

Installation Instructions

BioPrism® Solid Surface Wall Cladding

Please read all instructions before installing products.

STORAGE:

Keep crates in the upright position. When unpacking, store panels flat in a clean dry place.

BEFORE INSTALLATION:

Check for damage that may have occurred in transit. Store materials in an environmentally controlled area, 24 hours before installation. Confirm that the sizes, styles/models, and colors match your order. Check all specifications to ensure that you have the right material for the job.

RECOMMENDED TOOLS:

Belt sander, jig saw, circular saw with fine tooth carbide blades, router (1-3/4" HP, 22,000 rpm), random orbital sander, electric drill with carbide or high speed steel bits, tape measure, grease pencil, clamps, denatured alcohol, safety goggles, white paper towels, caulking gun, dust masks, masking tape, level/straight edge,

If needed: 3" clear packaging tape, scotch brite pads, 250ml hard seam dispenser, extra hard seam mixing tips

USING TOOLS:

Sawing:

Cut only on finished side (front) and use wide masking tape to protect finished surfaces from scratching or chipping.

Drilling:

Drill from finished side (front) of material.

Sanding:

DO NOT cut or sand exposed factory finished edges.

Always saw, drill, or sand with the material fully supported. *See Figure 1.* on the following page. The shipping pallet is an ideal work surface.

ADHESIVES AND SEALANTS:

Translucent 100% Silicone
Color Matched Silicone Caulk
Color Matched Hard Seam Adhesive (250ml cartridge)

PRIMING:

Inpro® Corporation recognizes the following latex primer products as safe to use in conjunction with its BOSS 385 100% silicone adhesive for BioPrism® Solid Surface vertical wall applications.

- Sherwin Williams PrepRite® Pro Block® Interior /Exterior, Latex Primer /Sealer
- Sherwin Williams ProMar® 200 Zero VOC Interior Latex Primer
- KILZ Clean Start® Primer/Sealer/Stain blocker

Failure to use one of these outlined approved primer products will result in termination of the Inpro® Warranty for BioPrism® Solid Surface.

IPC.1302/REV 12

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FIG.1

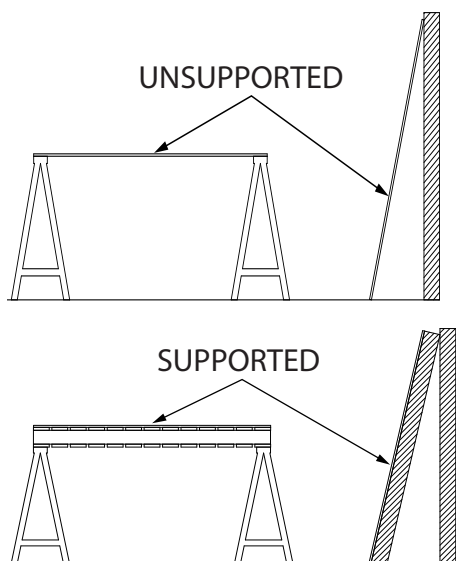


FIG.2

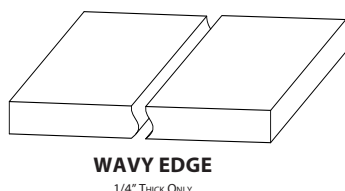


FIG.3

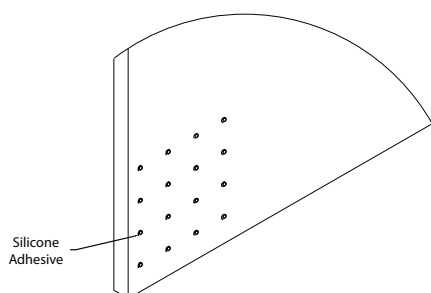
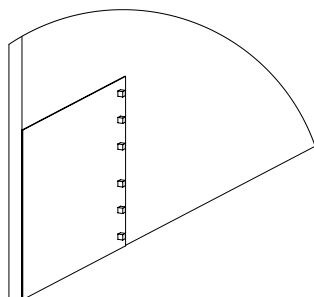


FIG.4



1. In advance determine where hard seams, soft seams, batten strips, corner moldings, and perimeter trim will occur. (Soft seams must occur at inside corners) Cut material to the required size.

Hard Seaming: Hard seaming is the joining of two or more panels with two-part adhesives to form inconspicuous seams.

Soft Seaming: Soft seaming is the joining of two or more panels with color matched or translucent silicone to form subtle seams.

2. Clean and prime wall substrate before installing BioPrism® wall panels. Dark or uneven colors on the wall substrate may cause ghosting of the substrate through the wall panels.
3. Dry fit panels to ensure proper fit.

Note:

- Fully support wall panels while carrying or cutting to avoid damaging the panels. *See Figure 1.*
- It is recommended to use a circular saw with a fine tooth carbide blade to cut panels to size.
- For panels that are being seamed together, inspect for color variation and choose panels that have the least color variation to achieve a consistent look.

4. Clean the wall panels, including the edges that will be bonded, with denatured alcohol and a clean white paper towel.

Hard Seaming: (If install doesn't call for "Hard Seams" proceed to Step 15.)

Note:

- Hard seams may be created on a flat work surface, apply packaging tape under the seam on the work surface to ensure that the adhesive doesn't stick to the work surface
- Cut edges straight and square or use factory furnished Wavy Edge. *See Figure 2.*
- Wavy Edge is only available on 1/4" thick wall panels.

5. Apply quarter coin-sized drops of silicone adhesive to the wall where the first panel will be installed. Space the silicone 4" from each edge and every 8" to 10" over the rest of the field. *See Figure 3.*
6. Position the first panel on the wall and press it into place. Hot melt glue may be used to hold the panel in place on uneven surfaces while the silicone cures.
7. Apply clamping blocks made of wood to the surface of each wall panel with clear hot melt glue. Blocks should be 3" from each edge and at least every 6" over the length of the seam. *See Figure 4.*

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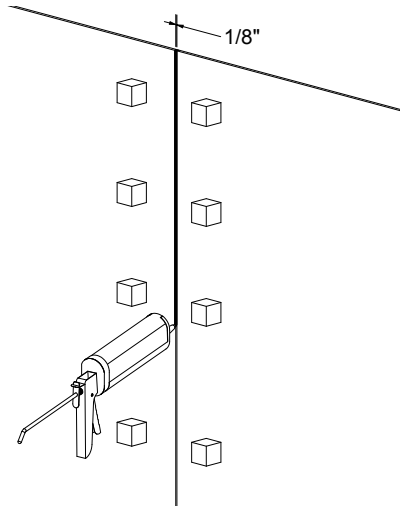
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Installation Instructions

BioPrism® Solid Surface Wall Cladding

FIG.5

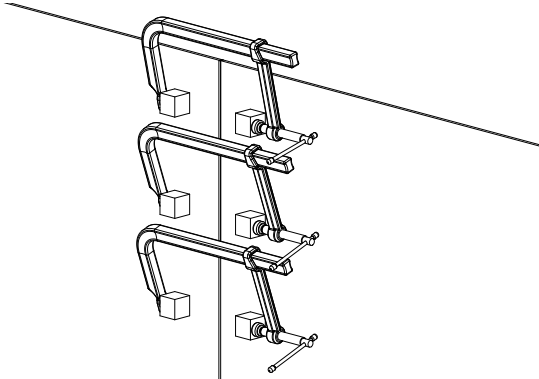


8. Apply quarter coin-sized drops of silicone adhesive to the wall where the second panel will be installed.
9. Position the second panel on the wall and press it into place, leave an 1/8" gap in between the panels.
10. Apply two-part color matched adhesive in a uniform bead to the entire seam. *See Figure 5.*
11. Clamp the seam together across the wood blocks until some of the adhesive squeezes out to form a uniform bead along the entire seam. *See Figure 6.*

Note:

- Do not tighten the clamps too tight, this can starve the seam of glue. You want a minimum of 1/32" to 1/16" of glue between the panels.
- Vacuum Clamps may also be used in place of the wood blocks and clamps.

FIG.6



12. Allow the adhesive to cure.
13. Remove the clamps and clamping blocks.
14. Using a random orbital sander, sand off the excess adhesive and blend it into the existing panel finish. *See Figures 7 & 8 for panel finishing details.*

Note:

- Move the sander in an orbital pattern and over lap 50% per pass. Keep the sander moving so you don't over heat the seam, over heating the joint can weaken or wreck the bond.

FIG.7

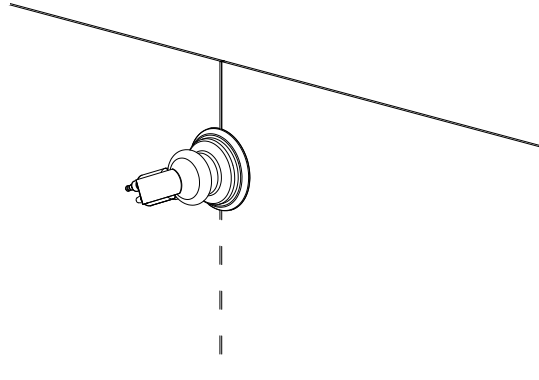


FIG.8

Matte Finish (Class A & A1):

- Use a 100 micron sanding pad to remove excess material and even out the surface.

Satin Finish (Class B except for Meteorite P9070 & Snake Skin P9064):

- Use a 100 micron sanding pad to remove excess material and even out the surface.
- Repeat the process with a 60 micron sanding pad.
- Use a Scotch-Brite® pad (#7447 Maroon, Very Fine, 320-400 Grit) under the sanding pad to even out the finish.
- Repeat the process with a Scotch-Brite® pad (#7448 Gray, Ultra Fine, 600-800 Grit).

Semi-Gloss Finish (Meteorite P9070 & Snake Skin P9064):

- Use a 100 micron sanding pad to remove excess material and even out the surface.
- Repeat the process with a 60 micron sanding pad.
- Use a Scotch-Brite® pad (#7447 Maroon, Very Fine, 320-400 Grit) under the sanding pad to even out the finish.
- Repeat the process with a Scotch-Brite® pad (#7448 Gray, Ultra Fine, 600-800 Grit).
- Repeat the process with either a Scotch-Brite® pad (#7448 Gray, Ultra Fine, 600-800 Grit) or (#7445 White, Ultra Fine, 1000 Grit) and continue sanding until the finish matches the rest of the panel.

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FIG.9

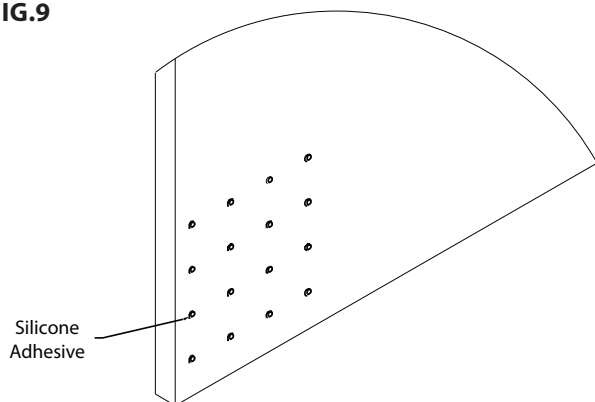


FIG.10

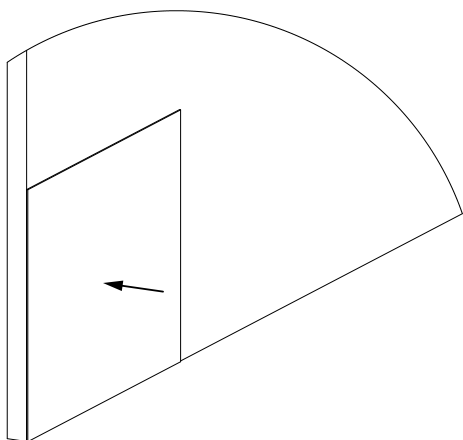
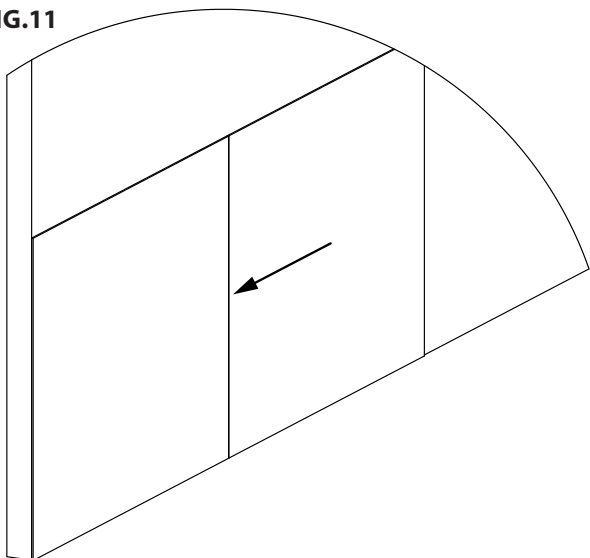


FIG.11



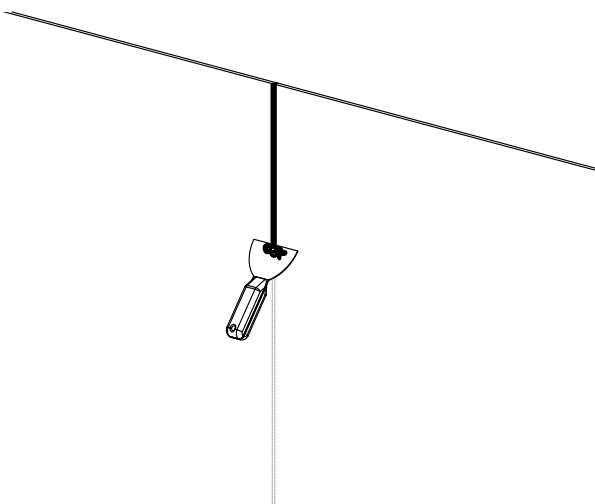
Soft Seaming:

15. Apply quarter coin-sized drops of silicone adhesive to the wall where the first panel will be installed. Space the silicone 4" from each edge and every 8" to 10" over the rest of the field. *See Figure 9.*
16. Position the first panel on the wall and press it into place. Hot melt glue may be used to hold the panel in place on uneven surfaces while the silicone cures. *See Figure 10.*
17. Apply quarter coin-sized drops of silicone adhesive to the wall where the second panel will be installed.
18. Apply a bead of silicone to the edge of the first panel where the panels will meet.
19. Position the second panel on the wall and press it into place, leave an 1/8" gap in between the panels.
20. Slide the panels together to form a uniform seam. There should be a minimum of 1/16" gap between the panels. *See Figure 11.*
21. Apply silicone to the joint to make sure the entire seam is full.
22. Using denatured alcohol and a flat edged tool such as a putty knife, clean excess silicone from the face of the joint.

Note:

- Spray the denatured alcohol over the silicone and wall panels around the joint before you scrape the excess silicone off. This prevents silicone from sticking to the wall panels. Do not wipe excess silicone off with a rag, this will leave a dull uneven finish that will not blend in.

FIG.12



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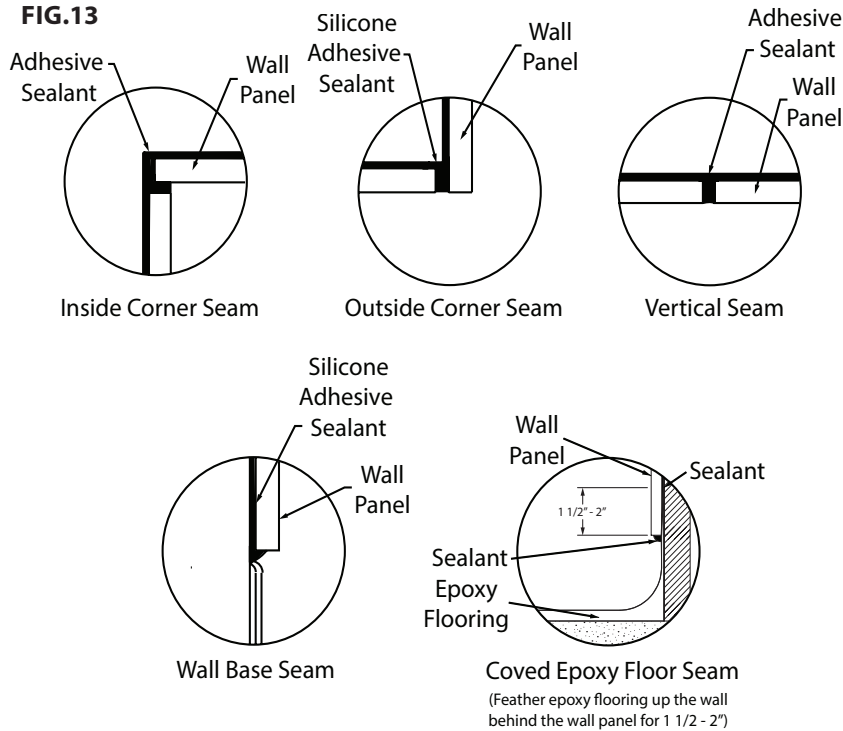
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FIG.13



23. After all panels are adhered to the wall, mask off the edges of any gaps. Fill in all gaps between panels, wall base and corner conditions with translucent or color matched silicone. Smooth out silicone and remove the masking tape. Clean-up any excess silicone with denatured alcohol. *See Figure 13.*

24. Perimeter trim: (Figure 14)

- Cut perimeter trim to the desired length allowing for a 1/16" to 1/8" gap at corners and butt joints.
- Apply translucent silicone to the back of the trim, starting 2" from each end and spaced every 8".
- Apply trim to the wall.
- Clean-up any excess silicone with denatured alcohol.

25. Corner Moldings and Batten Strips: (Figure 15)

- Cut corner molding and batten strips to the required length.
- Apply translucent silicone to the back of the trim, starting 2" from each end and spaced every 8".
- Position and press trim pieces into place. Tape if needed until silicone cures.
- Clean-up any excess silicone with denatured alcohol.

FIG.14

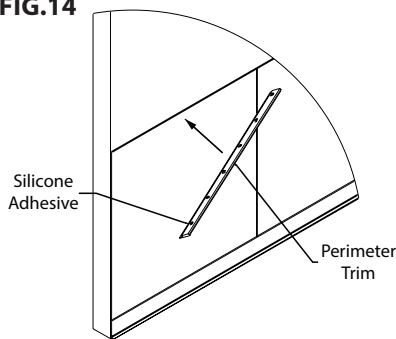


FIG.15

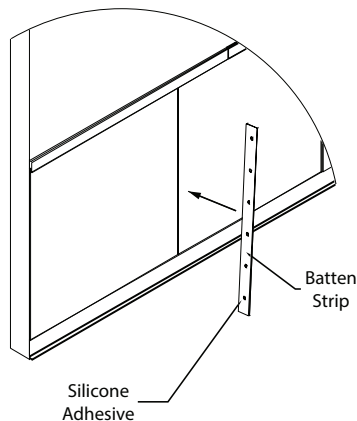
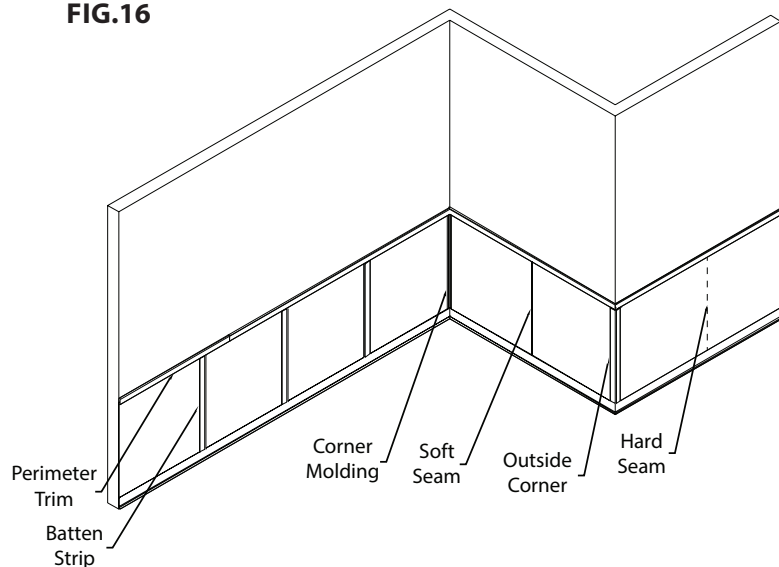


FIG.16



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FIG.17A

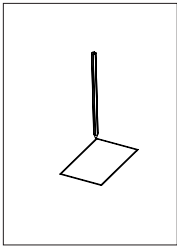
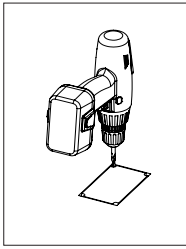


FIG.17B



26. Cutting Holes for Electrical Outlets: (Figures 17A-17D)

- Mark the desired hole location.
- Drill 1/2" diameter pilot holes in each corner of the cutout location.
- Cut inbetween each pilot hole to create the desired shape.
- Apply a thin bead of silicone adhesive to the wall 2" from the cutout location.

Note:

- The radius from the pilot holes will help prevent cracking in the corners.
- A jig saw, router, or dremel tool will work well to make the cutouts.

FIG.17C

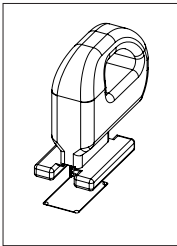
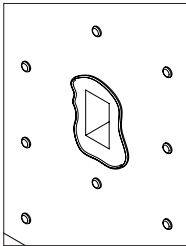


FIG.17D



27. Outside Corner Hard Seam: (Figures 18A-18E)

- Adhere the first panel to the wall, flush with the edge of the corner.
- Adhere the second panel to the wall, it will over hang the corner by an inch or two
- Apply wood blocks to the surface of the first panel with hot melt glue, 3" from the edge and every 6" over the length of the seam.
- Apply wood blocks to the inside corner, where each panel meets the adjacent wall (if applicable).
- Fill the gap between the panels with color matched hard seam.
- Apply clamps from the wood blocks on the first sheet to the outside of the second sheet.
- Let the hardseam cure.
- Remove all wood blocks.
- Trim over hanging panel material with a router.
- Finish the seam and corner to match the wall panel finish.

Note:

- A radiused router bit and finish router may be used to add a radius to the corner.

FIG.18A

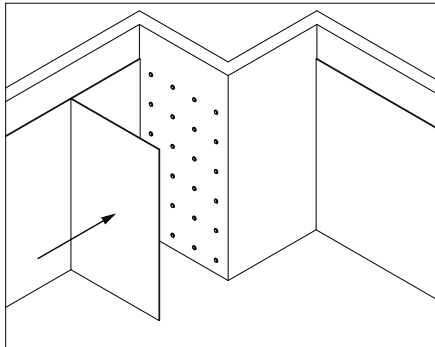


FIG.18B

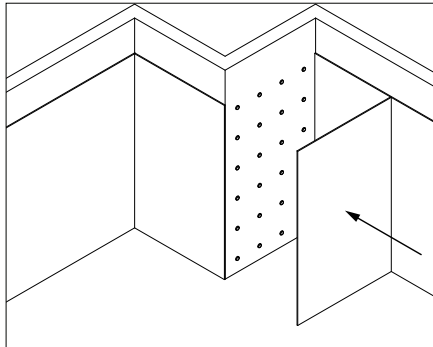


FIG.18C

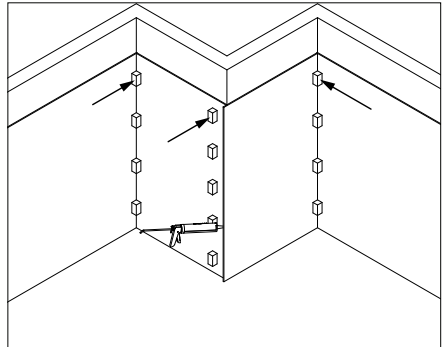


FIG.18D

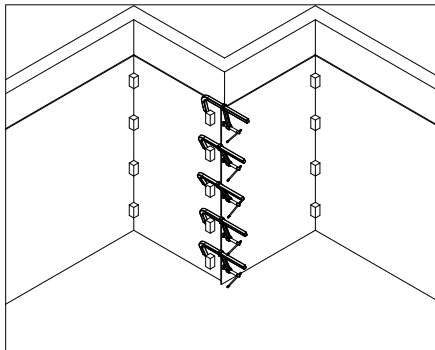
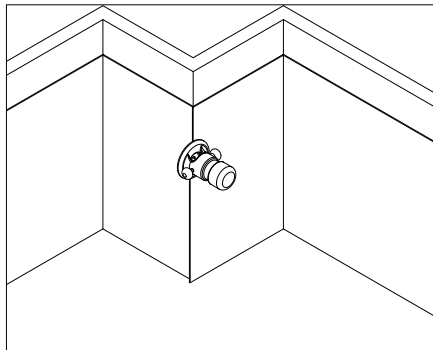


FIG.18E



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