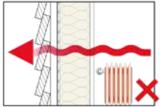
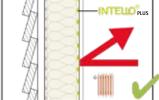
# pro clima INTELLO® PLUS

# **High-performance vapour check**

.... the essential element to ensure thermal insulation performs to expectations resulting in warmer, drier, healthier homes – all year round

# **Benefits of Airtightness**





#### MOISTURE CONTROL IN SUMMER AND WINTER

#### **ENERGY EFFICIENCY**

- Reduced air infiltration saves energy so less heating / cooling is required
- Keeps your home warm in winter and cool in summer
- Solution to reduce overall energy dependence through more energy efficiency

#### FREEDOM FROM STRUCTURAL DAMAGE

- Prevents moisture build up in the construction
- High drying capacity through the intelligent INTELLO® membrane
- ✓ In-situ verification of the performance through Blower Door test

#### HEALTHY INDOOR AIR QUALITY

- Less contamination able to get into the building
- Prevents mould and mildew in the construction
- ✓ Better control of ventilation possible

## **Application**

The Intelligent Airtightness System (IAS) eliminates uncontrolled air leakage through the building structure and therefore allows fibrous insulation to perform to expected performance levels. INTELLO® PLUS operate as a 'humidity variable vapour control layer' offering high diffusion tightness in winter (protecting against interstitial condensation) and allowing maximum diffusion openness in summer (enabling rapid drying of the building envelope). This creates a durable dry structure, healthy indoor air quality (free from mould and mildew) and comfort. The (IAS) can be combined with all fibrous thermal insulation materials and is installed on the inner-side of the exterior walls and upper-most ceiling. Please refer to the installation guide on the back of the page.

### **Advantages**

Maximum protection for your construction; ideal prevention against structural damage and mould, even in the event of unexpected moisture intrusion; extremely high humidity-variable diffusion resistance.

### System products



INTELLO® PLUS connection strip
The connection strip is designed to connect the airtightness membranes at junctions between internal walls and external walls/ceilings. Please refer to the INTELLO® PLUS connection strip installation guide



TESCON VANA

Multi-purpose adhesive tape for sealing



KAFLEX / ROFLEX

Sealing grommets for cables and pipes that penetrate the membrane



TESCON PROFIL

Corner sealing tape for a secure and permanent airtight seal of junctions between INTELLO® membranes and windows or doors.



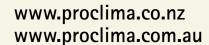
INSTAAROX

This box allows for airtight installation of electrical flushboxes for wall systems without service cavity



ORCON

Multi-purpose liquid adhesive for connections to rough adjoining structural components or mineral surfaces



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# INTELLO® PLUS Installation instructions

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

#### Please note:

These instructions are suitable for use with INTELLO® and INTELLO® PLUS products.

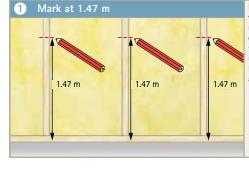
Ensure all insulation, plumbing, wiring and ducting is complete and properly fitted as if the building is ready for linings to be fixed.

Check the structure for nails, splinters and unnecessary protrusions. Avoid punctures and excessive bulging in the membrane.

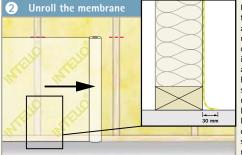
Ensure the site and the structure (especially the floor) are dry, clean, dust and grease/adhesive free. Clear away loose timber and material to allow safe access to walls and ceilings.

Suggested equipment: Pneumatic stapler, staples, ruler, sharp knife, adhesive gun, vivid marker, ladder or scaffold, straight edge.

Check site safety procedures.



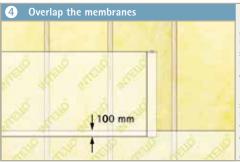
Mark the studs using a vivid marker and rigid measure at a distance of 1.47 m from the floor to indicate where the upper edge of the INTELLO® PLUS is to be aligned.



Unroll INTELLO® PLUS 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® PLUS. Important: The writing on the INTELLO® PLUS should face into the room



Staple along the entire upper edge of the INTELLO® PLUS (1) to every stud first, then on a middle stud (2). Run a hand down toward the floor to tighten the INTELLO® PLUS and ensure there is a 30 mm return for fixing to floor. Apply the first staples from the bottom. Leave a max. distance of 100 – 150 mm between each staple.



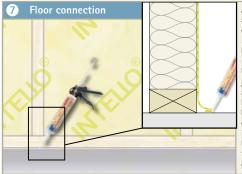
Using the printed markings as a guide, overlap the upper sheet by approx. 100 mm and staple both sheets along the entire length first. As in step 3 – on the middle stud tighten the membrane upwards and staple. Ensure junctions between walls and ceilings are "relaxed". Avoid joining INTELLO® PLUS membranes in corners.



Tape the INTELLO® PLUS 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.



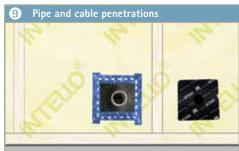
Lay the INTELLO® PLUS so that it completely covers the walls and ceiling and tape it with TESCON VANA, ensuring that you form an airtight seal.



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, silicone and grease.



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



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® PLUS with TESCON VANA.

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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