



# 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**
- A1 NON-COMBUSTIBLE**
- 100% RECYCLABLE**





## QV9.3 OVERVIEW

The QV9.3 system is an efficient solution for the mechanical attachment of formed metal panels, utilizing custom hangers. It is most suitable for concrete and masonry wall substrates but can also be used on a stud wall with the addition of horizontal profiles.

- The QV9.3 system requires formed metal panels to have “keyhole” cutouts that engage with the hangers.
- The panels are suspended on the hangers and secured with fasteners on the top leg of the panel.
- The hangers are attached to the vertical T or L profiles via fasteners, which are attached to the QVB wall brackets via a series of fixed and flexible connections.
- The brackets come with a thermal insulator to reduce the thermal bridging and prevent galvanic corrosion.

## CLADDINGS

- + ACM
- + Metal panels



## 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)
Hanger	Extruded aluminum, alloy AW 6063, temper T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
Spacer	Silycone	RAL painted
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 fever 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
<b>QV1</b> Flat panels exposed mechanical fastening	+	+	+	+	+	+	+	-	-
<b>QV2</b> Flat panels concealed adhesive on-site structural fastening	+	+	+	+	+	+	+	-	-
<b>QV3</b> AGROB BUCHTAL KeraTwin® K20 terracotta	-	-	-	-	-	-	-	-	+
<b>QV6</b> Advanced concealed mechanical fastening, using undercut technology	+	+	+	+	+	+	+	-	+
<b>QV7</b> 3D panels, architectural terracotta mechanical fastening	-	-	-	-	-	-	-	-	+
<b>QV9</b> Metal panels mechanical and structural fastening	+	-	-	-	-	-	+	-	-
<b>AIO</b> Bespoke, slab-to-slab panel fixing	+	+	+	+	+	+	+	+	+
<b>Q-CLOUD</b> 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.

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