



CONCRETE MASONRY UNIT APPLICATION PROCESS

BEFORE INSTALLATION

Read all installation instructions and data sheets prior to installation. Application of the air and water barrier system should occur only after the roof and back of the wall are made water-tight to prevent water becoming trapped behind the air and water barrier assembly. Prior to installation, ensure that the CMU substrate and FOAMULAR® are clean, dry, sound, and free of any ice, dirt, oils, release agents or debris that would prevent adhesion. FOAMULAR® should be dry and free from UV degradation to ensure adhesion. Do not install system if ice or frost exists on surface of CMU or rain, snow, wind or other adverse weather would prevent or threaten correct installation. Remove any mortar fins that interrupt the application surface. If not part of the air barrier installer's responsibility, bring any deficiencies to the attention of the contractor in writing for remedy and do not proceed until corrected. Prior to installation, verify compatibility of adjacent products such as below grade waterproofing, through wall flashing, and roof membranes.

Best practice includes installation of the Owens Corning® Air Barrier System with Foam Sealed Joints from bottom of the wall to top. However, regardless of starting point, insulation should be installed continuously moving from one location to ensure continuity, adhesion, and accurate fit without damaging the system. Due to the nature of ProPink ComfortSeal™ GunFoam All Season, this assembly requires a minimum 1½" air cavity between the veneer and FOAMULAR® plane.

If Owens Corning® Foam Sealant is not available, please contact Owens Corning GETTECH for alternative products.

STORAGE & HANDLING

FOAMULAR®, FlashSealR®, and ProPink ComfortSeal™ GunFoam All Season should be protected from damage in storage and on the jobsite. While it is highly resistant to moisture, XPS insulation should be protected from water prior to and during installation to avoid trapping moisture in the wall cavity. XPS should be protected from heat and UV exposure- see Bulletin regarding Solar Heat Gain. Store FOAMULAR® covered and strapped or gently weighted down to prevent damage to the lightweight boards. ProPink ComfortSeal™ GunFoam All Season should be stored in conditioned space with optimal temperatures between 65° - 80°F (18° - 27°C.) All materials should be protected from extreme temperatures, flame, and heat sources such as welding. Refer to product data sheets for storage temperatures and detailed product information.

FIRST COURSE

Measure and ensure that Owens Corning FOAMULAR® CW15 or CW25 for Foam Sealed Joints will fit between the foundation ledge and masonry tie eyes allowing space for an approximately ½" foam joint once installed. (Fig. 1)

Cut to fit if required to ensure that, when installed, boards will be flush against the CMU wall without bowing or cupping to ensure complete adhesion. Once installed, boards should not

bow or cup but should be fully flush against the CMU substrate to ensure adhesion. The bottom of the first row should tie in to the compatible waterproofing or through wall flashing below to create a continuous air and water barrier system. If attaching the FOAMULAR® through wall flashing to the membrane with ProPink ComfortSeal™ GunFoam All Season, adhere the first course of XPS to through wall flashing as well as the CMU wall with a minimum continuous 1" bead of Owens Corning® ProPink ComfortSeal™ GunFoam All Season. If attaching the FOAMULAR® to the waterproofing membrane with flashing tape, adhere the first course of XPS to through wall flashing or waterproofing membrane as well as the CMU wall with a continuous piece of Owens Corning® FlashSealR® adhered from the face of the XPS onto the through wall flashing evenly and without any fishmouths or puckers. Whether the board is attached to the waterproofing with ProPink ComfortSeal™ GunFoam All Season or foam flashing tape, the back of the board should be securely adhered to the face of the CMU by applying a series of 2" minimum dollops installed in a "picture frame" configuration approximately 3" from the entire edge of the board. (Fig. 2)

Immediately embed the first Owens Corning® FOAMULAR® CW15 or CW25 for Foam Sealed Joints board by tilting the bottom edge to the bottom of the wall and sliding into place pressing the CW15 or CW25 firmly against the wall. CW15 or CW25 may be wiggled slightly or held firmly for 10 seconds to ensure adhesion. (Fig. 3) Do not proceed unless adhesion is ensured.

Continue installing adjacent boards across the first course of foundation allowing for ½" gap between each board for sealant to later be installed. Masonry tie eyes may be slightly adjusted to maintain compression.



Figure 1



Figure 2

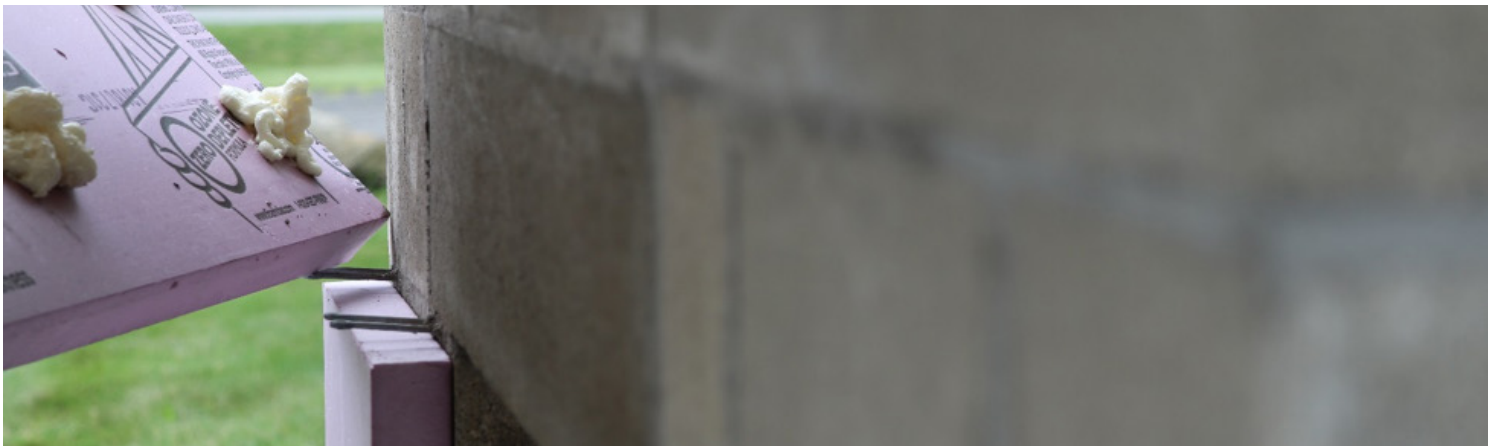
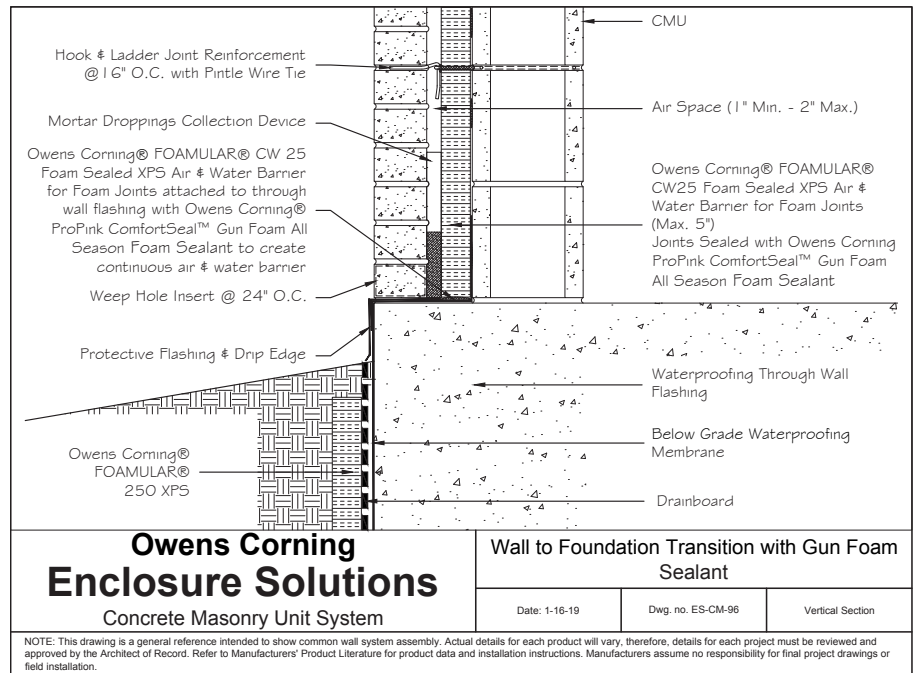


Figure 3

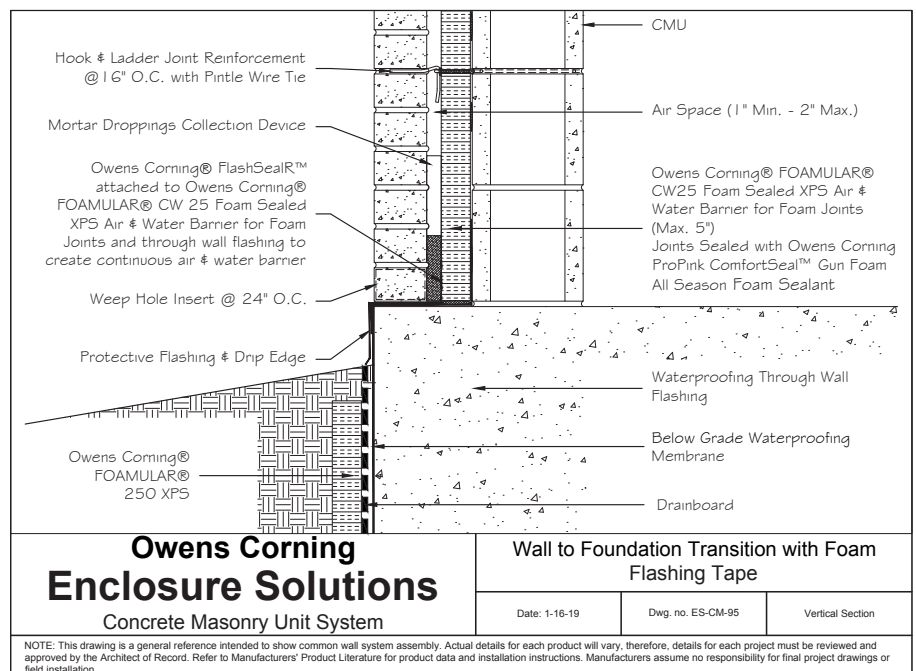
REMAINING COURSES

Continue installing adjacent boards on second and subsequent courses as described in First Course staggering boards in a running bond pattern and allowing approximately 1/2" gap between both vertical and horizontal board joints to allow for sealant. Ensure boards do not bow or cup and are fully flush against the CMU substrate to ensure adhesion. Masonry tie eyes may be slightly adjusted to maintain compression. (Fig. 4)



TOP COURSE

At the top course of an area- either a floorline or roof connection- the Owens Corning® FOAMULAR® VE Air & Water Barrier with Foam Sealed Joints must tie into a compatible air and water barrier product. As previously mentioned, the roof should already have been protected from water or waterproofed prior to installation. Install top course as previous courses with an additional continuous 1" minimum bead of ProPink ComfortSeal™ GunFoam All Season attaching the top edge of the foam to the underside of any ledges or soffits or front of parapets creating a secure and continuous air and water barrier system attached to the roof air and water barrier membrane. Alternatively, attach a piece of Owens Corning® FlashSealR® Foam Flashing Tape continuously and evenly from the FOAMULAR® to the roof air and water barrier membrane.



CORNERS

Cut FOAMULAR® to fit together in a staggered fashion at all inside and outside corners allowing ½" gap for ProPink ComfortSeal™ GunFoam All Season to be installed to make the assembly watertight. Install boards as previously described. Install ProPink ComfortSeal™ GunFoam All Season at all joints as described above. (Fig. 4) shows staggered pieces at corners.



Figure 4

PRO PINK COMFORTSEAL™ GUNFOAM ALL SEASON INSTALLATION

Owens Corning ProPink ComfortSeal™ GunFoam All Season should be applied when outdoor temperatures are between 40° -90°F (4° -32°C.). Optimum can temperature is 65° - 80°F (18° - 27°C.). Sequence installation such that joints in XPS receive Owens Corning® ProPink ComfortSeal™ GunFoam All Season the same day as the ProPink ComfortSeal™ GunFoam All Season is placed. Installing ProPink ComfortSeal™ GunFoam All Season into joints immediately as an area is completed ensures that dirt, debris, and water are less likely to impact adhesion. Once all boards are installed with approximately ½" gaps, remove any spacers and install Owens Corning® ProPink ComfortSeal™ GunFoam All Season between all joints, gaps, and damaged areas. Best practice is to insert the nozzle into the gap, depress trigger, and slowly pull the nozzle out and across joints. (Fig. 5) Ensure ProPink ComfortSeal™ GunFoam All Season secretes from every joint. As this is the last step in the installation process of areas without additional detailing, immediately begin to cover and protect the assembly with temporary protection or permanent cladding.

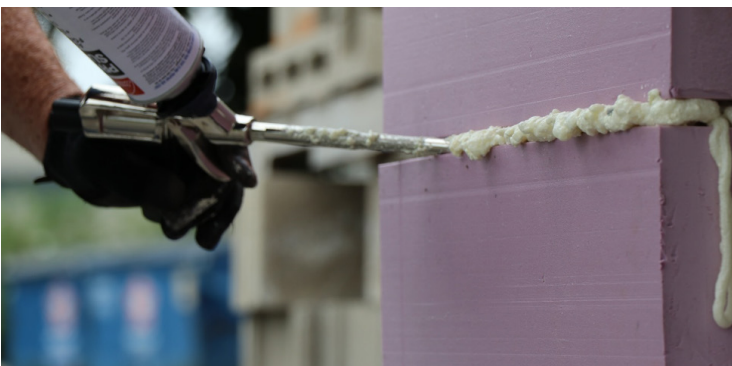


Figure 5

PENETRATIONS

Cut openings around penetrations 3/8" to 5/8" larger than penetrations to allow for Owens Corning® ProPink ComfortSeal™ GunFoam All Season to penetrate and adhere to substrates and foam. Ensure cuts are smooth and even. Do not over cut foam beyond boundaries of opening or penetration. Install boards around penetrations as described above.

WINDOW & DOOR OPENINGS

Openings must be detailed with Owens Corning® FlashSealR® Foam Flashing Tape in accordance to ASTM E2112-19 industry standards. Install Owens Corning® FOAMULAR® CW15 or CW25 for Foam Sealed Joints boards as described above ensuring that any cut edges stop just inside the edge of the window opening. Holding the FlashSealR® aligned with the window, cut the flashing tape in half horizontally beginning just outside the edge of the opening. Continue to smooth the FlashSealR® onto the surface of the sill as previously described, but turning the top half of the split edge up the window jamb opening. (Fig. 6)



Figure 6



Figure 7



Figure 8

Remove the other half of the release film continuing to smooth toward the edges to ensure no bubbles, wrinkles, or fishmouth edges. **(Fig. 7)**

Repeat these steps from the center opening to the other jamb working from the center out and turning the top half of the flashing up the jamb. Measure and cut FlashSealR® to allow for the length of the window plus a 4" overlap on both sides of the opening. Removing half of the split release film, adhere the FlashSealR® pressing from the center toward the edges to ensure no bubbles, wrinkles, or fishmouth edges stopping just inside the edge of the window opening. Holding the FlashSealR® aligned with the window, cut the membrane in half vertically beginning just outside the edge of the opening. **(Fig. 8)**

Continue to smooth the FlashSealR® onto the surface of the jamb as previously described, but turning the inside half of the split edge down onto the window sill opening. Remove the other half of the release film continuing to smooth toward the edges to ensure no bubbles, wrinkles, or fishmouth edges. Repeat this process for both jambs. Repeat these steps from the center opening to the window head working from the center out and turning the top half of the flashing in across the window head. Repeat this process for the window head. Measure and cut FlashSealR® to allow for the width of the window plus a 4" overlap on both sides of the opening. Removing half of the split release film, adhere the FlashSealR® pressing from the center toward the edges to ensure no bubbles, wrinkles, or fishmouth edges stopping just inside the edge of the window opening. Holding the FlashSealR® aligned with the window, cut the membrane in half horizontally beginning just outside the edge of the opening. **(Fig. 9)**

Continue to smooth the FlashSealR® onto the surface of the window head as previously described, but turning the bottom half of the split edge down onto the window jamb opening. Remove the other half of the release film continuing to smooth toward the edges to ensure no bubbles, wrinkles, or fishmouth edges. Repeat these steps from the center opening to the window head working from the center out and turning the bottom half of the flashing down onto the other window jamb.

Roll all surfaces of the FlashSealR® to ensure adhesion and eliminate fishmouths.



Figure 9



Figure 10

HINTS, TIPS, TRICKS, AND AREAS OF CAUTION

- Fill joints from back of the joint pulling to the front to ensure the entire joint cavity is filled.
- Allow foam to expand out of the joint to demonstrate the joint has been filled.
- When cutting Owens Corning® FOAMULAR® CW15 or CW25 for Foam Sealed Joints, cut edges shall be smooth with no "slices" that will prevent ProPink ComfortSeal™ GunFoam All Season from completely sealing joints.
- Round openings can be more smoothly created with hole saws to create a smooth cut edge.
- Do not expose material to solar heat gain- see "Solar Heat Gain Technical Bulletin".

Follow all jobsite and personal safety precautions as noted in individual product safety data sheets and in accordance with all local, state, and federal safety requirements.

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