

## BONDED NATURAL STONE CLADDING

*Build smarter, lighter, and more cost-efficient with maximum design freedom*

Natural stone has symbolized durability, aesthetics, and quality for centuries. However, traditional installation methods using stainless steel anchors come with technical limitations. Due to the self-weight of the slabs and wind loads, high stresses develop within the stone. This increases the risk of anchor breakout and imposes strict requirements on material thickness.

In conventional applications, relatively thick slabs are often required—more than 40 mm for marble and more than 30 mm for granite—to adequately resist these forces. This not only leads to higher material consumption but also increased costs and heavier construction.

---

### The smart solution: bonding

With bonded natural stone cladding, these challenges become a thing of the past. By bonding the natural stone slabs to a substructure, loads are evenly distributed over a much larger surface area. As a result, stress per mm<sup>2</sup> is significantly reduced. In addition, point loads caused by mechanical fixings are completely eliminated. No pin connections also mean no risk of breakout at the fixing points. The result is a more reliable and safer system.

---

### Thinner, lighter, and more efficient

Thanks to this technique, the thickness of natural stone slabs can be significantly reduced—offering clear advantages:

- **Less material usage** – more yield from each cubic meter of natural stone
- **Lower weight** – easier handling and reduced structural load
- **Reduced transport costs** – more efficient and sustainable logistics
- **Greater design freedom** – slimmer, more elegant façades

---

### Proven technology with a forward-looking vision

Bonding natural stone with TWEHA® StoneMate is not a new trend, but a proven solution that has been successfully applied by industry professionals for over 20 years. It combines technical reliability with economic benefits—a true win-win situation.

---

### Choose innovation without compromise

With bonded natural stone cladding, you opt for a modern façade solution that perfectly balances performance, aesthetics, and efficiency. Less weight, lower costs, and maximum reliability—that is the power of bonding with TWEHA® StoneMate.