

DB+ Installation instructions

The Smart vapor retarder and airtight layer is installed on inside of the insulation in exterior walls and below the ceiling as the means to make a very airtight building enclosure.

Please note:

All installations and framing that will be encapsulated by insulation and all insulation (except blown-in), should be installed prior to membrane installation.

Check studs/framing for nails, splinters and unnecessary protrusions – this prevents punctures and excessive bulging of the membrane.

Ensure the site and floor is dry, clean, dust and free of grease/adhesive/silicones. Remove loose materials and sweep prior to installation.

Equipment: Pneumatic stapler (compressor at appropriate pressure, so staples set flush with DB+: the paper can be punctured), 10,000+ T50 staples, tape measure, utility knife, caulk gun, marker, straight edge, cutting board/sheet of plywood, ladder or scaffold.

Allways follow site and construction safety procedures.

1 Mark at 51"

Mark the studs using a marker and measuring tape at a distance of 51" from the floor to indicate where to align the upper edge of the DB+.



DB+
Smart vapor retarder and airtightness membrane with humidity-variable diffusionresistance for active moisture management

2 Unroll the membrane

Unroll DB+ for entire wall section allowing sufficient material for "relaxed" corners, at intersecting wall studs and fixing to studs. Preferably cut wall openings after stapling main sections of DB+.

3 Stapling

Staple along the entire upper edge of the DB+ (1) to every stud first, then on a middle stud (2) pull the membrane tight at the bottom and ensure there is a 1" overlap covering the floor.

Apply staples parallel to the studs working your way down each stud spacing the staples evenly at 3" distance.



TESCO 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. 4"-6" and staple both sheets along the entire length first. As in step 3 – pull the membrane tightly up (forming a triangle) and staple. Ensure junctions between walls and ceilings are "relaxed". Also avoid vertical joints/overlaps of DB+ in corners.

5 Tape the overlaps

Tape the DB+ with UNITAPE airtight tape so that it is free of any tension or stress. Center tape over the joint and press firmly to adhere it securely with a PRESSFIX tool.

Remove any leaks caused by creases or folds in membrane by covering them with tape or cutting them out.



ECOCOLL
Natural latex joint adhesive in cartridge or tubular film. For joints to adjacent mineral or rough structural components

6 Wall and ceiling

Install the DB+ so that it completely covers the walls and ceiling and tape seams with UNITAPE, ensuring that you form an airtight seal.

7 Floor joint

Apply ECOCOLL adhesive, forming a continuous bead approx. 1/4" 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.



ROFLEX / KAFLEX
Sealing gaskets for rapid and permanent airtight connections to cables and pipes that penetrate the airtight layer

8 Counter battens

Add horizontal counter battens spaced max. 20" apart before the dense packed insulation is blown in.

The battens form a service cavity in which the wiring/services can be placed. Cavity can also be insulated before the sheetrock is mounted.

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 DB+ with TESCO VANA.



Blowerdoor
Verify airtightness of installation with a blowerdoor test.