



# QV3.1

## AGROB BUCHTAL KeraTwin® K20 TERRACOTTA PANELS HORIZONTAL FIXING



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





## QV3.1 OVERVIEW

The QV 3.1 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 other pre-punched elements to provide a complete secure attachment of panels.

- The system rails 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 wall brackets come with a thermal insulator to reduce the thermal bridging and prevent galvanic corrosion.

The system is most suitable for concrete and CMU wall substrates.

## CLADDING

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

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
K20 system rails	Extruded aluminum, alloy AW 6063, temper T6	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
<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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