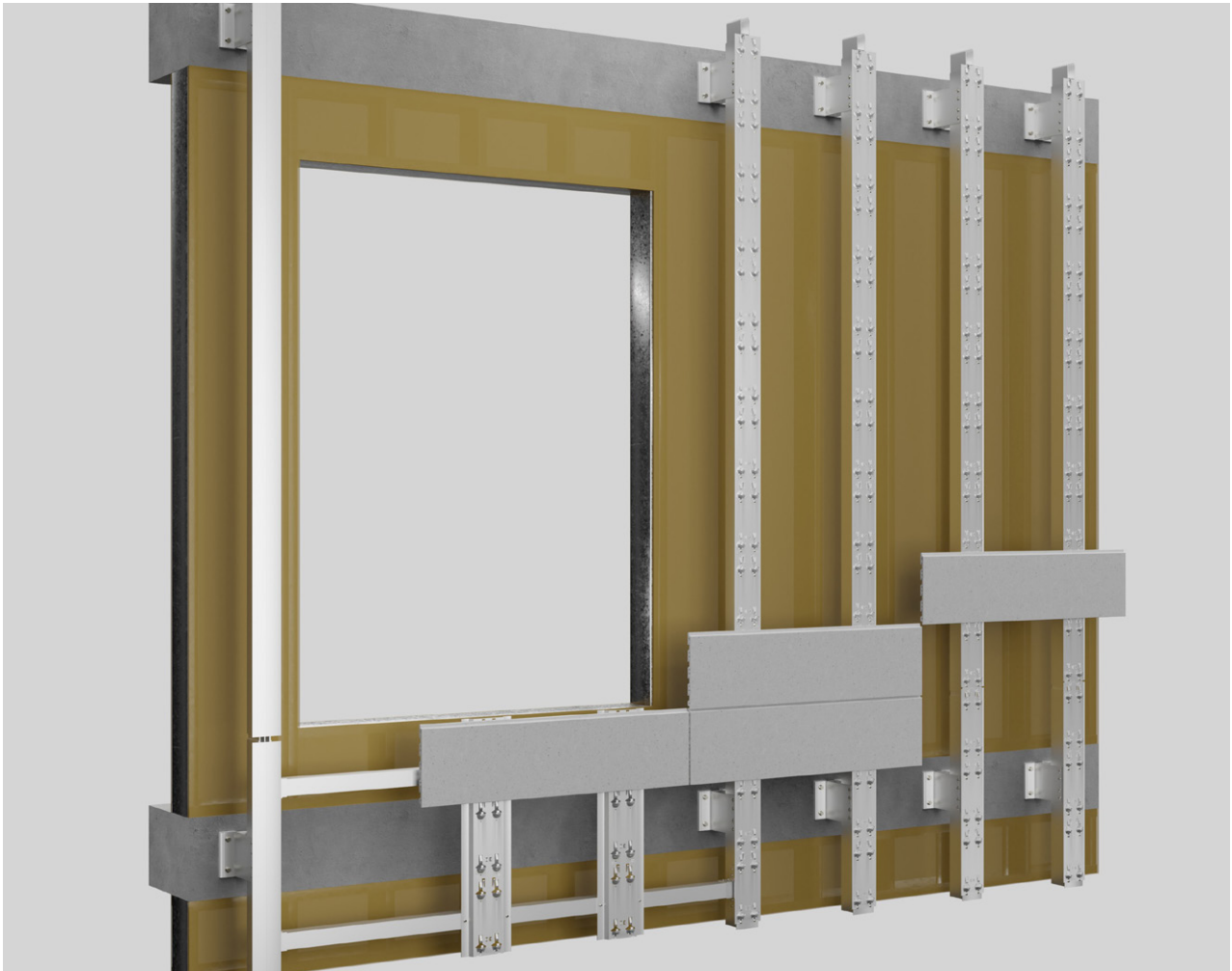




AIO

SLAB-TO-SLAB FAÇADE INSTALLATION



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



AIO OVERVIEW

An advanced solution for installation of various cladding materials, using attachments only at slab levels. The box-type vertical profiles can span floor-to-floor while absorbing the loads imposed on the system.

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

- The cladding materials are attached directly to the AIO vertical profiles or via other profiles, depending on the cladding configuration.
- The vertical profiles are secured in the QAB wall brackets located at floor levels.
- The vertical profiles feature a custom insert, placed at the profile joints, designed for absorbing the thermal movement and floor-to-floor deflection.
- The QAB wall brackets are secured to the wall via fasteners.
- The QAB 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



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
Profiles	Extruded aluminum, alloy AW 6063, temper T66	Unpainted, RAL painted, anodized 12 µm (or more upon request)
QAB wall brackets	Extruded aluminum, alloy AW 6063, temper T66	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

AIO system decreases the thermal bridging by limiting the number of connections to the substrate – only on slab levels. Using non-continuous attachment via wall brackets and thermal isolator pads reduces thermal bridging. The strength of extruded materials allows for fewer wall brackets and screw penetrations to the wall compared to the 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.