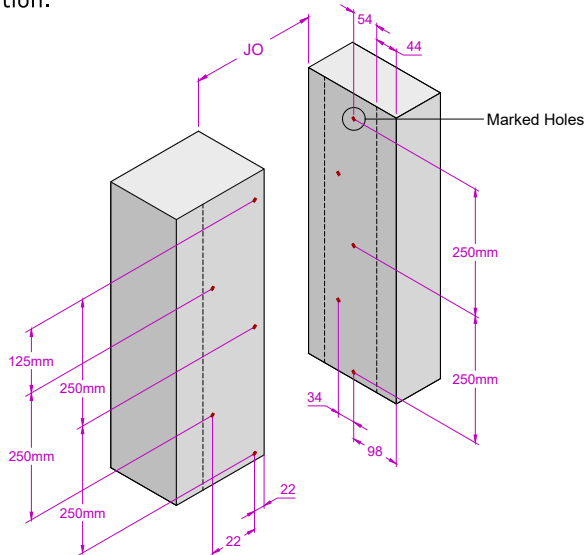


**Note:** Verify that the structural gap is conformance with submittal data before beginning installation. If this is a Fire Rated Assembly, install the fire barrier before the Architectural Joint System. Refer to the fire barrier installations for specific system installation.

**Figure 1 - Preparation**

1. Install the architectural joint system on a level wall surface within the blockout. Ensure the substrate is clean and free of debris, and repair any surface or edge defects prior to installation.

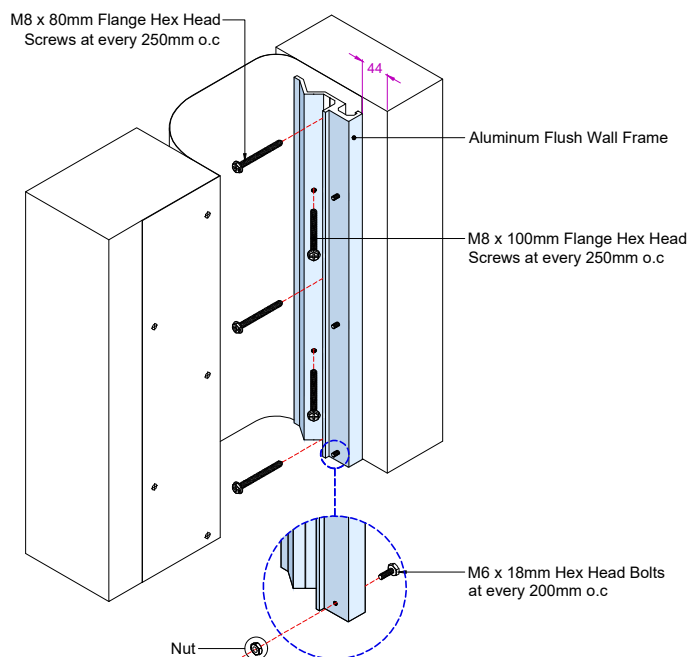


2. Setup and align the marked holes on the substrates in a zigzag pattern, ensuring the maximum spacing between two holes does not exceed 250mm (see illustration).

**Note:** Before drilling any marked holes, carefully check that each marked position lines up precisely with the corresponding pre-drilled holes on all components. Make sure everything is properly aligned to avoid errors during assembly.

**Figure 3 - Flush Wall Frame Installation**

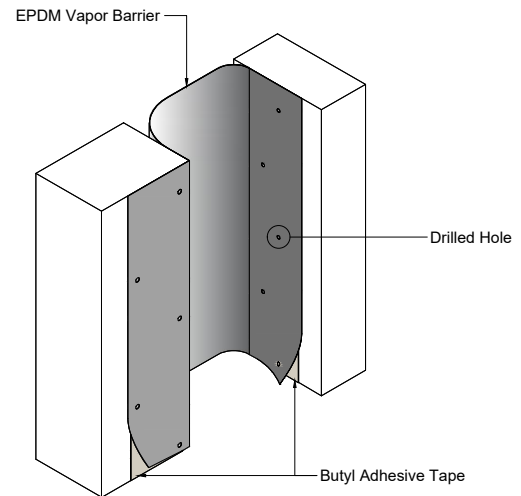
6. Position the aluminum flush wall frame over the installed EPDM vapor barrier and secure it in place using M8 x 80mm hex head screws horizontally and M8 x 100mm hex head screws diagonally in a zigzag pattern (see illustration).



**Note:** Before installing the flush wall frame, insert hex head bolts into each pre-drilled hole located behind the frame channel where the hinges will be fitted later.

**Figure 2 - Vapor barrier Installation**

3. Prior to installing the vapor barrier, clean the substrate thoroughly. Ensure the surface is free of all foreign materials, loose sand, dust, and grease, and that it is clean, hard, solid, straight, and even.



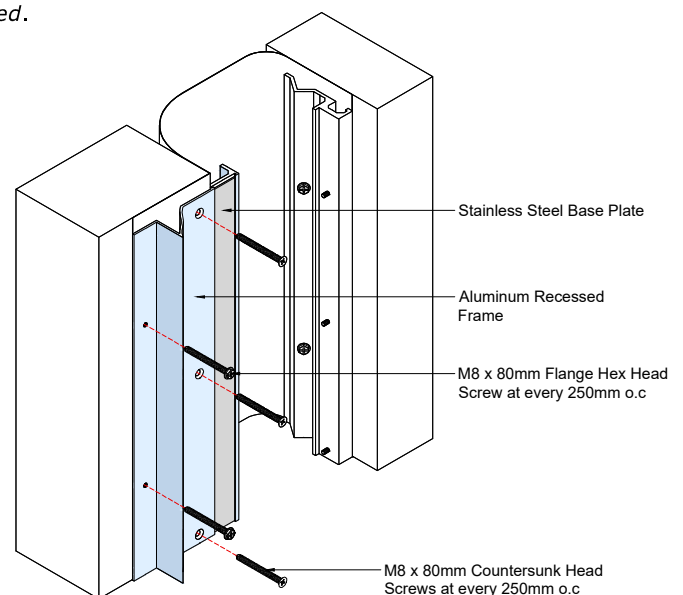
4. Apply butyl adhesive tape to both substrates where the vapor barrier will be installed.

5. Install the Vapor Barrier without stretching, allowing it to curve inward into a "U" shape. Ensure the drilled holes behind remain visible by carefully poking the vapor barrier at each drilled hole on both substrates.

**Figure 4 - Recessed Frame Installation**

7. Place the aluminum Recessed Frame over the installed EPDM vapor barrier and secure it in place using M8 x 80mm hex head screws and M8 x 80mm countersunk head screws in a zigzag pattern (see illustration).

**Note:** Before installing the recessed frame, insert the stainless steel base plate into the channels where the magnets will be fitted.

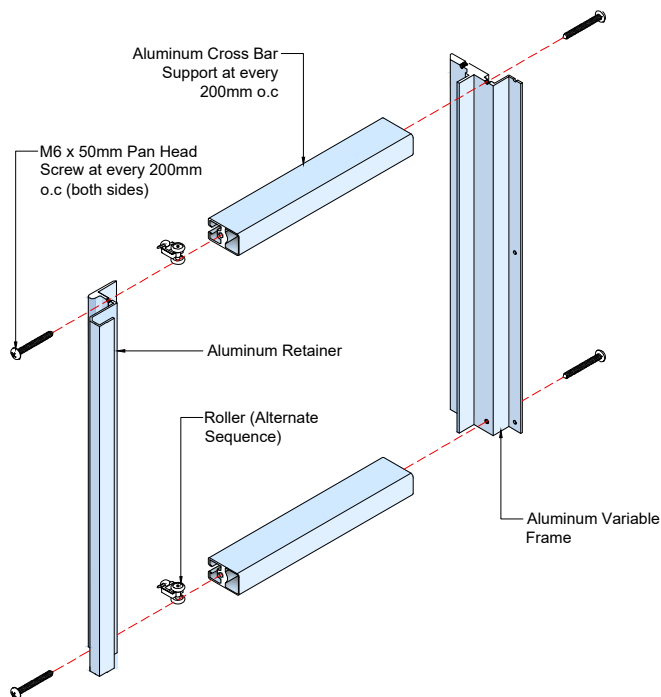


8. For the fixing screws at the inner part of the recessed frame, temporarily leave one set of screws apart at each pre-drilled hole to allow placement of temporary wooden shims, preventing the variable cover from snapping shut during installation (see figure 6).

**Figure 5 - Variable Cover Assembly**

## Step 1

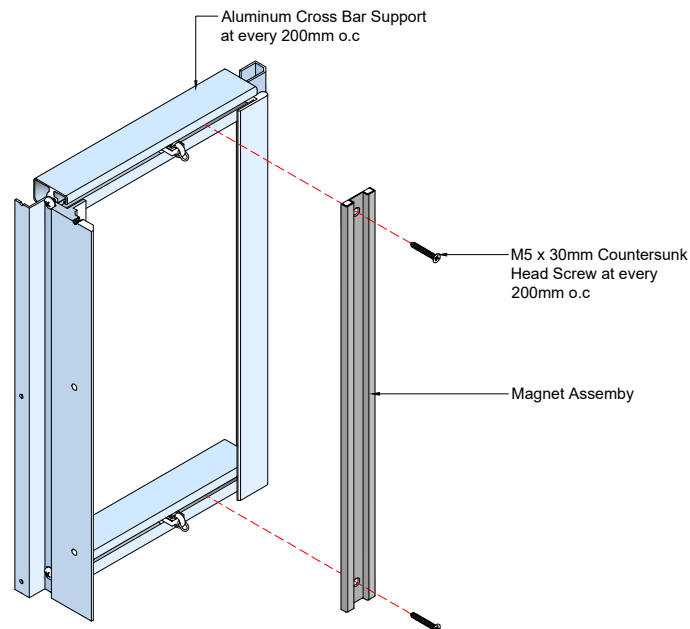
9. Prior to assembly, position each Roller into its corresponding crossbar support channel, ensuring that rollers are installed in an alternating sequence.



10. Assemble the Variable Frame, Crossbars, and Retainer by securing them to both side frames using M6 x 50mm pan head screws. (see illustration).

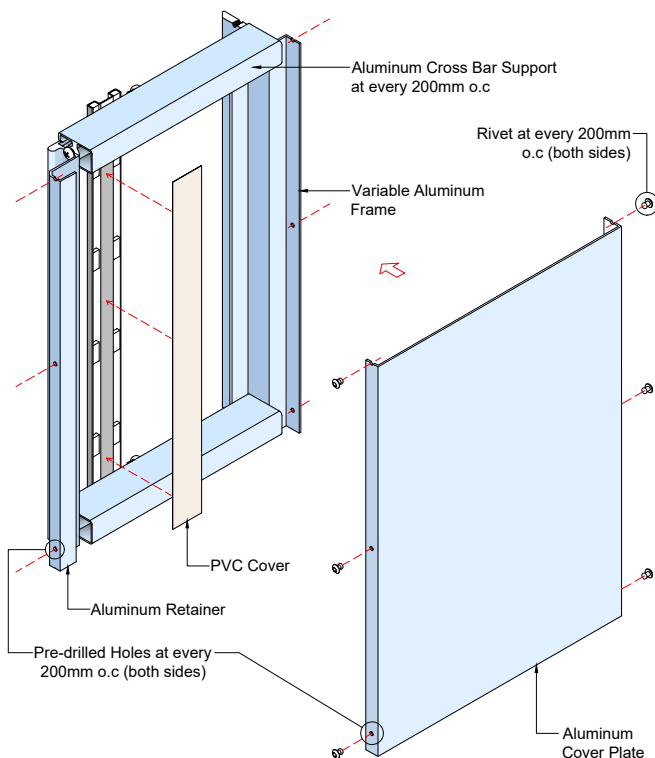
## Step 2

11. Position the **magnet assembly** with stainless steel casing onto the crossbar support behind the variable cover, and fasten it securely using M5 x 30mm countersunk head screws. Ensure the screws are fully tightened. (see illustration).



## Step 3

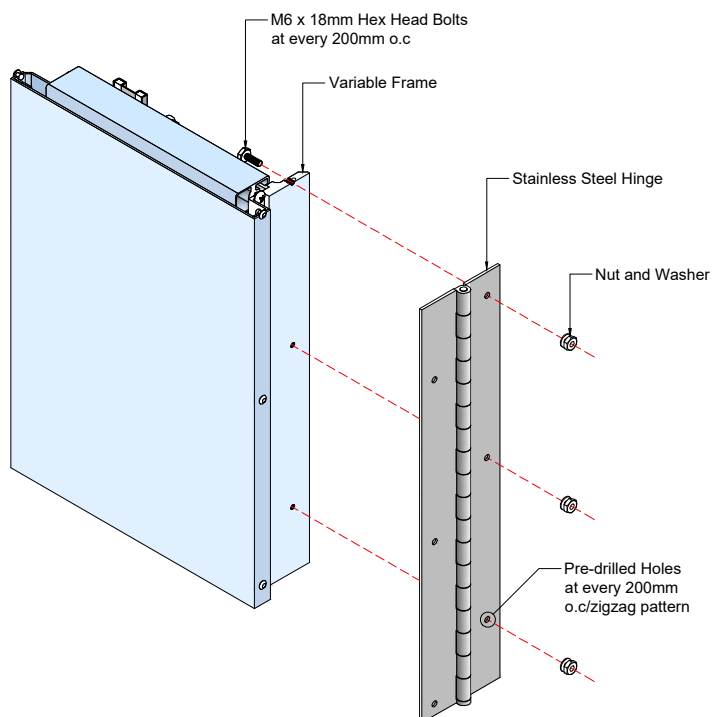
12. Install the PVC cover sheet on the back of the magnet assembly and secure it with adhesive (see illustration).



13. Install the Cover Plate, ensuring that both side angle legs are properly seated onto the variable frame and the retainer. Secure the cover plate in place using rivets. (see illustration).

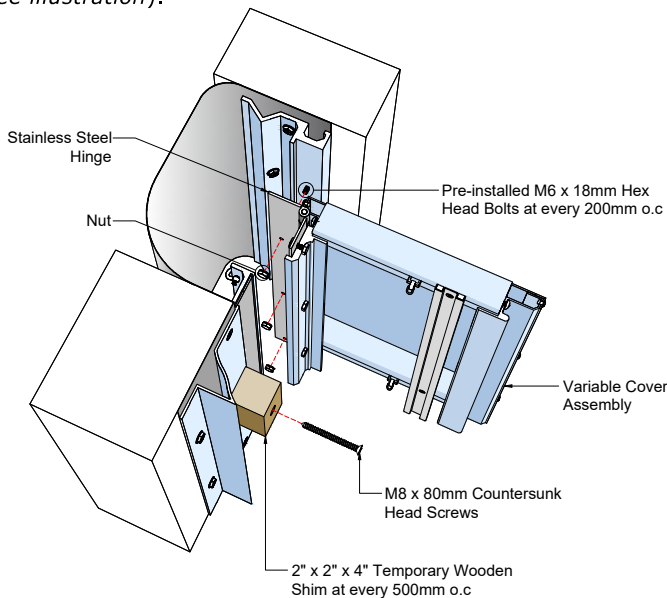
## Step 4

14. Install the Hinge onto the variable cover, aligning it with the pre-drilled holes on the variable frame. Secure it in place using M6 x 18mm hex head bolts and nuts with washer (see illustration).



**Figure 6: Variable Cover Installation**

15. Prior to installing the variable center cover assembly, place the temporary **wooden shims** (2" x 2" x 4") at every 500mm on center to prevent the cover assembly from snapping shut during installation. Ensure the shims are positioned precisely at the fixing locations on the inner side of the recessed frame (see illustration).

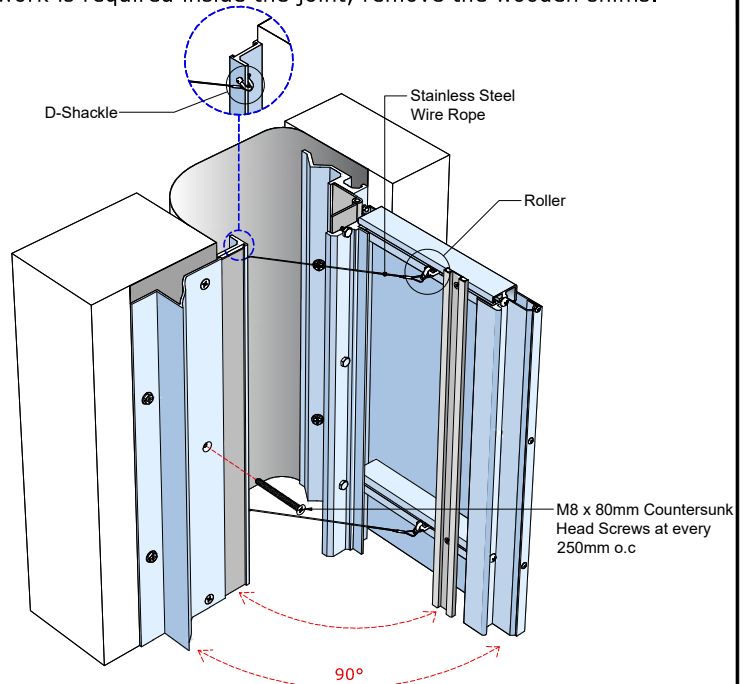


16. Install the Variable Cover Assembly onto the flush wall frame. Attach the opposite side of the hinge to the flush wall frame, aligning it with the pre-installed hex head bolts, then tighten each nut to secure the variable cover assembly in place.

**Figure 7: D-Shackle and Wire Rope Installation**

17. Open the variable cover to a max. 90° position. Install a **D-shackle** into each pre-drilled hole behind the cantilever of the recessed frame. Secure the stainless steel wire rope to both the D-shackle and the roller.

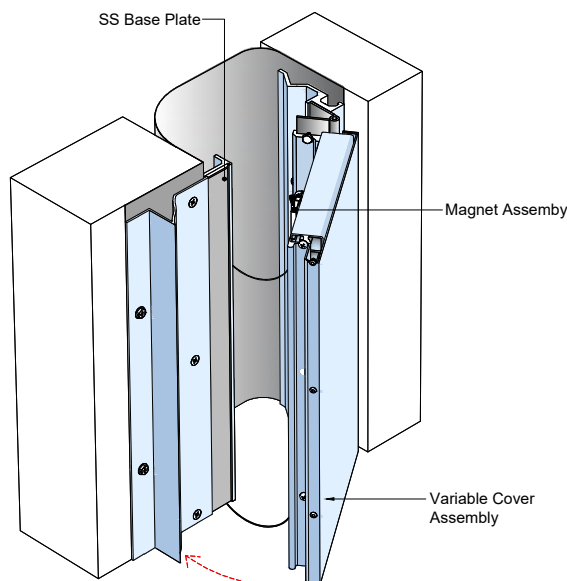
18. After all components have been installed and no further work is required inside the joint, remove the wooden shims.



19. Complete the installation of the recessed frame by securing it with countersunk head screws at the locations where the temporary wooden shims were removed.

**Figure 8: Variable Cover**

20. Slowly close the variable cover, allowing it to gently shut so that the magnets engage properly with the base plate.



**Warning:** The system magnet is extremely powerful and can cause the cover to snap shut unexpectedly, posing a serious risk of injury to installers. Handle the cover with care during installation and closing. Do not allow the variable cover to slam shut.

**Figure 9: Installation Completed**

21. install the infill material (*by others*) and clean the exposed surfaces with non-solvent cleaner. Installation is complete.

