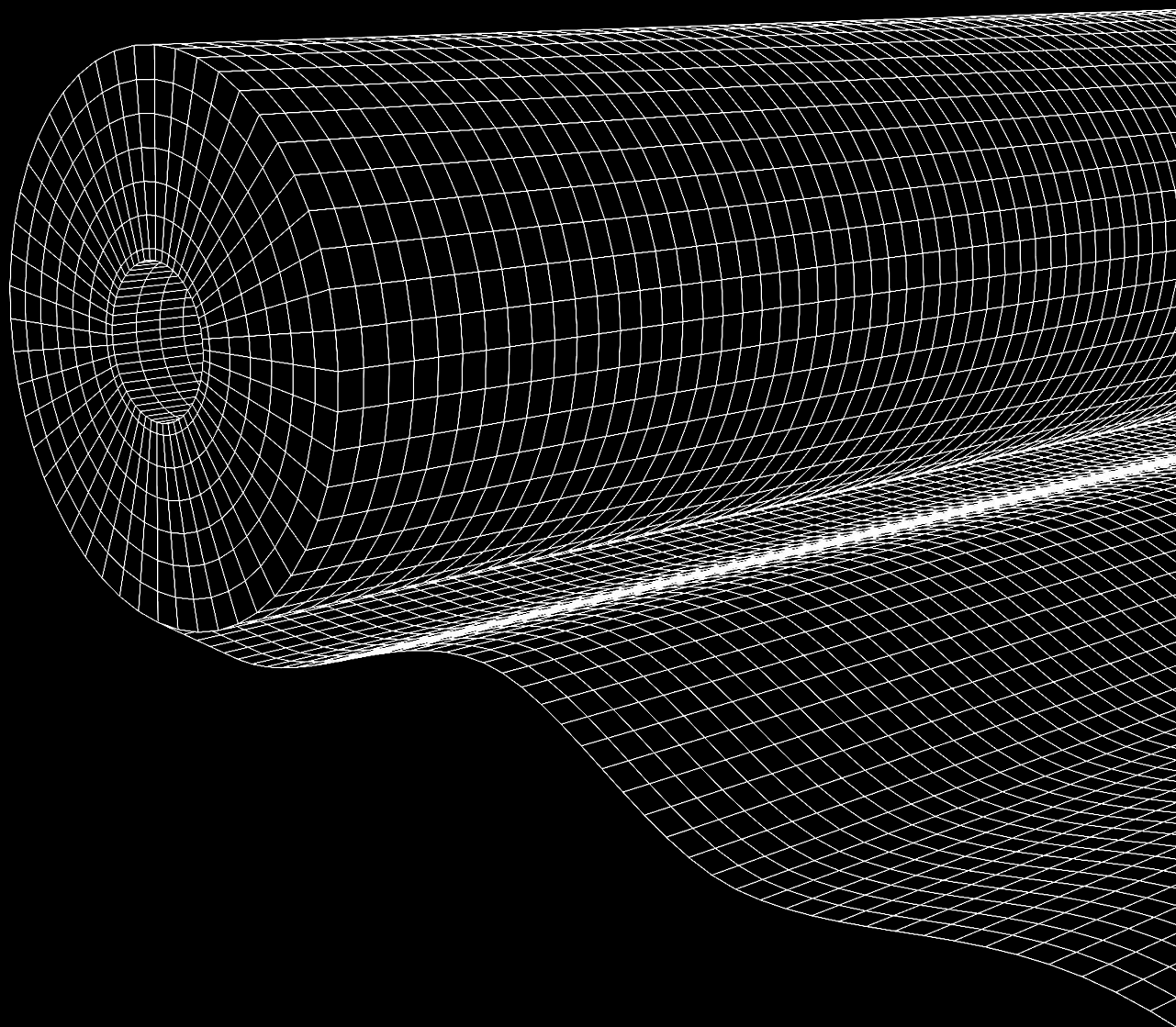


 INSTALLATION GUIDE

OBEX  **CORTEX[®]FR**

9021FR **Breathable Membrane**

Install Guide – Metal Frame



 **OBEX[®]**

Contents

Metal Frame - Standard Installation	04
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Important Notes

- » Please ensure a minimum overlap of 150mm between sections of the OBEX CORTEX Breathable Membranes. The overlap can reduce to 100mm when 0823FR UV facade tape is used.
- » Ensure that all exposed edges of the OBEX CORTEX Breathable Membrane are thoroughly sealed using Obex Cortex 0823FR UV facade tape for optimal protection and performance.

This installation guide has been created to provide installation best practice and guidance for installers. It is not a mandatory guide, and we recommend that installers familiarise themselves with the NCC for their region and ensure their installation meets the NCC requirements.



OBEX  **CORTEX^{4FR}**

9021FR
3-Layer Breathable Membrane



OBEX  **CORTEX^{4FR}**

0823FR
UV Façade Tape



OBEX  **CORTEX^{4FR}**

0828FR
Sealing Patches



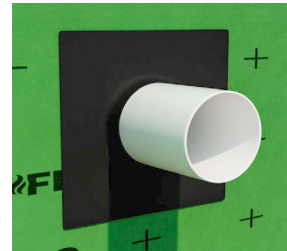
OBEX  **CORTEX^{4FR}**

0824FR
Double-Sided Tape



OBEX  **CORTEX^{4FR}**

0827FR
Double-Sided Self Sealing Tape



OBEX  **CORTEX^{4FR}**

0860
EPDM Sleeve



OBEX  **CORTEX^{4FR}**

0769
Paste Adhesive



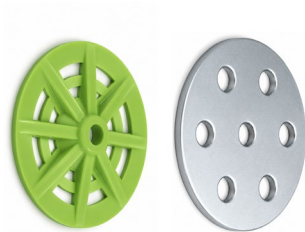
OBEX  **CORTEX^{4FR}**

0826
Tape Press Applicator



OBEX  **CORTEX^{4FR}**

0813
Paste Gun



0829 / 0821FR
Plastic or Metal Fixing Washers



0822FR
Metal Pins and Fixing Washers



Staple Gun and Staples

Metal Frame - Standard Installation - Double Sided Tape

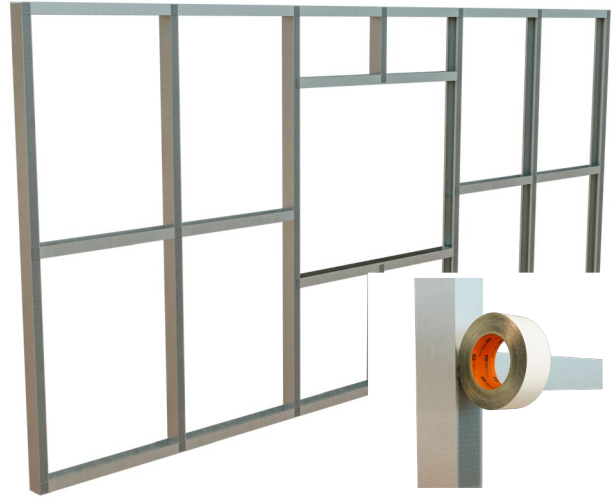
(Recommended Airtight Method)



1

Metal Framing Preparation

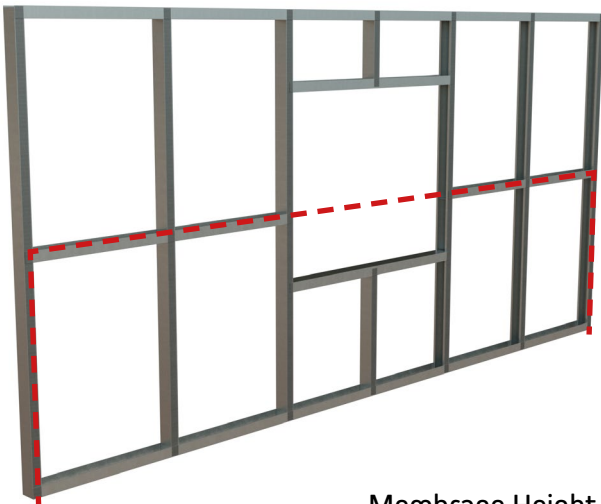
Before installing the Membrane, carefully remove any sharp edges or burrs to prevent potential damage to the membrane during installation and ensure the surface is clean and free from any contaminants.



2

Apply Double Sided Tape

Apply OBEX CORTEX 0824FR Double Sided Tape to all external faces of the metal framing. Press firmly onto the framing to ensure a good bond.

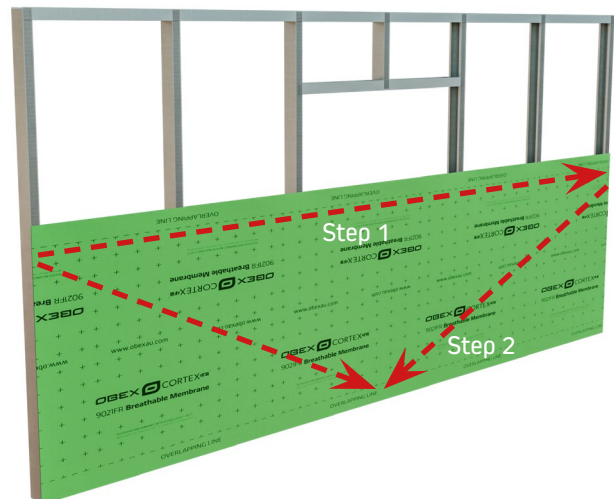


-- Membrane Height

3

Membrane Installation Setting Out

From the bottom of the framing, measure and mark the exact height corresponding to the width of the membrane. This will indicate where the top of the first layer of the Membrane should be installed.



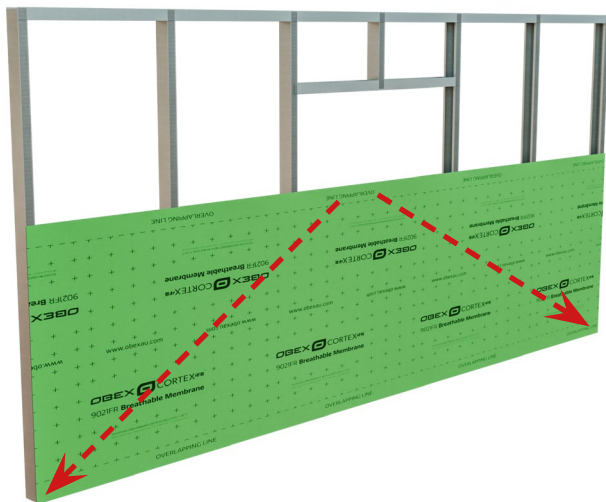
4

Securing The Membrane

First, remove the tape's release liner from the area designated for the initial Membrane layer.

Align with the marked line and pull taut and affix the top edge securely.

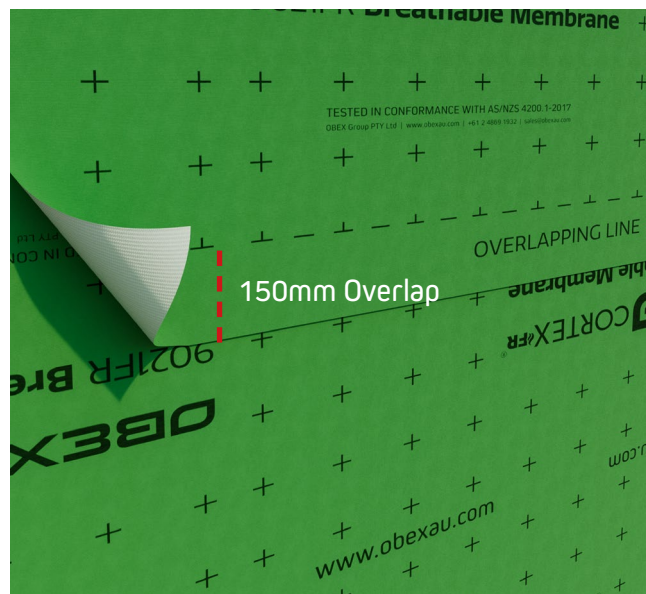
Then, pull and fix the bottom centre edge, followed by securing both bottom corners tautly.



5

Pull taught and fix

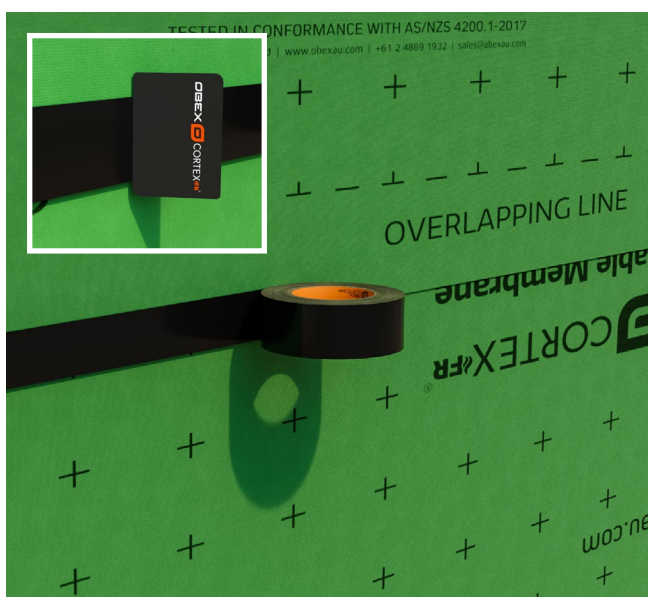
Finally, pull down across the entire Membrane section to ensure firm adhesion to the Obex Cortex 0824FR Double Sided Tape.



6

Installing Additional Membrane Layers

Continue installing the Membrane layers above the first, using the same steps. Ensure each new layer overlaps the one beneath by 150mm - This overlap is key for seamless coverage and optimal performance of the membrane system.



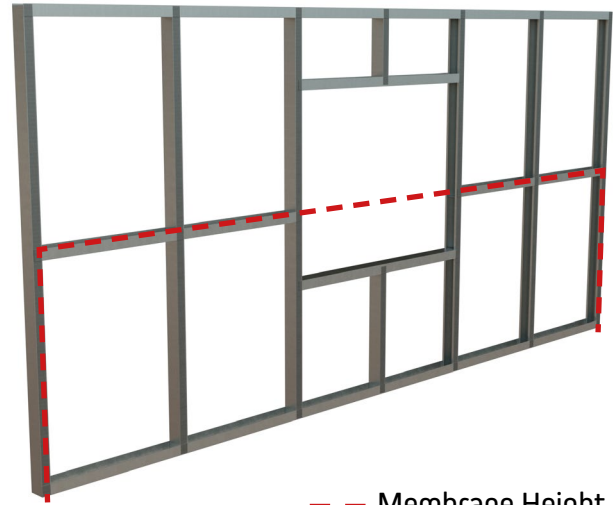
7

Overlap Edge Sealing

Use Obex Cortex 0823FR UV Facade Tape to seal all horizontal overlaps of the Membrane. Ensure to apply firm pressure for secure and effective adhesion. For ease of application an OBEX Tape Press Applicator is available.

Metal Frame - Standard Installation - Fixing Washers

(Mechanical Fixing Method)



-- Membrane Height

1

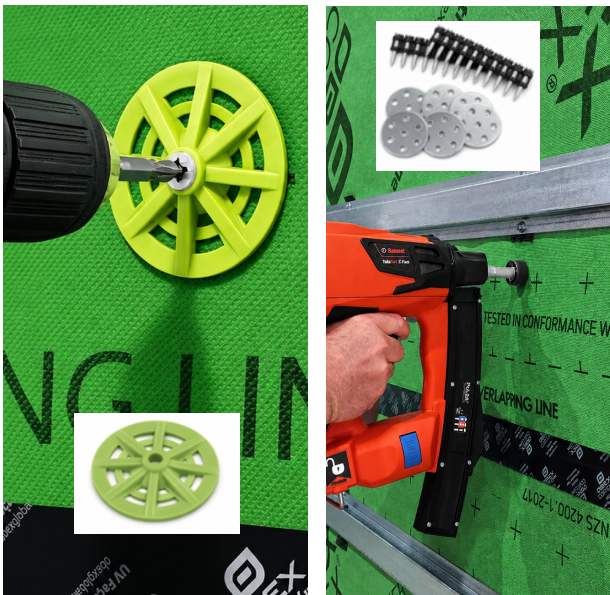
Metal Framing Preparation

Before installing the Membrane, carefully remove any sharp edges or burrs to prevent potential damage to the membrane during installation and ensure the surface is clean and free from any contaminants.

2

Membrane Installation Setting Out

From the bottom of the framing, measure and mark the exact height corresponding to the width of the membrane. This will indicate where the top of the Membrane should be installed.



3

Plastic or Metal Fixing Washers

Using the 0829 Plastic Washer or the 0822FR Metal washer and nail gun. Fix the Washer through the membrane into the studwork as per the proceeding steps, fixings should be max 600mm centers

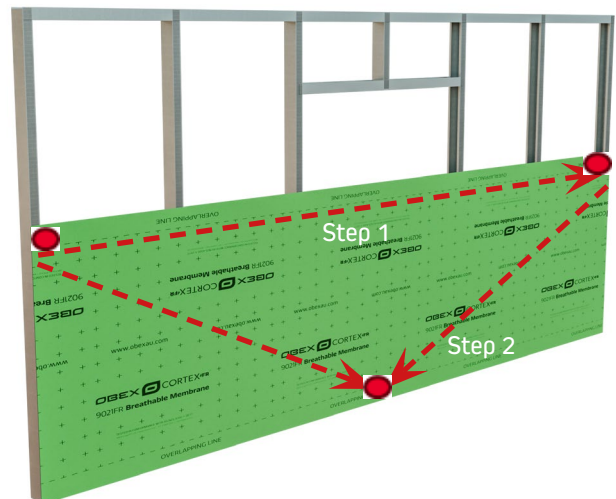
4

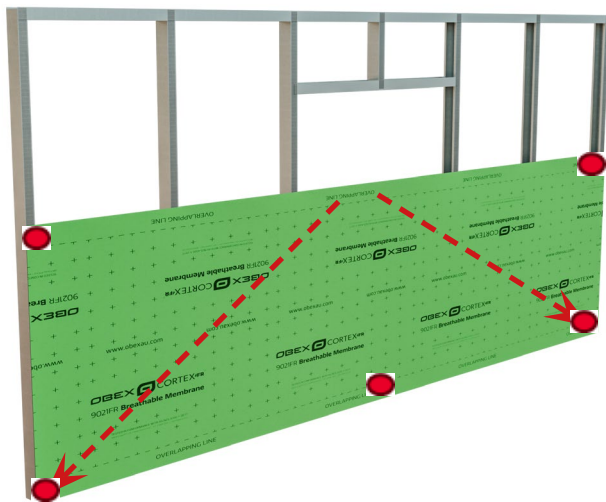
Securing The Membrane

First, remove the tape's release liner from the area designated for the initial Membrane layer.

Align with the marked line and pull taut and affix the top edge securely.

Then, pull and fix the bottom centre edge, followed by securing both bottom corners tautly.

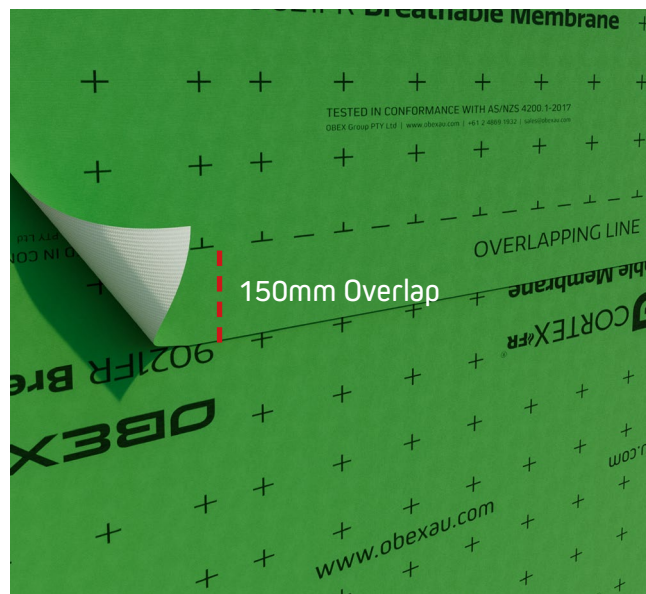




5

Pull taut and fix

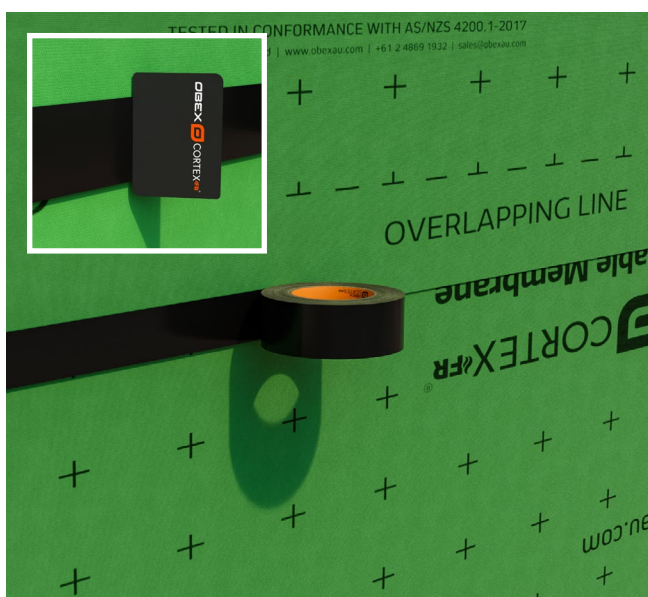
Finally, pull down across the entire Membrane section to ensure firm adhesion to the Obex Cortex 0824FR Double Sided Tape.



6

Installing Additional Membrane Layers

Continue installing the Membrane layers above the first, using the same steps. Ensure each new layer overlaps the one beneath by 150mm - This overlap is key for seamless coverage and optimal performance of the membrane system.

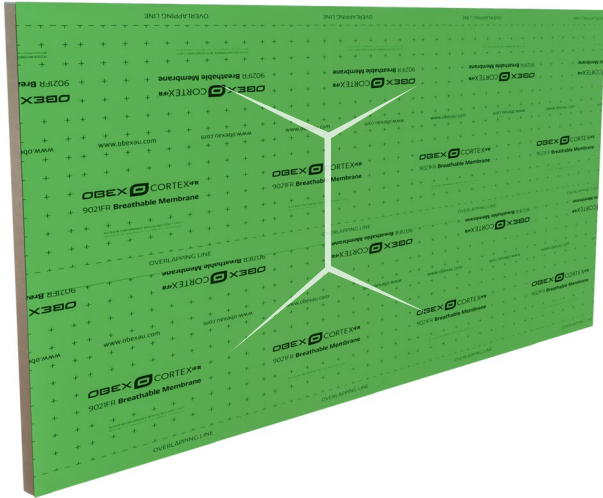


7

Overlap Edge Sealing

Use Obex Cortex 0823FR UV Facade Tape to seal all horizontal overlaps of the Membrane. Ensure to apply firm pressure for secure and effective adhesion. For ease of application an OBEX Tape Press Applicator is available.

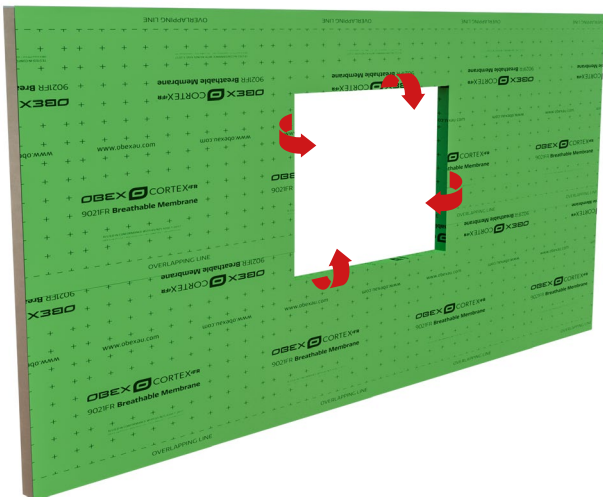
Metal Frame - Window Reveal Dressing



1

Window Reveal Dressing

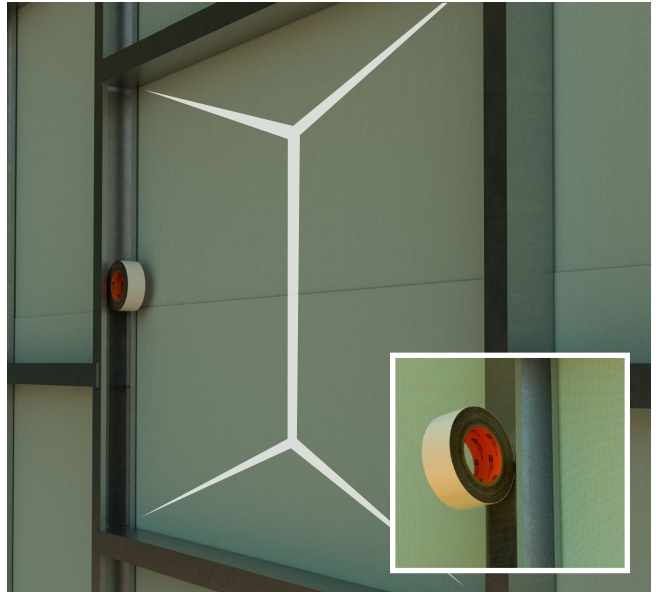
Cut the Membrane from the centre of the window area out towards each of the four corners. This will create four flaps that can be neatly folded back into the window reveal.



3

Lining The Reveal

Fold the Membrane flaps into the reveal, firmly pressing them onto the Double-Sided Tape. Trim any excess membrane to align with the back edge of the metal framing for a neat finish.



2

Apply Double Sided Tape To Reveals

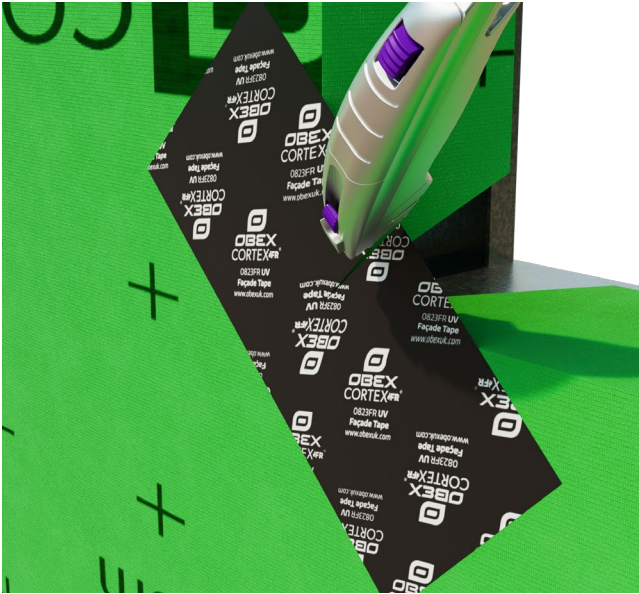
Attach OBEX CORTEX 0824FR Double Sided Tape along the rear edge of all four sides of the window reveal, and on the back of the stud, then carefully remove the release liner. Ensure the surfaces are clean prior to tape application.



4

Window Corner Sealing

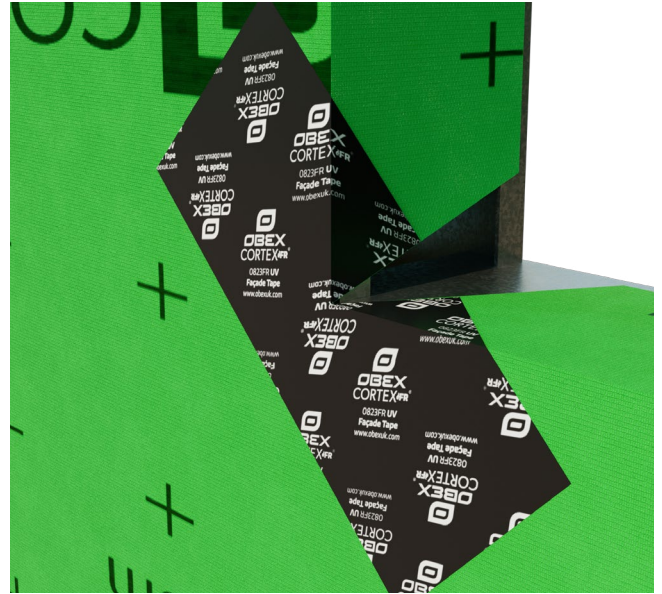
Cut a strip of Obex Cortex 0823FR UV Facade tape 200mm x 100mm and adhere to the corner at 45 degrees.



5

Window Corner Sealing

Cut a slit in the middle down to the corner of the window reveal.



6

Window Corner Sealing

Fold the tape into the reveal and adhere to the windows.



7

Window Corner Sealing

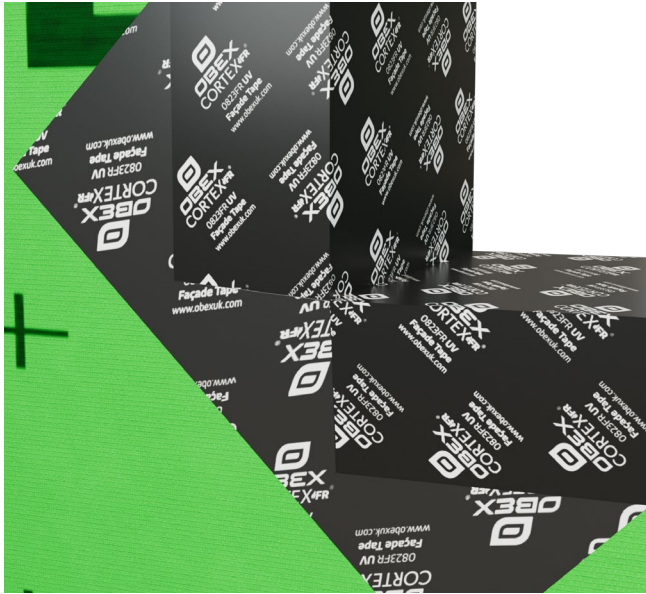
Next apply another section of 0823FR 300mm x 200mm. Centre the tape on the corner with 150mm going up the frame and 150mm along the base, with 50mm overhanging the external and internal face. Use an Obex Cortex 0826 Tape Press Applicator with firm pressure to ensure strong adhesion.



8

Window Corner Sealing

Cut the tape from the edge of the frame to separate to separate the overhanging vertical and horizontal edges.



9

Window Corner Sealing

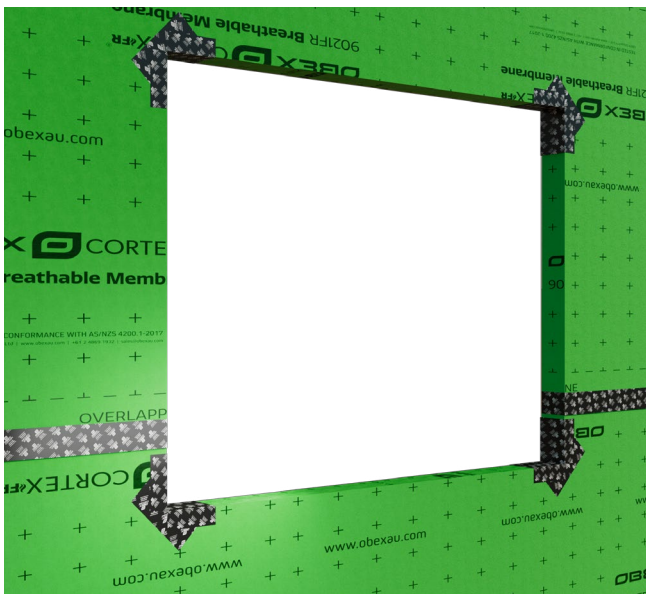
With firm pressure adhere the tape back to the front of the facade.



10

Window Corner Sealing

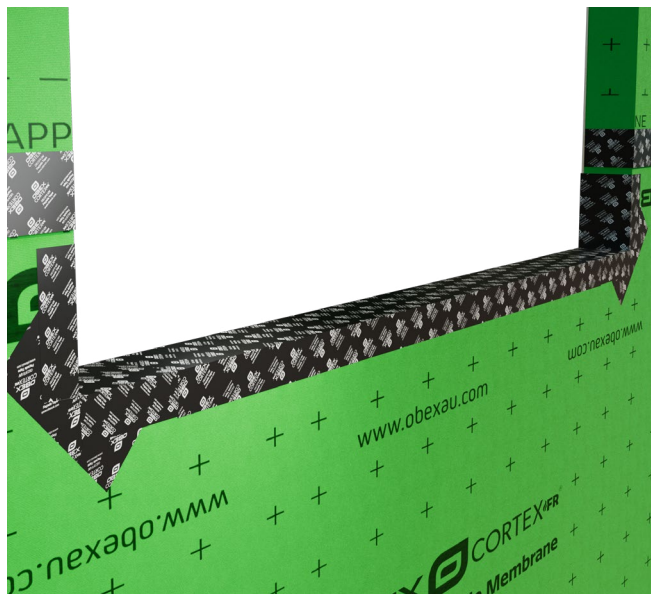
Repeat the previous two steps for the internal face, adhering the membrane to the studs.



11

Window Corner Sealing

Repeat for all corners of the window reveal.



12

Window Corner Sealing

Lastly apply a 200mm wide strip of 0823FR to the sill, overlapping onto the external and internal face by 50mm.

Metal Frame - Internal Corner Installation



1

Internal Corner Layout

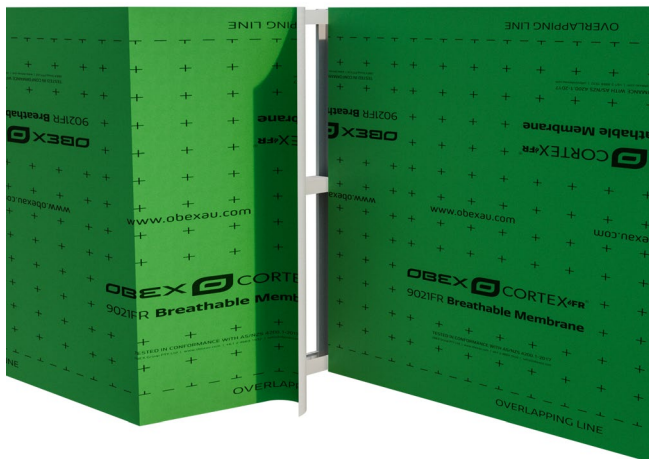
For internal corners, the membrane should be installed in two separate sections. This approach prevents the creation of a radius in the corner and reduces the risk of accidental penetrations.

2

Applying The Membrane To Each Face

First, align the membrane tightly into the corner and extend it outwards along the wall. Fix it back to the frame following the methods outlined in the previous instructions.

150mm Overlap



3

Cut The Membrane To Suit

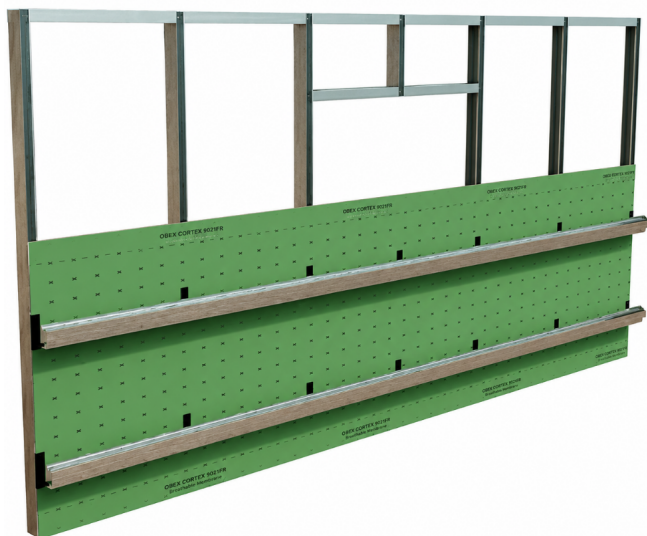
Pull the second section of the membrane into the internal corner and trim it to ensure a 150mm overlap. Securely fix it back to the frame, following the previously described method.

4

Sealing & Taping The Corner

Press the membrane firmly into the corner to prevent any radius formation. Then, bond it back to the first piece of membrane using Double-Sided Tape. Finally, seal the exposed edge with Obex Cortex 0823FR UV facade tape.

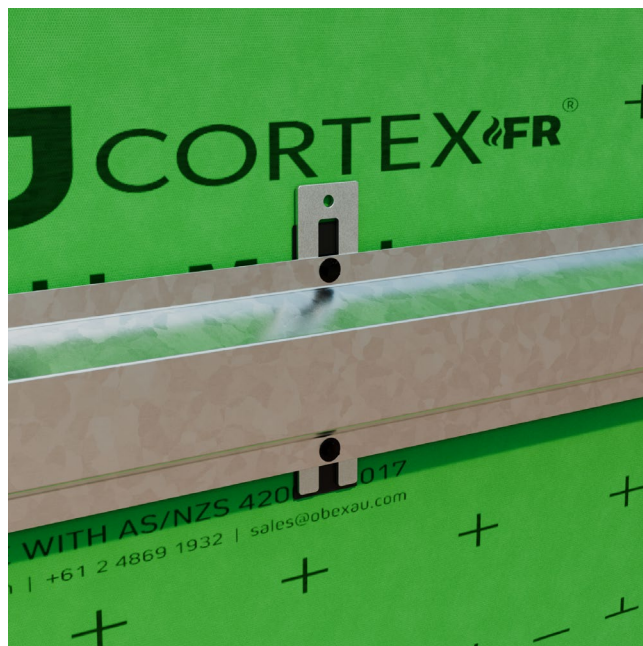
Batten or Tophat Installation Over Membrane



1

Batten installation

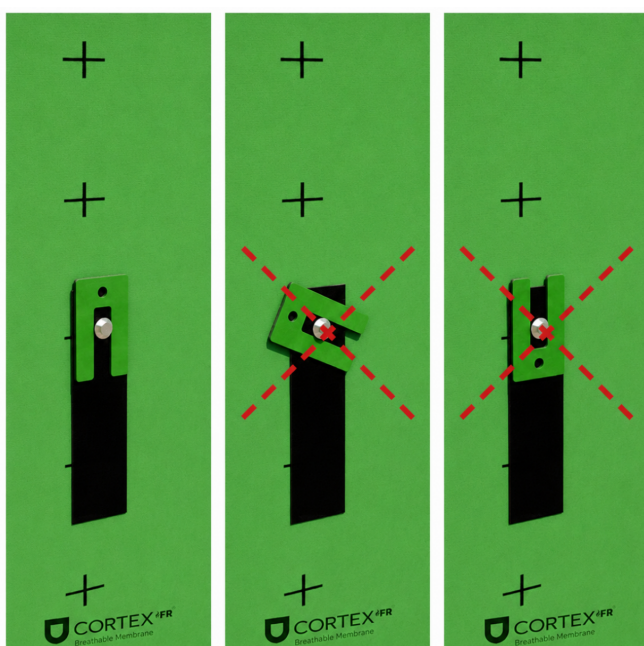
For installations where battens or top hats are installed horizontally over the top of the membrane, some substructure detailing may require the battens / top hats to be packed out to create a drainage plane.



2

Membrane sealing detailing

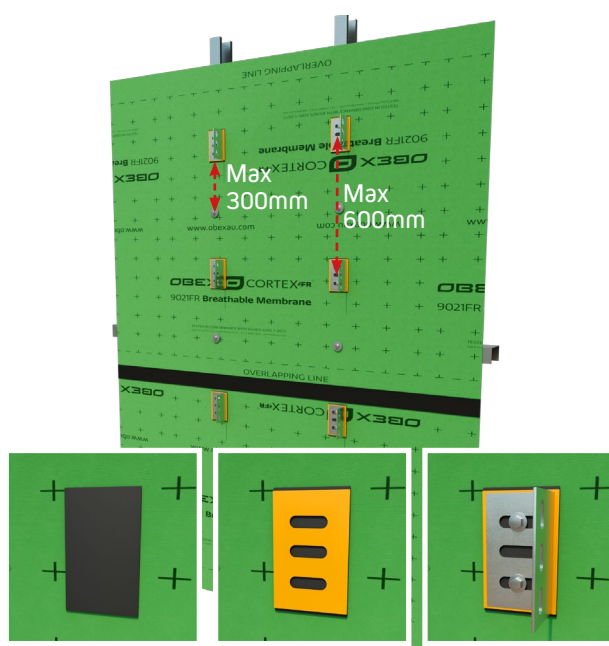
OBEX CORTEX 0827FR Double Sided Self-Sealing Tape must be cut and applied over the membrane where screw fixings will penetrate. The tape must extend 20mm past the packers.



3

Packer orientation

Ensure the packers are orientated such that moisture would be directed away from the fixing.

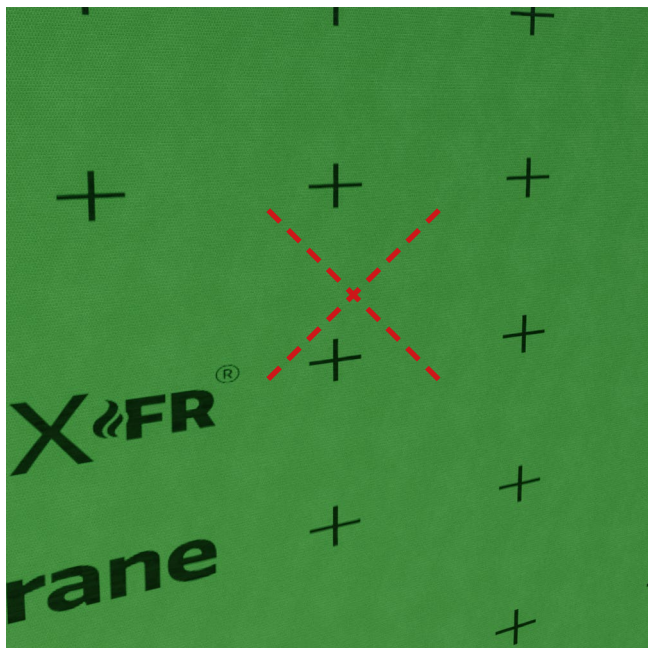


4

Aluminium bracket system

Brackets are evenly spaced onto the stud wall. When spaced greater than 600mm, additional fixings are required at max. 300mm centres. Studs should be spaced at max 600mm centres. Galvanised self drilling screws, 20mm long with 0827FR Double Sided Self-Sealing Tape should be used to fix the bracket system.

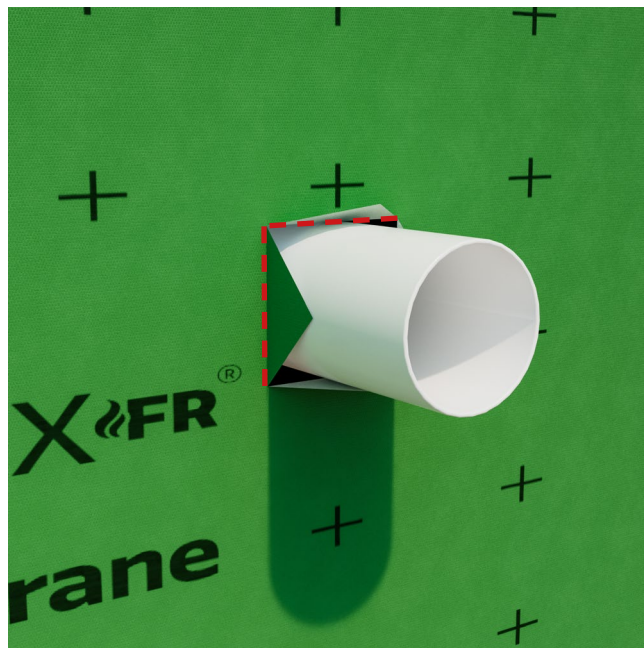
Penetration Sealing



1

Cut For Penetrations

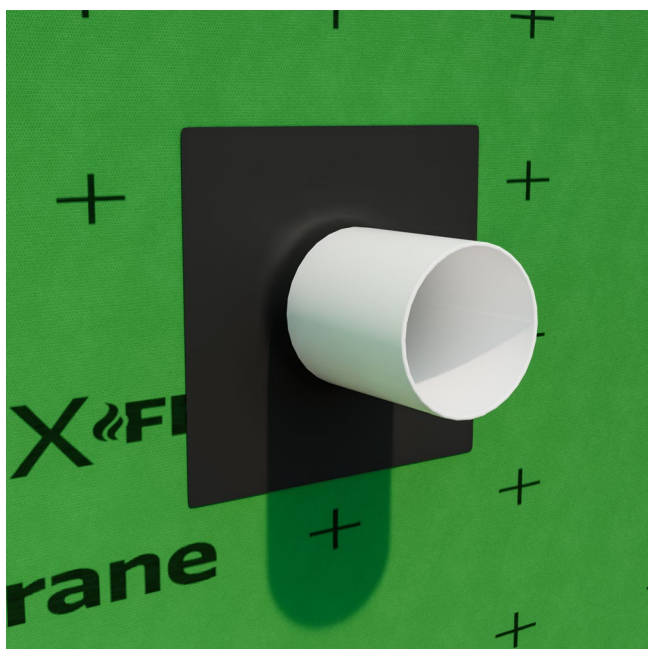
Make two 45-degree slits through the membrane, ensuring they are large enough to accommodate the diameter of the pipe. Be careful not to extend the cuts too far.



2

Push Pipe Through

Insert the pipe through the cuts in the membrane, and then trim away any excess material to aid the installation of the EPDM sealing collar.

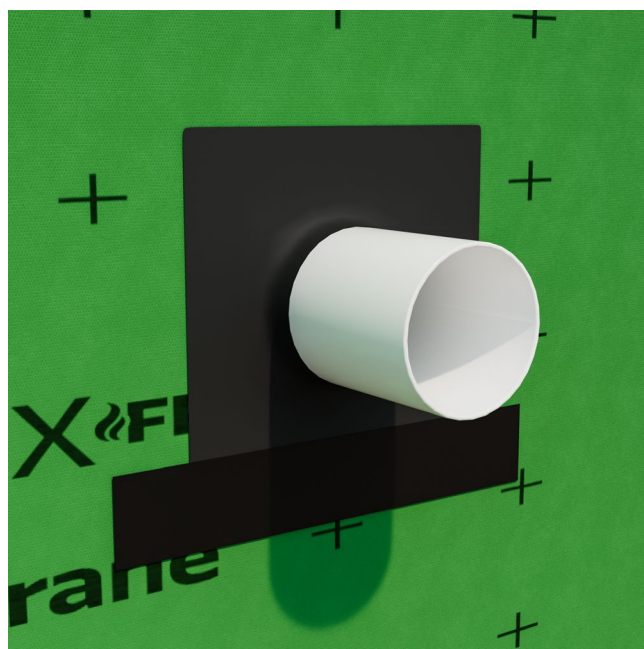


3

Installing The EPDM Sleeve

First, make sure the pipe is clean. Then, stretch the Obex Cortex EPDM Sleeve* over the pipe ensuring a tight fit. Slide the collar up until it sits snugly against the face of the membrane.

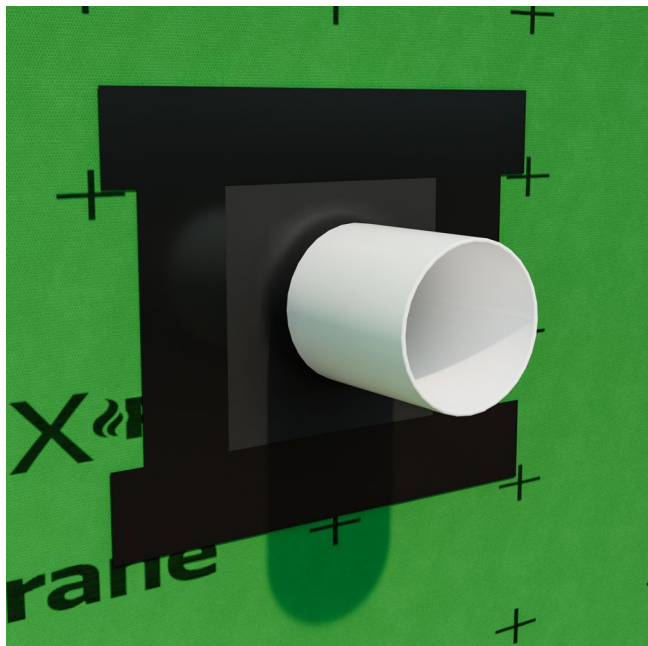
*Bespoke product made to order, can be supplied with a pre-punched hole or blank sleeve/



4

Sealing Collar Edge Sealing

Begin by applying the Obex Cortex 0823FR UV façade tape along the bottom edge of the collar. Ensure that it forms a good bond onto both the Sleeve and the Membrane.

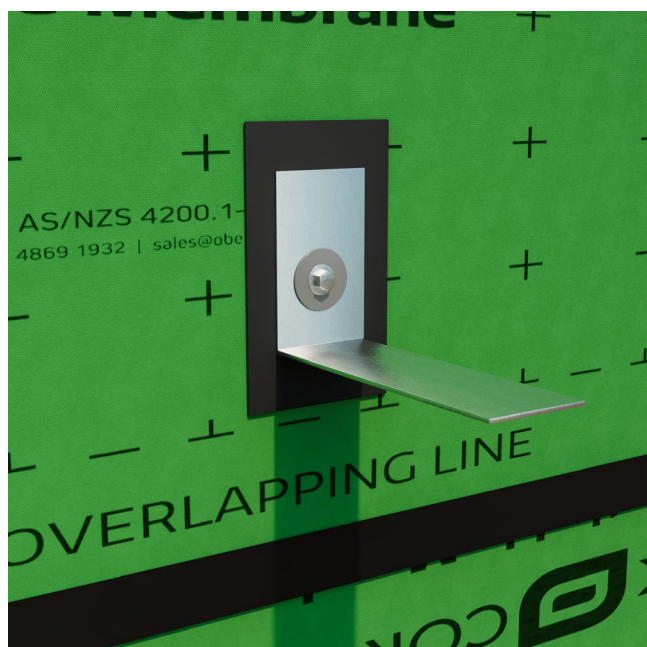


5

Sealing Collar Edge Sealing Cont.

Next, apply the Obex Cortex 0823FR UV facade tape to the left and right edges of the collar. Finish by placing a final piece of tape across the top edge. Following this sequence is important to ensure a good seal.

Attachment Sealing



1

Sealing Other Attachments

For attachments fixed to the studs through the membrane, apply a patch of Obex Cortex 0827FR Double Sided Self-Sealing Tape to the Membrane before screwing in any attachments. The patch should be 50mm x 50mm minimum.

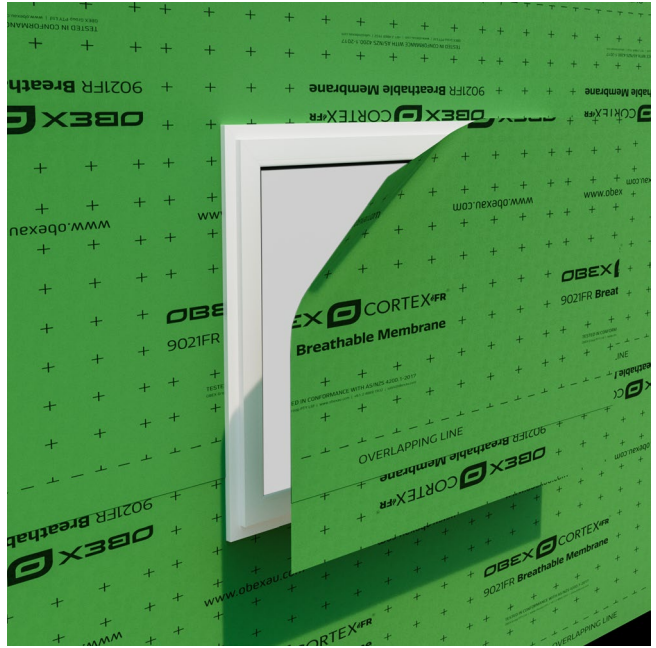
Installation around pre-installed windows



1

Cut around window frame

Cut the membrane around the edge of the window, as close to the frame as possible. Be careful not to cut any underlying EPDM membranes if installed.



2

Remove excess membrane

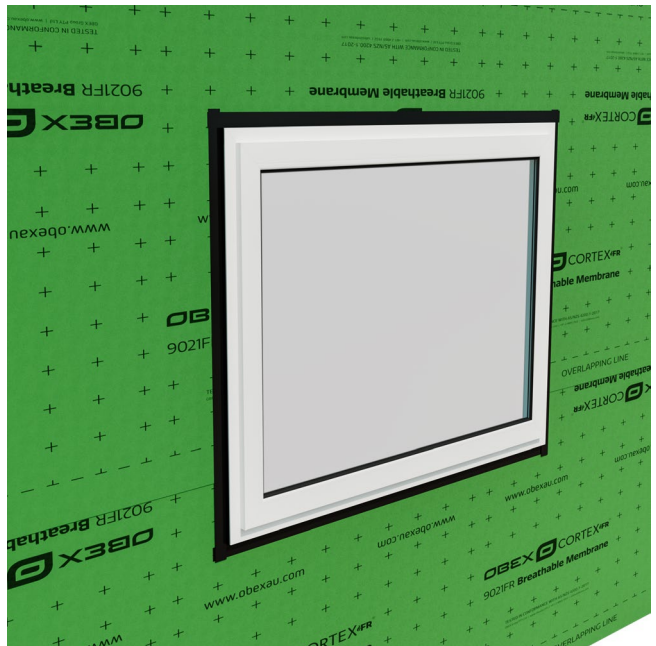
Remove the excess so the breathable membrane fits flush around the window frame.



3

Seal to the frame

Apply OBEX CORTEX jointing tape around the edges of the membrane starting with the base. Ensure a minimum of 20mm bond to the window frame. Add a slit to the end so the tape can overlap the vertical joints as seen.



4

Repeat sides then top.

Repeat step 3 on the sides of the frame and lastly the top, completing the seal around the window. Continue to seal any overlaps or penetrations in the membrane as previously shown in this guide.



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