

VFS

VENTILATED FAÇADE SYSTEM

FAÇADE SYSTEMS

E97 VFS

VENTILATED FAÇADE SYSTEM

VFS is an element of the building envelope, which includes all windows, doors and flashings, parapets, louvers, etc.

It is constructed from fully finished components and assemblies. It is a wall, comprising outer skin panels and an airtight insulated backing wall, separated by a ventilated cavity.

I'M INTRESTED

MORE INFORMATION



E97 VENTILATED FAÇADE SYSTEM

ABOUT THE SYSTEM

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VENTILATED FAÇADE
SYSTEM

E97 is a comprehensive family of ventilated façade systems that includes the BRAVO, VARIO, and FORTE series. Each system has been developed to accommodate different cladding materials, architectural requirements, and fixing technologies.

At the core of the **E97** concept is the creation of a high-performance building envelope consisting of an external cladding layer, an aluminium supporting structure, a ventilated air cavity, and an insulated backing wall. This arrangement forms a protective outer skin that shields the building from weather exposure while allowing continuous air circulation behind the façade. As a result, moisture is effectively drained and evaporated, thermal performance is enhanced, and the durability of the building envelope is significantly improved.

E97 PRODUCT IDENTITY

VFS

VENTILATED FAÇADE
SYSTEM

Certified support system for multiple building cladding materials

Compatible with a wide range of cladding materials

Ideal for large-scale applications

BASIC PRINCIPLES

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VENTILATED FAÇADE
SYSTEM

01

Structural Stability

Designed based on structural load and deformation analysis.

02

Optimised Ventilation

Provides a 4–8 cm ventilated cavity between the cladding material and the thermal insulation

03

Allows Free Movement for Thermal Expansion and Contraction

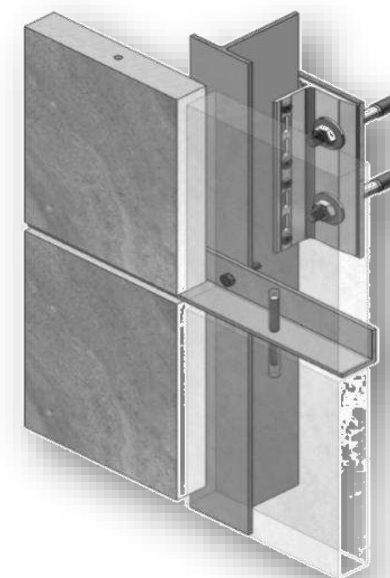
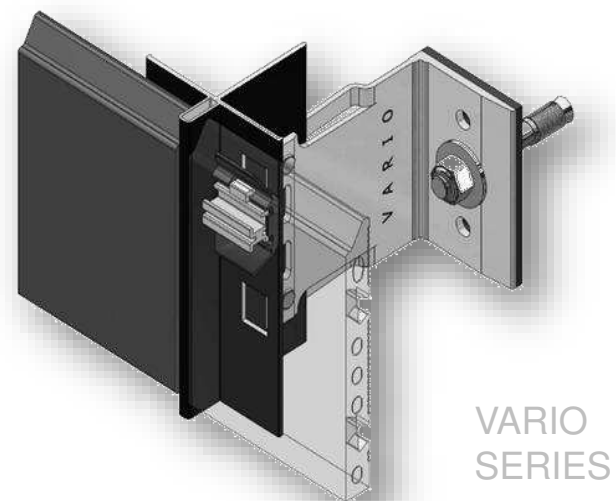
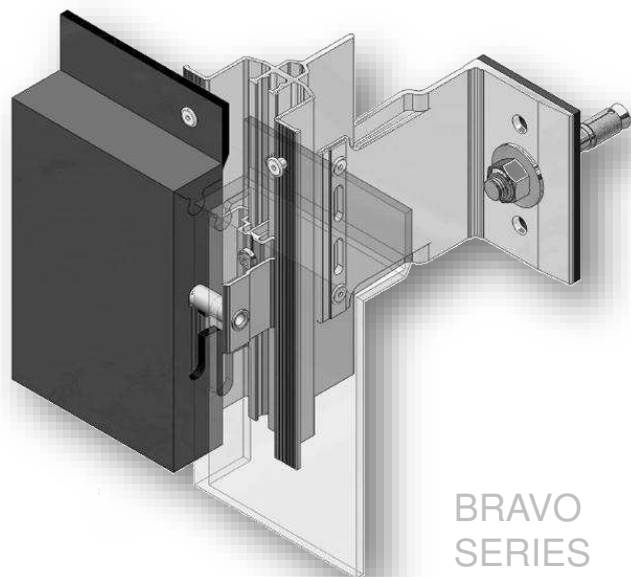
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Designed to Withstand Dynamic Loads

PRODUCT FAMILY

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E97 VENTILATED FAÇADE SYSTEM

HOW IT WORKS

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SYSTEM

// The ETEM **E97** system works by creating a **second protective skin** around a building.

Aluminium brackets and profiles support the external cladding while maintaining a ventilated cavity between the façade and the insulated wall.

// This cavity continuously removes heat and moisture, drains any water that penetrates behind the cladding, improves thermal and acoustic performance, and protects the building envelope from environmental exposure.

// The result is an energy-efficient, durable, and high-performance ventilated façade solution suitable for a wide range of cladding materials and architectural designs.

ADVANTAGES

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SYSTEM

Enhanced Energy Efficiency

Natural Ventilation

High Acoustic Performance

Fast Installation & Easy Maintenance

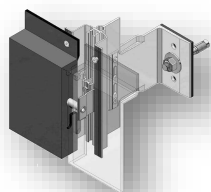
Refined Design & Aesthetics

E97 VENTILATED FAÇADE SYSTEM

KEY FEATURES

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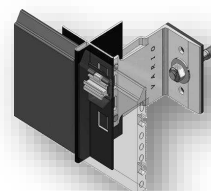
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// BRAVO

Bravo W / Bravo U / Bravo Y / Bravo H

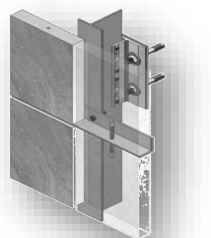
The BRAVO family (BRAVO W, U, Y and H) is designed to deliver a practical and efficient ventilated façade solution with fast installation and robust performance using hunger aluminium profiles.



// VARIO

VARIO Lamella / VARIO GH / VARIO Glue / VARIO Fixings / VARIO Clips

VARIO is an adaptable façade system, designed to provide maximum architectural freedom through multiple concealed technologies, by accommodating multiple attachment technologies



// FORTE

Forte Light / Forte / Forte Pins

FORTE is the heavy-duty member of the E97 family and is engineered and designed specifically for heavy-weight or high-weight façade panels. There are three different solutions such as FORTE, FORTE Light and FORTE Pins, all developed to withstand higher structural loads.

BRAVO SERIES

- Designed for the installation of ETALBOND® aluminium composite panels and cassette-type cladding materials.
- Includes a suspension bracket and over 30 support bracket configurations.

Project
Ibis Style Airport Hotel | Budapest

ETEM
EXPERTS IN ALUMINIUM SYSTEMS



E97 VENTILATED FAÇADE SYSTEM

MOUNTING OPTIONS

// BRAVO

BRAVO W

- Designed for aluminium composite panels.
- Panels are fixed to horizontal aluminium carriers.
- Uses mechanically attached folded cassette panels.

BRAVO U

- Utilizes U-shaped aluminium carrier profiles.
- Suitable for mechanically fixed façade panels.
- Provides a simple and economical installation solution.

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MOUNTING OPTIONS

// BRAVO

BRAVO Y

- Uses Y-shaped support profiles.
- Optimized for specific cladding geometries and load transfer requirements.
- Allows efficient mechanical attachment to the substructure.

BRAVO H

- Based on H-shaped carrier profiles.
- Intended for façade applications requiring continuous support and alignment.
- Suitable for various panel configurations.

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VARIO SERIES

Designed for 15–18 mm ceramic tile cladding, while offering compatibility with a wide range of façade cladding materials.

Project
Katra Offices

ETEM
EXPERTS IN ALUMINIUM SYSTEMS



VARIO SERIES

The Vario system family offers a variety of support solutions to accommodate different cladding materials (glass, HPL, Bakelite, etc.).

Project
Varna Wave, Bulgaria

ETEM
EXPERTS IN ALUMINIUM SYSTEMS



E97 VENTILATED FAÇADE SYSTEM

MOUNTING OPTIONS

// VARIO

VARIO Clips

- Clip fixing.
- Panels are mounted using rear-mounted clips attached to aluminium rails.
- Visible fasteners on the façade surface.

VARIO Fixings

- Rivet or screw fixing system.
- Mechanical fastening directly through the panel into the support structure.
- Suitable for fibre cement, HPL and similar panels.

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MOUNTING OPTIONS

// VARIO

VARIO Glue

- Structural adhesive bonding.
- Panels are bonded to vertical aluminium profiles using certified adhesive materials.
- Creates a completely clean façade appearance without visible fixing points.

VARIO GH

- Hidden fixing system.
- Uses rear-mounted fixing components integrated into the panel.
- Suitable for projects where invisible attachment is required.

VARIO Lamella

- Linear blade/louvre mounting system.
- Supports lamella-type architectural elements.
- Commonly used for shading façades and decorative cladding applications.

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FORTE SERIES

Designed to support heavy façade cladding materials such as stone, marble and granite.

Project
Seecel, Zagreb

ETEM
EXPERTS IN ALUMINIUM SYSTEMS



FORTE SERIES

Support is achieved using pins or
concealed anchors.

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MOUNTING OPTIONS

// FORTE

FORTE

- Undercut anchor fixing.
- Mechanical anchors installed in the back of the panel.
- Completely concealed from the visible façade surface.
- Suitable for ceramic, stone and large-format panels.

FORTE LIGHT

- Lightweight undercut fixing solution.
- Uses concealed rear anchoring technology.
- Designed for lighter façade materials while maintaining invisible fixing

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MOUNTING OPTIONS

// FORTE

FORTE PINS

- Pin-supported mounting system.
- Stainless steel pins engage pre-machined locations in the panel.
- Particularly suitable for natural stone and heavy façade materials

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MATERIALS & TECHNICAL DETAILS

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// BRAVO

Materials

- Aluminium Composite Material (ACM) panels, including etalbond®.
- Folded cassette panels.
- Lightweight metal façade panels.

Technical Details

- Aluminium support structure with vertical and horizontal carrier profiles.
- Mechanically fixed cassette-type panels.
- Available configurations: BRAVO W, BRAVO U, BRAVO Y, BRAVO H.
- Designed for fast fabrication and installation.
- Suitable for large continuous façade surfaces.
- Tested for wind resistance, impact resistance, and weather tightness.

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MATERIALS & TECHNICAL DETAILS

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SYSTEM

// VARIO

Materials

- Fibre cement panels
- High Pressure Laminate (HPL)
- Ceramic panels
- Terracotta elements
- Solid surface materials
- Metal façade panels
- Various architectural cladding boards and panels

Technical Details

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E97 VENTILATED FAÇADE SYSTEM

MATERIALS & TECHNICAL DETAILS

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SYSTEM

// FORTE

Materials

- Natural stone
- Ceramic panels
- Porcelain stoneware
- Engineered stone products
- Solid-surface materials
- Large-format architectural panels

Technical Details

- Heavy-duty aluminium support structure.
- Concealed undercut anchor technology.
- Pin-supported fixing systems.
- Available variants: FORTE, FORTE Light, FORTE Pins
- Designed to support significantly higher dead loads.
- Suitable for thick and large-format panels.
- Fixings remain hidden from the visible façade surface.
- Tested for wind load resistance, impact resistance, and structural performance.