



QV1.1

**EXPOSED MECHANICAL FASTENING
FOR FLAT PANELS**



THE SIMPLEST AND MOST WIDESPREAD SOLUTION

COMPATIBLE WITH MOST CLADDING MATERIALS

BUILT-IN ADJUSTABILITY

THERMALLY BROKEN

A1 NON-COMBUSTIBLE

100% RECYCLABLE





QV1.1 OVERVIEW

The QV1.1 system is widely used to attach cladding panels using visible fasteners. In addition, the QV1.1 can serve as the vertical attachment basis for other cladding systems. It is most suitable for concrete and masonry wall substrates. It can be used on a stud wall where the rail 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 flexible connections.
- The flexible connections absorb the wind loads and allow for thermal movement.
- The fixed connections absorb both dead and wind loads.
- The QVB brackets come with a thermal insulator to reduce the thermal bridging and prevent galvanic corrosion.

CLADDINGS

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

Scan to explore the 3D model of the system



COMPONENTS

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

TYPE	MATERIAL	NOTES
T and L profiles	Extruded aluminum, alloy AW 6063, temper T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB Wall brackets	Extruded aluminum, alloy AW 6063, temper T6	Cavity depth from 2" to 8 5/8", Built-in in/out adjustability of 3/4"; Unpainted, typ.
Accessories	Extruded aluminum, alloy AW 6063, temper T66 or T6; Aluminum sheet alloy AW 5754 H22	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QVB thermo-pads	Polypropylene	
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 clip spacing. Historical thermal modeling has revealed a thermal efficiency of 70%-90%. Project-specific thermal modeling is available upon request.

SYSTEMS

	ACM	HPL	Fiber cement	GFRC	Stone	Ceramic/ Porcelain	Metal Panel	Glass	Flat and 3D terracotta
QV1 Flat panels exposed mechanical fastening	+	+	+	+	+	+	+	-	-
QV2 Flat panels concealed adhesive on-site structural fastening	+	+	+	+	+	+	+	-	-
QV3 AGROB BUCHTAL KeraTwin® K20 terracotta	-	-	-	-	-	-	-	-	+
QV6 Advanced concealed mechanical fastening, using undercut technology	+	+	+	+	+	+	+	-	+
QV7 3D panels, architectural terracotta mechanical fastening	-	-	-	-	-	-	-	-	+
QV9 Metal panels mechanical and structural fastening	+	-	-	-	-	-	+	-	-
AIO Bespoke, slab-to-slab panel fixing	+	+	+	+	+	+	+	+	+
Q-CLOUD Glass panels off-site structural bonding	-	-	-	-	-	-	-	+	-

3D models of all systems on [q-vent.com/facades](https://www.q-vent.com/facades)

DELIVERY OPTIONS

The systems are manufactured to 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 warehouse.

Additional services:

- Shop Drawings
- Structural Calculations
- Installation Drawings
- Thermal Analysis
- Bespoke System Development

QUALITY AND DURABILITY

System components are manufactured from the highest quality materials to rigorous quality control standards, ensuring long-term reliability and service life. System components are designed and manufactured in the EU, conforming to CE mark certification.

Q-VENT GUARANTEE

- 10-year warranty for components
- Project specific system warranty is available, only in case Q-Vent provides or approves structural calculations, shop drawings, and installation plans.

Q-VENT reserves the right to make technical changes to this document. Information contained in this documents is non-binding. Before using Q-VENT products, all specifications and calculation must be checked by a qualified engineer and must be in compliance with local regulations.