

INTELLO® Installation instruction

The Intelligent Airtight System (IAS) is installed on inner-side of exterior walls and upper most ceiling to achieve an airtight building envelope.

Please note:

Ensure all insulation, plumbing, wiring, ducting is complete and properly fitted as if building is ready for linings to be fixed.

Check structure for nails, splinters and unnecessary protrusions – avoid punctures and excessive bulging in membrane.

Ensure site and structure (especially floor) is dry, clean, dust and grease/adhesive free, also loose timber and material cleared away to allow safe access to walls and ceilings.

Suggested equipment: Pneumatic stapler (check power supply), quantity of staples (approx. 10,000) rigid measure, sharp knife, adhesive gun, vivid marker, ladder or scaffold, straight edge, cutting board (sheet of ply).

Check site safety procedures.

1 Mark at 1.475 m

Mark the studs using a vivid marker and rigid measure at a distance of 1.475 m from the floor to indicate where the upper edge of the INTELLO is to be aligned.



INTELLO PLUS
Intelligent vapour check and airtightness membrane with humidity-variable diffusion resistance for active moisture management

2 Unroll the membrane

Unroll INTELLO for entire wall section allowing sufficient material for "relaxed" corners, returns onto intersecting wall studs and fixing to joinery. Preferably cut wall sections after stapling main sections of INTELLO. Important: The writing on the INTELLO should face into the room.

3 Stapling

Staple along the entire upper edge of the INTELLO (1) to every stud first, then on a middle stud (2) run a hand down toward the floor to tighten the INTELLO and ensure there is a 25 mm return for fixing to floor – apply the first staples from the bottom. Leave a max. distance of 100 - 150 mm between each staple.



TESCON VANA
Multi-purpose adhesive tape for sealing membrane overlaps

4 Overlap the membranes

Using the printed markings as a guide, overlap the upper sheet by approx. 150 mm and staple both sheets along the entire length first. As before in 3 – on the middle stud tighten the membrane upwards and staple. Ensure junctions between walls and ceilings are "relaxed". Avoid joining INTELLO membranes in corners.

5 Tape the overlaps

Tape the INTELLO with TESCON VANA adhesive tape so that it is free of any tension or stress. Position the tape centrally and press firmly to secure using the PRESSFIX. Cut a slit in any folds in the overlapping part of the membrane and re-tape.



ORCON
Multi-purpose joint adhesive in cartridge or tubular film. For joints to adjacent mineral or rough structural components

6 Wall and ceiling

Lay the INTELLO so that it completely covers the walls and ceiling and tape it with TESCON VANA, ensuring that you form an airtight seal.

7 Floor joint

Apply ORCON joint adhesive, forming a continuous bead approx. 5 mm thick on the floor board and lay the membrane in the adhesive bed, leaving an expansion joint. Do not press the adhesive completely flat.
Note for all adhesive bonds: The substrate onto which the adhesive is applied should be load bearing, dry, smooth and free of dust, silicon and grease.



INSTAABOX
Installation box for airtight installation of service boxes without a service void on the interior of external walls

8 Installation box

Cut a hole in the INTELLO that is the same size as the INSTAABOX. Make the required number of holes in the INSTAABOX and feed the cable through these holes, then align the INSTAABOX and tape it to the INTELLO with TESCON VANA, ensuring that you form an airtight seal.

9 Pipe and cable penetrations

Join the pipes and cables with ROFLEX and KAFLEX air sealing sleeves. The cable sleeves are self-adhesive. Tape the pipe sleeves to the INTELLO with TESCON VANA.



ROFLEX / KAFLEX
Sealing grommet for rapid and permanent airtight feedthroughs for cables and pipes through the airtight sealing layer



WINCON
Verification of workmanship

Further information about application and construction is given in the pro clima planning documentation and application recommendations.
If you have any questions, please contact us.

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