

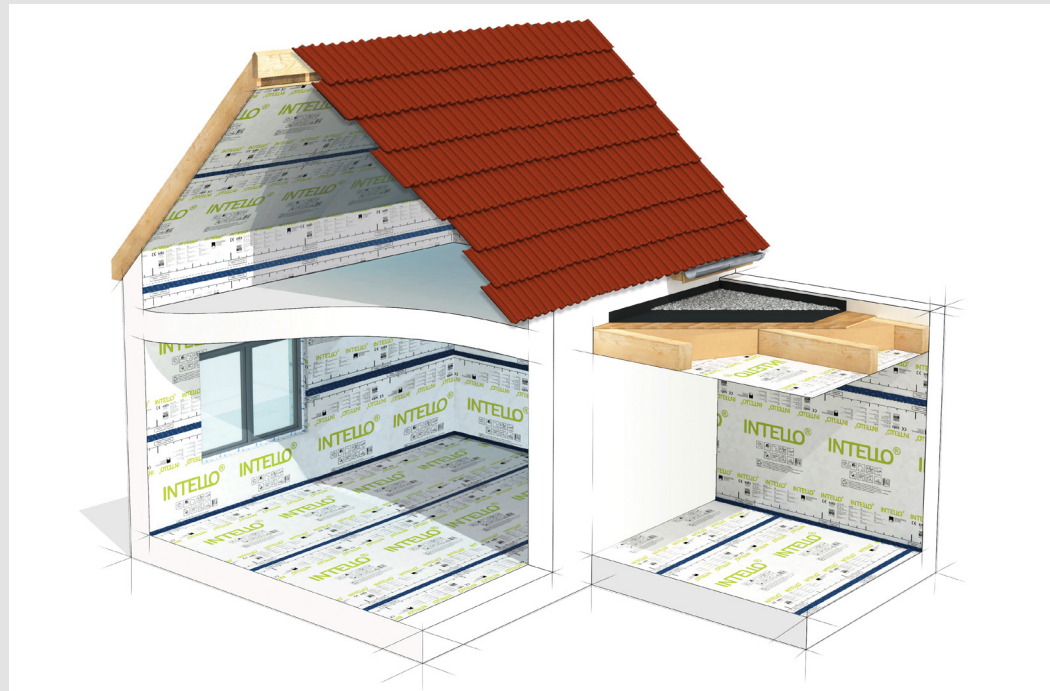
Independent, national technical approval, European: The INTELLO humidity-variable vapour retarder system has been awarded ETA approval

European Technical Assessment confirms high durability even under demanding conditions, as well as compatibility with DIN 68000-2

Long-term durability, even subject to extreme heat or cold: pro clima's INTELLO and INTELLO PLUS airtight membranes are humidity-variable and very resilient. This has now been confirmed by independent technical testing by the German Institute for Construction Technology (DIBt).



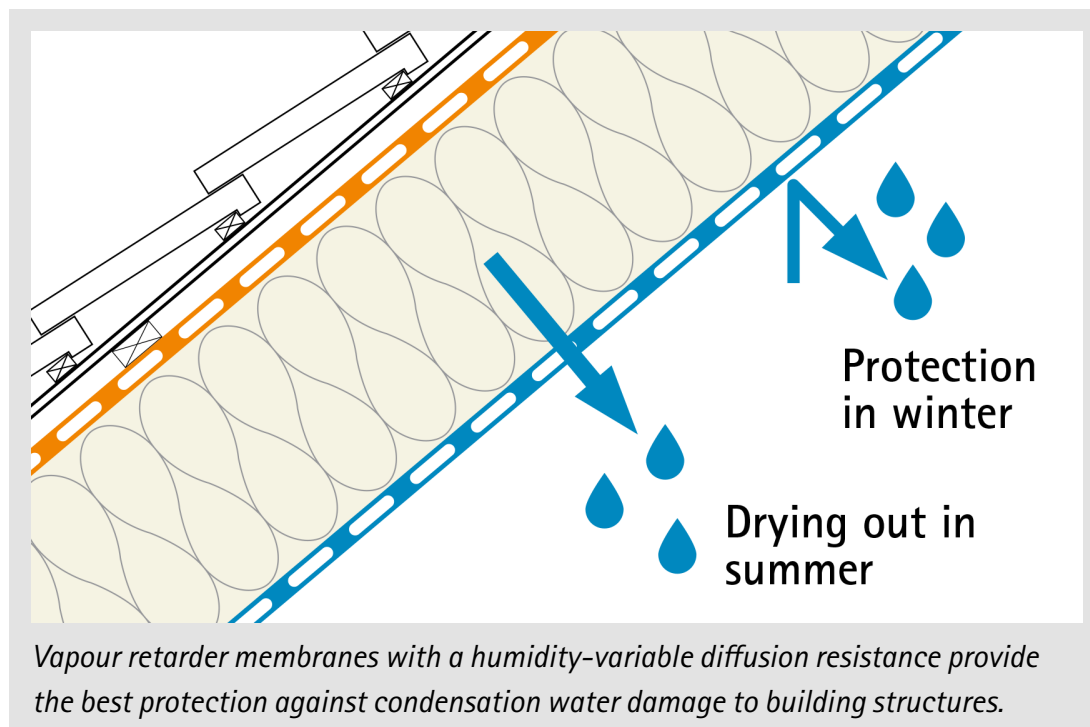
"Our humidity-variable INTELLO and INTELLO PLUS vapour retarders, together with our DB+ product, were the first humidity-variable vapour retarders to receive national technical approval from the German Institute for Construction Technology (DIBt). These products have now been awarded approval in the European Technical Assessment (ETA). As a result, they now also have the required proof of durability demanded by DIN 68000-2 for vapour retarders with humidity-variable diffusion resistance," says carpenter and construction engineer Michael Förster, who is the head of Application Technology at pro clima.



Humidity-variable vapour retarder and airtight membranes. INTELLO – The high-performance system from pro clima for maximum reliability. Even on structures with demanding engineering conditions.

Advantages of humidity-variable vapour retarders: Maximum reliability for built structures

Humidity-variable vapour retarders offer many advantages relative to membranes with a constant diffusion resistance. After all, they exhibit varying resistances to the transport of moisture. This how they ensure well-protected building components. It is important that the spread between humidity-variable s_d values should be as large as possible. The reason for this is that a humidity-variable vapour retarder can only offer maximum protection if it is as impermeable as possible in winter – meaning that little moisture can enter into components. On the other hand, it should be very open to diffusion in summer to allow components to dry out again when necessary.



Testing by an independent committee of experts at DIBt

According to DIN 4108-3, materials are regarded as open to diffusion if they have an s_d value of under 0.50 m. Only vapour retarders with constant diffusion resistances can be tested within the framework of CE marking in line with DIN EN 13984. As a consequence, pro clima decided to submit its popular INTELLO and INTELLO PLUS membranes for this demanding testing. The requirements for these tests were specified by an independent committee of experts at the German Institute of Construction Engineering (DIBt). As part of this testing, the two vapour retarders were subjected to accelerated ageing with significantly more demanding conditions (increased temperature and doubled ageing period) as compared with DIN EN 13984. In addition, the permitted deviations of the aged diffusion resistances from the unaged diffusion resistances have been made significantly more demanding in this evaluation as compared to the European standard.

Do you have any questions? Our Engineering Hotline can help you

The engineers and technicians on our pro clima Engineering Hotline will be delighted to answer your questions on this subject area and also regarding specific structures:

<https://www.proclima.com/service/technical-support>