

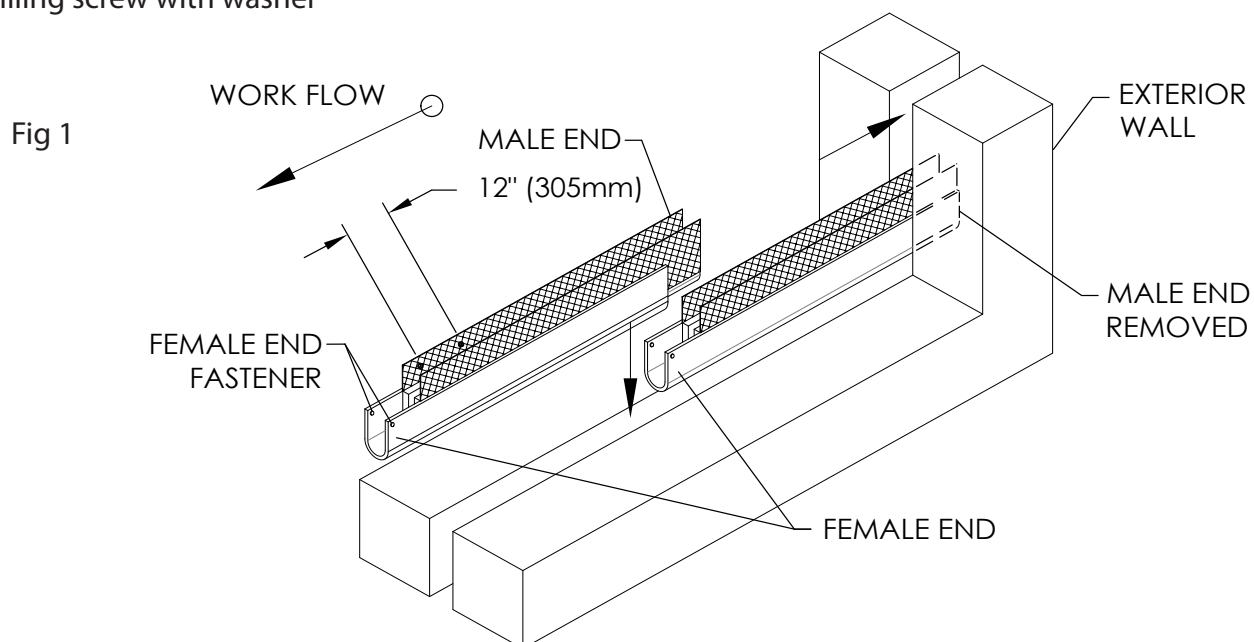
STORE AND INSTALL BLANKETS SUCH THAT THE PRODUCT REMAINS DRY.

NOTES:

1. Verify that the structural gap and blackout dimensions are in conformance with submittal data before beginning installation. Certification of this product was completed by Guardian and Intertek Testing Laboratories. Product must be installed in accordance with these Installation Instructions.
2. For vertical (wall) installations, for single sided and double sided blankets available. For single sided product, ensure drape of blanket faces "potential threat" side of wall.
3. If job site specific conditions exist, these general installation instructions do not take place of an Engineering Evaluation if required. Any modifications made to the product without documented manufacturing direction will void the warranty.
4. The Fire Barrier is delivered pre-assembled. Transitions/directional changes must be installed first.

Figure 1- General Installation Workflow

1. Place the fire barrier into the expansion joint, it has a 12" (305mm) overlap at each end. One end is the male and the other is the female. Always secure the female with fasteners in each upper corner as depicted.
2. On the first section remove the male end and slide it into the wall. Install the next section, nesting the male into the female end tightly and secure with hardware appropriate to the substrate.
3. Flanges are expanded metal. Ensure flanges are pressed tight and held flat to the substrate.
4. Utilize hardware appropriate to the substrate (supplied by others) with a maximum spacing of 12" (305mm) O.C. Examples of hardware for various conditions are:
 - Floor- Min. Hilti #27 pin with washer x 1 1/4" (32mm) or 1/4" (6mm) x 1 1/4" (32mm) concrete/ wood screw with washer
 - Wall- Hilti #27 pin with washer x 1 1/4" (32mm) or Min 1/4" (6mm) x 1 1/4" (32mm) concrete/ self drilling screw with washer



5. Begin by installing the female-ended transition.
6. Secure each 12" (305mm) flange into place with hardware appropriate to the substrate.
7. Continue fire barrier installation per Fig. 1.

Fig 2

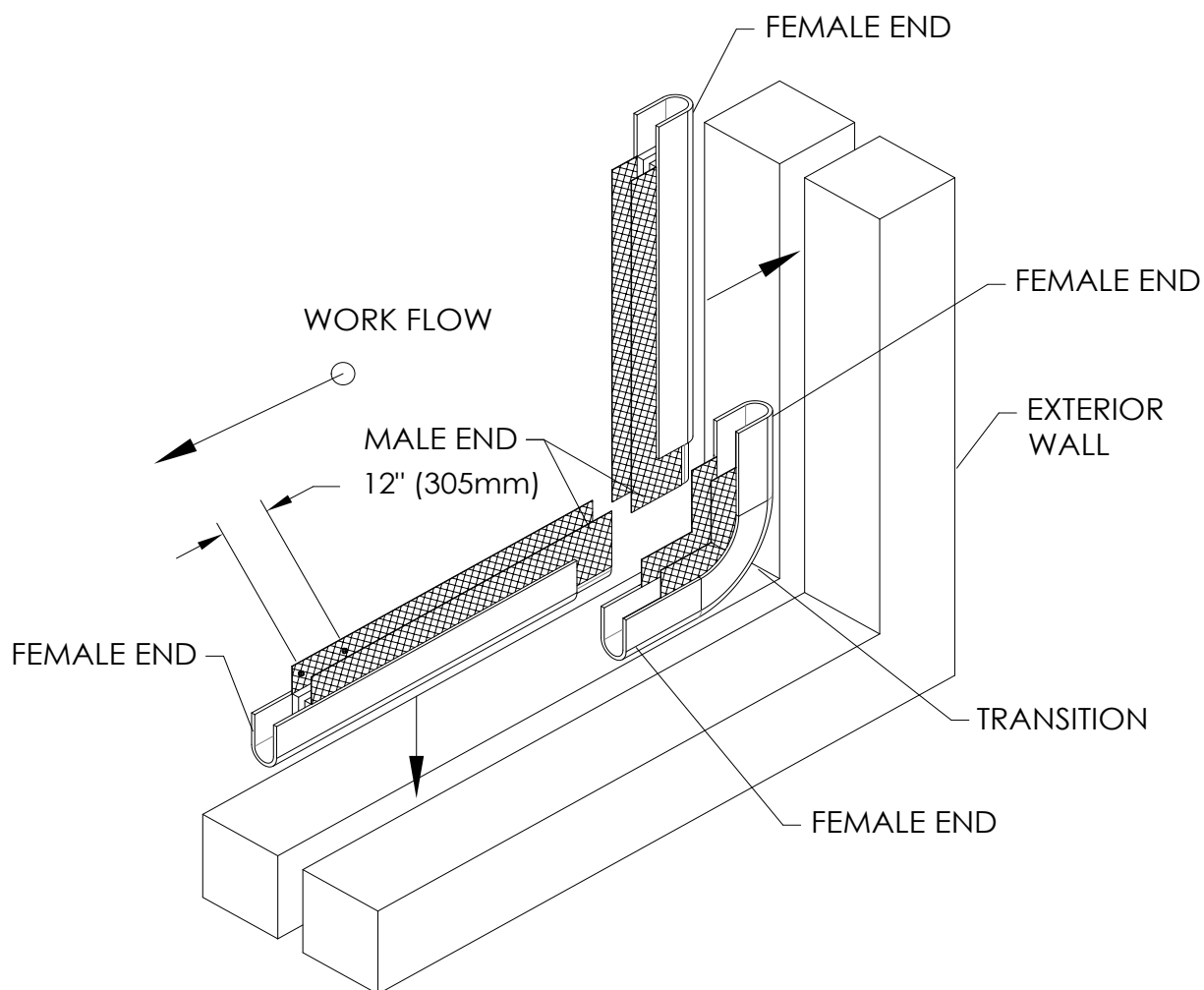


Figure 3- Intersection

8. Remove the male end of the verticle fire barrier.
9. Next measure the depth of (Dim A) and the inside bellows (Dim B). Cut a "V" shape to match the space within the blanket.
10. Install the modified end into the throat of the floor and insert the fire barrier into the wall. Be sure there are no voids between the two. Fire caulk at connection point to ensure no air gap exists.

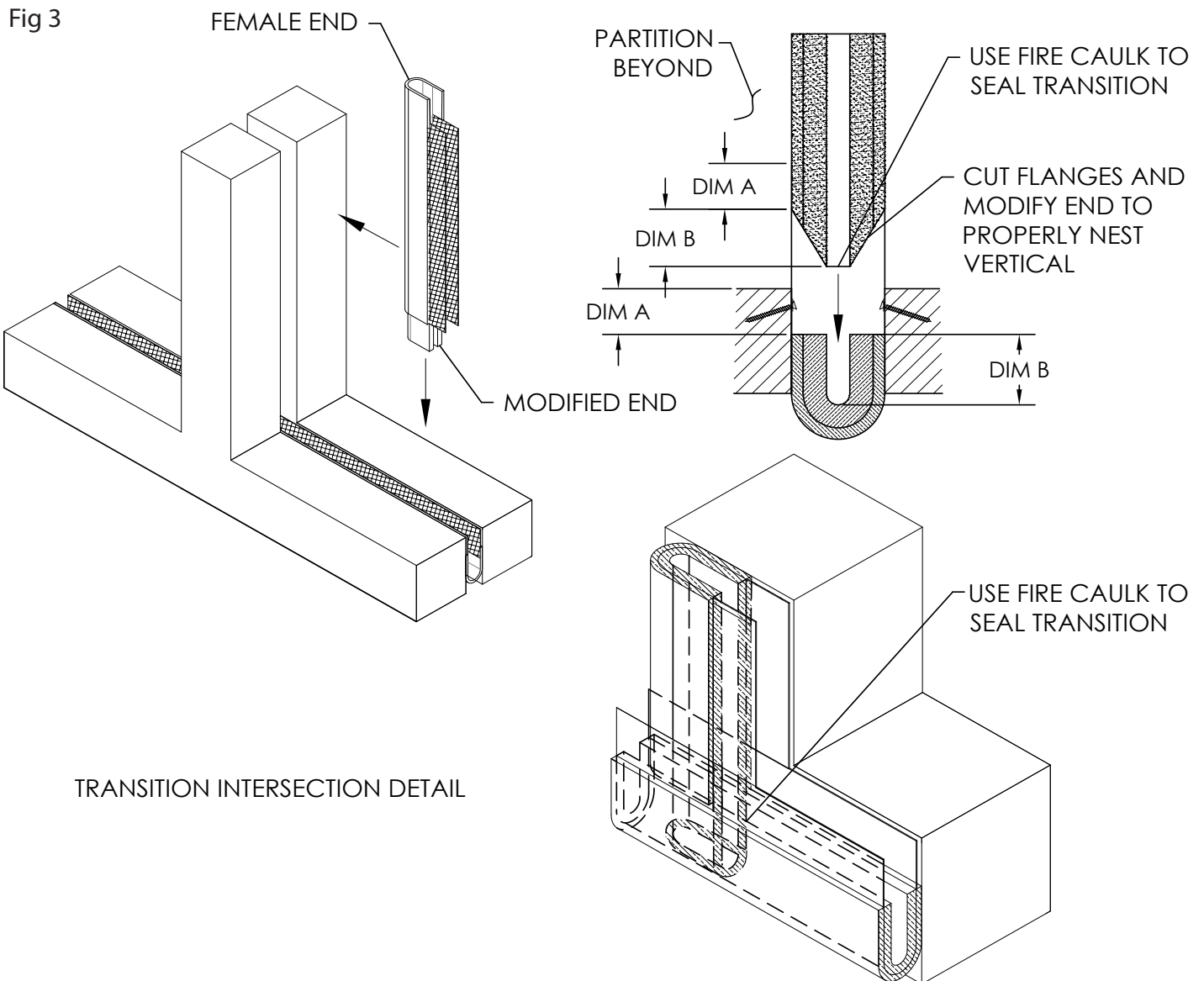


Figure 4- Field Specific Lengths At Transitions Connections Work Flow

11. Secure the transition in place first.
12. In the event a project requires a specific length, a female end can be recreated in the field to facilitate the next male end connection.
13. Measure the needed length from the edge of the flange to the other edge of the flange. Mark it on both sides.
14. Measure back 12" (305mm), using a razor remove the inside layer of white blanket material exposing the flanges (see Fig 4a). Remove the pins and cut the flanges off. The 1/2" (13mm) thick outer fire blanket will remain with the section.
15. In the female end install the 4 new pins/washers and bend the pins over.
16. Nest the 24" (610mm) male end into both female ends and fasten.

Fig 4

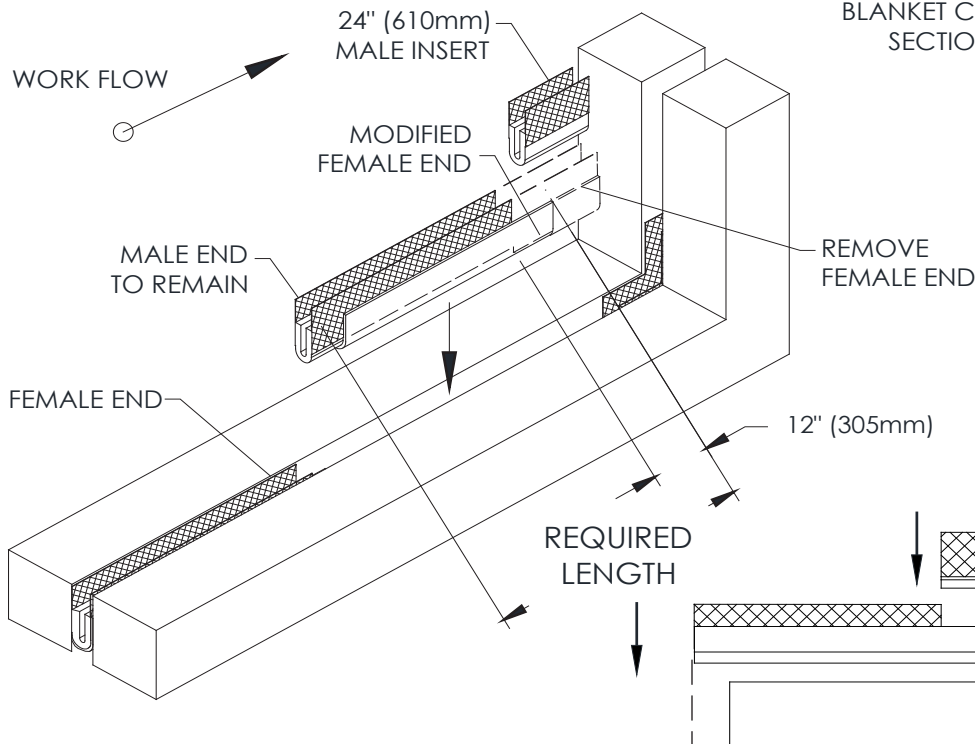


Fig 4a

BLANKET CROSS SECTION

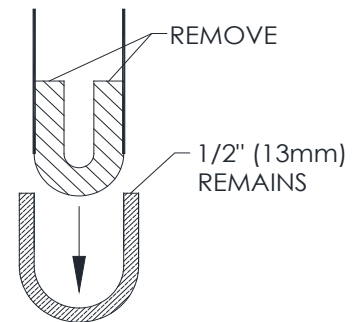


Fig 4b

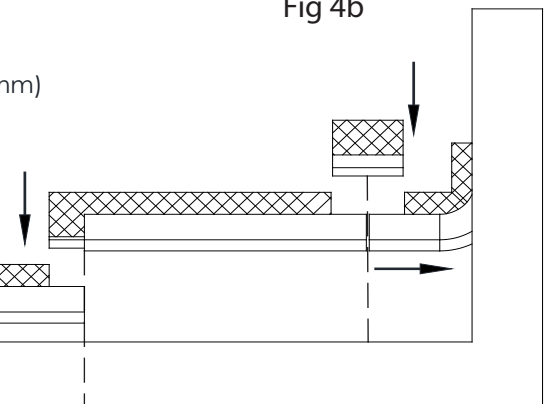
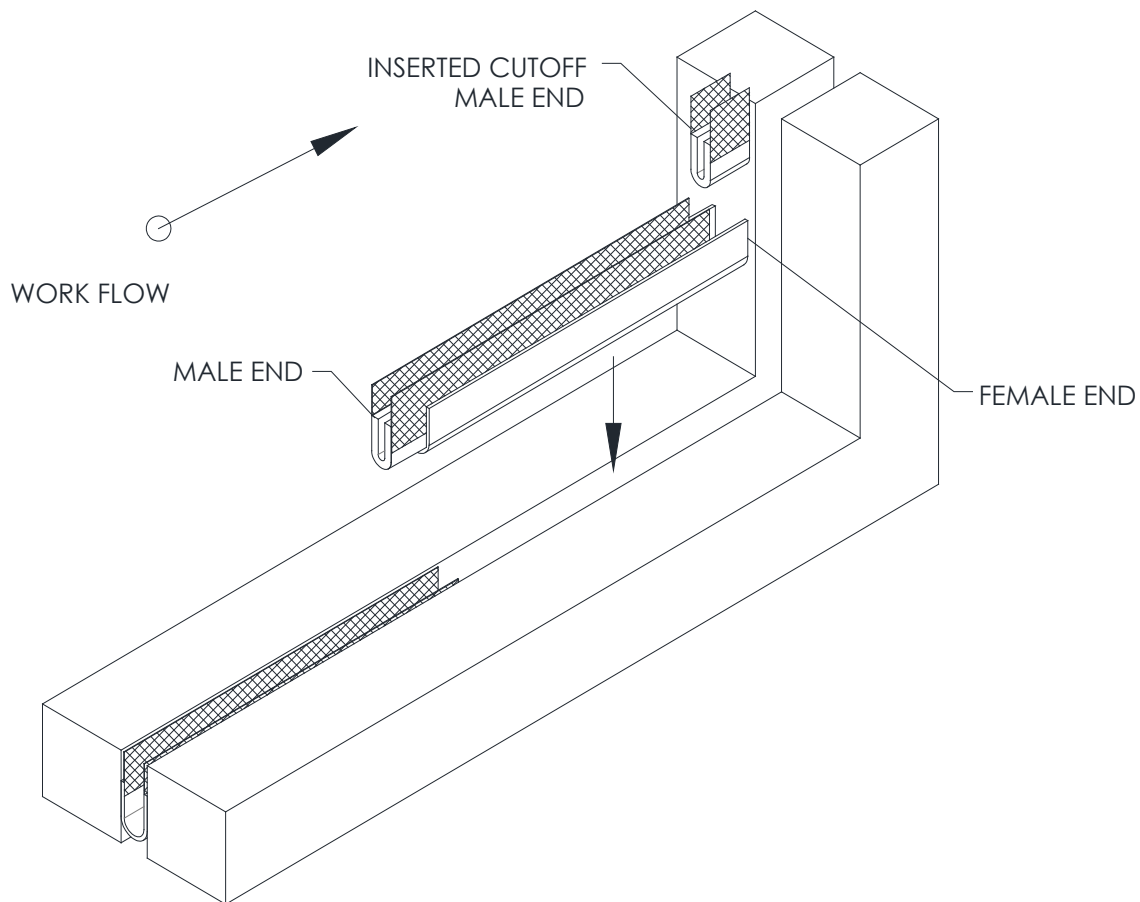


Figure 5- Field conditions of whole fire blanket lengths Work Flow - increments 10' (3.1m)

17. In these conditions you must remove the first male end and use it in the last female end.
18. Remove the pins and cut the fire blanket in line with the edge of the flange. Set male end aside for later installation.
19. Install all the sections except for the last one.
20. Take the male end that is set aside and nest into the last female end.
21. Install the new pins/washers and bend the pins over.

Fig 5



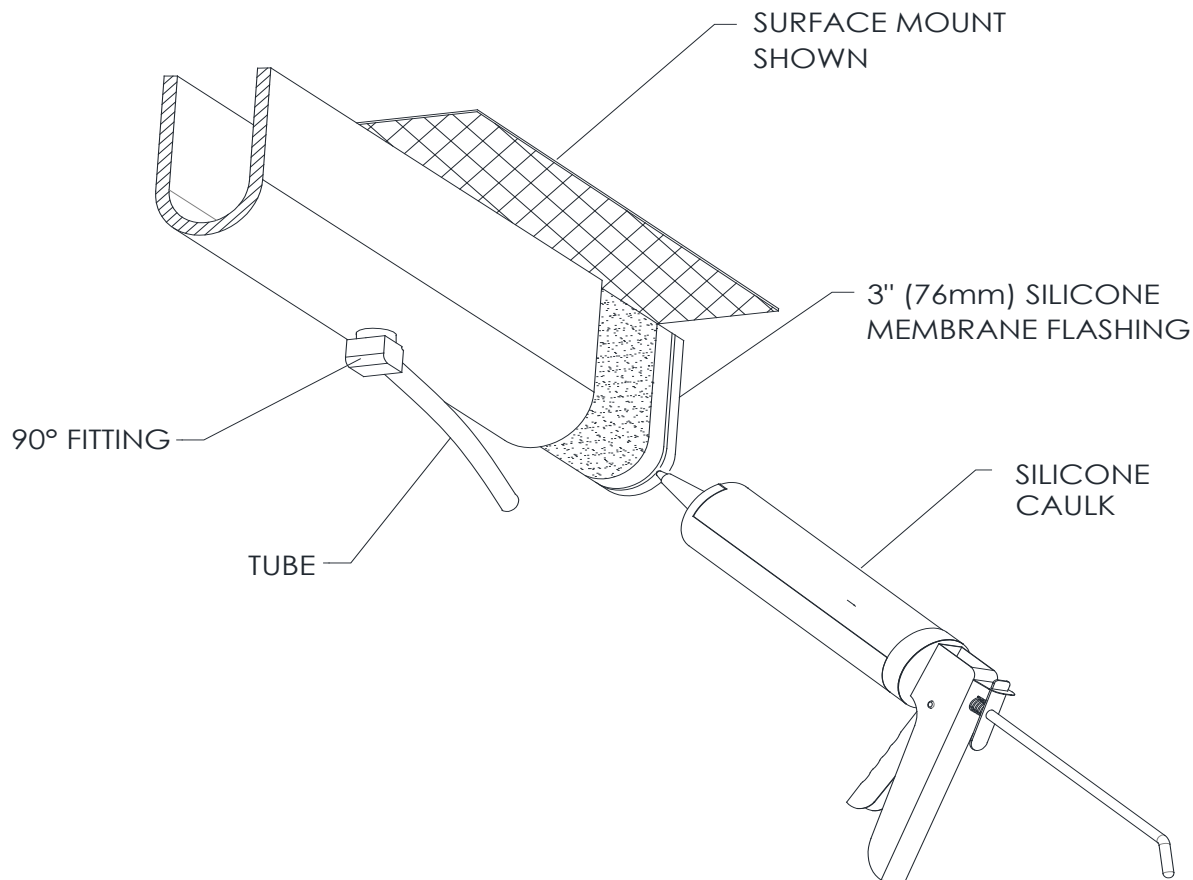
Fire Barrier Waterguard with Optional Drain

Figure 6

22. Waterguard has preattached, solid galvanized sheetmetal flanges and comes in 4' (1.2m) sections. One end is the male and the other is the female end. Installation procedures are consistent with the standard Fire Barrier. One additional step exists is the overlap and sealing of the silicone membranes. The 3" (76mm) long silicone membrane that will get caulked 1" (25mm) from the end on to the next section. Caulk tubes are provided by JointMaster.

23. The optional drain is 1/4" (6mm) every 30' (9144mm). There is 90 degree fitting with a 3/8" (9.5mm) ID x 8" (203mm) long tube attached. The customer is responsible for drain attachment to existing plumbing..

Fig 6



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Fig 1

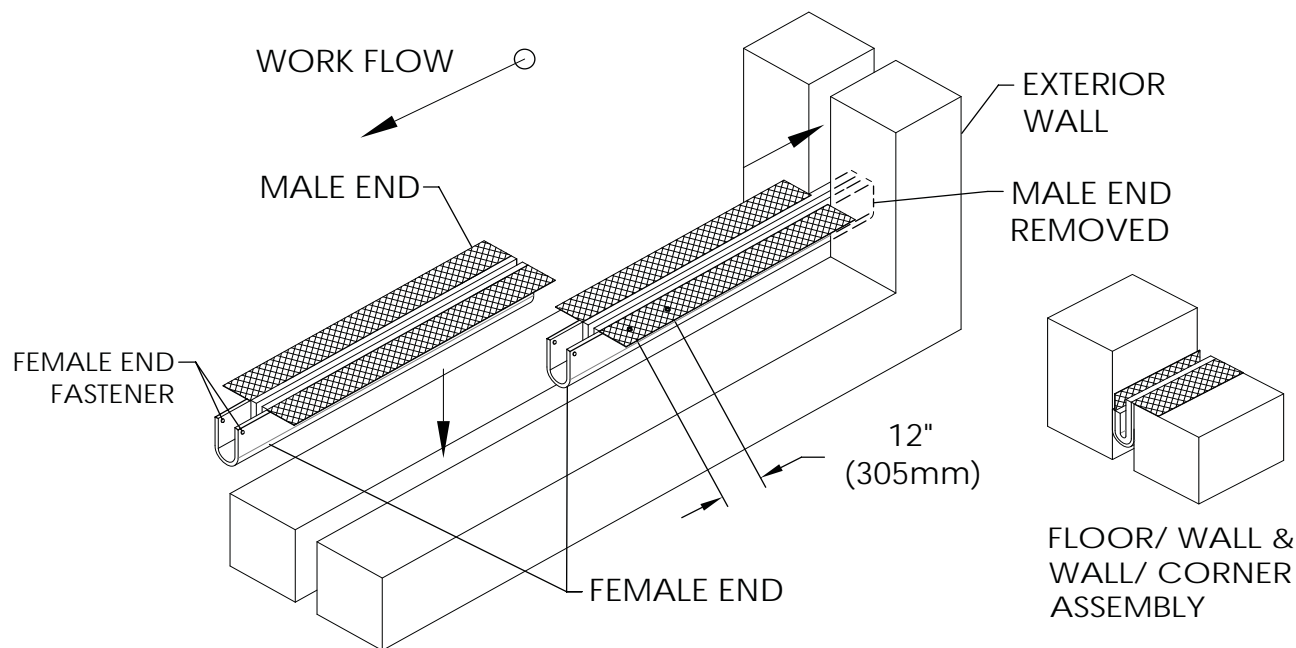


Figure 2- Transition Installation Workflow

5. Begin by installing the female-ended transition.
6. Secure each 12" (305mm) flange into place with hardware appropriate to the substrate.
7. Continue fire barrier installation per Fig. 1.

Fig 2

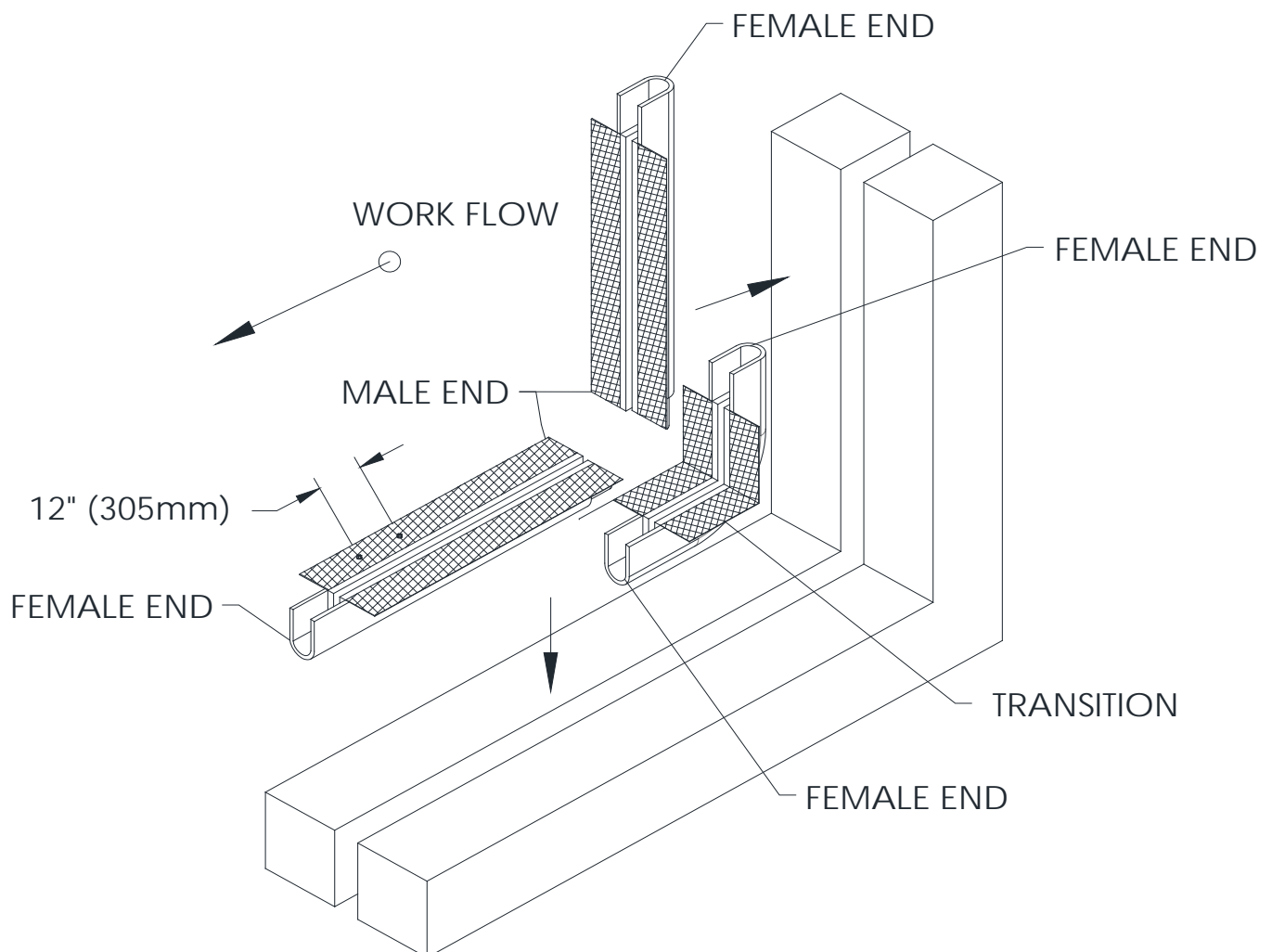


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Fig 3

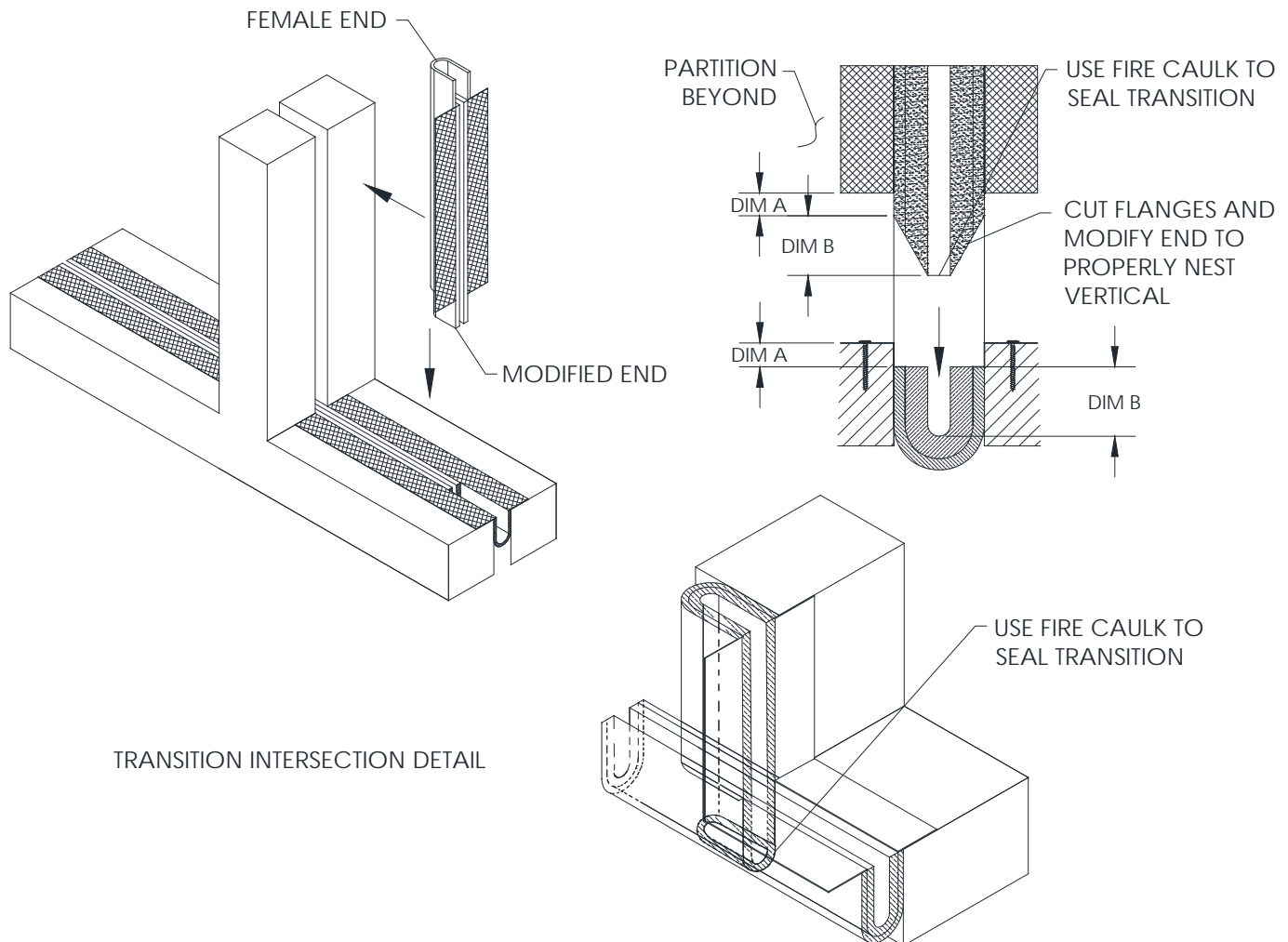


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Fig 4

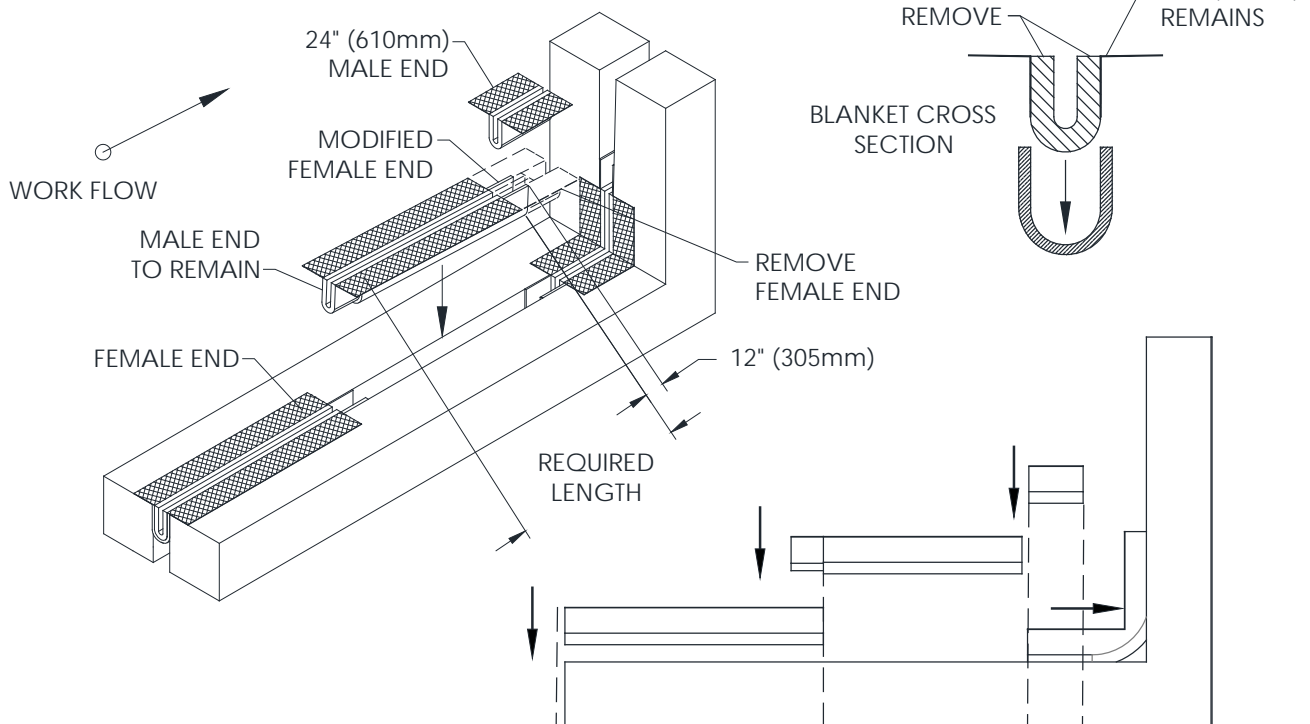
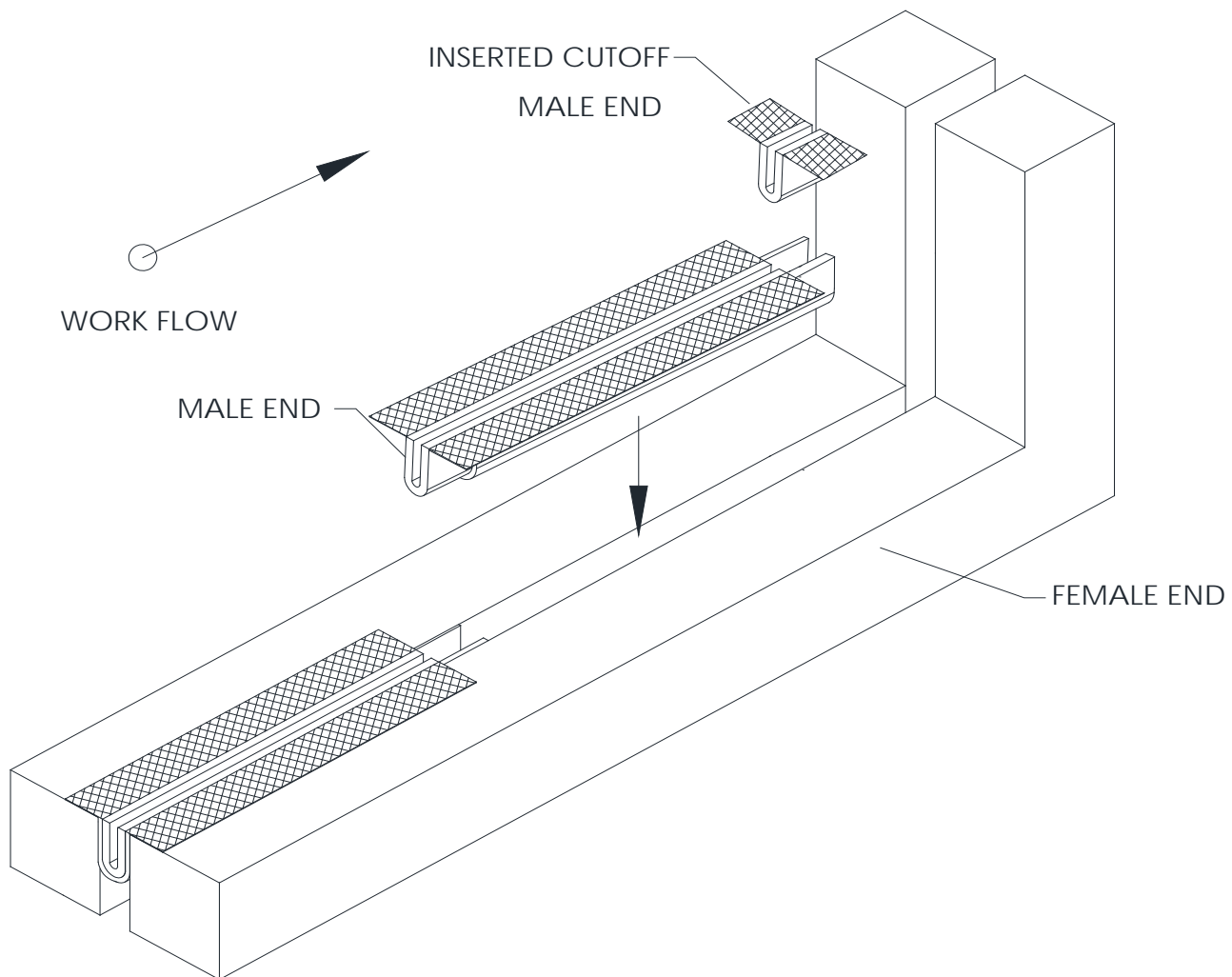


Fig 4b

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Fig 5



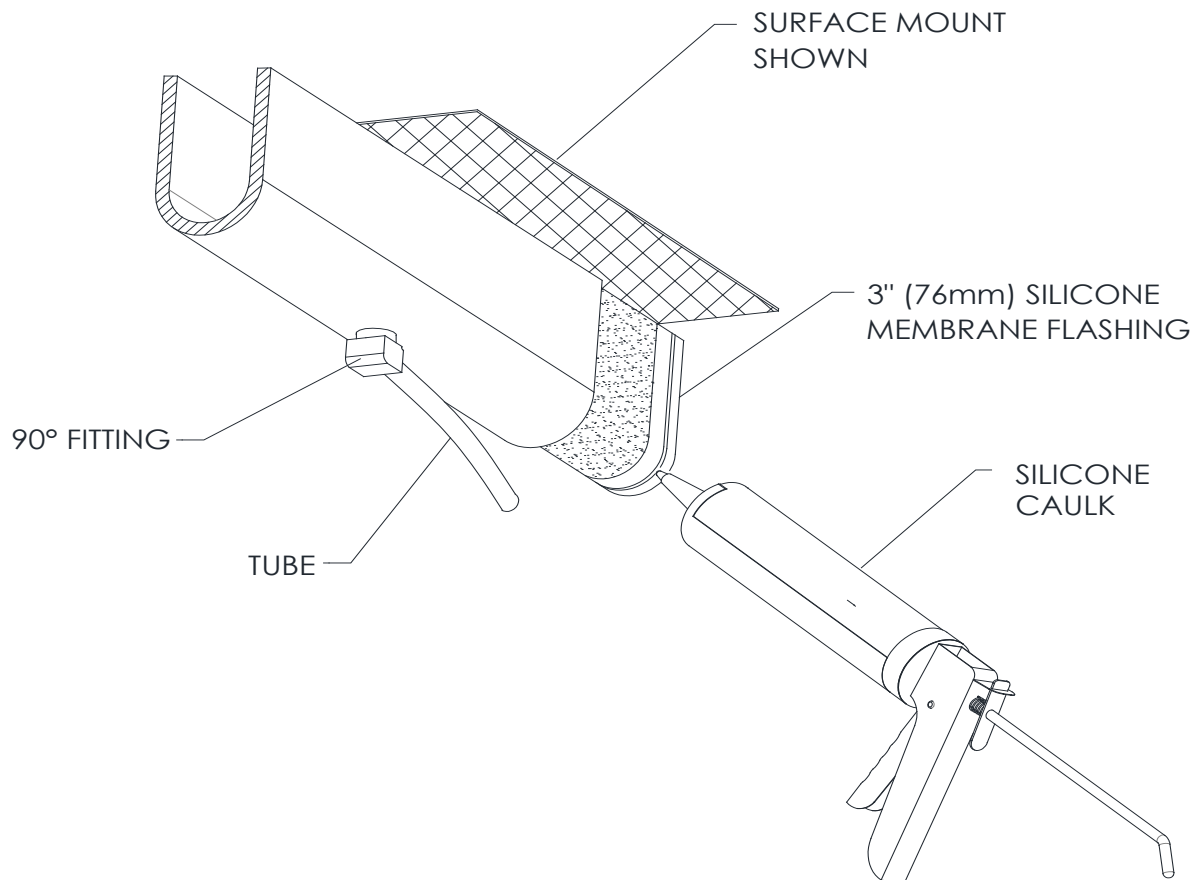
Fire Barrier Waterguard with Optional Drain

Figure 6

22. Waterguard has preattached, solid galvanized sheetmetal flanges and comes in 4' (1.2m) sections. One end is the male and the other is the female end. Installation procedures are consistent with the standard Fire Barrier. One additional step exists is the overlap and sealing of the silicone membranes. The 3" (76mm) long silicone membrane that will get caulked 1" (25mm) from the end on to the next section. Caulk tubes are provided by JointMaster.

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Figure 1

- ① Remove the female end to create a butt end. Start at the outside wall with the butt end. Measure the depth of the wall to the back of the exterior cover, and cut the flange on the butt end that distance. Insert the end into the wall up to the exterior expansion cover. The standard F520 Fire Barrier has 12" (305mm) overlap at each end. One end is the male and the other is the female. Sections are 10' (3.05m) long.
- ② Install the next section, nesting the female on to the male end tightly.
3. If the exterior wall is fire rated reference figure 1a vertical wall fire barrier instructions.
4. Complete the install by installing all the female to female transitions.

Figure 1a

5. When you reach an interior wall measure the distance from the edge of the wall to the edge of the flange. Mark that distance on the flange of the next section of fire barrier. Measure the depth of the wall and trim the flanges that distance from the mark.
6. Slide the fire barrier thru the wall to the section of fire barrier. The trimmed flanges must line up with the wall.
7. If the wall is fire rated you must use a vertical butt end up to the bottom mount fire barrier.
8. Apply 3M CP25 Fire Caulk to the edge of the vertical butt end. Press tight to the bottom mount fire barrier. Be sure there are no voids between the two.

Figure 2 & 2a

9. Flanges are expanded metal. Ensure flanges are pressed tight and held flat to the substrate.
10. Utilize hardware appropriate to the substrate (supplied by others) with a maximum spacing of 12" (305mm) O.C. Examples of hardware for various conditions are:
 - Floor- Hilti #27 pin or Min 1/4" (6mm) concrete/ wood screw with washer
 - Wall- Hilti #27 pin or Min 1/4" (6mm) concrete/ self drilling screw with washer

Fire Barrier Bottom Mount - 07 84 00
EJ-FLF | EJ-FLF/W | EJ-FLW

Fig 1

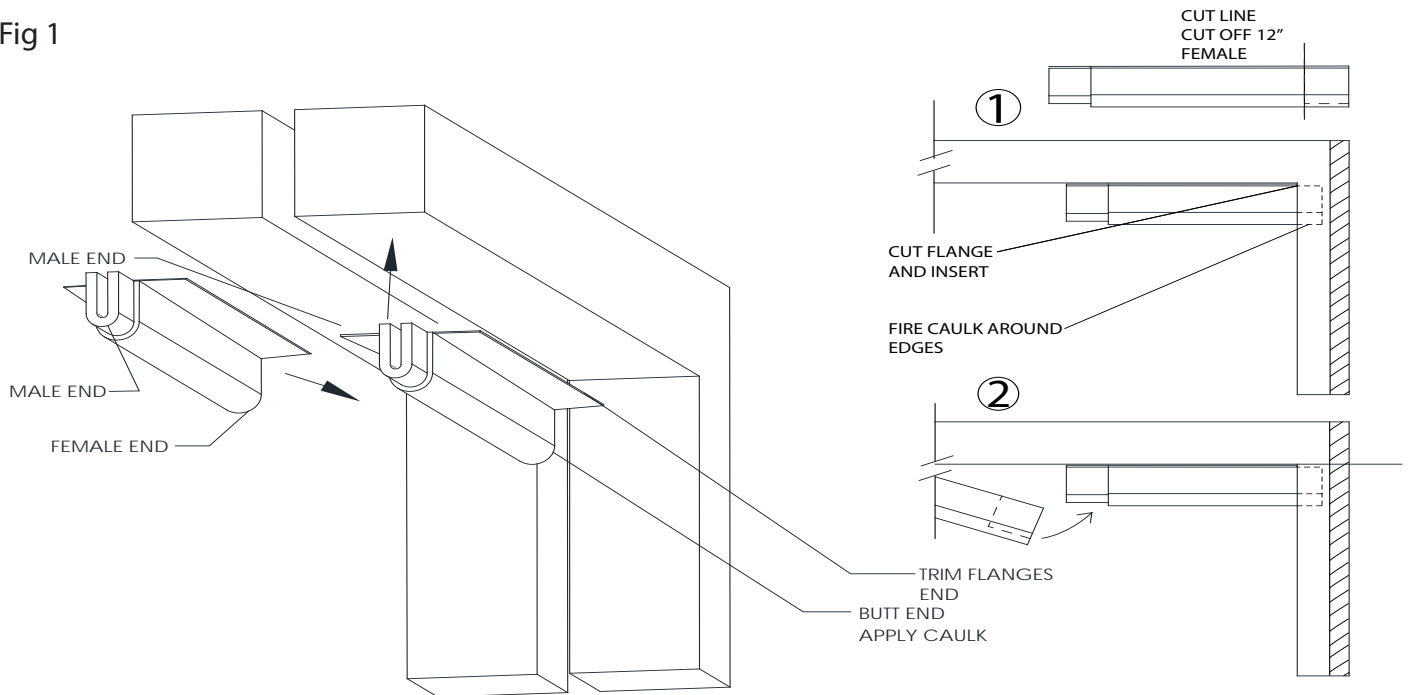
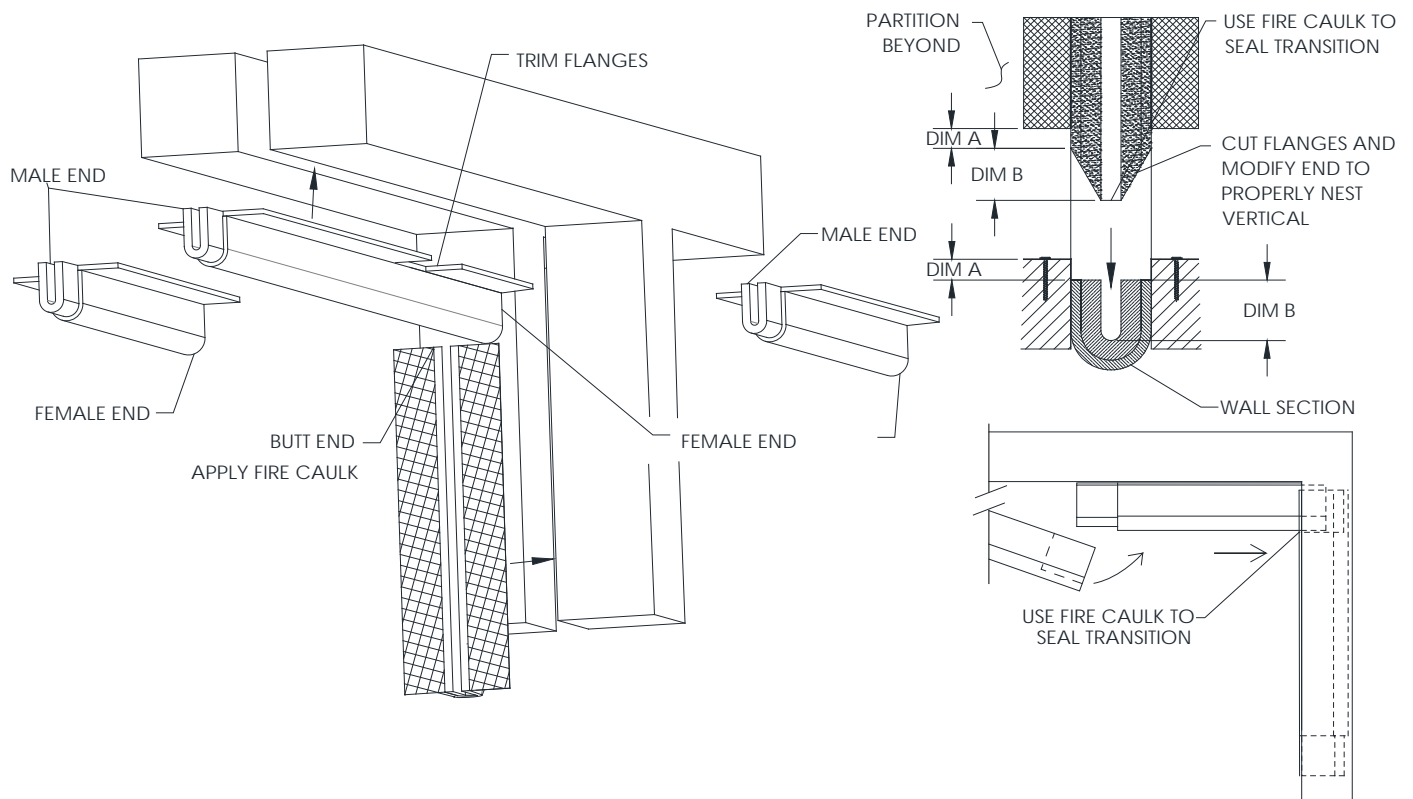


Fig 1a



Fire Barrier Bottom Mount - 07 84 00
EJ-FLF | EJ-FLF/W | EJ-FLW

Fig 2

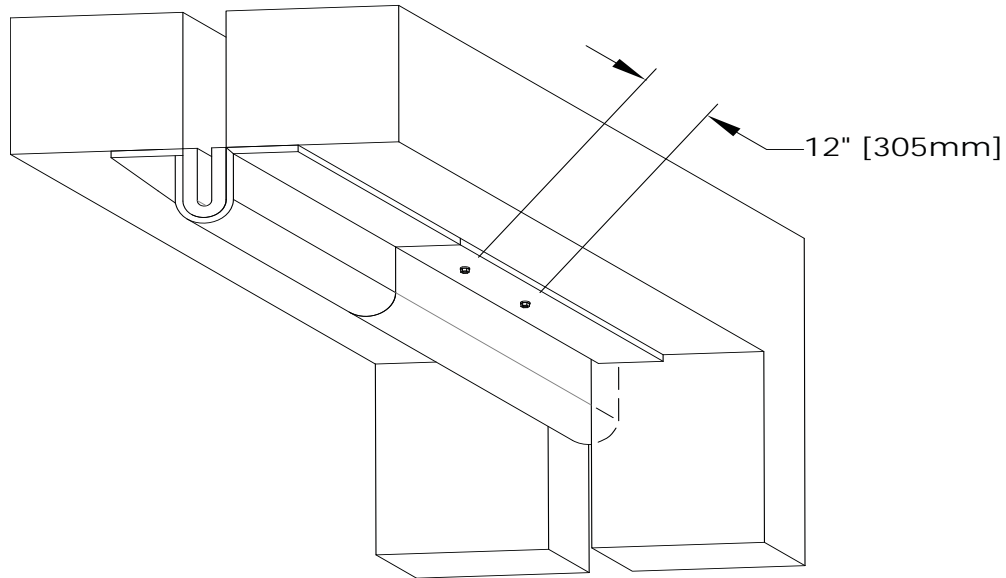


Fig 2a

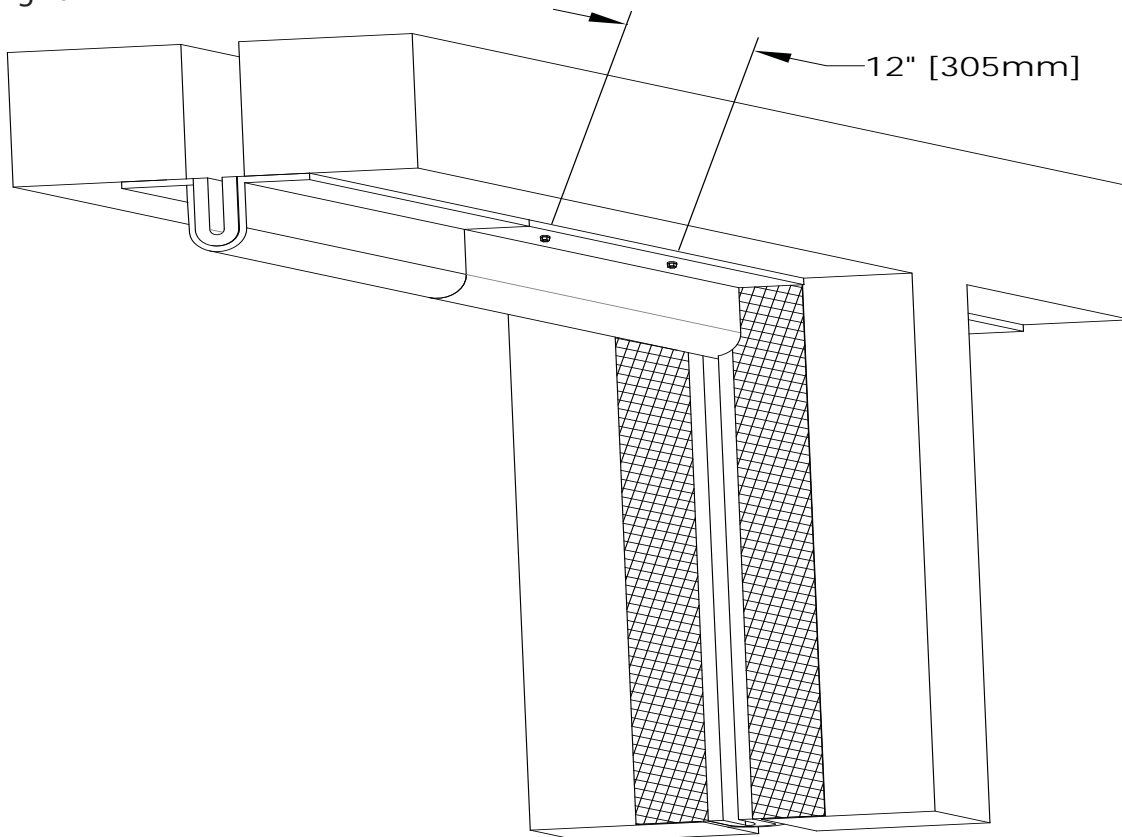


Figure 3 & 3a

11. Fasten the vertical wall flange first. make sure the top of blanket in even with the bottom of the floor. Then fasten the horizontal to the floor.

Fig 3

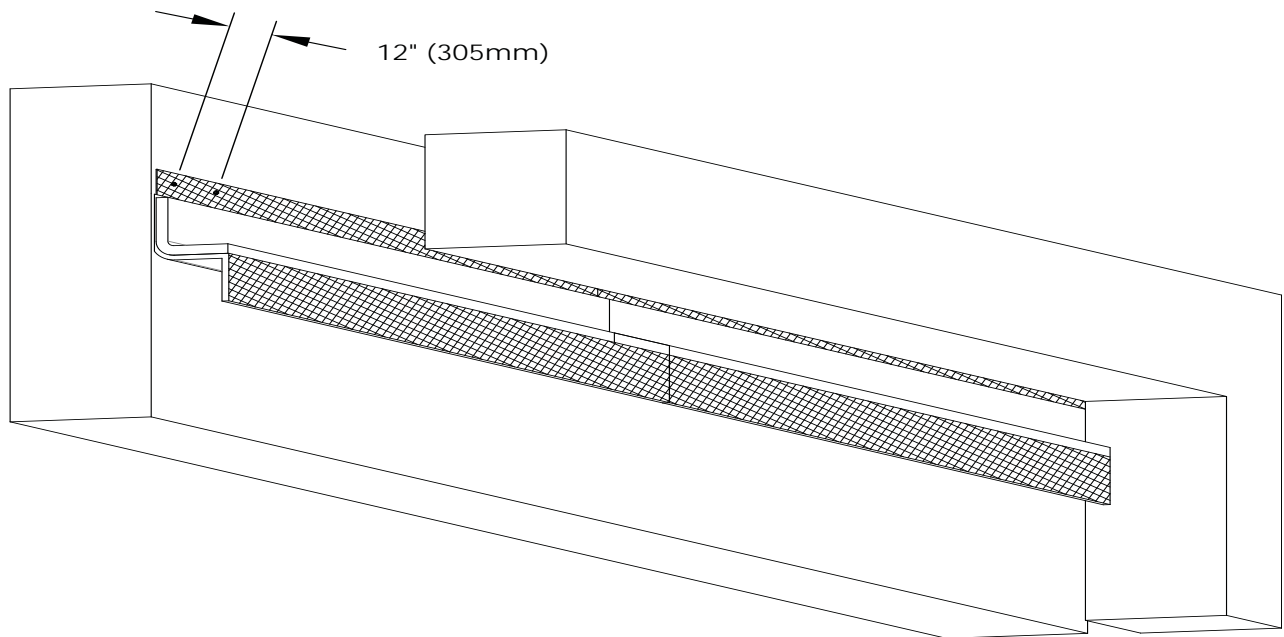
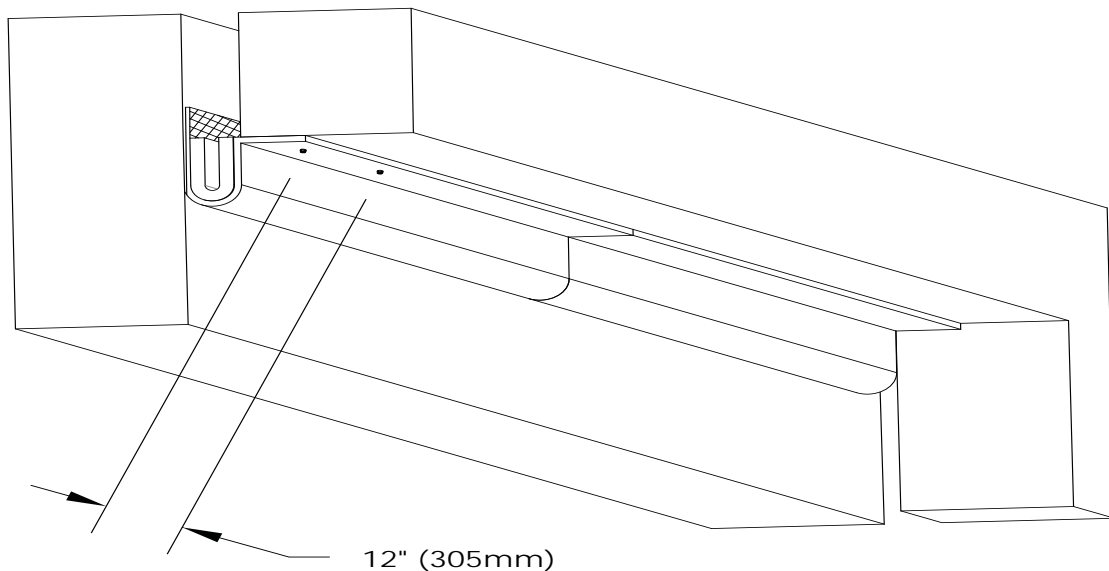


Fig 3a



Fire Barrier Waterguard with Optional Drain

Figure 6

22. Waterguard has preattached, solid galvanized sheetmetal flanges and comes in 4' (1.2m) sections. One end is the male and the other is the female end. Installation procedures are consistent with the standard Fire Barrier. One additional step exists is the overlap and sealing of the silicone membranes. The 3" (76mm) long silicone membrane that will get caulked 1" (25mm) from the end on to the next section. Caulk tubes are provided by JointMaster.

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Fig 6

