

COMPLICATED FAÇADE CONSTRUCTIONS SIMPLIFIED BY ADHESIVE BONDING

Modern façade constructions have become increasingly complex. Today's building envelopes must combine:

- Architectural aesthetics;
- Energy efficiency;
- Ventilation;
- Moisture management;
- Fire safety;
- Structural performance;
- Long-term durability.

As a result, façade systems now consist of multiple interacting layers, each with its own technical function and performance requirements.

At the center of this complex construction stands the façade cladding itself.

The Façade as the Building's Protective Shield

The façade cladding plays a crucial role in protecting the building against external influences such as:

- Rain;
- Wind;
- UV radiation;
- Temperature fluctuations;
- Moisture penetration.

By protecting the inner layers of the building envelope, the façade directly contributes to:

- Structural durability;
- Indoor comfort;
- Energy performance;
- Long-term building reliability.

Because of this critical function, the detailing and engineering of modern façade constructions require exceptional attention during both:

- The design phase;
- And the construction phase.

Small Detailing Errors Can Have Major Consequences

In modern ventilated façade systems, improper detailing or incorrect installation can seriously affect:

- Façade lifespan;
- Moisture management;
- Structural stability;
- Thermal performance;
- Overall façade behavior.

The increasing technical complexity of façade systems therefore demands smarter and more reliable installation solutions.

Adhesive Bonding Simplifies Modern Façade Engineering

Professional adhesive bonding systems offer an elegant solution to many of the challenges associated with modern façade construction.

Compared to traditional mechanical fixing methods, adhesive bonding provides:

- Cleaner detailing;
- Greater design freedom;
- Uniform stress distribution;
- Improved moisture control;
- Reduced thermal bridging;
- Invisible fixing systems.

Because no drilling or visible fixings are required, façade detailing becomes both technically and aesthetically simpler.

Less Complexity, More Performance

Adhesive bonding helps simplify complicated façade constructions by reducing:

- Mechanical penetration;
- Stress concentrations;
- Material deformation;
- Corrosion risks;
- Installation complexity.

At the same time, bonded systems improve the overall façade appearance by creating smooth, uninterrupted surfaces without visible screws or rivets.

Nearly 50 Years of Façade Experience

At TWEHA®, we have been active in the façade industry for nearly: **50 Years**

Our expertise extends beyond supplying professional bonding systems alone.

Thanks to our technical background as an engineering-oriented organization, we also provide expert support in:

- Façade design;
- Engineering;
- Bonding technology;
- Ventilation detailing;
- Material compatibility;
- Moisture management.

Because we focus exclusively on façade cladding systems, we have built extensive practical knowledge and specialized expertise in this field.

Proven Worldwide

Today, TWEHA® bonding solutions are successfully used on: **Thousands of Buildings in More Than 40 Countries Worldwide**

This international experience allows us to support architects, façade engineers, contractors, and installers with reliable and proven façade bonding solutions for even the most demanding projects.

Smart Façade Solutions Start with the Right Partner

Modern façade construction does not have to become unnecessarily complicated.

With the right bonding technology and technical support, façade systems can become:

- More efficient;
- More durable;
- More aesthetically refined;
- Easier to engineer and install.

At TWEHA®, we help simplify complex façade constructions through intelligent adhesive bonding solutions backed by decades of international façade expertise.

Would you like to discover what we can do for your organization?

Feel free to contact us.

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