

Hygrothermal Testing of Walling Systems

- Applus+ Laboratories reproduces controlled environmental conditions, including temperature, moisture and rain, to assess the durability of construction systems.
- We assess the conformity of External Thermal Insulation Composite System in accordance with ETAG 004

The new hygrothermal chamber of Applus+ Laboratories reproduces the performance of external enclosures against different accelerated weathering cycles. This equipment applies different parameters for temperature (+80/-30°C), moisture (0/100%) and water sprinkling (rain) to determine the resistance, performance and thermal efficiency of component materials of the walling system.

Our hygrothermal equipment is relatively unique in Europe, as it is one of the few test rigs that can perform tests in accordance with the European Technical Approval Guideline (ETAG) 004 on External Thermal Insulation Composite Kits and Systems with Rendering. This hygrothermal chamber allows us to test specimens up to 3 meters in length and 2 meters high composed of different materials.

The leading manufacturers of facade claddings in Europe have already placed their trust in Applus+ Laboratories to carry out testing of their products using our new equipment.

Obtaining the ETA

The ETA (European Technical Approval) is a voluntary assessment for products outside the scope of harmonized European Standards, which provides the CE Marking. The ETA is a key element for exporting to Europe, avoiding technical barriers and preventing repeated testing to meet national regulations.

