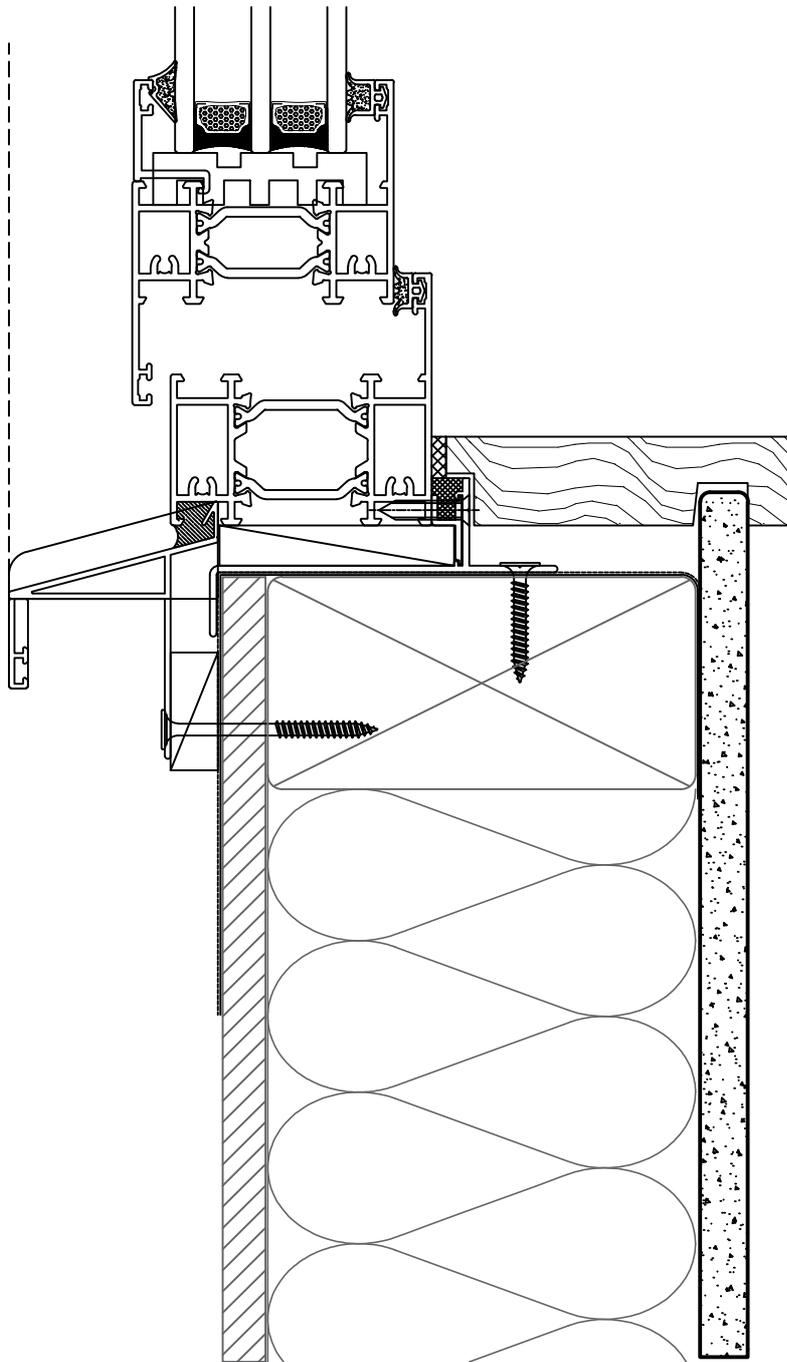


FMI 3 SIDED RECESSED JOINERY THERMAL INSTALLATION METHOD TL45/55 SUITE

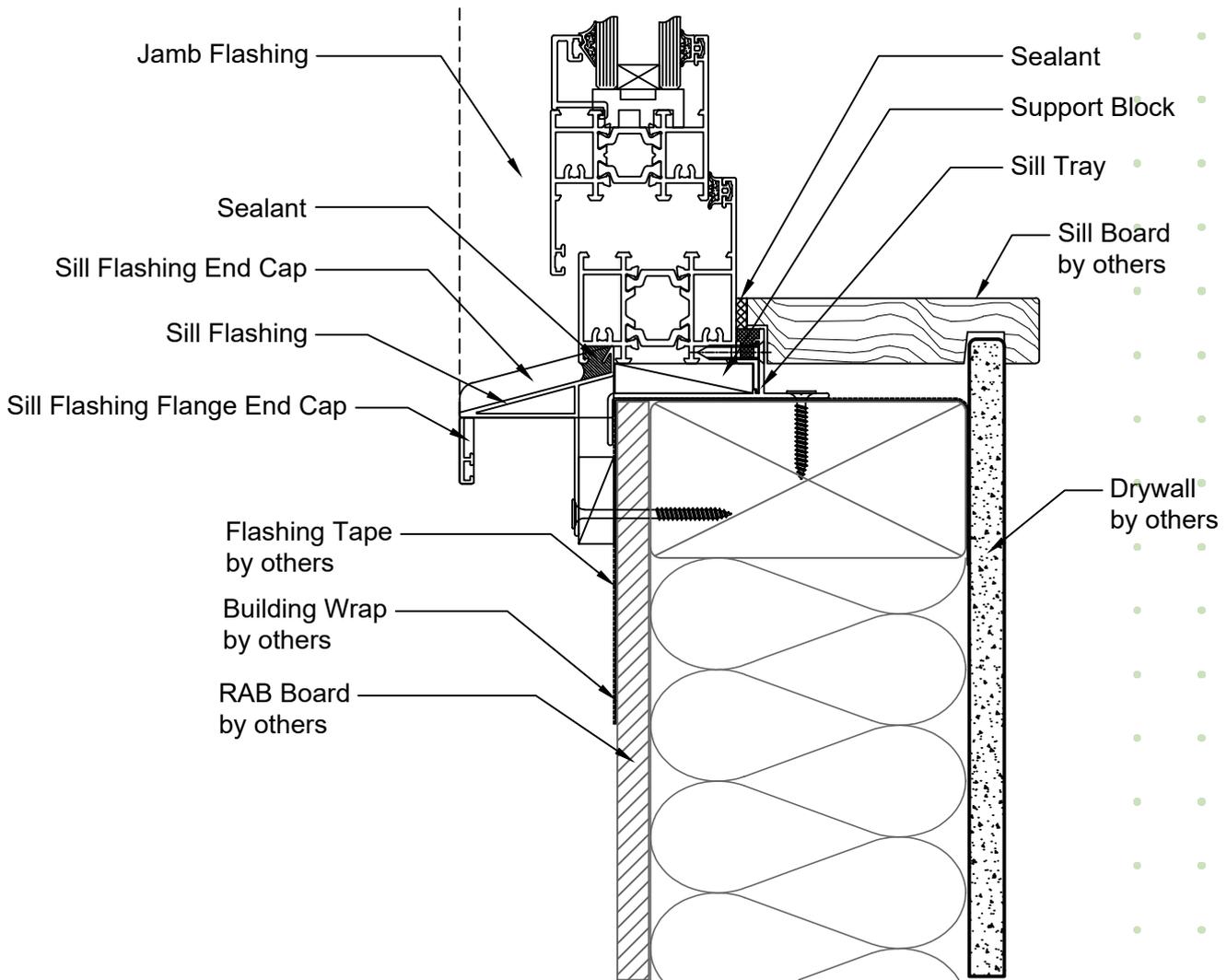




**FMI 3 SIDED RECESSED JOINERY
THERMAL INSTALLATION
METHOD
TL45/55 SUITE**

FMI Building Innovation Three Sided Thermal Installation Method TL45

Cavity details allow window and door units to be fully sealed to the cladding. These details are suitable for cleaning with hose water

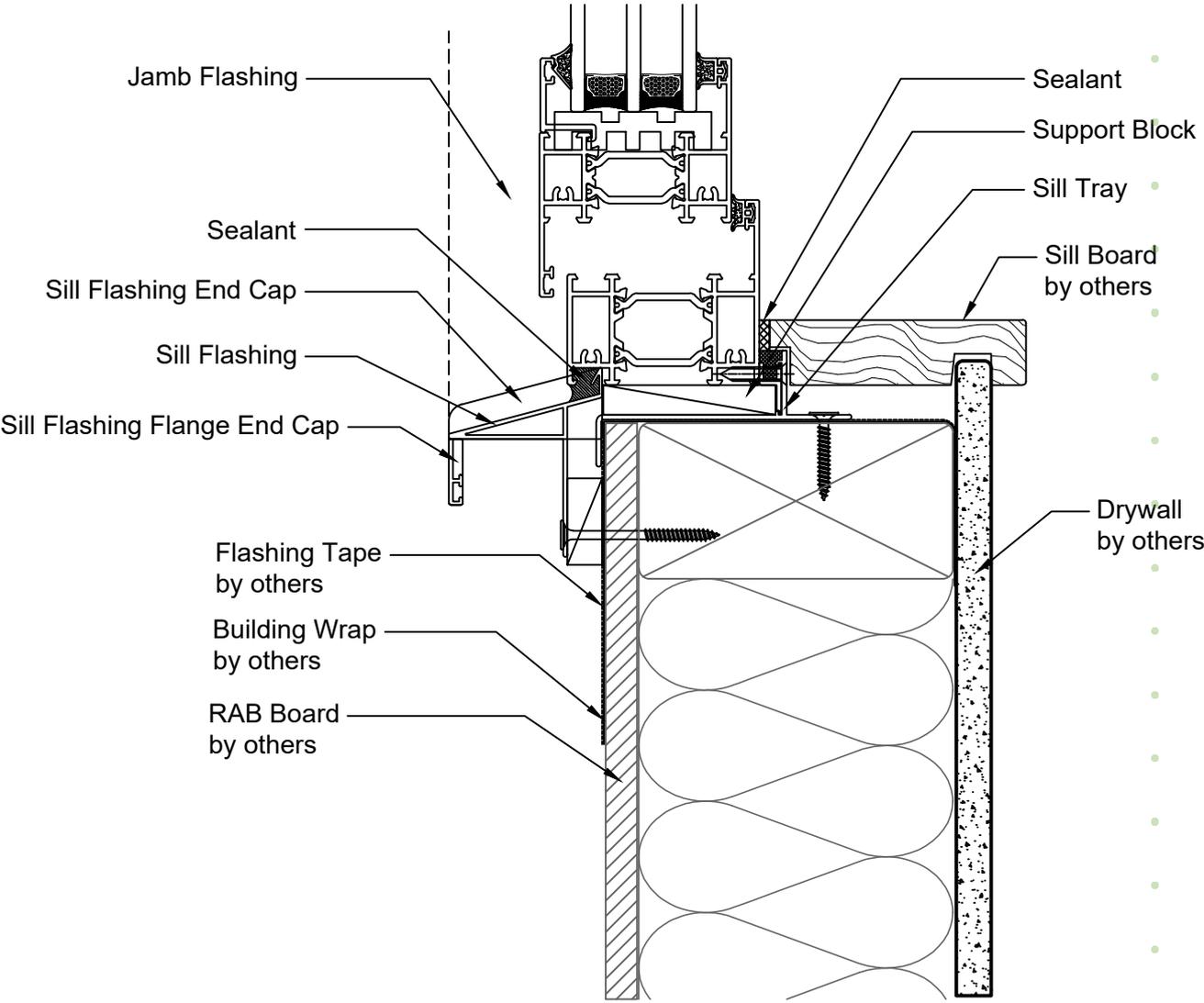


FMI Building Innovation Limited will not accept direct or consequential liability of any kind, howsoever arising, associated with the use, application or modification of the FMI BI described herein or any losses, costs or expenses associated therewith.



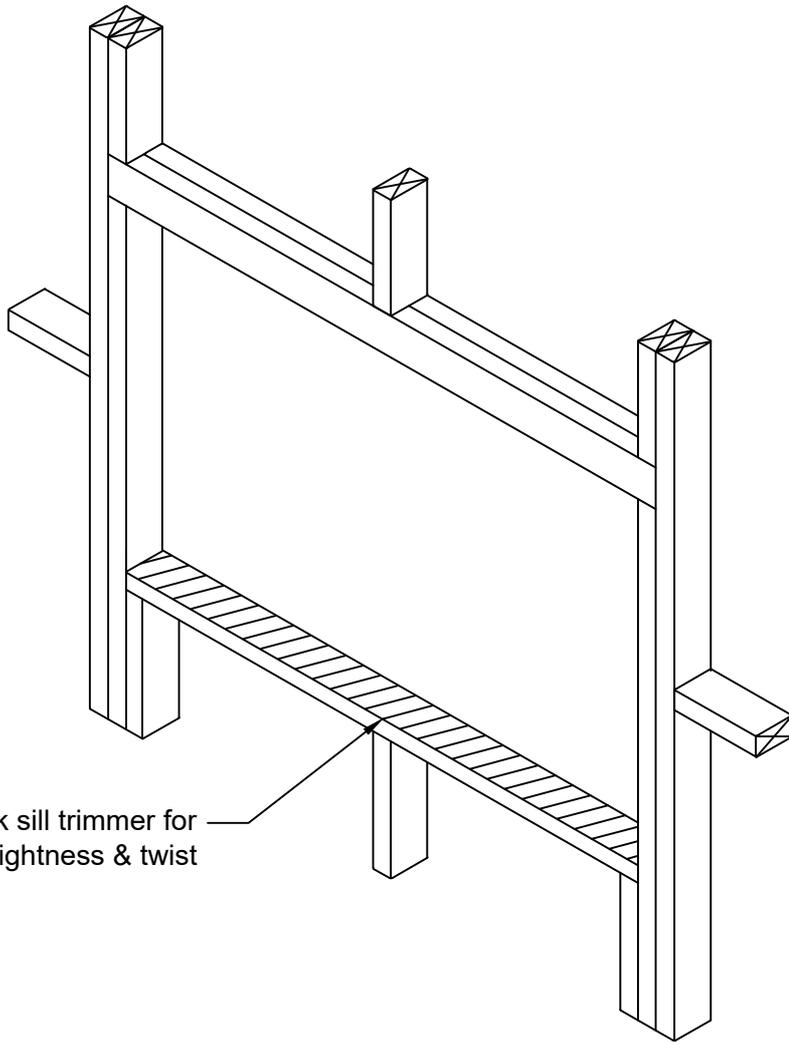
FMI Building Innovation Three Sided Thermal Installation Method TL55

Cavity details allow window and door units to be fully sealed to the cladding. These details are suitable for cleaning with hose water



FMI Building Innovation Limited will not accept direct or consequential liability of any kind, howsoever arising, associated with the use, application or modification of the FMI BI described herein or any losses, costs or expenses associated therewith.





Check sill trimmer for level, straightness & twist

IMPORTANT NOTE

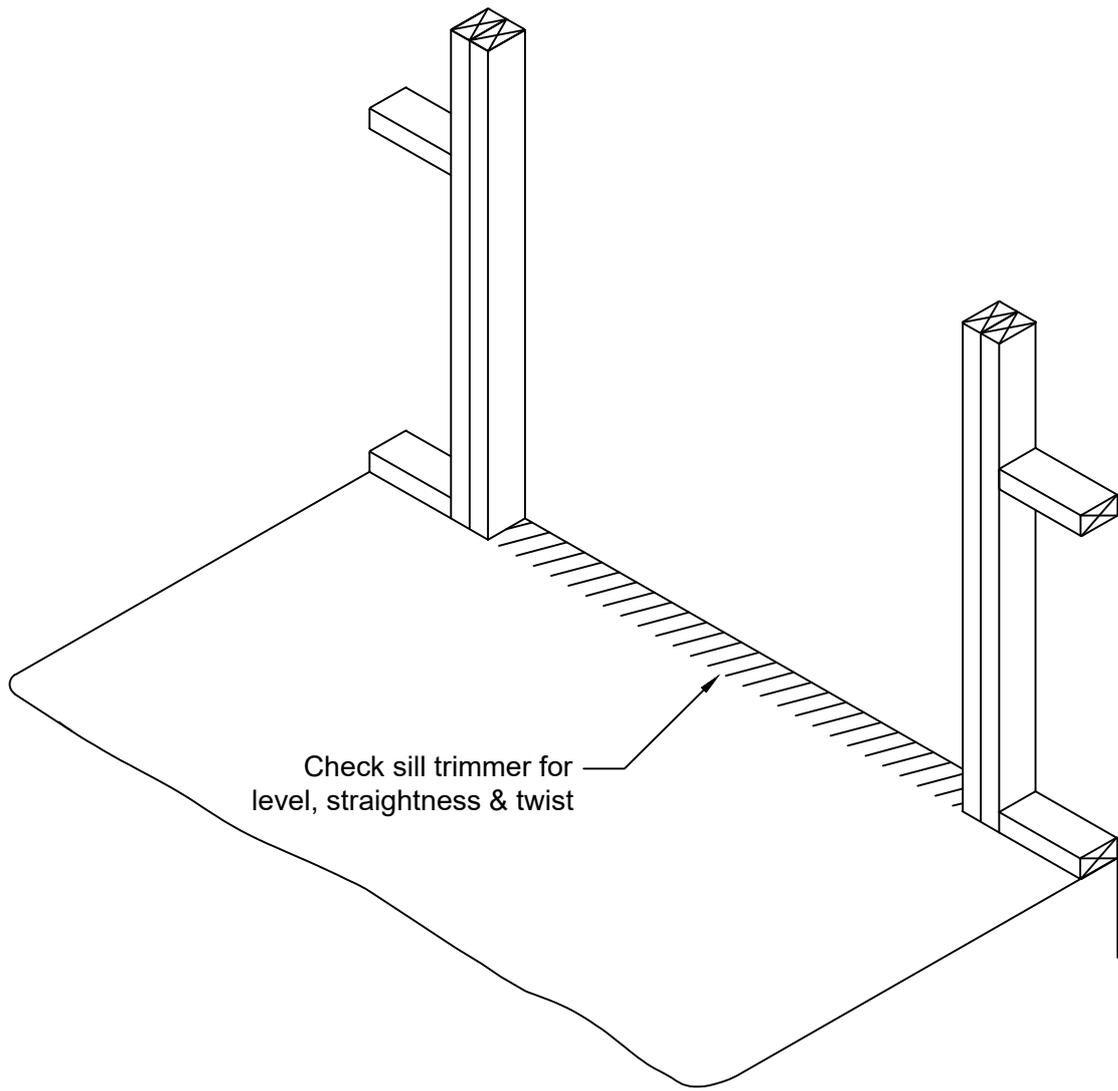
Before the house wrap is cut and prepared, the sill trimmer is checked for level, straightness and twist.

If required the sill trimmer should be planed level to ensure optimum performance of the FMI BI Installation System.

Recommendation

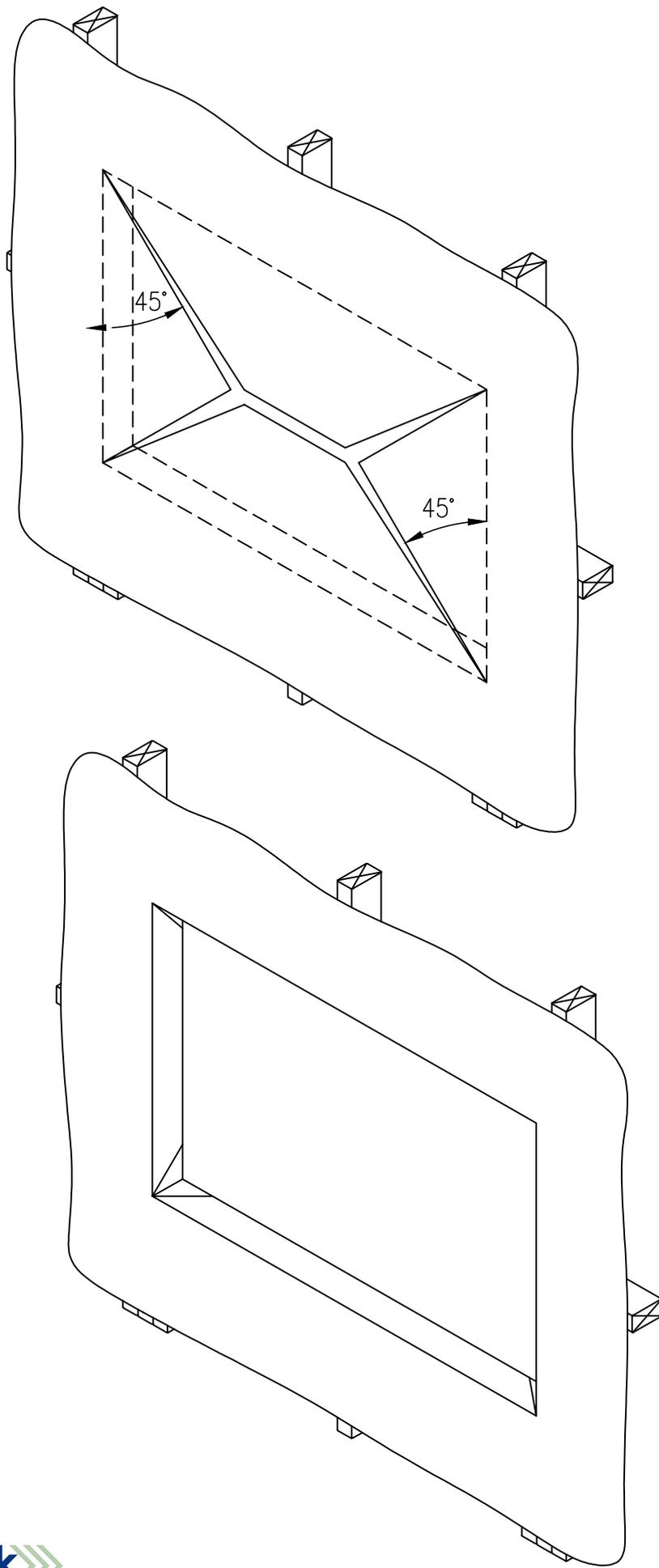
FMI BI recommend the use of stable timber for the sill trimmer.

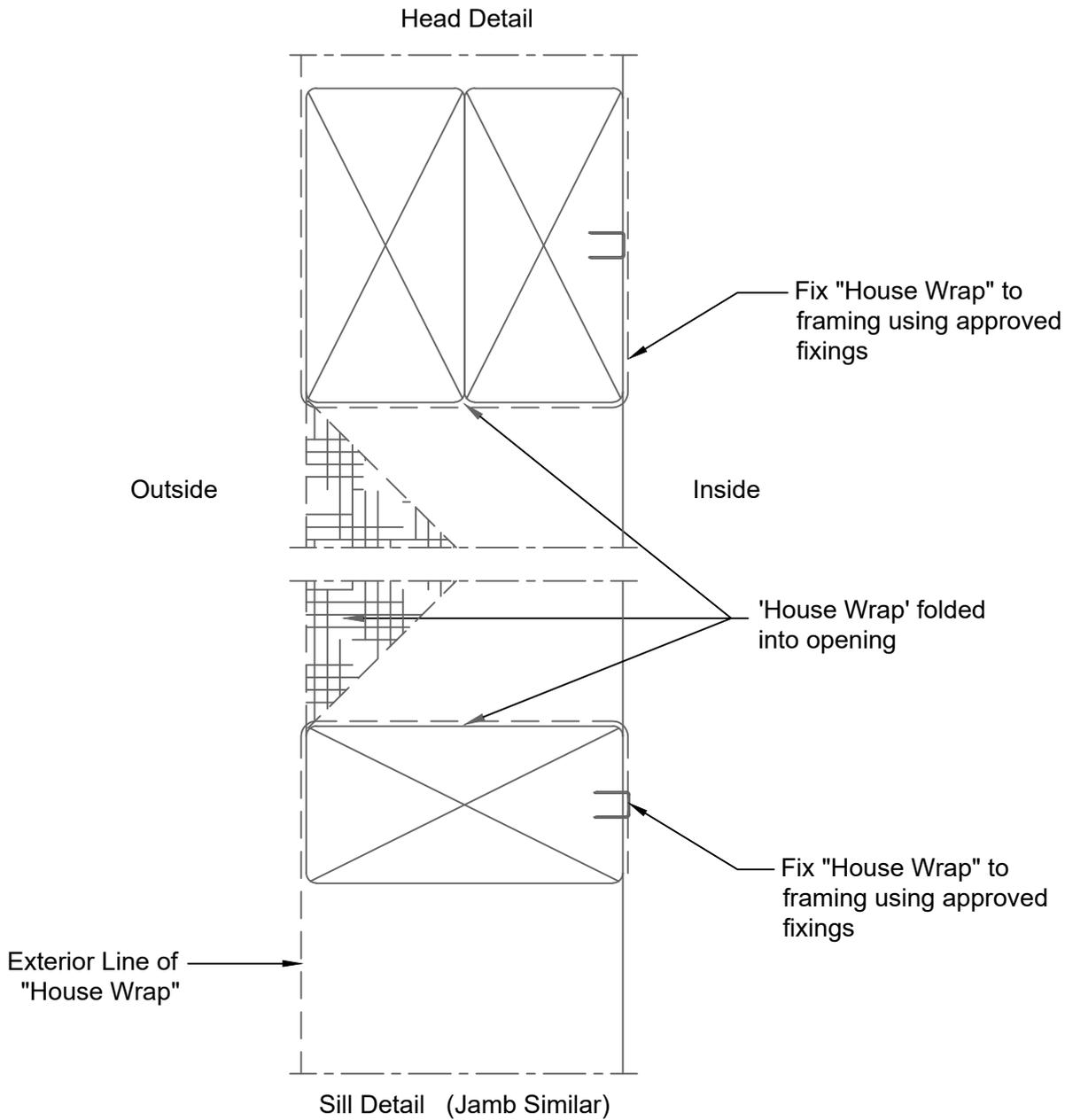




Check sill trimmer for level, straightness & twist







- 2.1 Cut 'House Wrap' at 45° away from each corner.

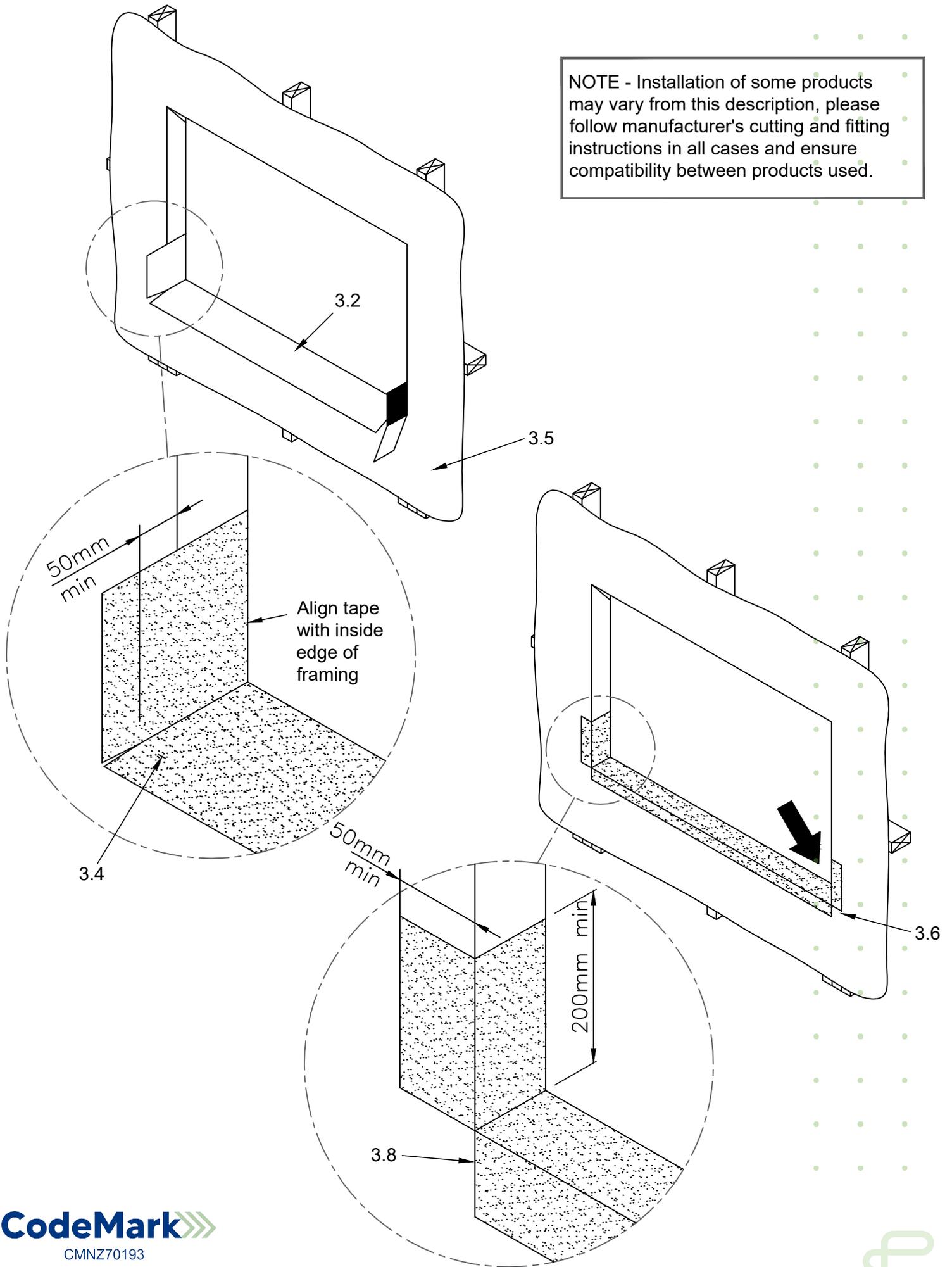
NOTE:

45° gives maximum possible coverage of timber when the wrap is folded in.

- 2.2 Fold flaps tightly into opening and secure on all sides, ensure fixings are on the inside face of framing.
- 2.3 Trim off excess after fixing.



NOTE - Installation of some products may vary from this description, please follow manufacturer's cutting and fitting instructions in all cases and ensure compatibility between products used.





Step 3 Flexible sill flashing

3.1 Cut sill flashing tape at least 400mm longer than the opening width, to ensure bare framing is covered.

3.2 Remove first piece of release paper, align the back edge of sill flashing tape with inside edge of sill.

NOTE - Do not wrap sill flashing tape onto the interior surface of the framing where it may interfere with the wall linings.

3.3 Front edge of the sill flashing tape should project out from the front of wall framing for ease of installation. Adhere into opening across sill and up each jamb (min. 200mm) to cover bare framing.

3.4 Trim corners of sill flashing tape so that the front edge extends to approximately 50mm out from front of wall framing to enable tape to be folded around easily.

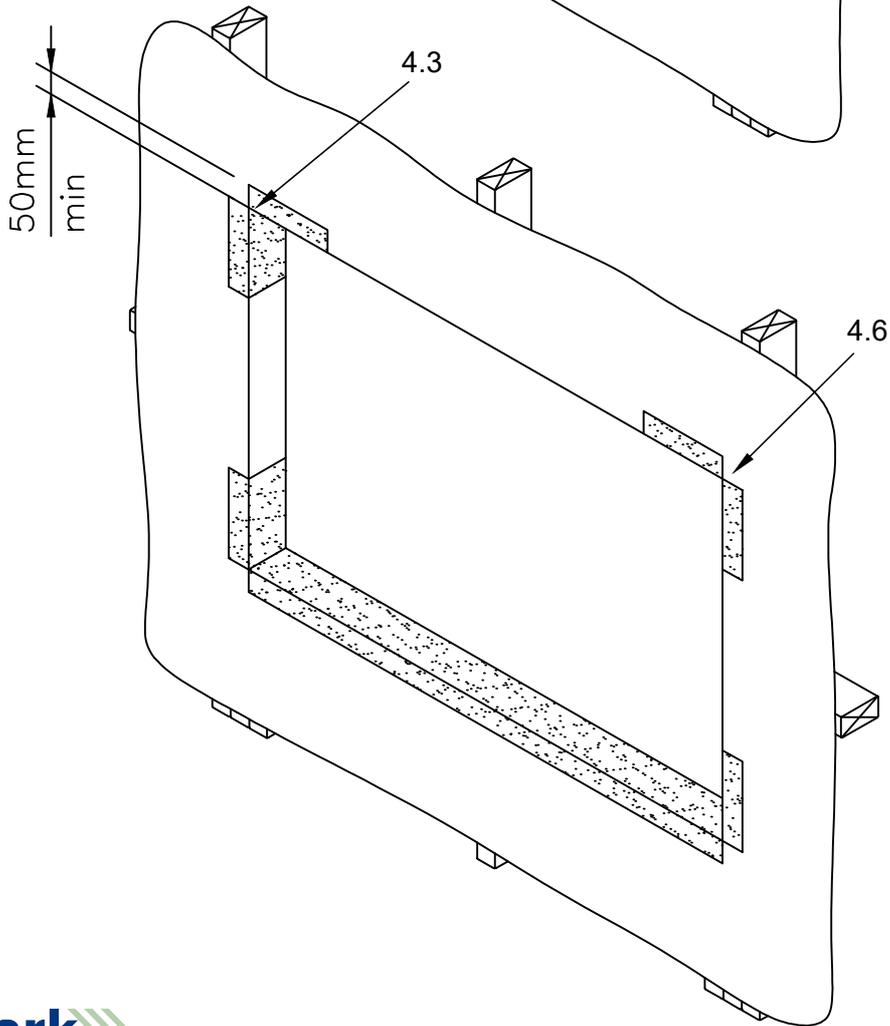
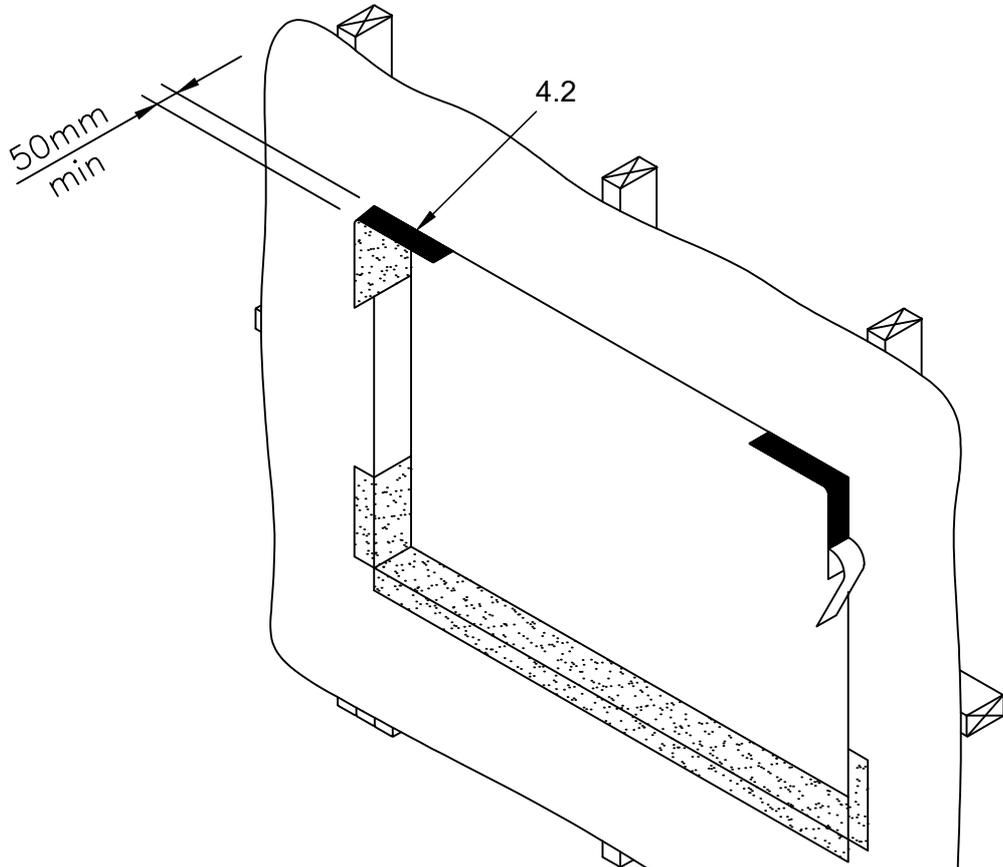
3.5 Remove second release paper.

3.6 Fan sill flashing tape at bottom corners onto face of house wrap removing any wrinkles.

3.7 Firmly press sill flashing tape onto all surfaces to ensure full adhesion.

3.8 Secure edges of bottom corners with clouts or similar through the flashing tape into the framing.







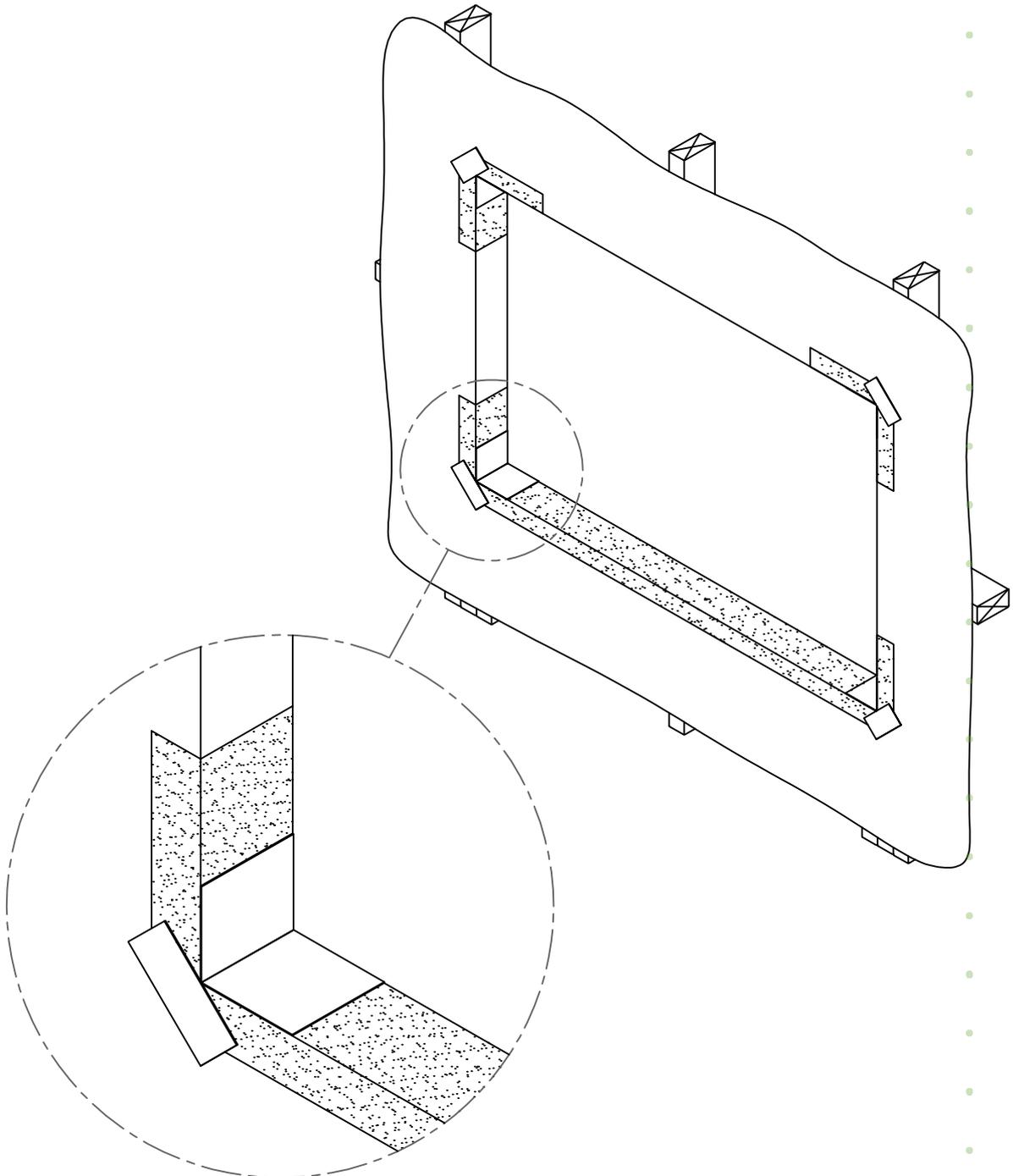
Step 4 Upper corners

- 4.1 Cut pieces of flashing tape at least 400mm long.
- 4.2 Remove release paper, and align the back edge of the flashing tape with the inside edge of framing and the front edge projecting a minimum of 50mm out from the front of wall framing. Adhere into opening across the head and down each jamb a minimum of 200mm in each direction.

NOTE - Do not wrap flashing tape onto the interior surface of the framing where it may interfere with the wall linings.

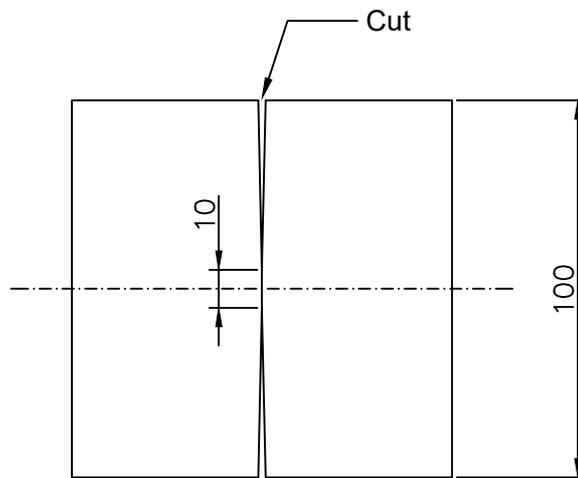
- 4.3 Fan flashing tape at top corners onto face of 'House Wrap'.
- 4.4 Firmly press flashing tape onto all surfaces to ensure full adhesion removing any wrinkles.
- 4.5 Trim excess tape from inside, flush with face of framing. Care must be taken not to cut house wrap.
- 4.6 Secure edges of top corners with a clout or similar through the flashing tape into the framing.





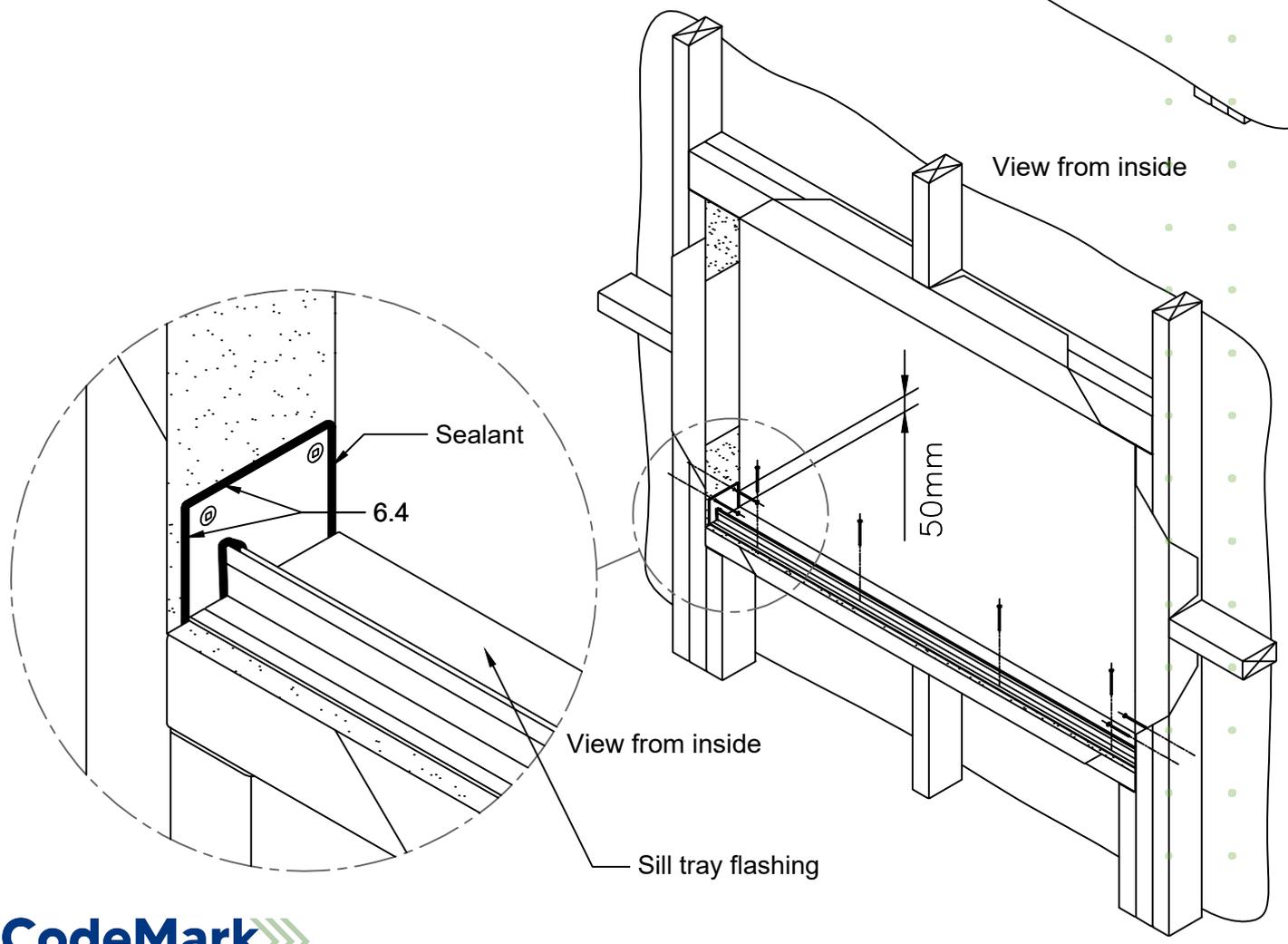
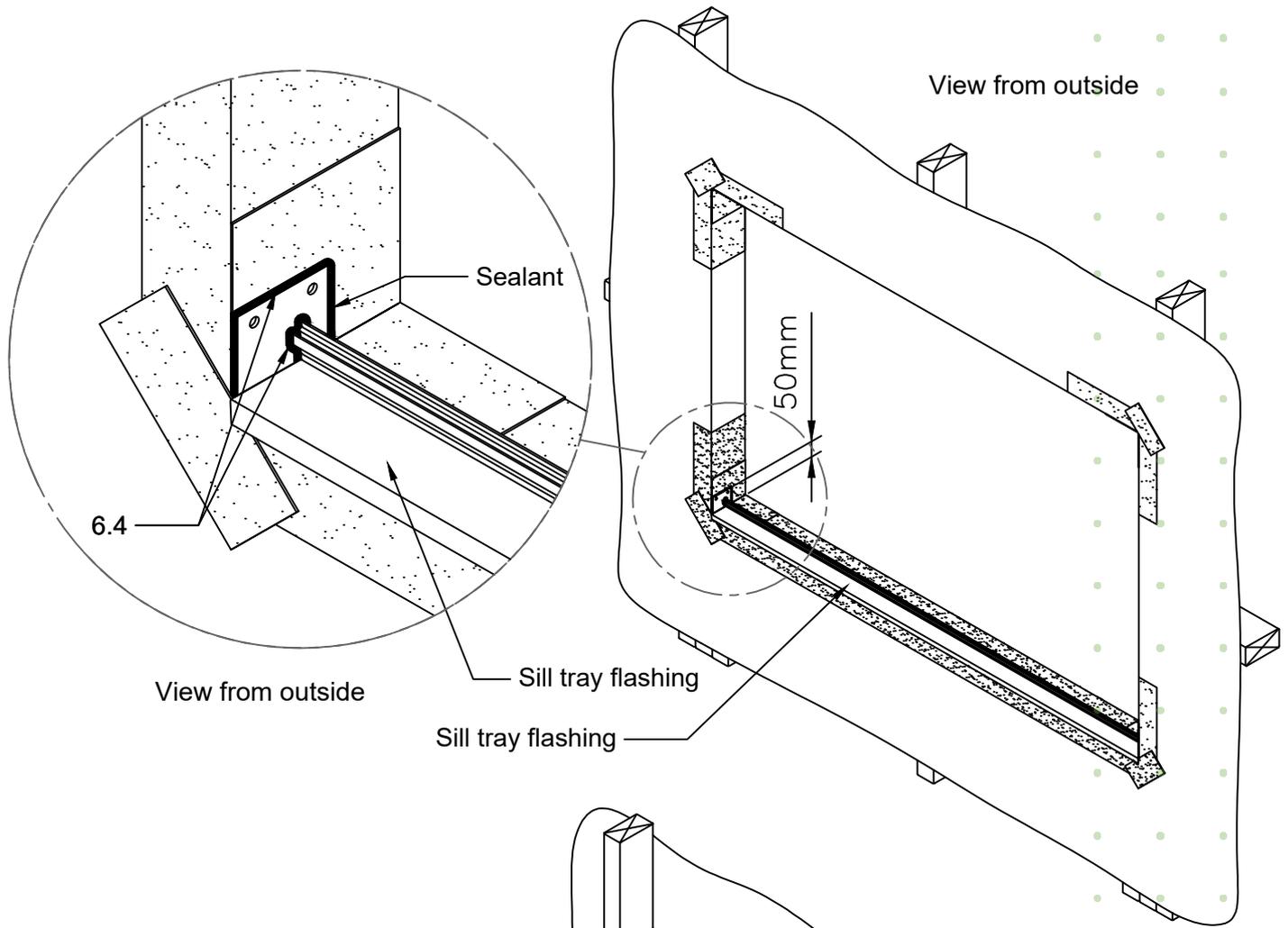
Step 5 Patching the corners

- 5.1 Finish the corners (see the drawing below).
- 5.2 Firmly press flashing tape onto all surfaces to ensure full adhesion removing any wrinkles.



Flexible Flashing Tape





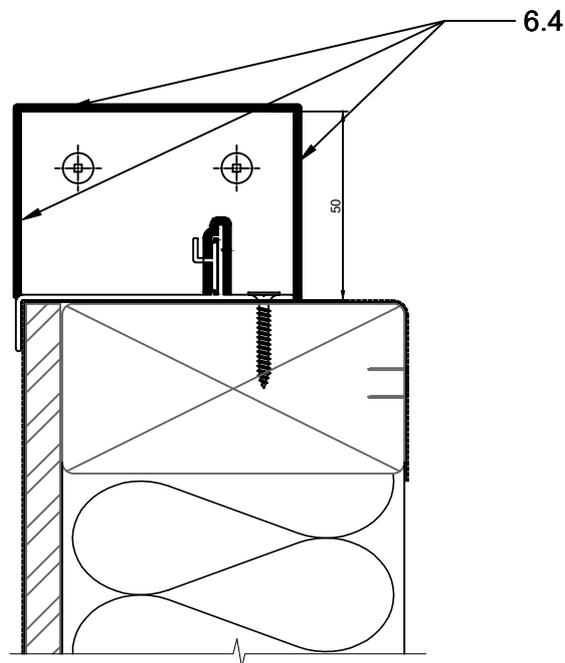
IMPORTANT NOTE

Before the sill tray flashing is positioned and fixed, the sill trimmer is checked for level, straightness and twist.

If required the sill trimmer should be planed level to ensure optimum performance of the FMI BI Installation System.

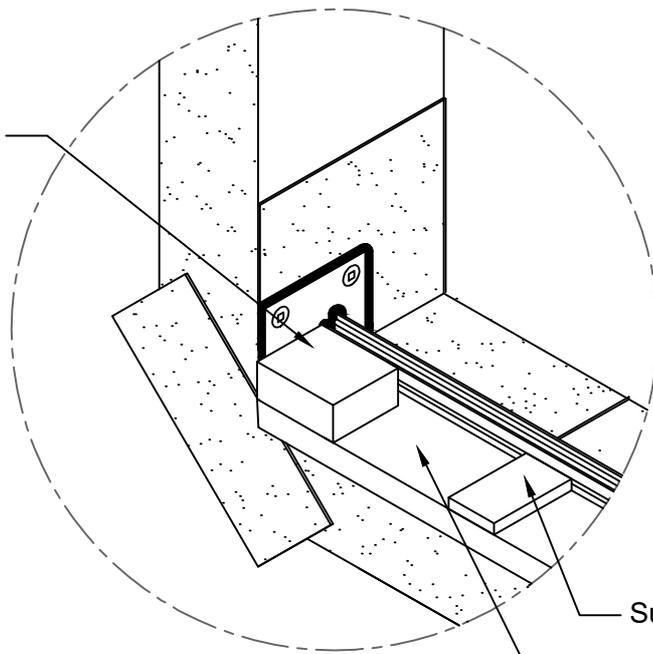
Step 6 Sill tray flashing

- 6.1 Cut the sill tray flashing 90mm longer than the opening and fold back the ends to create 50mm high end dams.
- 6.2 Fix the sill tray flashing into the sill trimmer through the rear leg using either clouts or 8g SS pan head screws positioned 150mm max from each end and at 450mm max centres between.
- 6.3 Fix the folded back sections of the sill tray flashing into the vertical stud using clouts or 8g SS pan head screws and overseal the head of the screws.
- 6.4 Seal the gap between the folded back of the sill tray flashing and the stud (see the drawing).



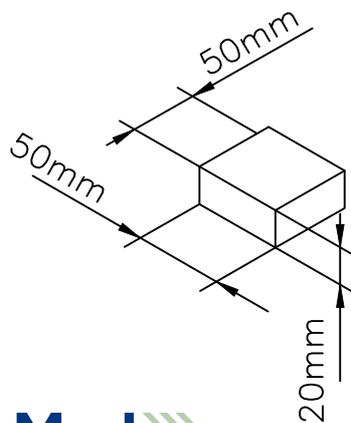


Closed cell one-sided foam



Support block

Sill tray flashing



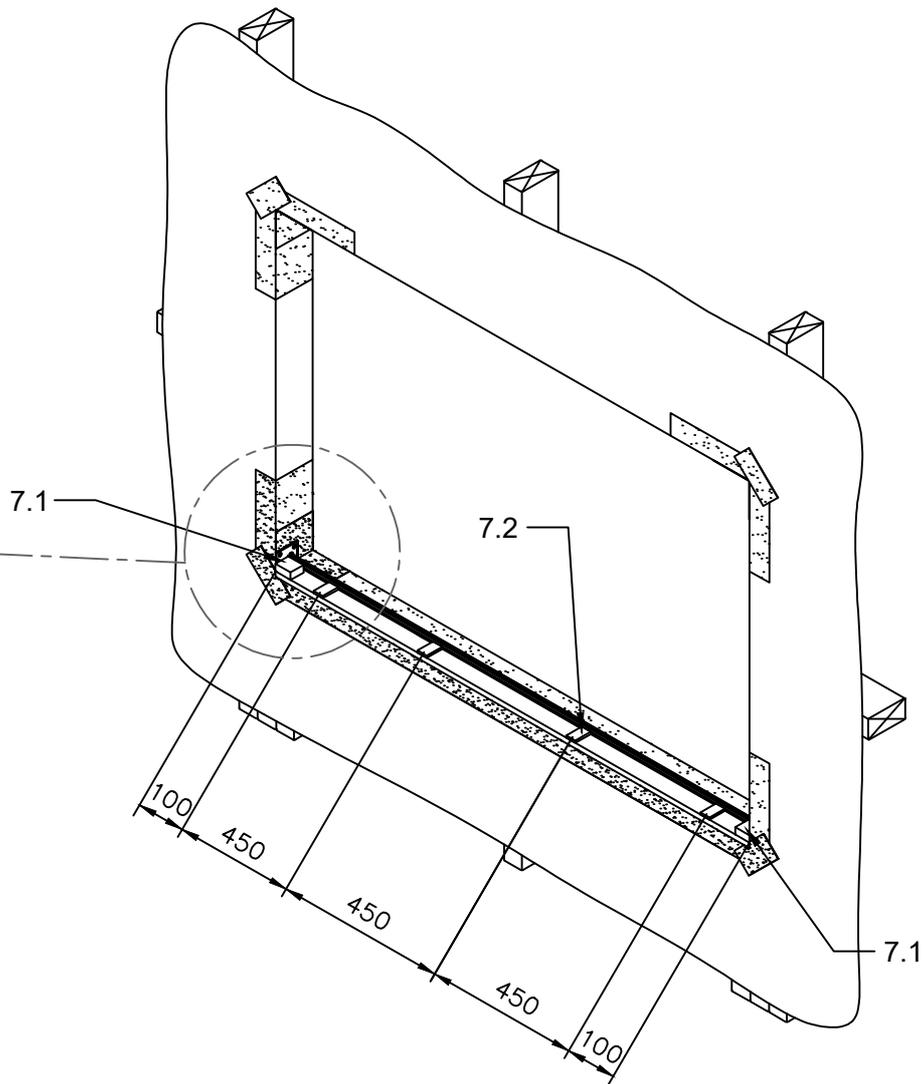
Closed cell one-sided foam

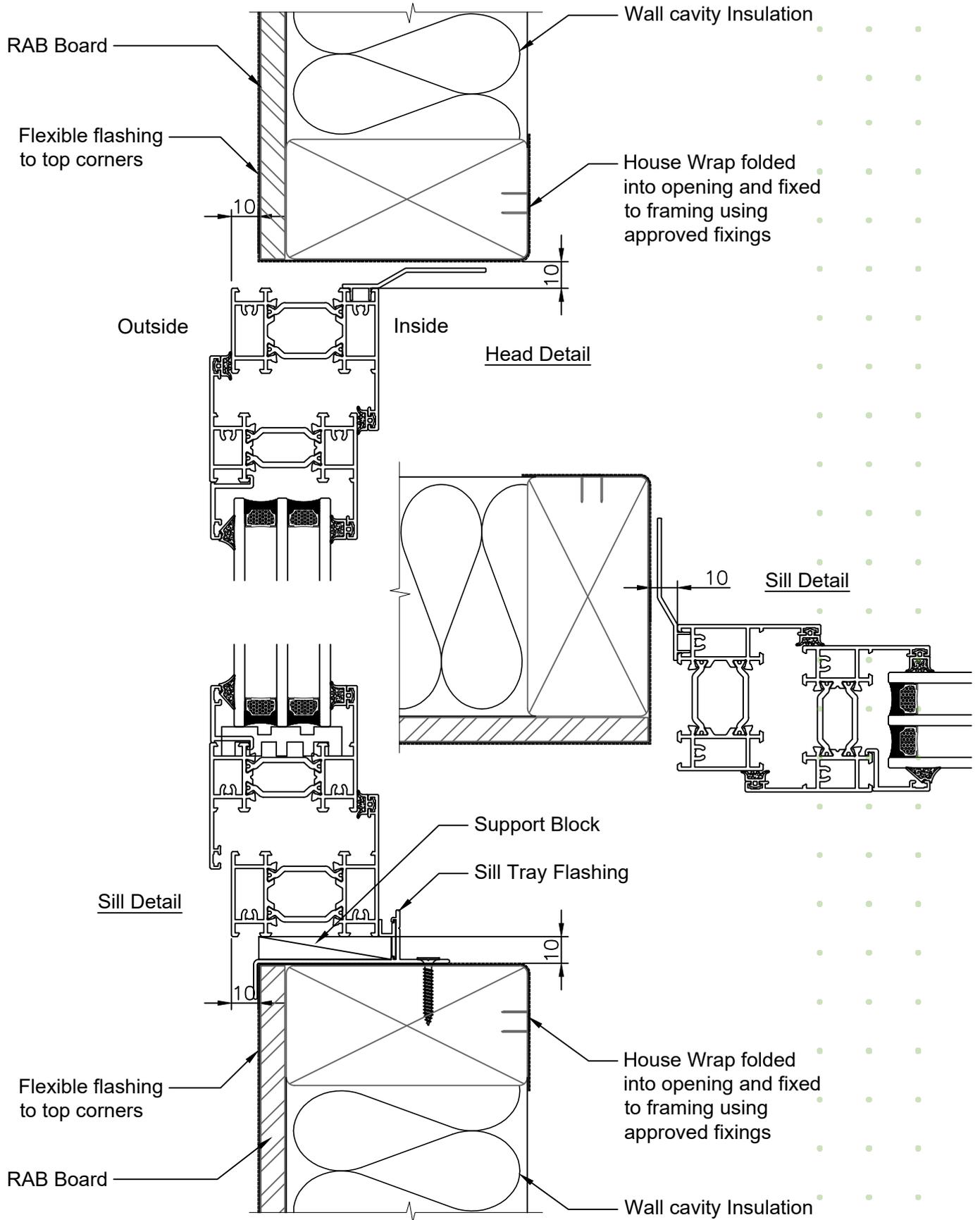


Step 7 Support blocks

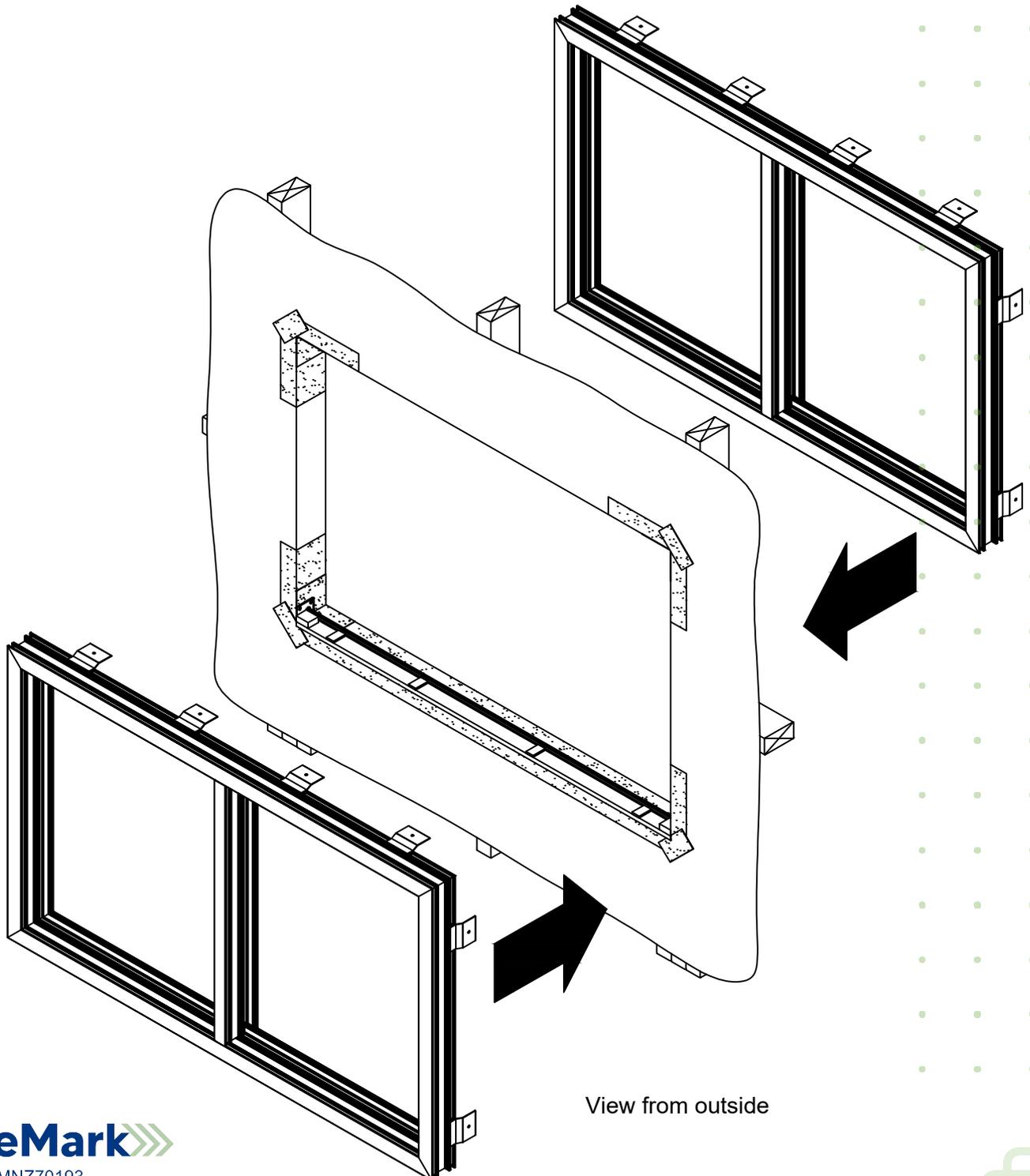
7.1 Position the one-sided closed cell foams in the sill tray flashing corners.

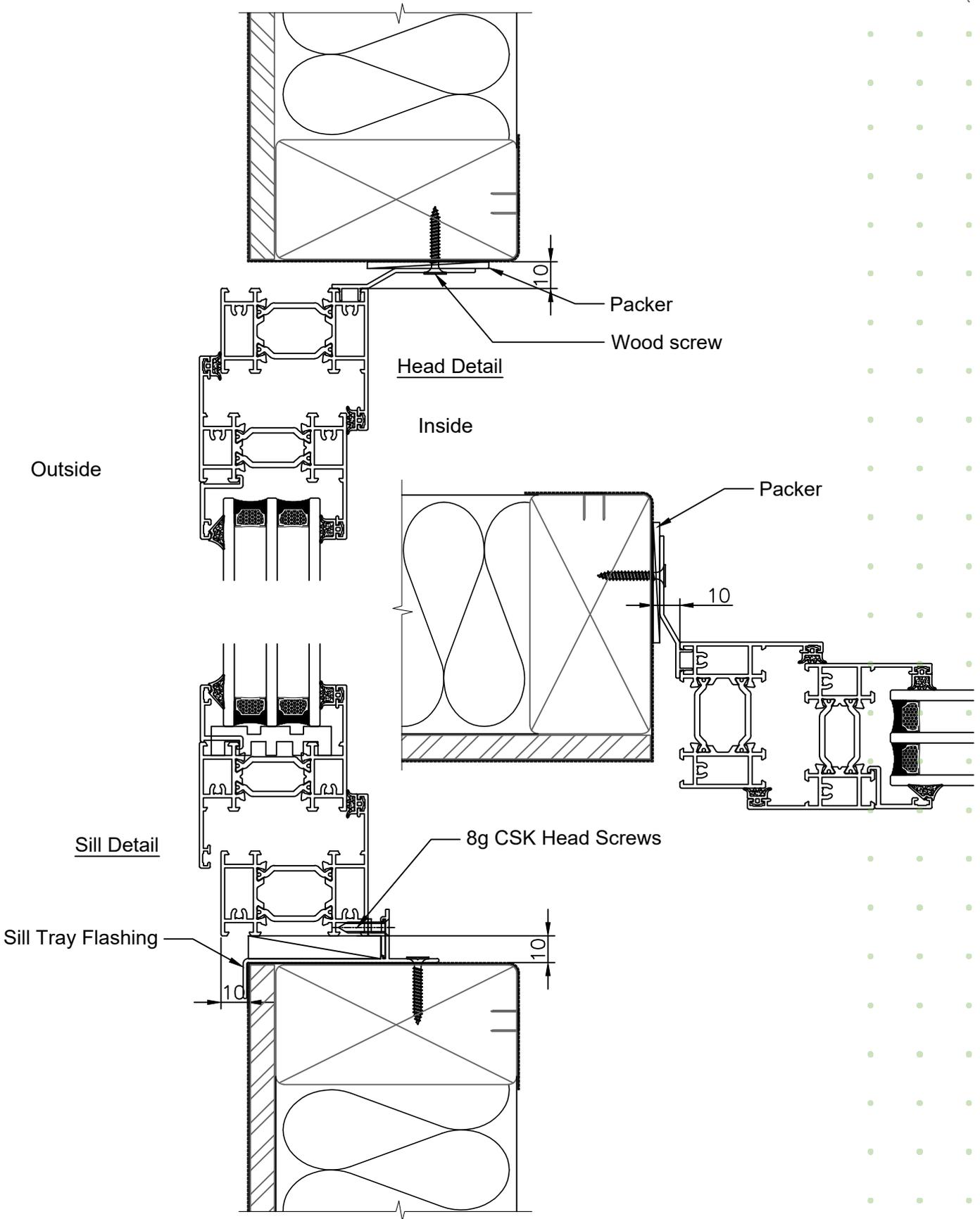
7.2 Position the support blocks on the sill tray flashing 100mm from the corners and every 450mm centres.





- Step 8 Position unit in opening
- 8.1 Position unit into opening.
 - 8.2 Ensure unit is positioned so that;
 - i) interior linings finish in the correct plane.
 - ii) a 10mm nominal gap is maintained between unit and trimmer.



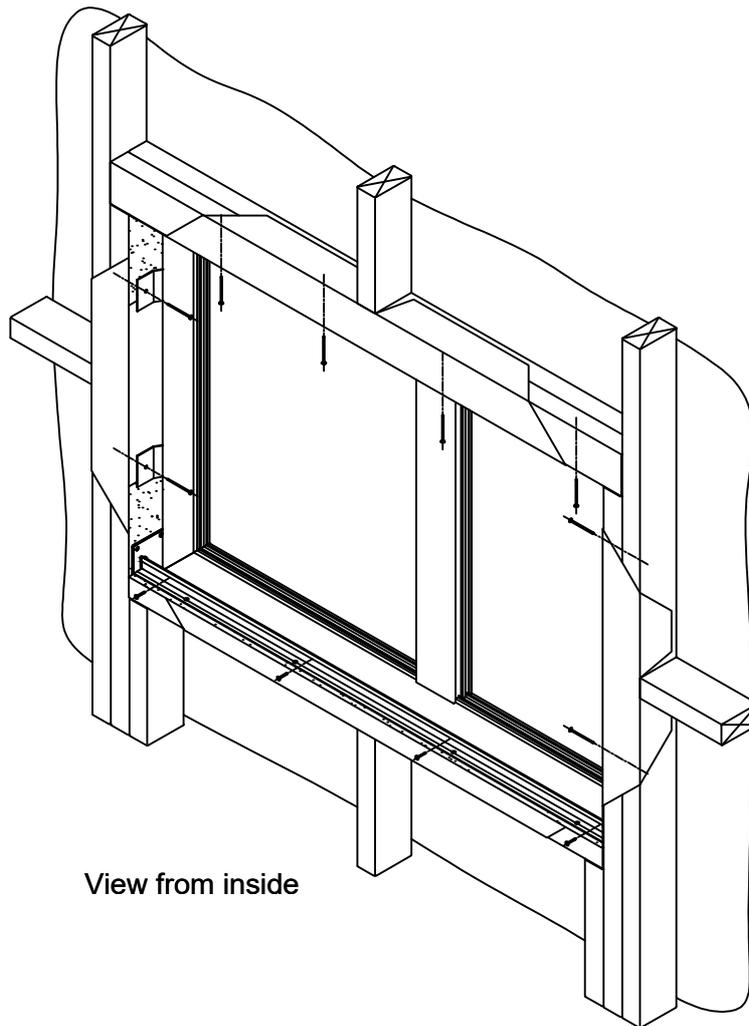


Step 9 Fix off inside of unit

- 9.1 Insert flat packers between wall framing and fixing lug at head and jambs.
Do not use wedges.
- 9.2 Fix through fixing lug and packers into wall framing with 8g wood screws.
- 9.3 Fix the aluminium sill and the sill tray flashing together with 8g CSK Head SS screws. 150mm from corners and at 450mm centres.
- 9.4 Overseal the head of the screws.

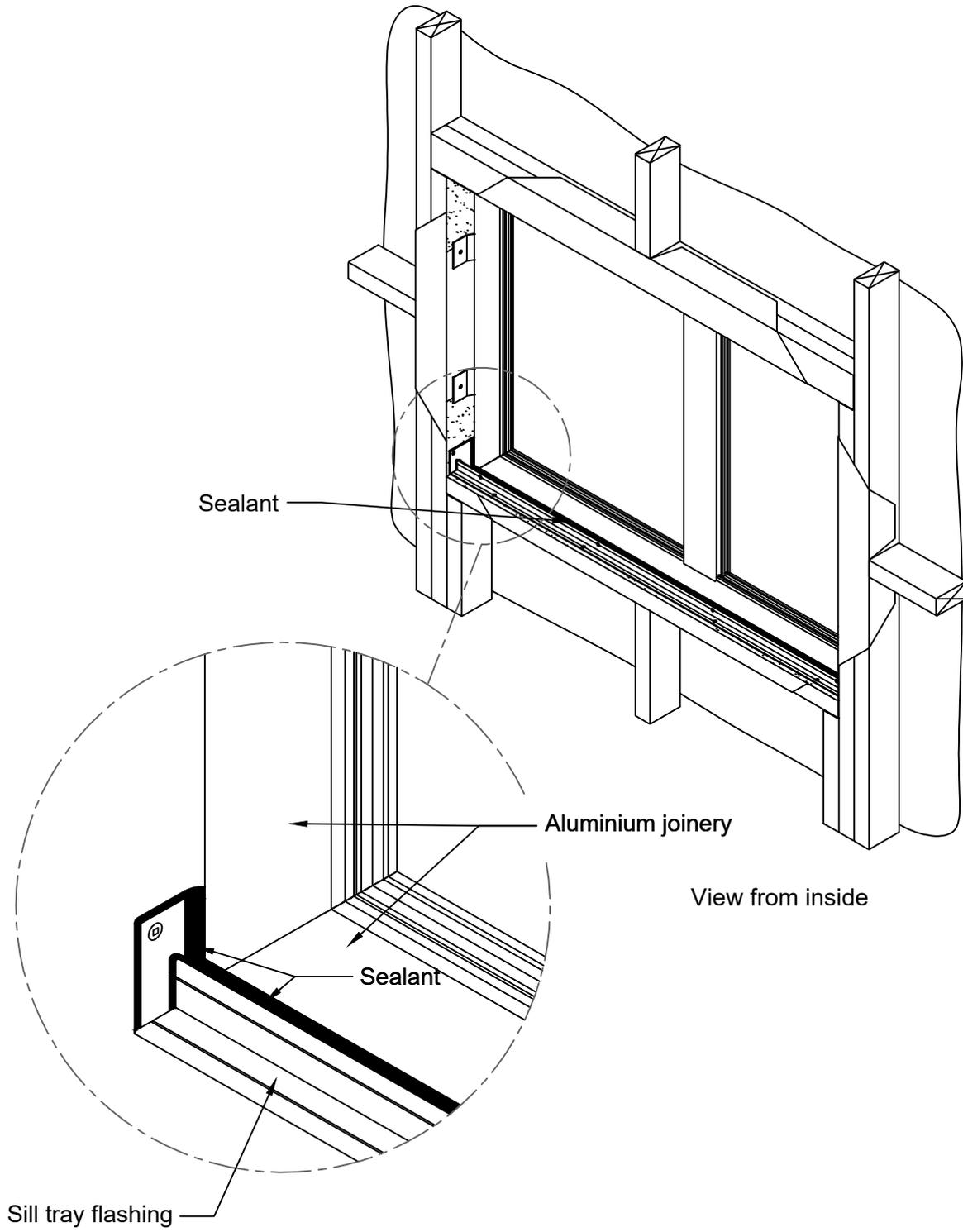
NOTE: Mechanical fixings only 150mm from corners and at 450mm centres.

Expandable foam is NOT an approved fixing method.



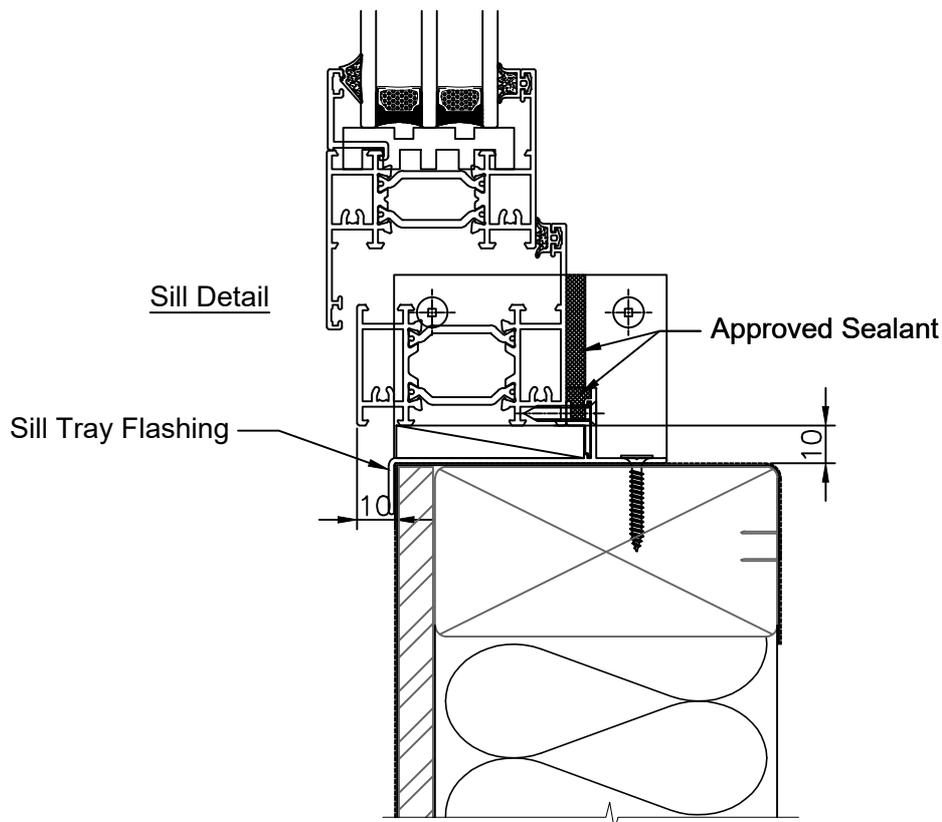
View from inside





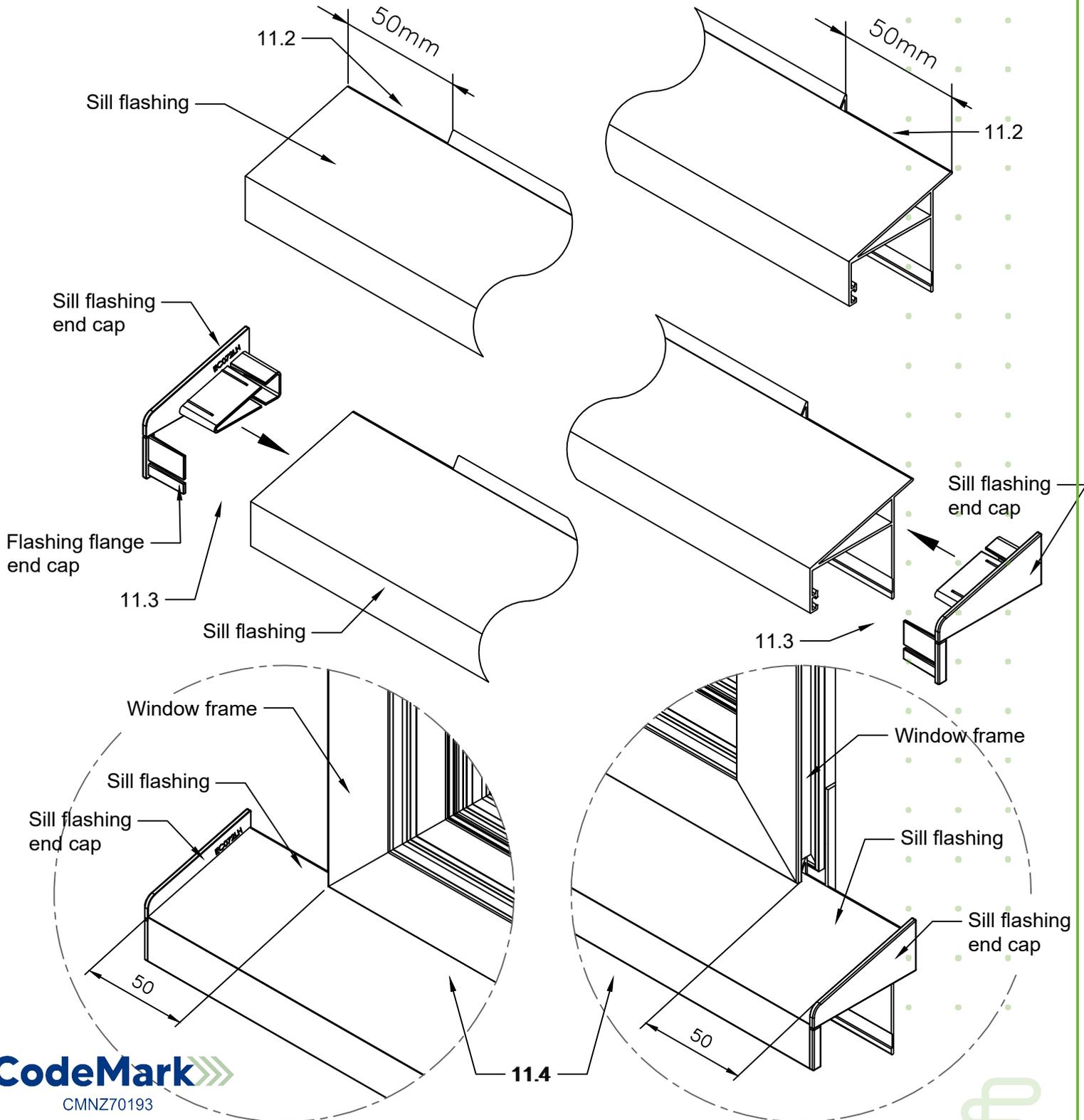
Step 10 Seal off the sill tray flashing

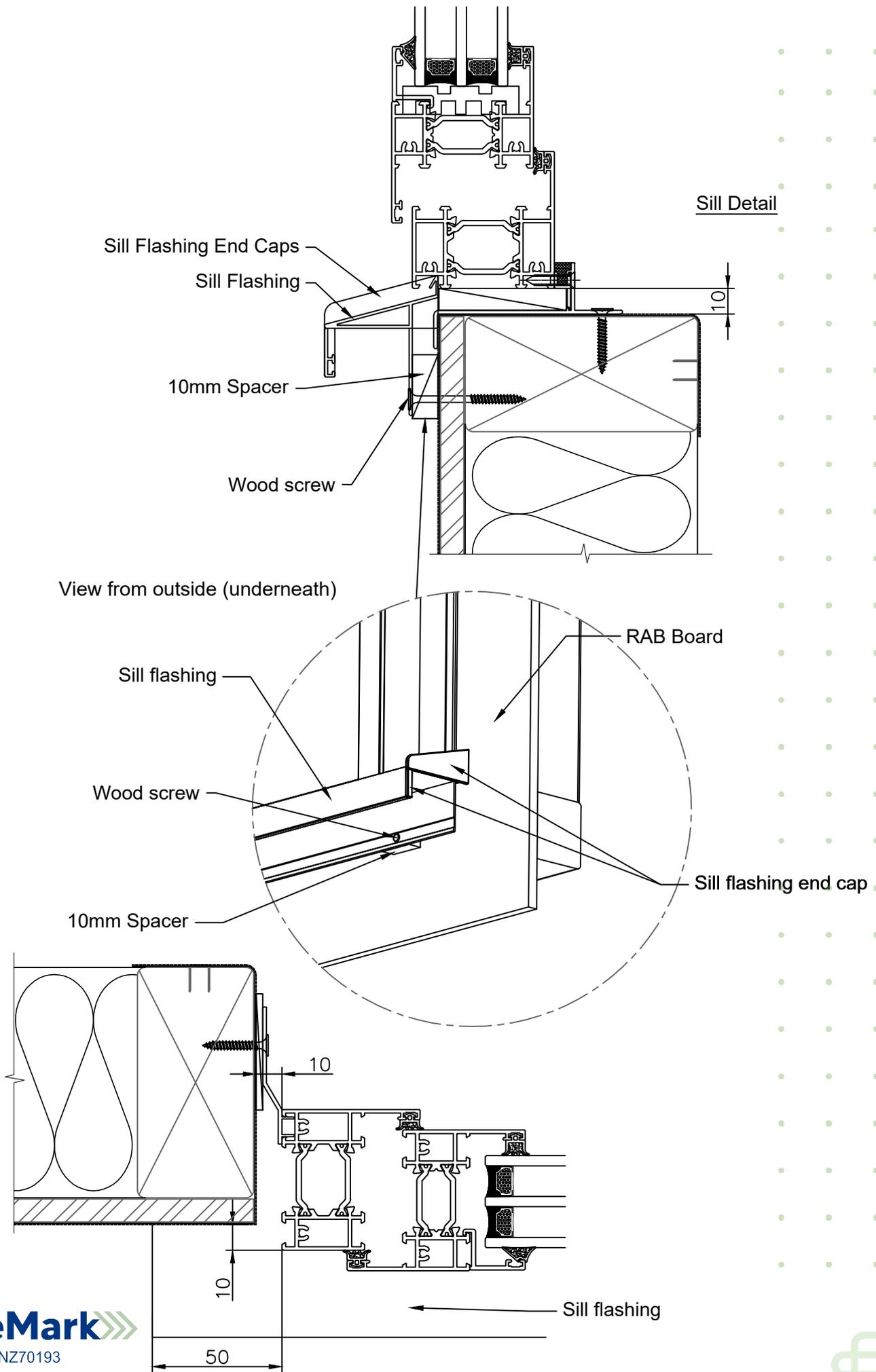
- 10.1 Seal off the gap between aluminium frame and the sill tray flashing (see the drawing below).
- 10.2 Seal the gap between the folded back of the sill tray flashing and the aluminium jamb (see the drawing below).



Step 11 Install the sill flashing

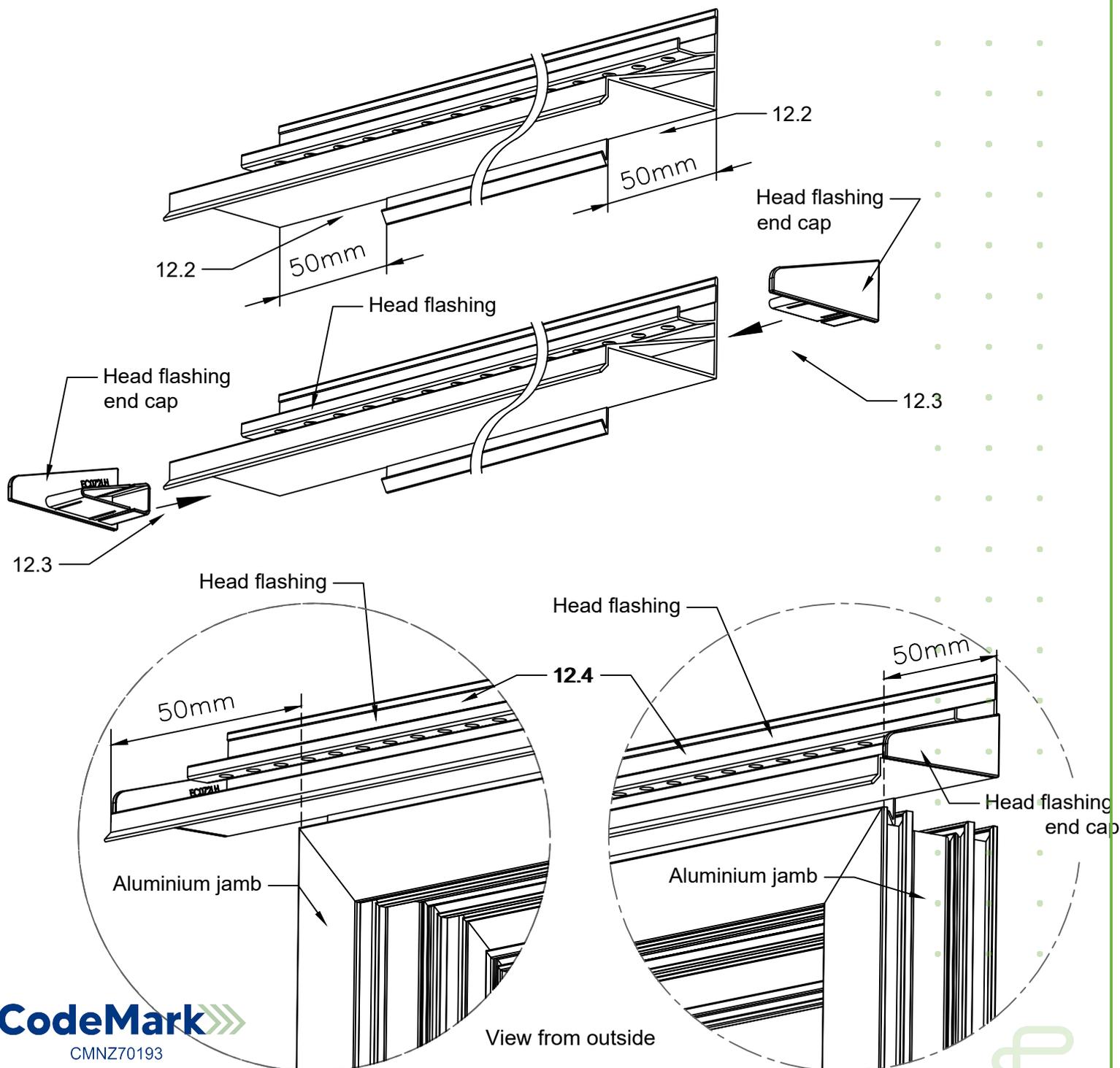
- 11.1 Cut the sill tray flashing 100mm longer than the aluminium window/door frame.
- 11.2 Use pliers and remove "the hook" 50 mm long from each end.
- 11.3 Fit the sill tray flashing end caps.
- 11.4 Position the sill tray flashing hard against the aluminium window/door sill. Position flashing to project 50mm on either side of the unit. Fix the sill tray flashing through the 10mm spacers into the sill trimmer using either clouts or 8g wood screws positioned 150mm max from each end and at 450mm max centres between.

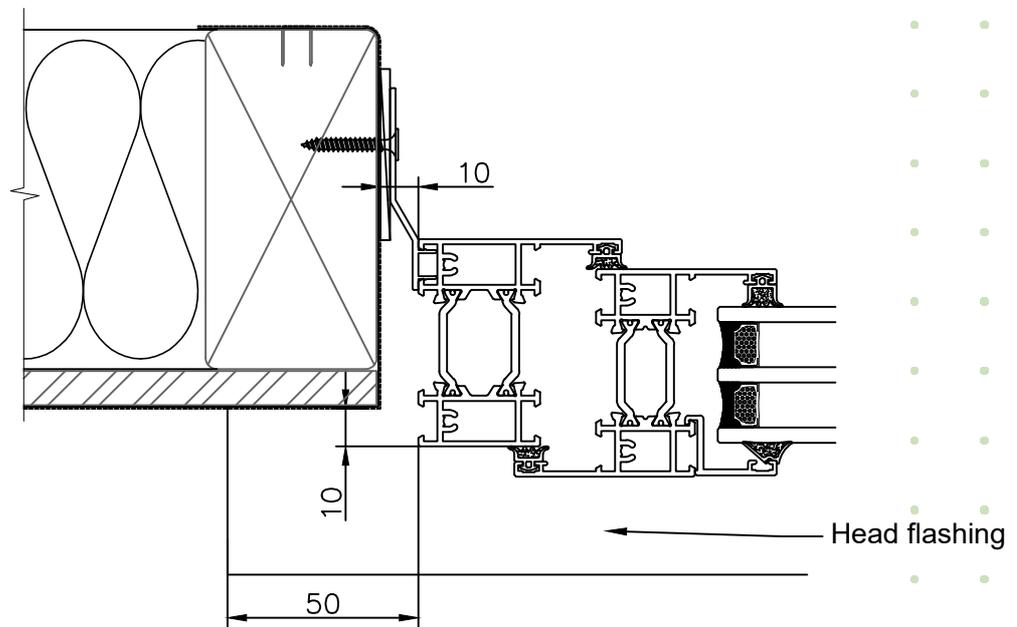
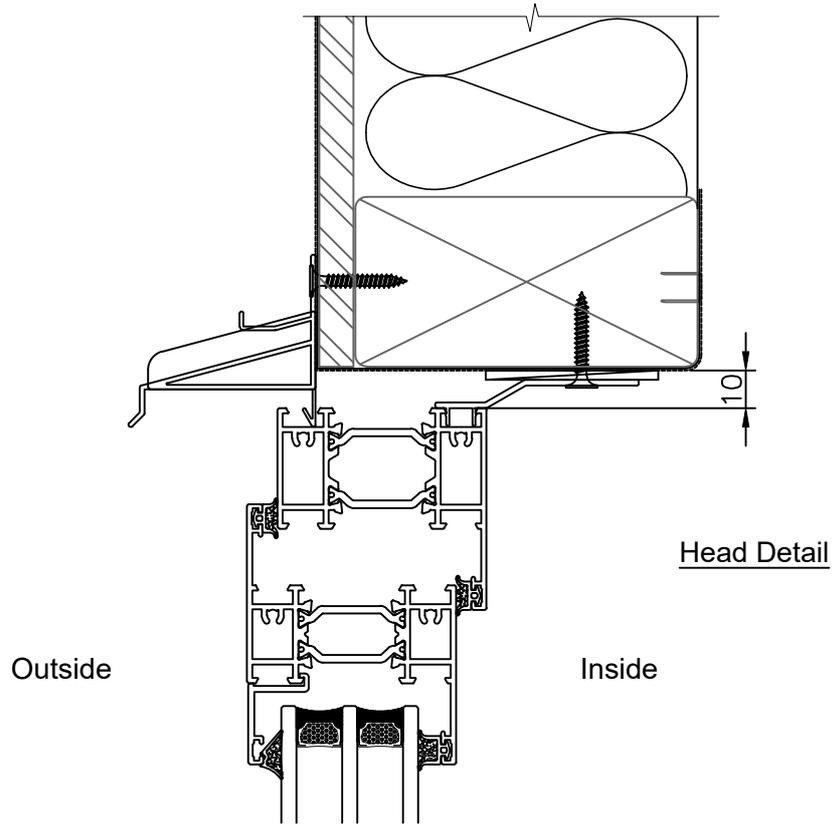


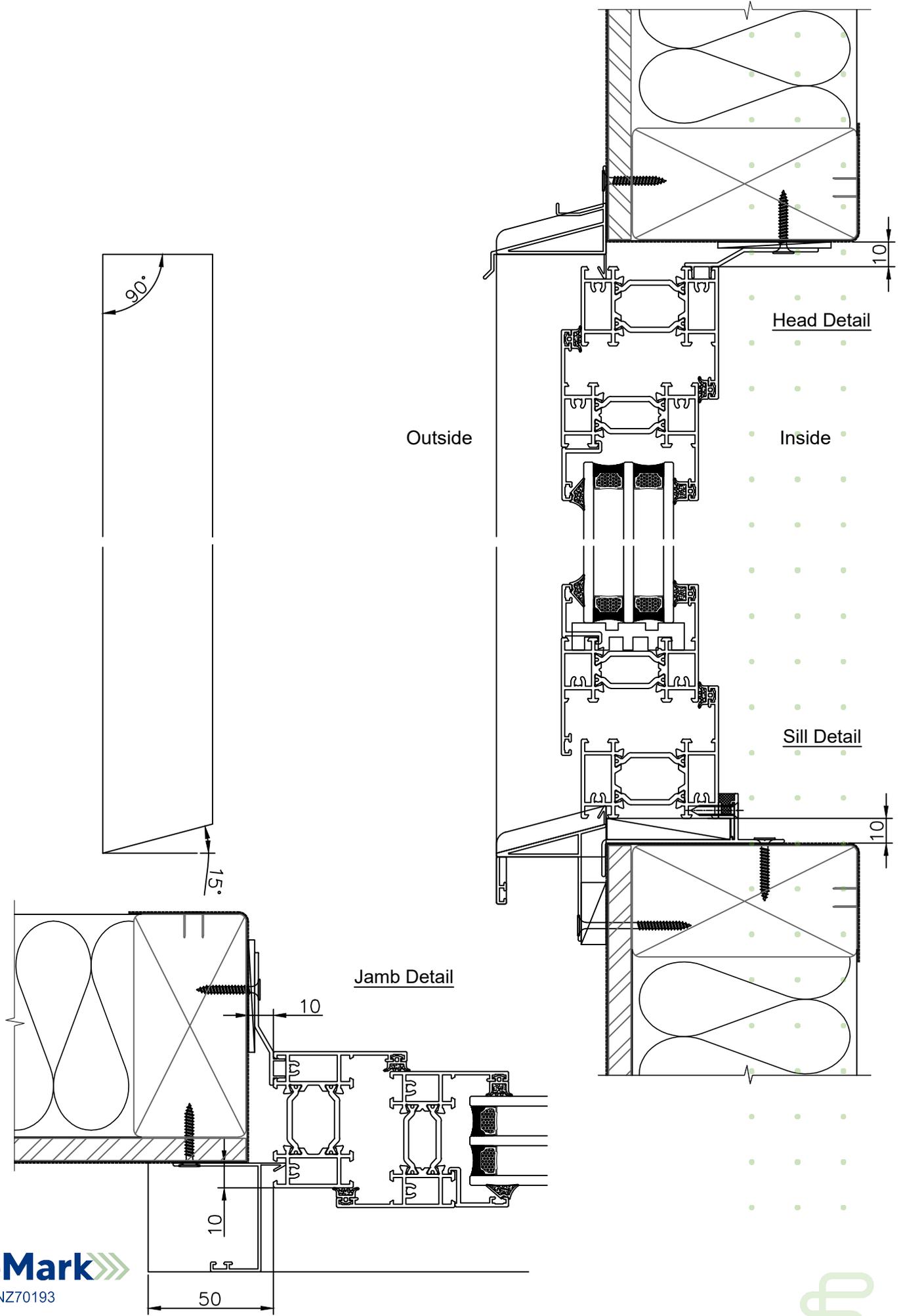


Step 12 Install the head flashing

- 12.1 Cut the head flashing 100mm longer than the aluminium window/door frame.
- 12.2 Use pliers and remove "the hook" 50 mm long from each end.
- 12.3 Fit the head flashing end caps.
- 12.4 Position the head flashing hard against the aluminium window/door head. Position flashing to project 50mm on either side of the unit. Fix the head flashing into the timber structure using either clouts or 8g wood screws positioned 150mm max from each end and at 450mm max centres between.





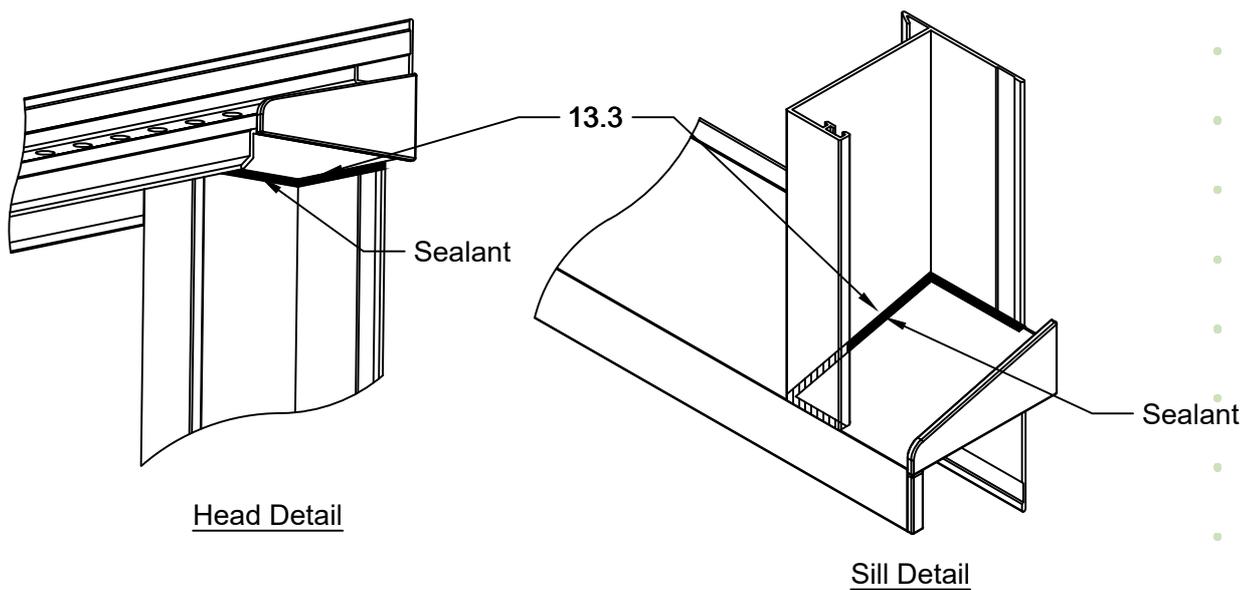
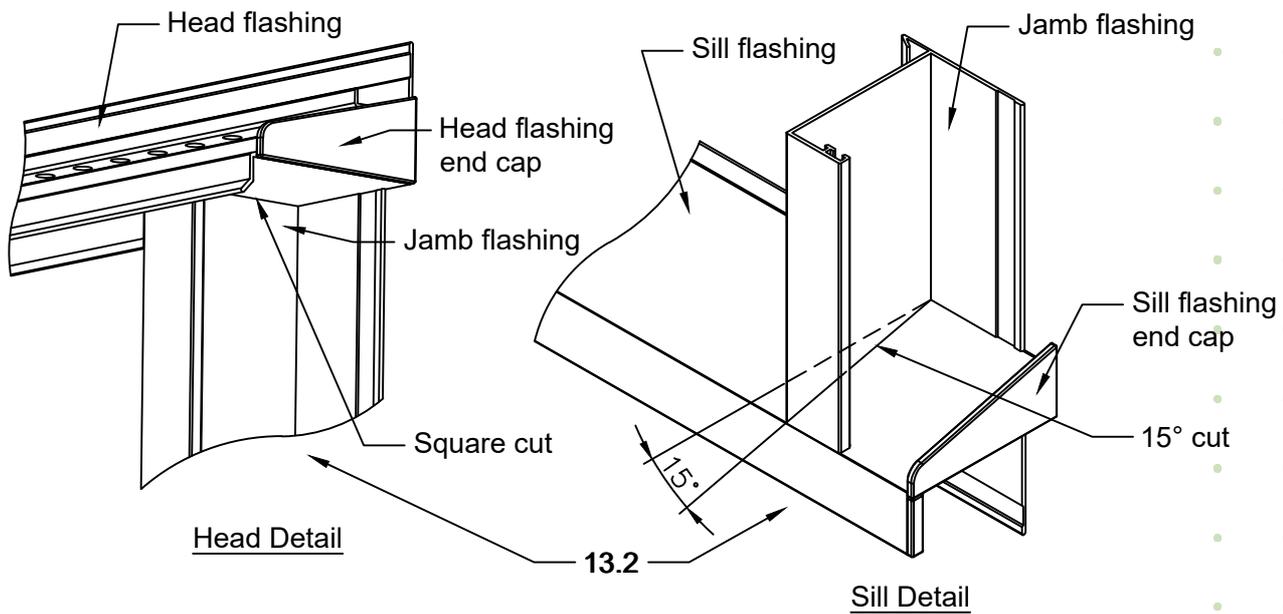


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Step 13 Install the jamb flashings

- 13.1 Cut the jamb flashing between head flashing and sill flashing. Square cut at the head and 15 degree at the sill (see drawing).
- 13.2 Position the jamb flashing hard against the aluminium window/door jamb. Fix the jamb flashing into the timber structure using either clouts or 8g wood screws positioned 150mm max from each end and at 450mm max centres between.
- 13.3 Apply sealant between the head flashing and jamb flashing and between jamb flashing and sill flashing in the indicated area (see drawing below).



Flexible flashing tape
over head flashing
upstand

Outside

Inside

Head Detail

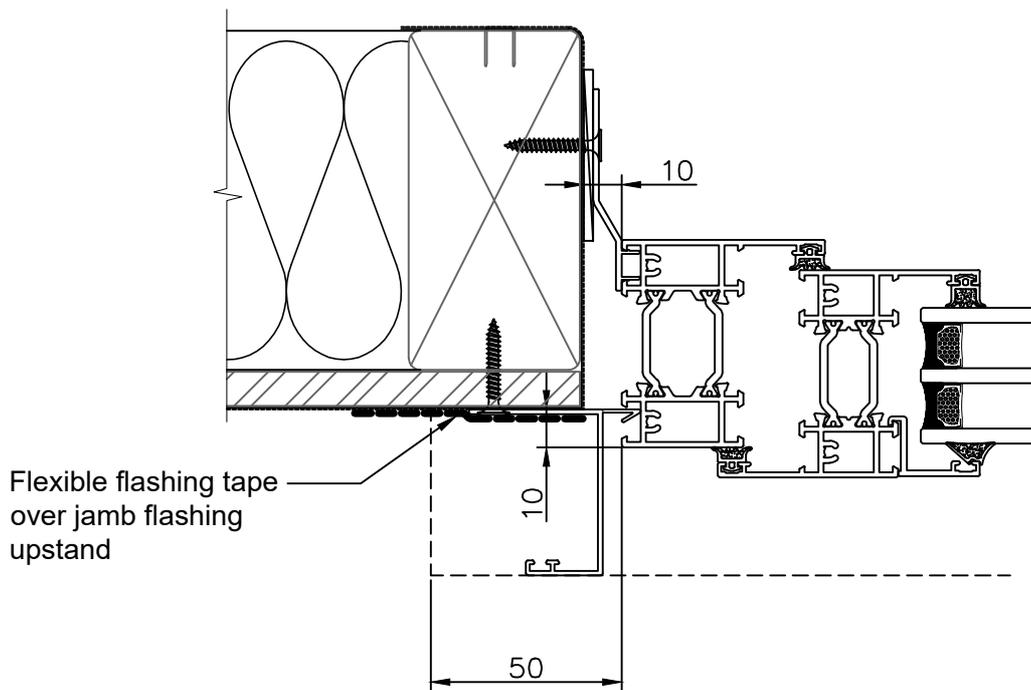
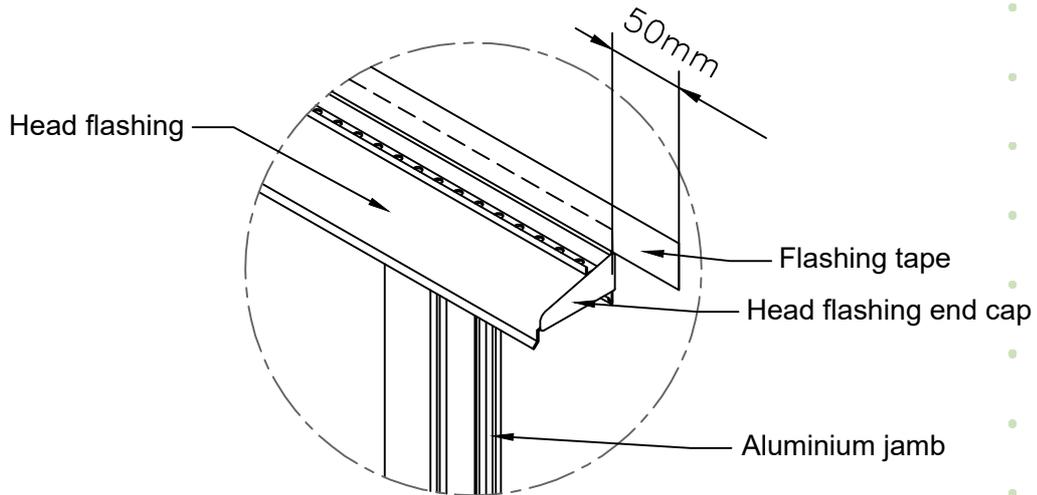
Sill Detail

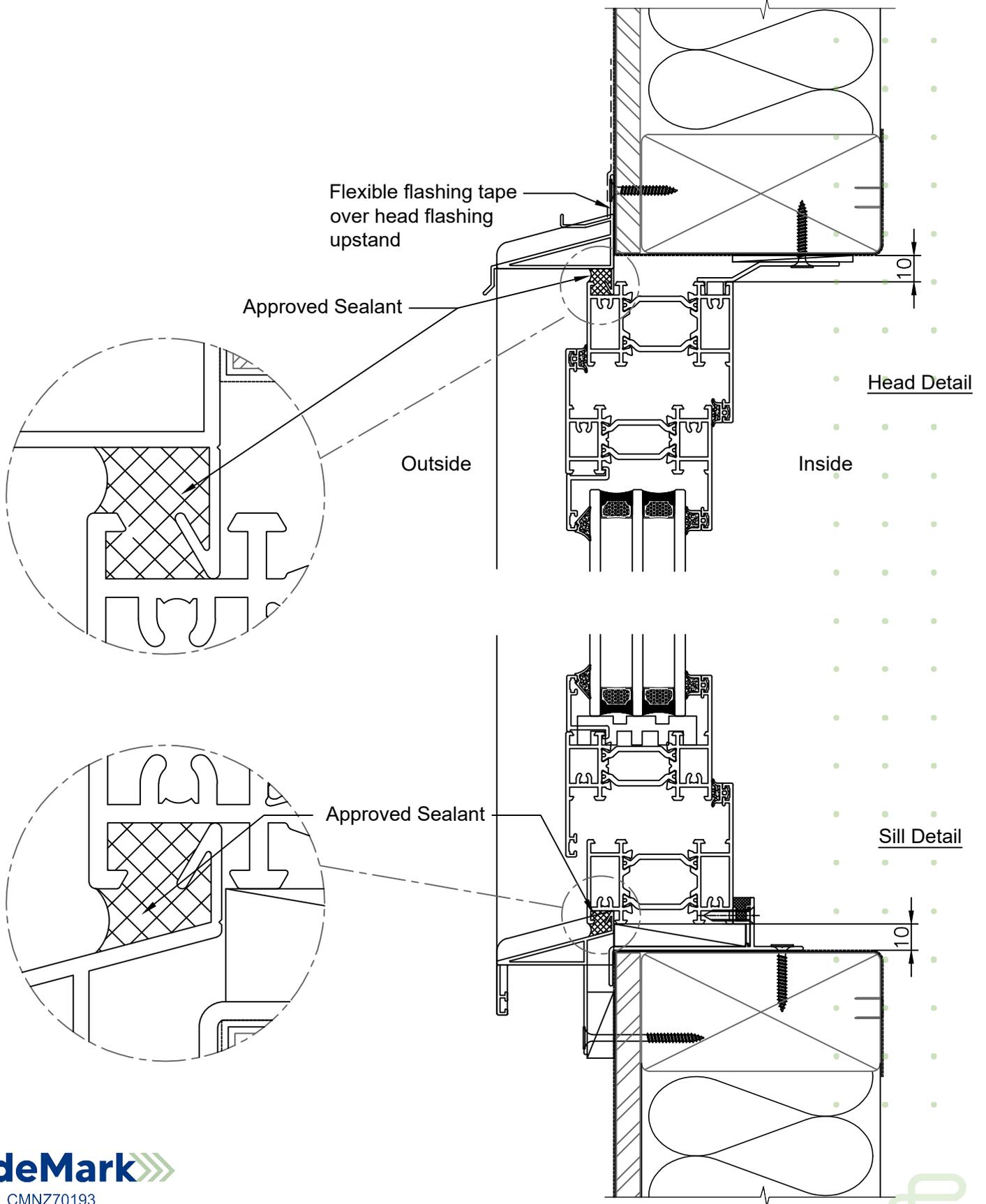
No flashing tape
at the sill !!!



Step 14 Flexible flashing tape

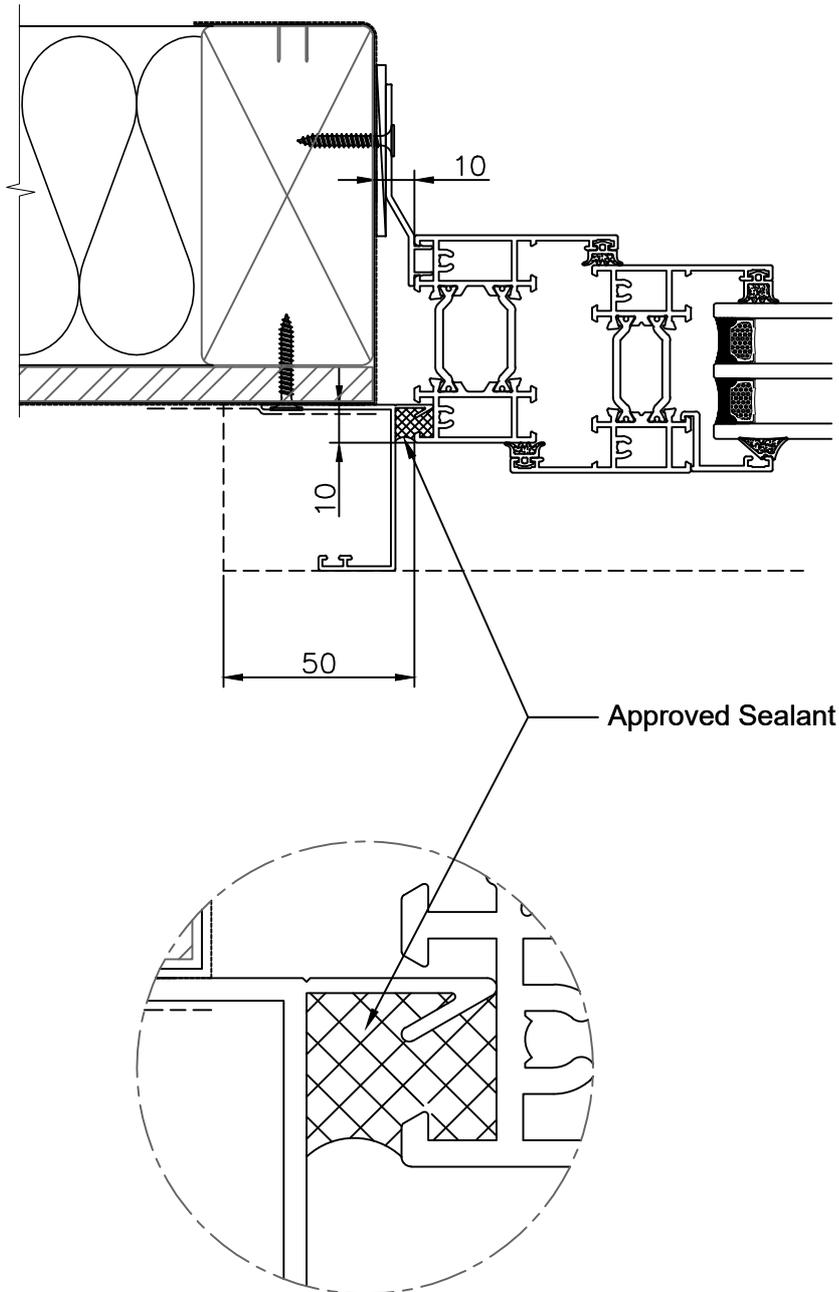
- 14.1 Install approved adhesive tape over the upstand of head and jamb flashings to assist with water diversion. Run past each end of the head flashing by at least 50mm.
No flashing tape at the sill.

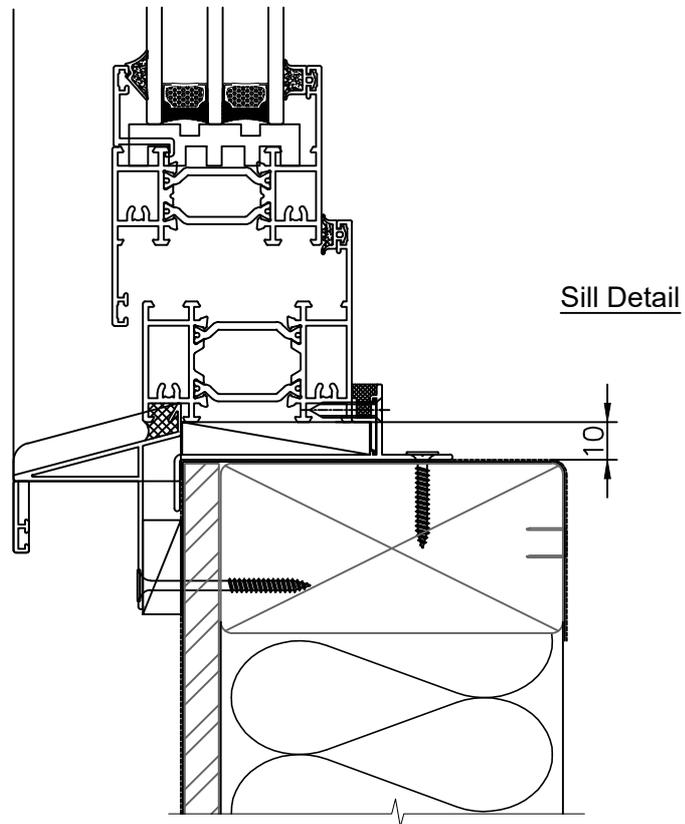
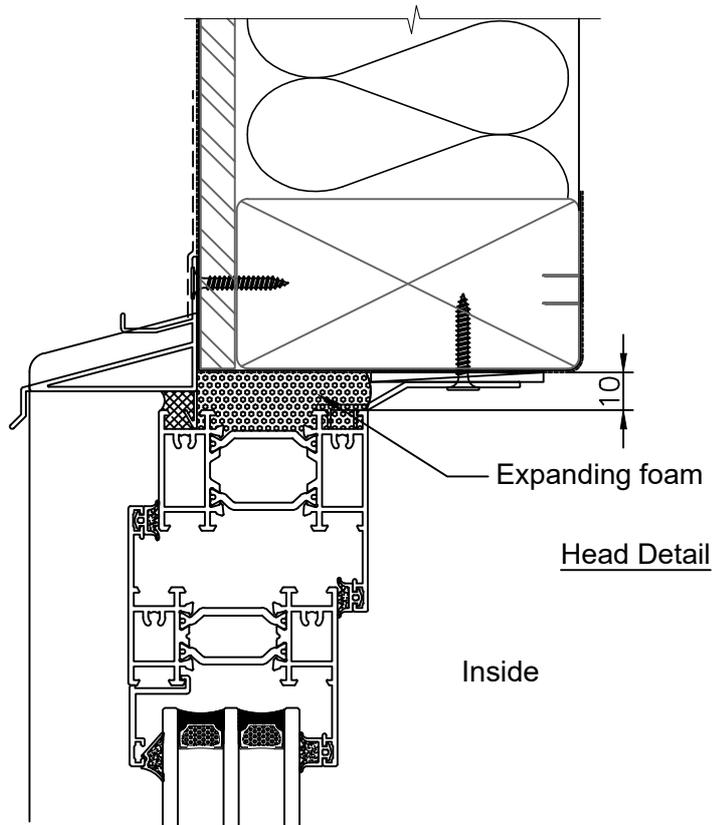




Step 15 Sealant outside

15.1 Seal between head, jamb and sill flashings and joinery with an approved sealant.

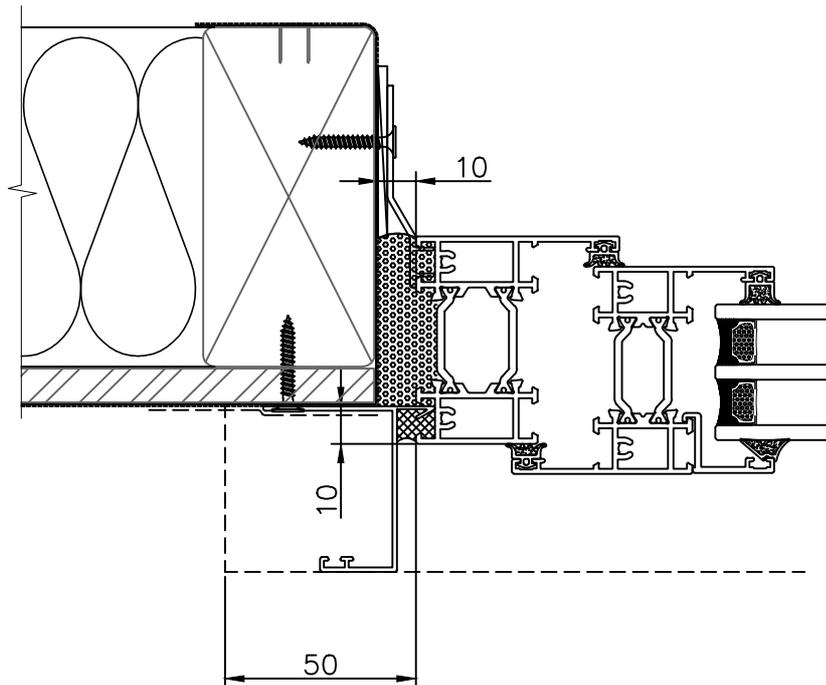


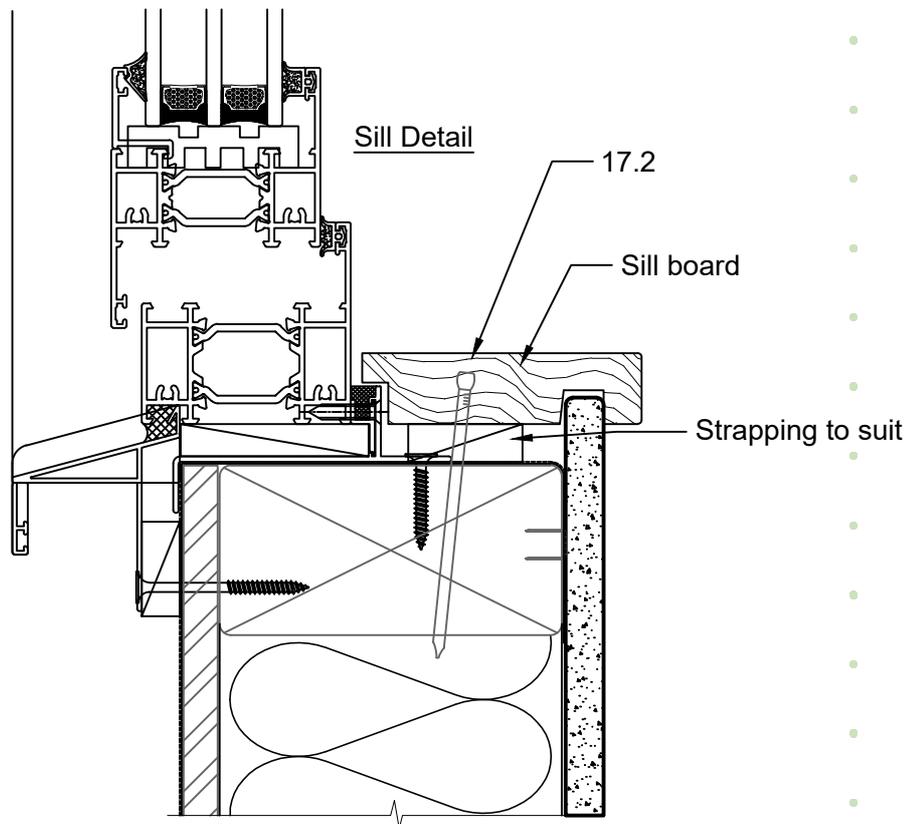
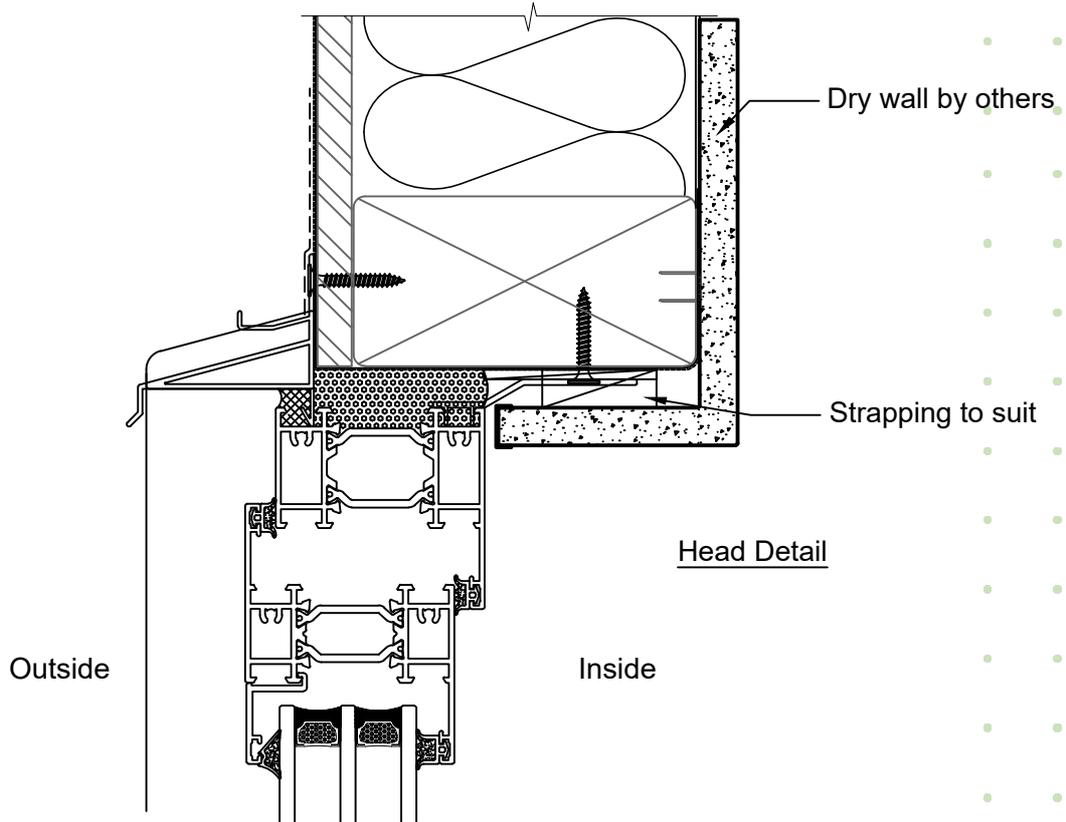


Step 16 Expanding foam

- 16.1 Apply a continuous bead of an approved expanding foam to the interior perimeter of the trim cavity, head and jambs only (see drawing). Run the seal around the inside edge of the trim cavity, ensuring contact with both window framing and House Wrap/Flexible flashings.

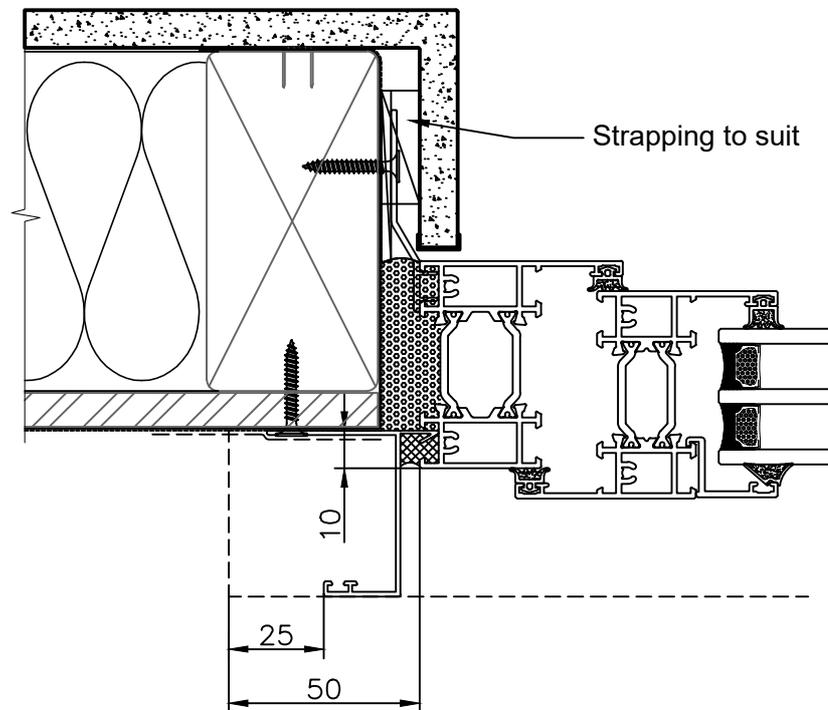
No expanding foam at the sill!





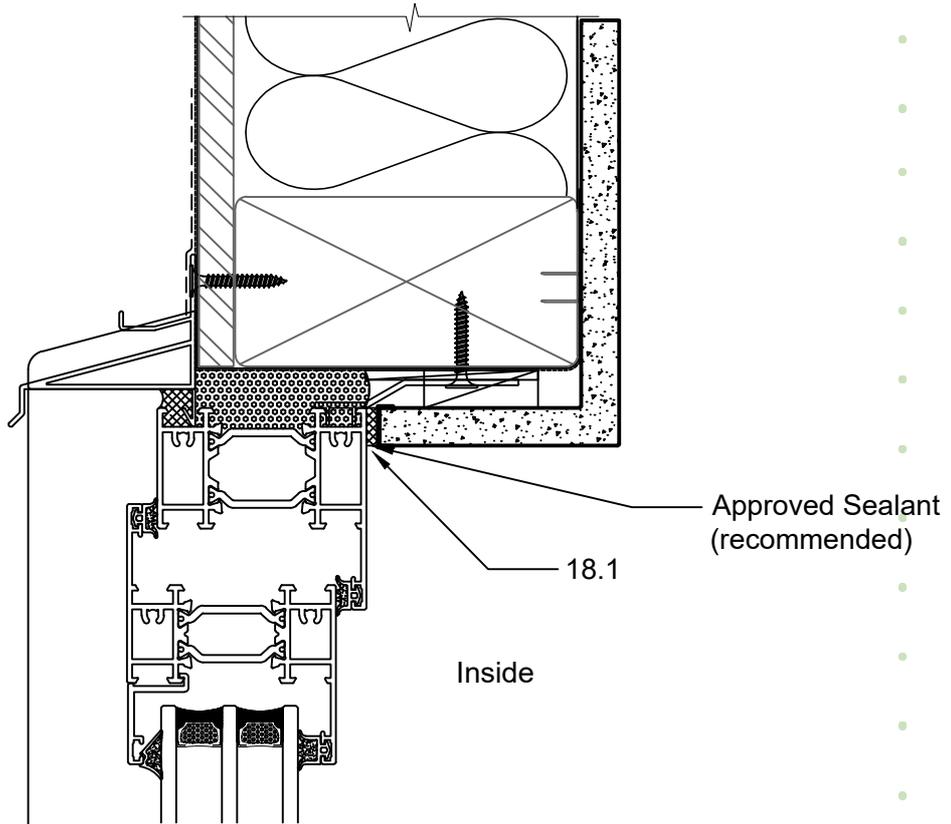
Step 17 Dry wall/Sill board installation

- 17.1 Install the dry wall in accordance with the 'Manufacturers Recommendations'.
- 17.2 Install the sill board (see the drawing below)

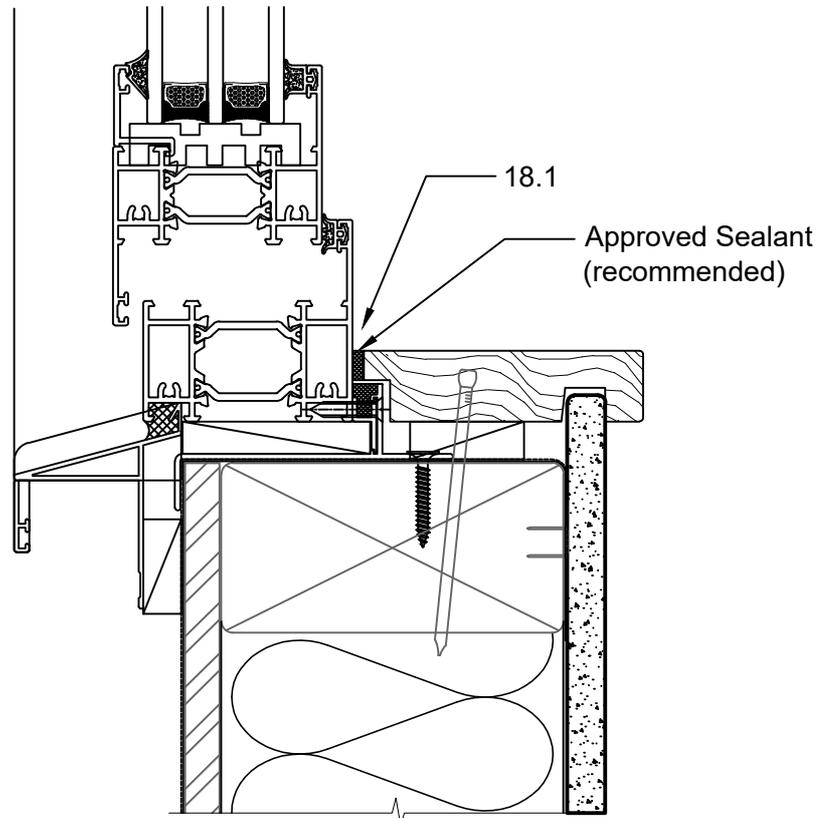


Head Detail

Outside



Sill Detail



Step 18 Movement joint

18.1 Seal between dry wall/sill board and aluminium joinery with an approved sealant (see drawing). - Recommended.

