

WHY MOISTURE MANAGEMENT IS ESSENTIAL IN VENTILATED FAÇADE SYSTEMS

A ventilated façade system is designed to protect buildings against weather influences while ensuring long-term durability, aesthetics, and performance. Effective moisture management is therefore not optional — it is a critical requirement. Any accumulation of water behind the façade cladding is a clear indication of design, detailing, or installation deficiencies that should be addressed immediately.

Both designers and installers play a vital role in preventing moisture-related issues. A well-engineered drainage and ventilation strategy safeguards the façade construction, extends the service life of the system, and protects the overall value of the building.

Preventing Corrosion and Structural Damage

Although aluminum façade components are highly resistant to corrosion, prolonged exposure to standing moisture can still cause oxidation. When stagnant water combines with dirt, salts, or environmental contaminants, corrosion processes accelerate rapidly. Over time, this can lead to severe and costly damage to profiles, fixings, and substructures — often requiring extensive repairs or replacement.

Avoid Mold, Algae, and Bacterial Growth

Moisture trapped behind façade panels creates the ideal environment for mold, algae, and bacteria. Besides affecting the visual appearance of the façade, biological growth can compromise the integrity of both the cladding and supporting structure. Healthy ventilation and effective water evacuation are essential to maintaining a clean, durable, and hygienic façade system.

Keep Drainage Paths Free

Leaves, dust, insects, and other debris can obstruct drainage openings and ventilation cavities. Blocked drainage paths prevent water from escaping efficiently, increasing the risk of water accumulation and hidden damage. Regular inspection and maintenance are therefore indispensable for ensuring the continued performance of ventilated façade systems.

Silicone Sealants Are Not a Permanent Solution

Silicone sealants are often necessary within façade systems to absorb movement, reduce noise, and improve weather tightness. However, sealants should never be considered a permanent solution for water infiltration or design shortcomings. Over time, sealants age, shrink, and lose elasticity. Periodic inspection and maintenance are essential to guarantee lasting protection and façade reliability.

Long-Term Performance Starts with Proper Moisture Management

A high-quality ventilated façade system is only as reliable as its moisture management strategy. Proper detailing, professional installation, effective drainage, and ongoing maintenance are the foundation for durable and sustainable façade performance. Investing in moisture control today prevents expensive repairs tomorrow — while preserving the appearance, safety, and value of the building for decades to come.



TWEHA®, 2026