

BONDED NATURAL STONE CLADDING

Due to the weight of the natural stone slab and occurring wind loads, the traditional way of mounting natural stone with stainless steel anchors creates a considerable stress in the natural stone, which makes it possible the anchorage to outbreak.

To indicate whether natural stone is resistant to these occurring forces at the location of the pin connection, the specific “breakthrough resistance” has to be determined. For this reason, if marble is used as a wall covering you usually requires slabs with a thickness > 40 mm, while for granite usually a thickness > 30 mm will do.

However, if the natural stone façade slab is bonded on a substructure, the occurring stress spreads over a larger (adhesive-) surface, which significantly will reduce the stress per mm². Also, because a pin connection is not present, the specific “breakthrough-resistance-question” is absent.

As a result the façade cladding, only taking into account the bending-strength of the natural stone, can be carried out with more thinner slabs. So you need less material (more square meters out of one cubic meter stone), which is less in weight, so more manageable and more economic regarding transport costs.

In short, bonding natural stone with TWEHA StoneMate gives a win-win situation that has been discovered by our relations already for more than 20 years!