

### **MATERIAL HANDLING:**

- Material is required to be stored in a dry and climate-controlled environment.
- At the very least, all material must be covered and kept dry.
- Wet and freezing conditions WILL result in damage to the panels.
- If the material gets wet, ensure they are completely dry before installation.
- At least 6' forks are required for any pan/panel/accessory crates.
- Bring material to room temperature before handling for installation or fabrication.

### **REQUIRED TOOLS AND EQUIPMENT:**

- Dust control PPE – breathing protection is required when not using wet saws for dust mitigation.
- DIAMOND CUTTING TOOLS REQUIRED – use of masonry blades or bits risks chipping and will void any warranty.
  - Circular saw with a diamond blade for panel trimming. We recommend a 4 ½" saw for precision cuts and a 7 ¼" saw for straight cuts.
  - High-speed drill with diamond bits for accessory holes.
- Sanding blocks (80 grit) for smoothing cut edges to prevent chipping.
- 3' and 6" Levels.
- For template method of cutting panels: Chalk line, commercial glue gun, 1/8" plywood strips.
- A long straight edge and clamps are suggested for long cuts.
- Adhesives and adhesive caulk guns.
- Bracing material – 2x4s or padded roof jacks.
- Alcohol and caulking joint accessories for panel seams.
- Acetone and shop rags for pre and post-installation cleaning.

### **REPAIR AND HARDWARE KIT:**

- Check the packing list for the location of the repair kit and hardware.
  - Typically packed with accessory items.
- Store in a secure/climate-controlled environment.
- These items are easily lost and are typically not needed until finishing – please store them in a secure location.
- The gel coat requires a hardening agent – this is sourced locally due to shipping restrictions.
  - Bondo hardener is found in any automotive supply store and most hardware stores.

## PAN INSTALLATION NOTES:

- Plumbing install:
  - Place the pan with equal spacing between the framing and pan edges.
  - The sheetrock/greenboard/glassboard needs to overhang the 3/8" w flange at least 1/16" and no more than 3/8".
- Completely and evenly bead each underside rib with 100% silicone.
- Coordinate with sheetrocking:
  - ¼" – ½" height gap between sheetrock/greenboard/glassboard and pan flanges.
  - No sheetrock mudding is required at the bottom.
- We recommend protecting the shower pan from damage after installation.
  - Mshower® offers custom-fit fiberglass pan protectors for a small cost. Please inquire with your salesperson or PM to add factory-installed protectors.
  - At the least, use cardboard/carpet/fiberglass/plastic protective lining.

## CLEANING:

- Prior to installation, use Acetone and rags to wipe the back of the panels.
- Alcohol spray/mist the silicone immediately after beading to facilitate easy cleanup.
- After installation, use Magic erasers and Windex to finish the pans/panel.

## ADHESIVES:

- Panels to wall:
  - Construction adhesive (liquid nails or PL brand SPECIFIC TO MARBLE/GRANITE/QUARTZ): 1 pull of caulk gun per 1sq ft.
  - Silicone: ½ pull of caulk gun per 1sq ft.
- Vertical or horizontal seams in back panels: requires a bead of color-matched 100% silicone applied before installation of adjoining panels.
- Hot glue for accessories (to hold the accessory while silicone cures).
  - Arrow Fastener's 4" Super Strong Glue Sticks (do not use hobby hot glue).

## METAL/TRIM STRIPS:

- Coordinate Metal Trim strips install with Finish teams – establish install responsibility and tools required to cut metal to install metal strips.

## ACCESSORIES:

- Confirm the placement of in-wall blocking. Footrests and accessory ledges REQUIRE blocking. We recommend blocking for metal soap dishes, but wall anchors are acceptable.
- Make cutouts in the cast polymer using diamond bits only.
- Any cutouts made in the shower panels REQUIRE at least 1/8" spacing between screw/hardware contact with the panel.
- Note all plumbing/electrical routing to avoid puncturing in wall conflicts.
- Nooks are DESIGNED with a gentle slope towards the front for drainage and installation. The back of the nooks will not sit flat. Apply generous 100% silicone on all sides of contact with framing. When possible, support the back with shims.

## FINISHES:

- For ALL seams, panel-panel, or panel-pan.
  - 100% silicone with a white – matte finish – Recommend GE silicone II.
- Seam along the ceiling.
  - Paintable (or color matched to ceiling/panel) latex caulking for seams along the ceiling.

## SHOWER PANEL INSTALLATION NOTES:

- Confirm walls are flat and no screws or drywall mud is protruding. Any protruding screws can damage the panels.
- Ideally, just cut the sides and top, but the bottom may be necessary. NEVER CUT INSIDE BACK PANEL SEAMS. MAINTAIN FACTORY EDGES FOR INNER SEAMS.
- Single back/side panels may require trimming on all four sides to ensure a flush fit and coordinated grout lines between the back and side panels.
- Bracing – if walls are unfinished, use a screw and wood “washer.”
  - Light pressure on bracing – high tension can lead to wavy or cracked panels. No screws anywhere near the panels- use wedged wood for bracing joints near the panels.
- Use shims on the bottom (between pans and panels) to level panels and close gaps in seams.
- Use straight/flat wood/composite beams for inside back panel seams to ensure elevation consistency between inner seams.
- Construction adhesive – low alcohol – loctite, PL, or liquid nails marble brand.
- Template using 4x8' 1/8" veneer sheets cut into 1" strips. Staple/hot glue them into position.
- Silicone seams with the alcohol method – apply silicone, then spray with alcohol, then wipe clean.
  - Provides easy cleaning and seams.
- If panels overhang the curbs on the pan, a complete color-matched 100% silicone seam along the bottom overhang is required. This is an unfinished edge and can cause water damage if left exposed.