

**National  
Seal Systems  
Limited**

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## AIRTIGHT CONSTRUCTION WINDOW AND DOOR JOINTS

NEW CONSTRUCTION • PASSIVE HOUSE • RENOVATION



**DL** **CHEMICALS**  
Since 1936 Manufacturer of Sealants

**TREMCO**  
**illbruck**

Gerband  Klebeband

## OBJECTIVE

Sealed finishing of windows and doors for an energy-efficient and ecologic construction.

Therefore, a high-quality and powerful joint system for joinery and masonry is required. Thanks to a combination of some specific products an important extra value can be obtained with relation to the energy-efficient construction.

## BUILDING REGULATIONS

Warm air leaking out through gaps in a building's external envelope, is a major cause of heat loss and, consequently, wasted energy. Improving airtightness reduces the uncontrolled flow of air through gaps and cracks in windows and doors.

The air leakage testing (blower door test) can be used in several ways to assess the amount of air leakage from the whole envelope area of the building, identify the air leakage in order to target areas for remedial sealing, measure the effectiveness of remedial sealing ...



## AIRTIGHTNESS – Leakage paths at windows and doors

The design of a building and the quality of its construction will have a major effect on the amount of air leakage. The issue of airtightness needs to be addressed at an early stage, when the designer must identify the exact position of the airtight barrier in the building envelope.

[National Seal Systems](#) can supply you all necessary, high quality products and technical support to achieve this goal.





**Parabond W Exterior**  
Combination of fleece and vapour diffusion open function membrane with self-adhesive affixing strip.



**Gerband 350sk Interior**  
Airtight Fleece Tape



**ME500 Duo Flexible**  
**Window Membrane**



**Parabond Construction**  
1 component, neutral curing, ready-to-use, elastic adhesive sealant, based on Hybrid polymer with a high and permanent elasticity.

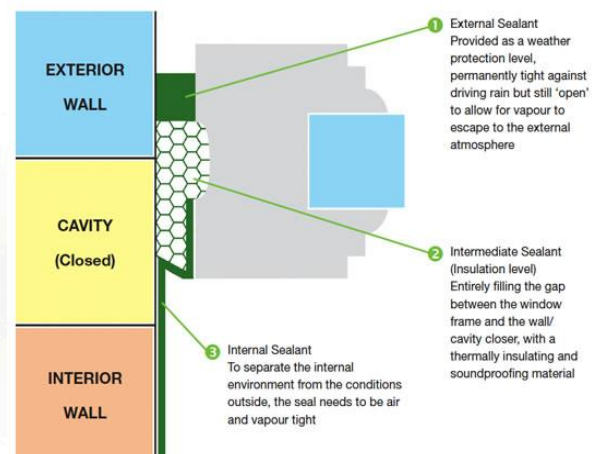
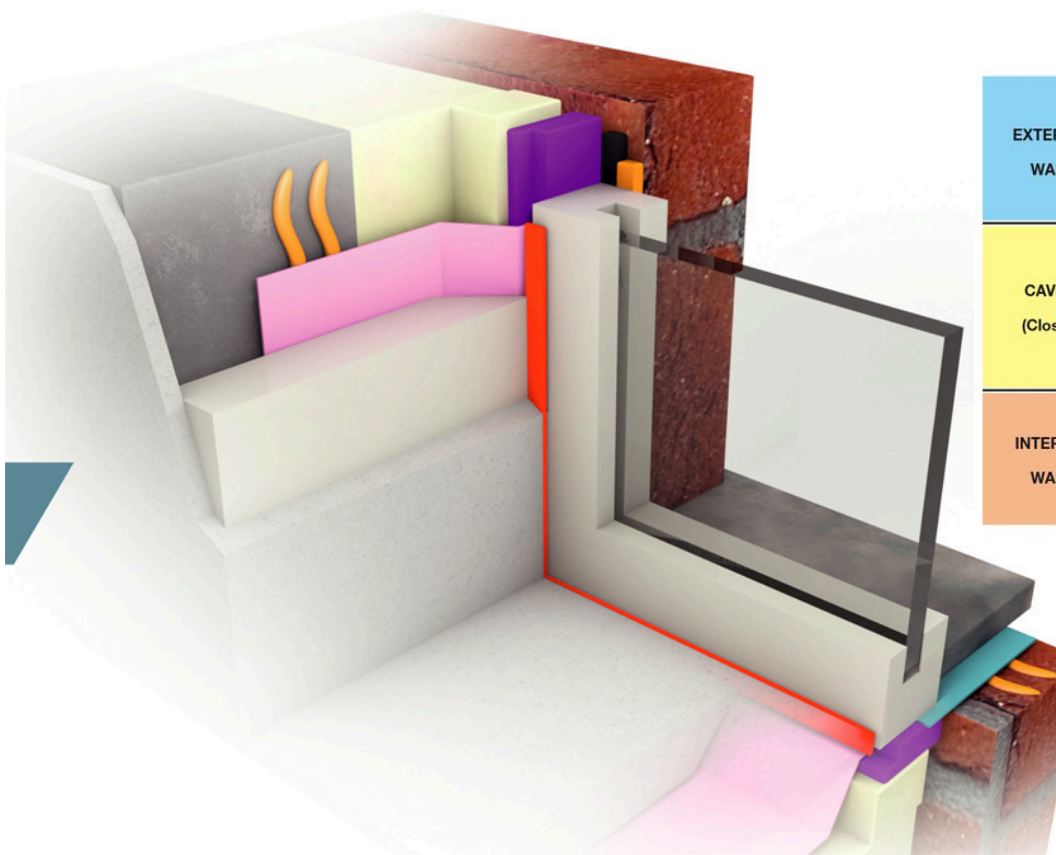


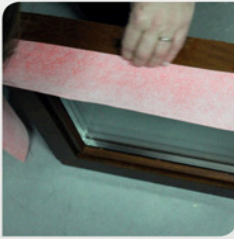
**TP600**  
**Compriband 600**



**FM330**

**Airtight PU Foam - Gun Grade**





## USE

Use PARABAND W (INTERIOR and/or EXTERIOR) as a continuous joint between window and plasterwork to obtain a sealed joint.

There are many options, depending on the construction method and the used building concept (mainly determined by the architect). The example below is only one of the possibilities:



1 Apply PARABAND W (INTERIOR and/or EXTERIOR) with the adhesive side on the joinery, after the anchor bolts are installed (the anchor bolts are supposed to be behind the Paraband). Provide extra length for overlapping in the corners.

2 On the outside, apply the back filling (Topband, Pressband PU or Acryl or Round foam strip) in the joint.



3 Fill the joints between joinery and cavity insulation with PARAFOAM FLEXIBLE. After curing, use a knife to remove waste foam.

4 Glue PARABAND W (INTERIOR and/or EXTERIOR) on the joinery with at least 2 bands of PARABOND CONSTRUCTION. Use a sufficient quantity of PARABOND CONSTRUCTION in the corners to obtain perfect waterproofing and sealing.



5 Between the plasterwork and the window there should be left a joint which must be finished off with PARACRYL. This is the dilatation joint between plasterwork and window frame.

6 Use PARABOND CONSTRUCTION to finish off the joints on the outside



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