

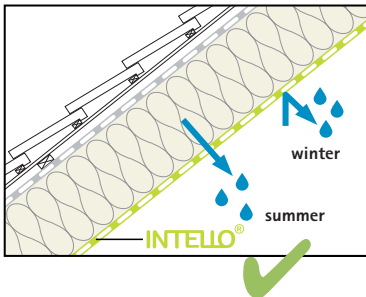
High-Performance Airtightness & Moisture Control Membrane

WHY DO YOU NEED INTELLO®?

Maximum thermal insulation performance and moisture control for warmer, drier & healthier homes – all year round

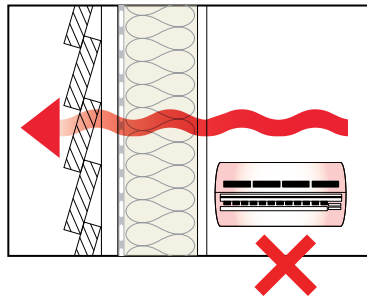
FREEDOM FROM STRUCTURAL DAMAGE

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



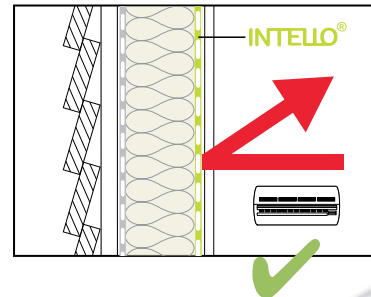
HEALTHY INDOOR AIR

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



ENERGY SAVINGS

- ✓ Reduced air infiltration requires fewer heating/cooling appliances
- ✓ Keeps the home warm in winter and cool in summer
- ✓ Reduces overall energy dependence through more energy efficiency



WHAT DOES INTELLO® DO FOR YOU?

INTELLO® has high humidity-variable diffusion resistance to protect your construction and prevent structural damage and mould, even in the event of unexpected moisture intrusion

- ✓ Protects structures from internally driven moisture
 - ✓ Controls air movement through the building envelope
 - ✓ Allows structural drying on the inside



System Products



INTELLO® Installation Instructions

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

Please note:

- 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. All 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), ruler, sharp knife, adhesive gun, vivid marker, ladder or scaffold, straight edge, cutting board (sheet of ply).
- Check site safety procedures.

1 Mark at 1.48 m

Mark the studs using a vivid marker and rigid measure at a distance of 1.48 m from the floor to indicate where the upper edge of INTELLO® is to be aligned.

2 Unroll the membrane

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

3 Stapling

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

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 step 3, tighten the membrane upwards and staple on the middle stud. Ensure junctions between walls and ceilings are "relaxed". Avoid joining INTELLO® membranes in corners.

5 Tape the overlaps

Tape 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 PRESSFIX. Cut a slit in any folds in the overlapping part of the membrane and re-tape.

6 Wall and ceiling

Lay 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. **Important:** The substrate onto which the adhesive is applied should be load bearing, dry, smooth and free of dust, silicon and grease.

8 Installation box

Cut a hole in INTELLO® that is the same size as INSTAABOX. Make the required number of holes in INSTAABOX and feed the cables through these holes then align INSTAABOX and tape it to 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 INTELLO® with TESCON® VANA.

Packaging

Product	Roll length	Roll width	Roll area	Roll weight
INTELLO® / INTELLO® PLUS	20 m	1.50 m	30 m²	3.5 kg / 4 kg
INTELLO® / INTELLO® PLUS	50 m	1.50 m	75 m²	7 kg / 9 kg
INTELLO® / INTELLO® PLUS	50 m	3.00 m	150 m²	14 kg / 18 kg

Technical data

Characteristic	Value
Fleece:	PP microfibre fleece
Membrane:	polyethylene copolymer
Colour:	white-transparent
Surface weight:	85 ± 5 g/m²
Temperature resistance:	-40 °C to +80 °C
µ:	37.500
Thickness:	0.20 ± 0.05 mm
MVTR-value mean / humidity variable:	40 MNs/g / 1.25 - > 125 MNs/g
Fire class:	E
Fire safety classification:	5.3
Nail tear resistance MD/CD:	130 N/5 cm / 105 N/5 cm
Tensile strength:	90 % / 90 %
Nail tear-out resistance:	70 N / 70 N
Durability:	passed

Your local support

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