

Application of ME010 Full Facade Breather Membrane

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ME010 Façade UV and Fire Membrane

illbruck ME010 is a vapour permeable polyester, airtight and watertight breather membrane used on the exterior side of lightweight steel and timber frame systems. When installed as a full façade breather membrane over substrates with a minimum Class A2-s1, d0 reaction to fire performance, ME010 achieves a Class B-s3, d0 in accordance with EN 13501-1.

Please note:

The membrane must be installed in the correct orientation with the smooth /glossy coated side always facing outwards towards the external environment with the textured side of the membrane facing back to the substrate.

Materials required:

- illbruck ME010 Façade UV & Fire Membrane
- illbruck ME315 Total Protection Tape
- illbruck AT140 Primer
- illbruck SP025 Fire Membrane Adhesive
- Low tack masking tape

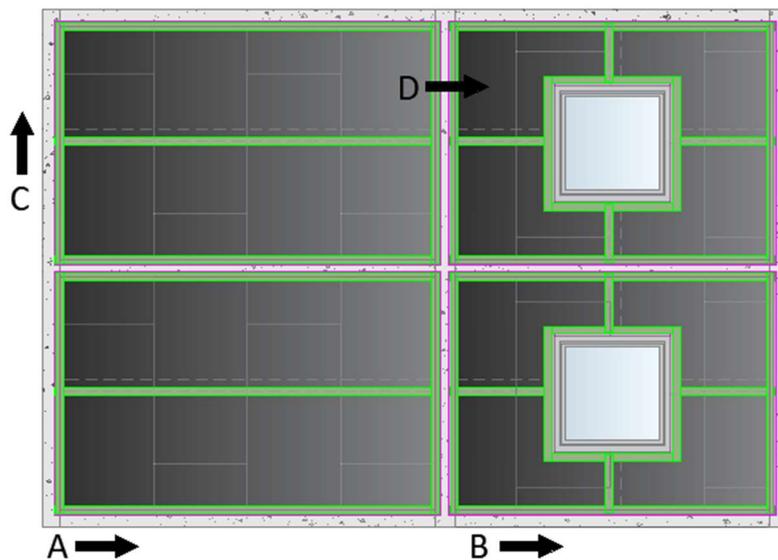
Tools and Accessories:

- Sharp retractable bladed knife and /or illbruck cutting shears
- Laser or chalk line
- 2" disposable paint brushes
- Pots for decanting AT140 Primer
- Stout seam roller
- Bench or table wide enough to accommodate the width of ME010 and long enough to accommodate the required cut lengths

Before commencing work:

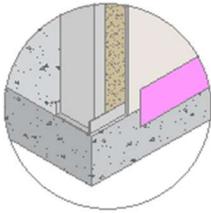
Ensure the working area is dry and free from dust, debris and other obstructions including other trades.

Suggested workflow for Right-Handed applicators.

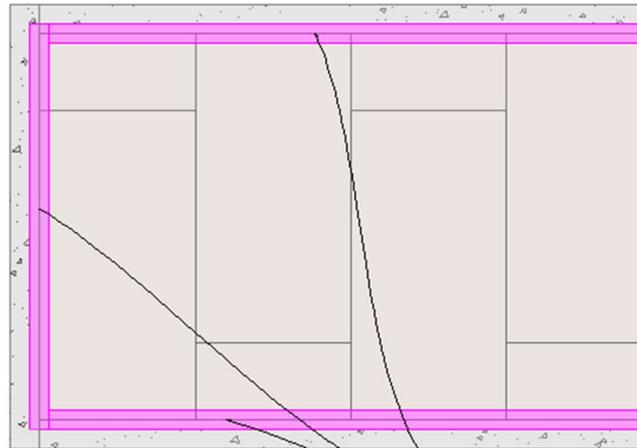


Elevations with no openings (for applications where openings occur refer to Steps 5 – 9).

Step 1:



ME010 membrane installed with a 50/50 lap with column /slab edge & sheathing board.

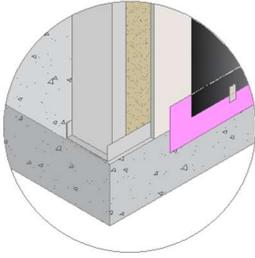


ME010 Membrane.

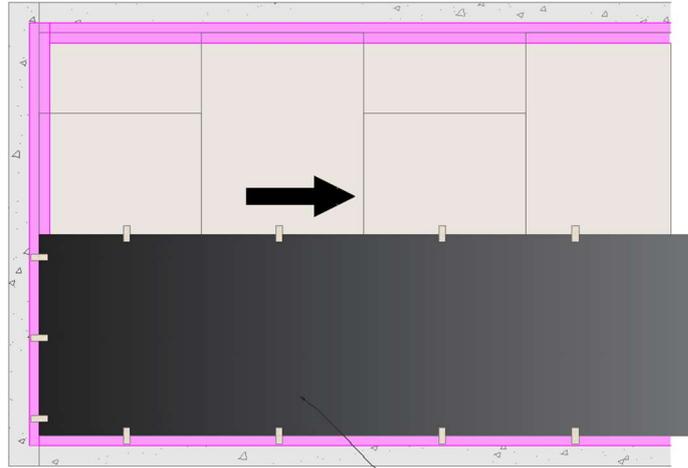
Ensure that the junctions between the sheathing boards and floor slabs & columns have been sealed with illbruck ME010 Membrane (overlapping both the structure and sheathing board by min. 100 mm) and bonded in place using SP025 Fire Membrane Adhesive.

This may have been applied by others and should have been installed in strict accordance with the illbruck method statement which includes the application of AT140 primer on any friable concrete substrates or over silicone based sealant compounds that may have been used to seal the butt joints in the sheathing boards.

Step 2:



ME010 membrane installed with an overlap of 100 mm over previously installed ME010 around slab edge & sheathing board.



First or lower layer of ME010 Breather Membrane held in place temporarily with low tack masking tape.

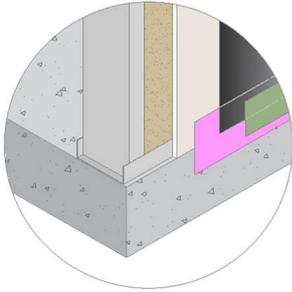
Starting at the lowest elevation, work one bay at a time. Ensure that the scaffolding (if provided) is clear of any other trades or obstructions left by others.

The ME010 breather membrane is 1500 mm wide and supplied on a 50 m log. Stand the log upright and place the lower loose corner on the mid-point of the overlapping ME010 membrane that has been used to seal the foot of the sheathing board and secure temporarily with a **low tack** masking tape. Place 1 or 2 more pieces vertically so the membrane does not flap around. The overlap must be a minimum of 100 mm. Working as a team of two or more unfurl the ME010 membrane horizontally until you have reached the end of the bay or reached a window or door opening. (See Stage 5 onwards for cutting in around window openings).

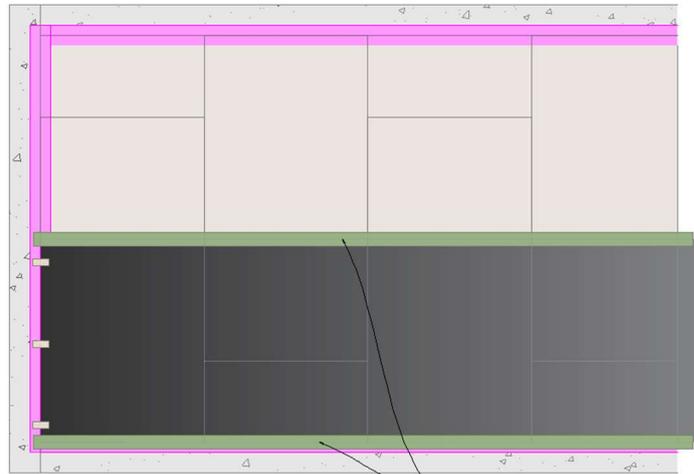
As the ME010 membrane is unfurled apply more sections of masking tape along the top and lower boards at intervals of not less than 450 mm and not more than 1000 mm to prevent wind uplift whilst you are working.

Ensure that the unfurled ME010 membrane is plumb, a laser or chalk line may be of assistance.

Step 3:



ME315 Total Protection Tape installed with a 50/50 lap with ME010 façade membrane.



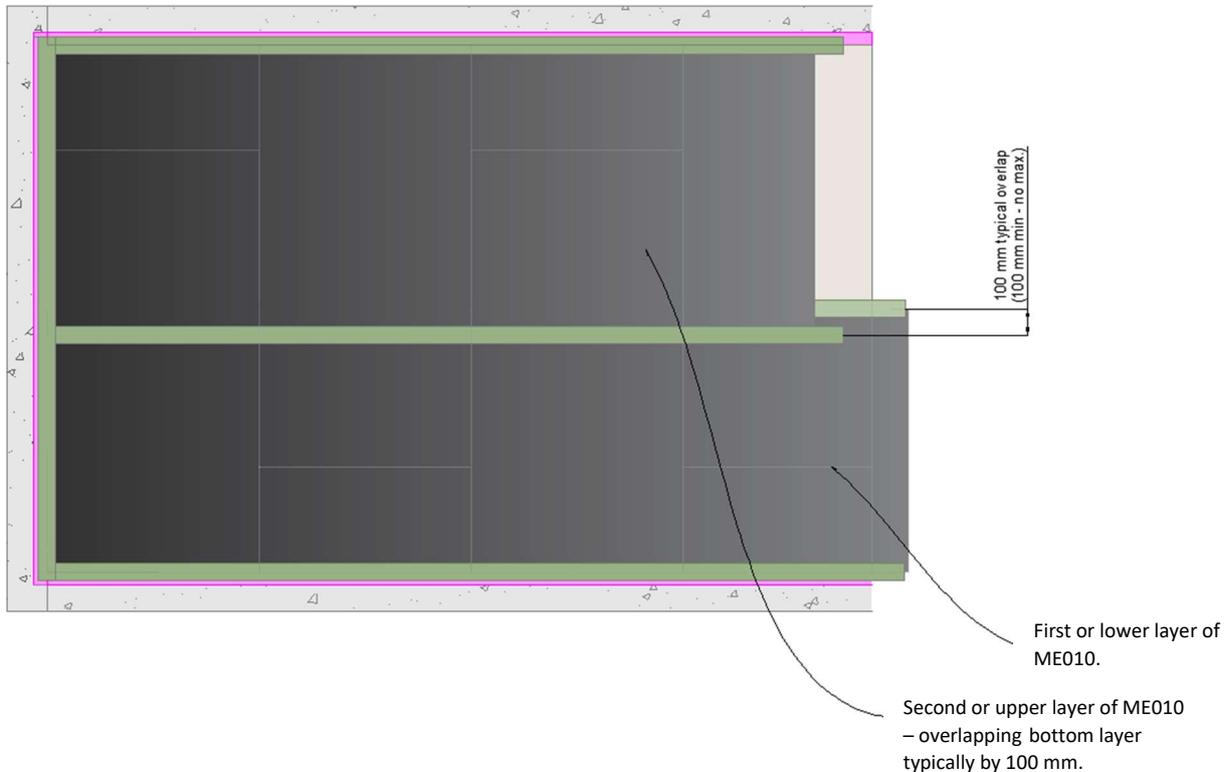
ME315 Total Protection Tape.

When reaching the end of a run, check the ME010 membrane is level and temporarily secured. Apply 100 mm wide illbruck ME315 Total Protection Tape to the top and bottom edge seams of the ME010 breather membrane.

Apply the ME315 Total Protection Tape as a 50/50 lap ensuring it is smooth and free from any wrinkling or bubbling. The ME315 is installed smoothed using the palm of a hand prior to consolidating the bond with a stout seam roller once both runs are complete.

Please note: ME315 Total Protection Tape will not bond to frozen surfaces.

Step 4:



Start to install the second or upper layer by placing the loose bottom corner of the ME010 membrane 100 mm below the upper seam of the bottom run now covered with the ME315 Total Protection Tape. As before, secure the end with a few pieces of low tack masking tape.

Note: Typical overlap is 100 mm – minimum is 100 mm for horizontal overlaps, there is no maximum.

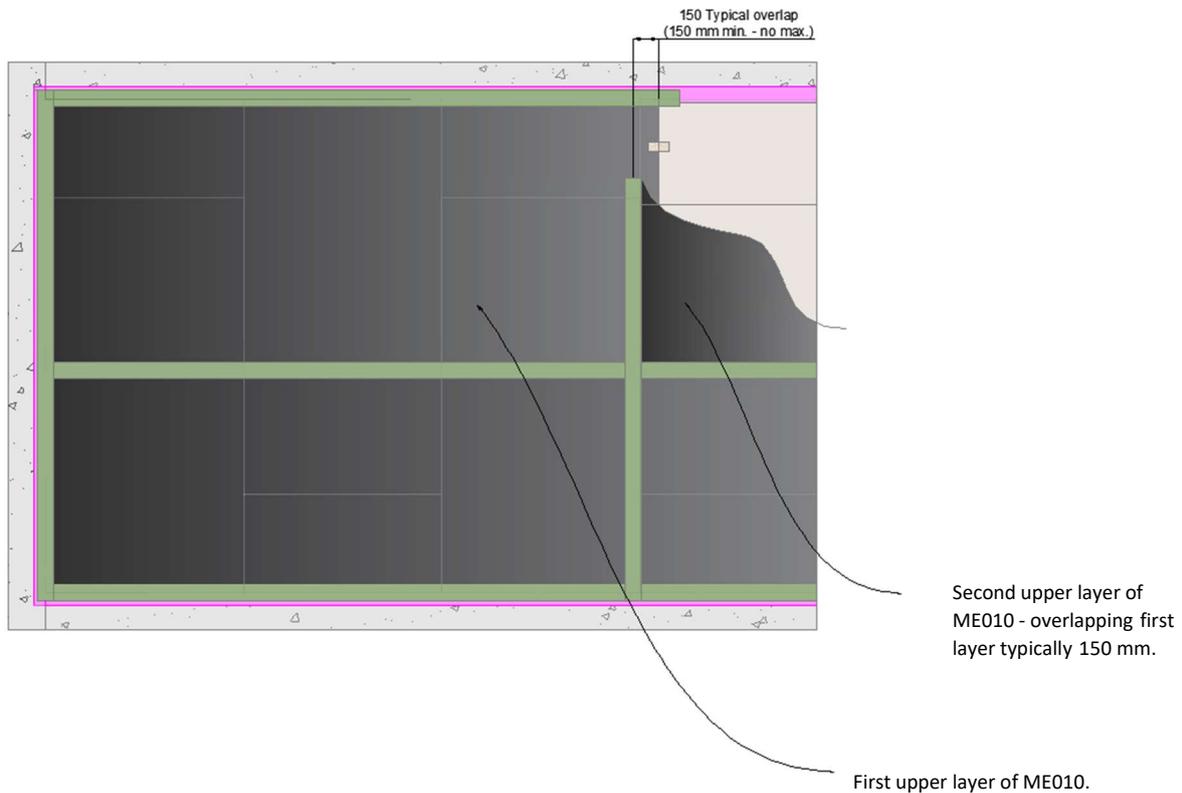
Begin to unfurl the ME010 membrane taking care that it is plumb and in the horizontal plane to maintain the required 100 mm overlap with the bottom layer. Secure with a few pieces of low tack masking tape until the full run is completed.

Once the ME010 membrane has been temporarily secured apply the ME315 Total Protection Tape to the top and bottom seams ensuring that the tape is applied wrinkle and bubble free and overlapping 50/50 with the lower layer. When the top of the lift is reached the tape should be overlapped with the previously applied ME010 perimeter seal at the head of the installation.

Ensure that the ME315 Total Protection Tape is applied to all vertical and horizontal seams such as against columns etc.

Consolidate all bonded seams by applying pressure with a stout seam roller.

Step 4 cont...



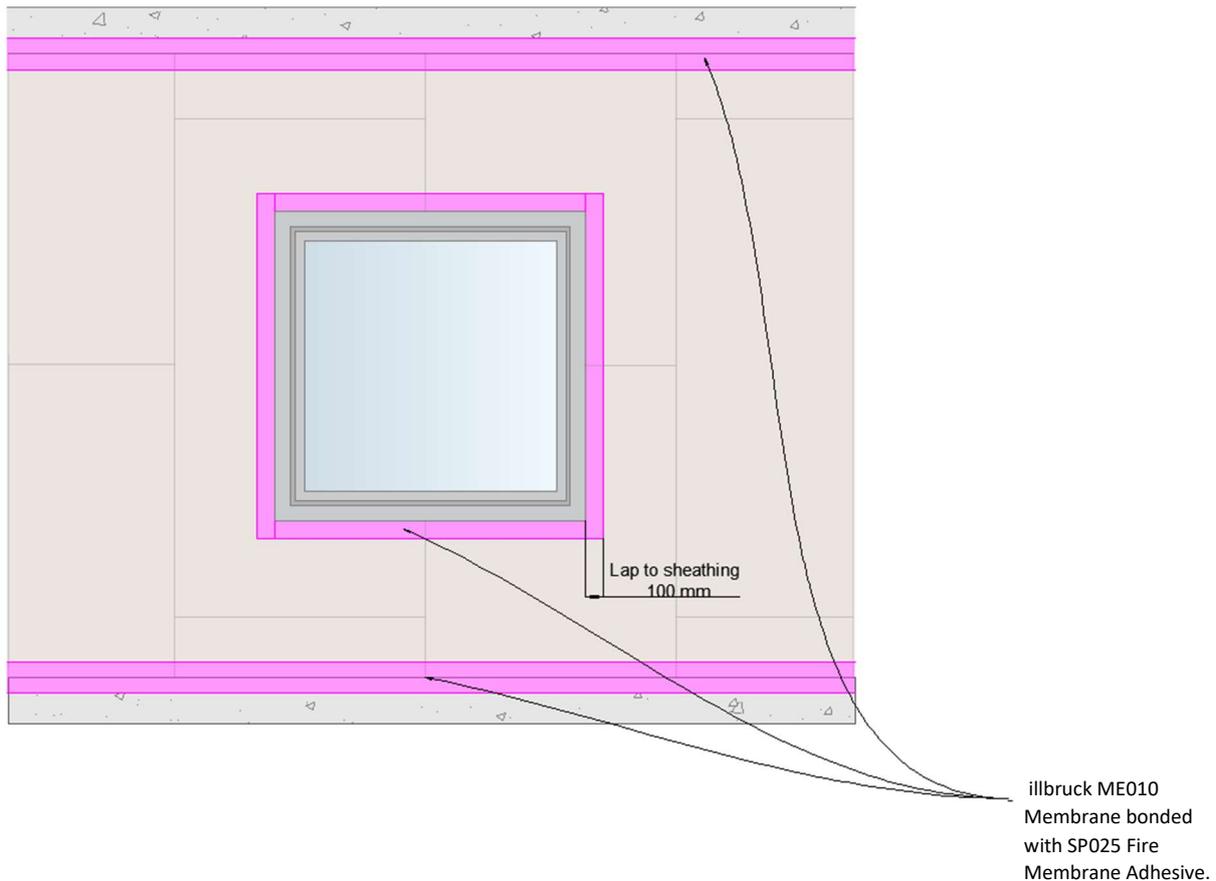
It may be necessary to make a vertical joining seam because:

- You have reached a corner and will need to 'back wrap' in the direction of where you are already working.
- You have reached a corner on an adjacent elevation working in the opposite direction and need to back wrap on to the next elevation or an elevation already covered in ME010 membrane.
- Or you are working towards or away from an opening such as a door or punched hole window.

The same procedure applies as outlined previously for a horizontal overlap, (except the minimum overlap for *vertical* installation should be 150 mm, not 100 mm) – ensure there is a 150 mm lap either directly on to the substrate or on to the already installed ME010.

Installation around openings.

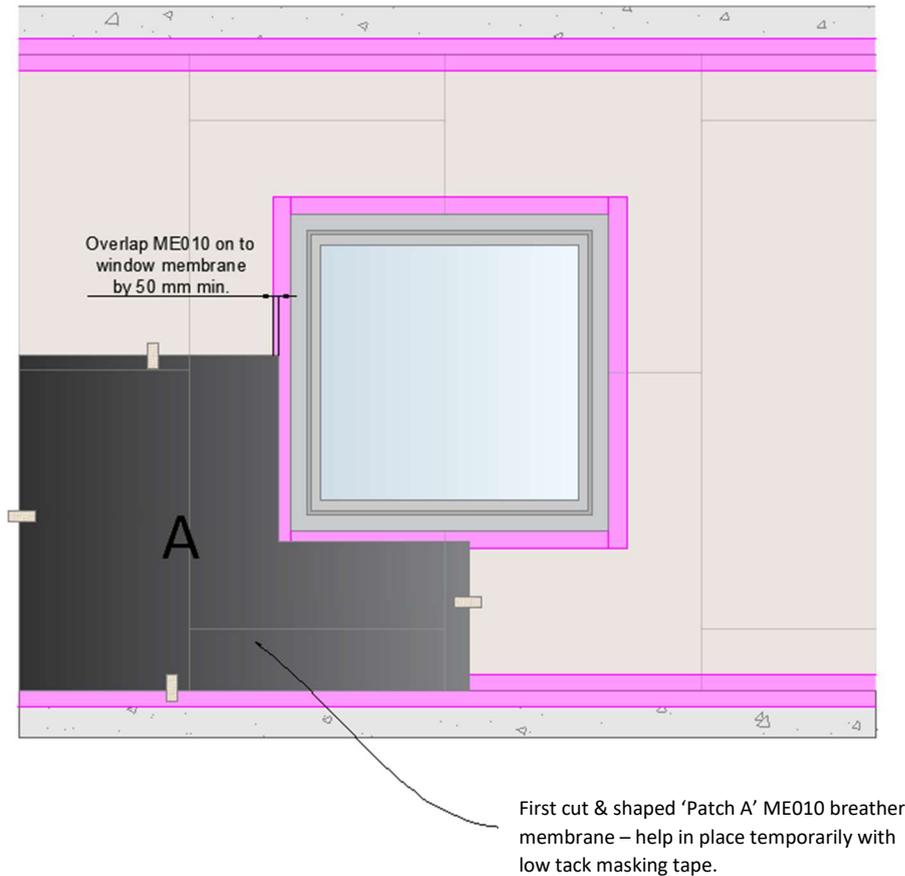
Step 5:



Ensure that the head and foot and if required the vertical joints of the sheathing board (column abutments) have been sealed with ME010 membrane, bonded with SP025 fire membrane adhesive in strict accordance with the illbruck method statement as mentioned previously.

Also, ensure that ME010 membrane has been applied around the full perimeter of any window or door openings in strict accordance with the illbruck method statement which includes any silicone sealant overspill being primed with two thin coats of AT140 primer. The membrane width should allow a typical 100 mm overlap on to the sheathing board.

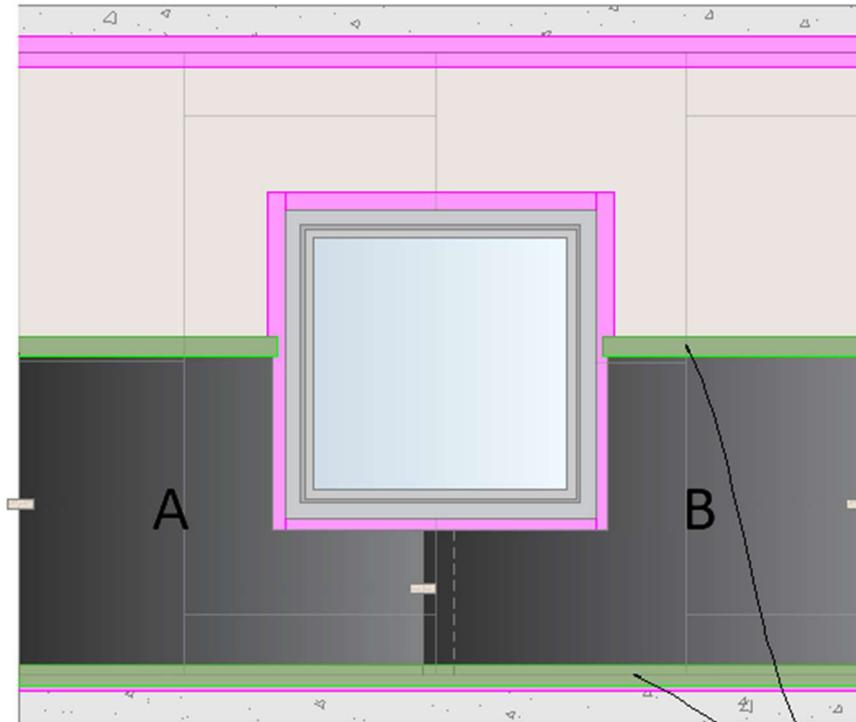
Step 6:



Measure and cut your first patch of ME010 breather membrane. The ME010 membrane will need to overlap the pre-installed ME010 membrane around window perimeter by a minimum of 50 mm and at sheathing board and slab junctions by 100 mm.

Align the patch and temporarily secure with low tack masking tape. If you are joining a run, remember to overlap the previous section with a 150 mm vertical lap.

Step 8:

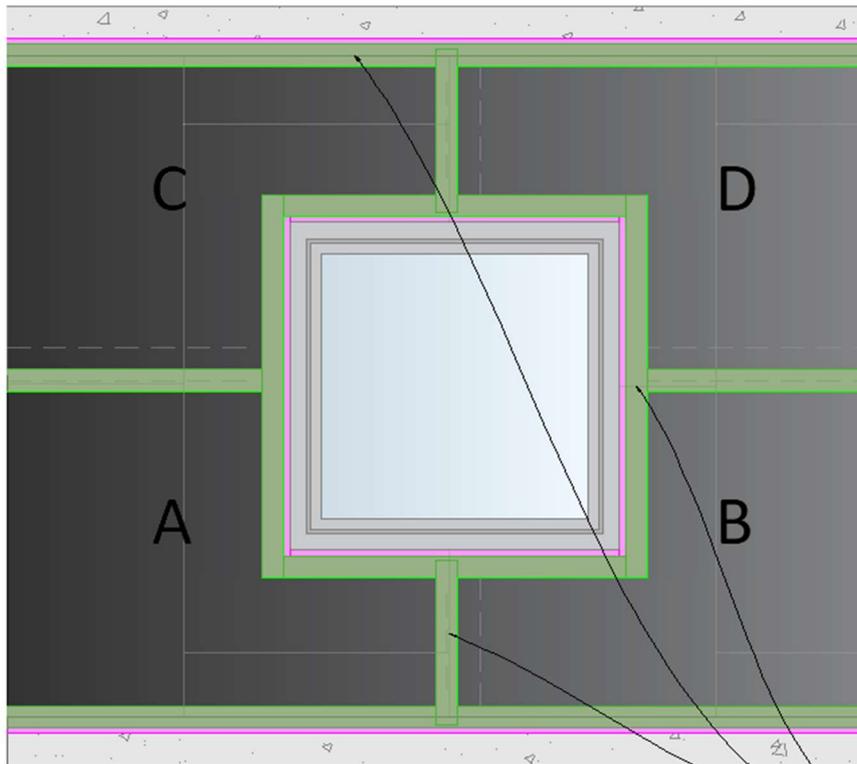


ME315 Total Protection
Tape installed with a 50/50
lap with ME010 membrane.

Now apply 100 mm wide ME315 Total Protection Tape to the horizontal parallel edge seams overlapping 50/50 with the ME010 and sheathing board in the upper seam and 50/50 with the ME010 perimeter membrane at the bottom seam.

Note: Apply two thin coats of AT140 primer first to any over spilled silicone in the path of the self-adhesive ME315 Total Protection Tape.

Step 9:



Close all open seams and remaining perimeters with ME315 Total Protection Tape installed with a 50/50 lap with ME010.

Now measure and cut patches 'C' and 'D' overlapping the top seam of patches 'A' and 'B' by 100 mm and ensure there is a vertical overlap of 150 mm between 'C' and 'D'.

Temporarily secure patches 'C' and 'D' with low tack masking tape. Check all the overlaps are correct including the overlap with the ME010 at the head of the boards and around the window or door perimeter.

Finally close all the open horizontal and vertical seams with 100 mm wide ME315 Total Protection Tape. Consolidate all self-adhesive bonds by applying pressure with a seam roller. Tapes should be applied wrinkle and bubble free.

Your installation is now complete.