



CONFIRMED BY TESTS

100
years

Permanent airtightness with pro clima!
Tested for the entire usage period

- ✓ Reliable functioning tested for 100 years
- ✓ Independently confirmed
- ✓ Minimum requirements significantly exceeded

Thermal insulation and airtightness should perform for more than 50 years

Adhesive tapes which are applied to attain airtightness in accordance with DIN 4108-7, SIA 180 or OENORM B 8110-2 should have a durability of 50 to 100 years – after all, this is the expected service life of thermal insulation layers, to ensure that they protect against damage due to convection and moisture vapour ingress. This period corresponds with reality as airtightness is currently being optimised and thermal insulation is being replaced or adapted for today's legal requirements on structures dating from the 1950s, 1960s and 1970s.

As little as 17 years can be regarded as permanent

A process for accelerated aging of adhesive tape joints has been developed at the University of Kassel as part of a research project on "Quality assurance for adhesive-based joint technology in airtightness layers". With this process, adhesive tapes have to demonstrate certain specified minimum tensile strengths after being stored at increased air temperature and humidity (65 °C and 80% relative humidity) for a period of 120 days (this corresponds to around 17 years in reality). On successful completion of this test an adhesive tape can be regarded as permanent.

pro clima adhesive tapes have been successfully tested for 100 years

As part of tests to ascertain the durability of airtight joints, pro clima's TESCON® VANA*, UNI TAPE and TESCON No.1 adhesive tapes have also been subjected to accelerated aging at the University of Kassel under the conditions described above. At the request of pro clima, the test period was increased from 120 days to 700 days. Accelerated aging for 700 days corresponds to 100 years in reality. The test results for the three adhesive tapes from pro clima were also positive for this increased period of accelerated aging. The composition of the solid acrylate adhesive used on TESCON® PROFIL & TESCON EXTORA® sold in Australia and New Zealand is the same as TESCON® VANA that has been tested for 100-year adhesion.

You are on the safe side with pro clima!

These demanding tests with increased test periods have confirmed the suitability of TESCON® VANA* adhesive tape for the creation of permanent airtightness which surpass the requirements of DIN 4108-7, SIA 180 and OENORM B 8110-2. This confirms that Intelligent air barriers, airtight wood-based panels and exterior weather resistive barriers can be reliably bonded using pro clima products!

