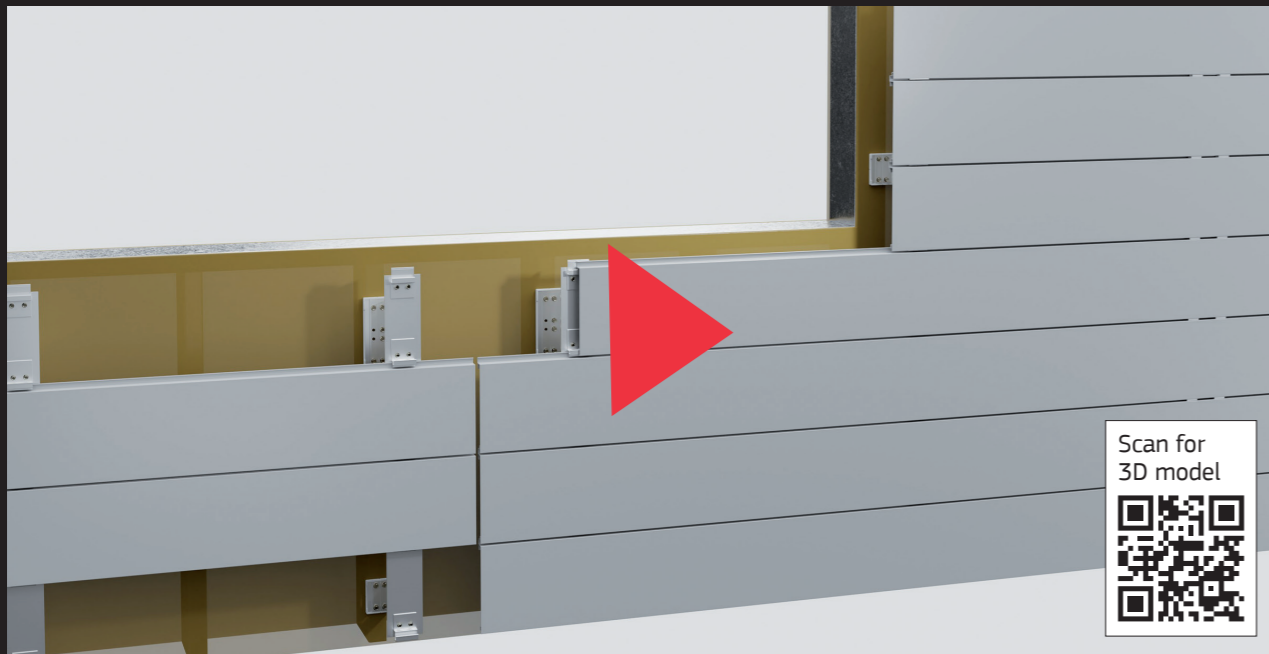
THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

QV9.5

MECHANICALLY FASTENED EXTRUDED ALUMINUM PANEL SYSTEM



- + **ECONOMICAL CLADDING SOLUTION FEATURING EXTRUDED ALUMINUM PANELS**
- + **BUILT-IN ADJUSTABILITY**
- + **THERMALLY BROKEN BY MEANS OF THERMO-PADS**
- + **A1 NON-COMBUSTIBLE**
- + **100% RECYCLABLE**

CLADDINGS

- + Extruded metal panels

The QV9.5 system incorporates an attachment system, as well as extruded aluminum panels, manufactured by Q-VENT. The panels can be provided in a variety of shapes, sizes, and finishes and can be installed vertically or horizontally using a specialized clip system.

QV9.5 can be used on stud wall, concrete, and masonry (CMU) substrates.

- > In the case of horizontal installation, the panels are installed on vertical profiles, which are attached to QVB wall brackets via a series of fixed and sliding connections. The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.
- > In the case of vertical installation, the panels are installed on horizontal rails.

COMPONENTS	MATERIAL	NOTES
Cladding panels	Extruded aluminum, alloy AW 6063 T66	Powder coating certified Qualicoat or Anodized. Standard and custom colors are available
Vertical and horizontal rails	Extruded aluminum, alloy AW 6063 T6 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request); Cavity depth, check the latest company delivery program;
Clips	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB wall brackets	Extruded aluminum, alloy AW 6063 T6	Cavity depth from 57 mm [2 1/4"] to 285 mm [11 3/16"], Built-in in/out adjustability of 35 mm [1 3/8"]; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion resistant coating	

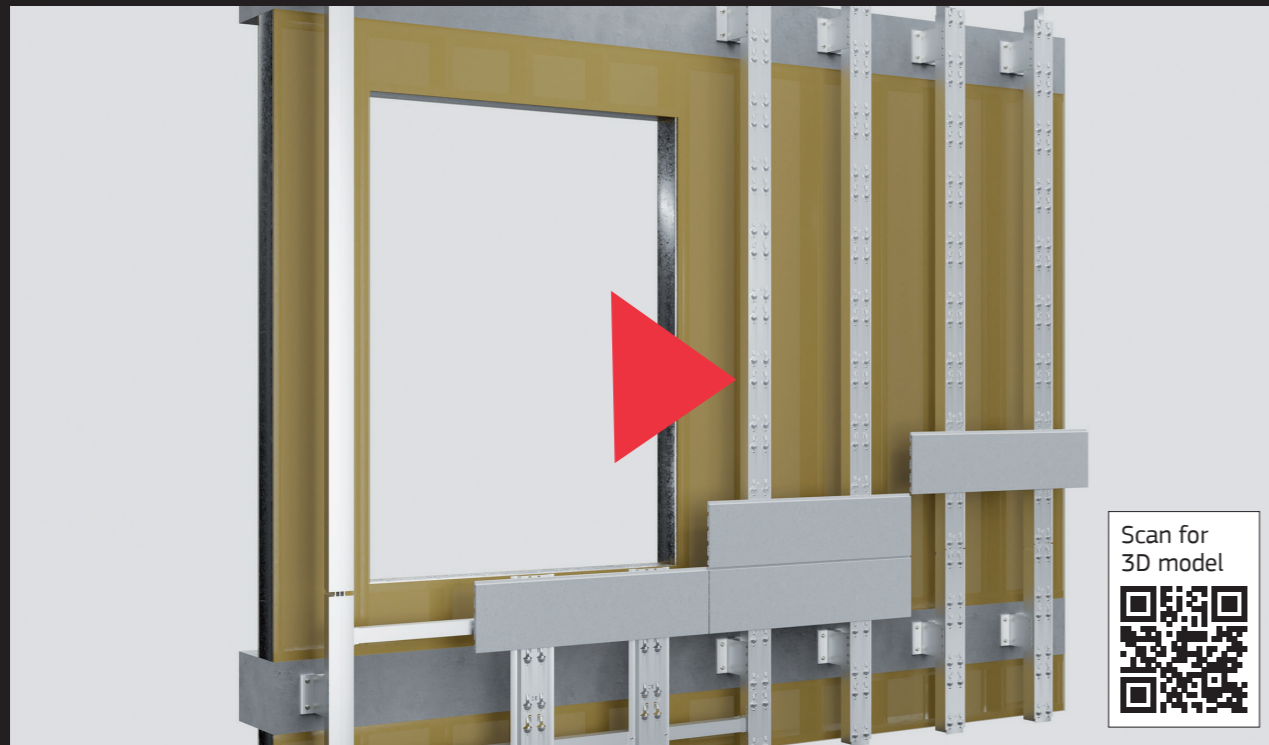
THERMAL PERFORMANCE

The use of thermo-pads reduces thermal bridging. The strength of the extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to other attachment methods.

A given system's thermal performance varies significantly depending on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

AIO

SLAB-TO-SLAB FACADE INSTALLATION



- + **ADVANCED SOLUTION FOR FLOOR-TO-FLOOR FIXING COMPATIBLE WITH MOST CLADDING MATERIALS**
- + **BUILT-IN ADJUSTABILITY**
- + **THERMALLY BROKEN BY MEANS OF THERMO-PADS**
- + **A1 NON-COMBUSTIBLE**
- + **100% RECYCLABLE**

CLADDINGS

- + HPL
- + Fiber-cement
- + GFRC
- + Stone
- + Ceramic
- + ACM
- + Metal panels

AIO system is designed to span story heights without the need for intermediate fixings, and can be used for installation of various cladding materials.

AIO provides a further advantage in thermal performance by limiting the number of penetrations in the thermal insulation of the building.

The system components are created individually for every project.

- > The cladding panels are attached directly to the AIO vertical rails or via other rails, depending on the cladding configuration.
- > The AIO rails are attached to the QAB wall brackets located at floor levels.
- > The AIO rails feature a custom insert, placed at the profile joints, designed for absorbing thermal movement and floor-to-floor deflection.
- > The wall brackets come with a thermo-pad to reduce thermal bridging and prevent galvanic corrosion.

COMPONENTS	MATERIAL	NOTES
AIO rails	Extruded aluminum, alloy AW 6063 T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QAB wall brackets	Extruded aluminum, alloy AW 6063 T66	Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063 T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	Pre-assembled to the wall brackets, typ.
Fasteners	Stainless steel or with corrosion-resistant coating	

THERMAL PERFORMANCE

AIO system decreases the thermal bridging by limiting the number of connections to the substrate - only on slab levels. The strength of extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to the other attachment methods.

The thermal performance of a given system varies significantly on the wall build-up, exterior insulation depth, cladding materials, and wall bracket spacing. Project-specific thermal modeling is available upon request.

THE TEAM

We are a team of professionals with over 20 years of international experience in the facade industry.

We believe that the complex chain of product and service providers should work as one dedicated team.

We are committed to the success of each project we take on.

Reach out and see how we can work together.



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