

**Step 1:** 2447 - .125" is a heavy duty, aluminum, diamond tread plate wall cladding system, weighing approximately 1.92 pounds per square foot. The product is supplied in standard sheet sizes from the mill or sheared to custom sizes from the factory. The product is installed with mechanical fasteners and/or construction adhesive. To allow for mechanical fastening the sheet is countersink drilled for #8 flat head screws from the factory or the installer can drill/countersink in the field to their own requirements.

**Important:** Store material in a clean dry place where the temperature is maintained above 50°F (10°C) and is not allowed to exceed 100°F (38°C). Walls and rooms should be maintained at a minimum of 65°F (18°C) for at least 48 hours prior to installation. Acclimate materials to normal building conditions for at least 24 hours before cutting and installing.

**Step 2:** Determine the installation requirements. Snap a chalk line at the desired height of the sheet. Inspect for variations in floor surface to ensure panels are installed plumb and the upper edge of sheet are straight and level, shim if necessary.

**Step 3:** Diamond plate sheet is supplied by the factory to customer specifications, the factory does not provide cut-outs for obstructions such as piping, electrical outlets, and switches.

**Important:** If additional cutting is required select a method that will avoid damaging the exposed finish of the sheet. Carefully deburr all cut edges.

**Step 4:** Measure wall space and compare with plate dimensions to ensure accuracy. Mark the wall to indicate location of individual wall panels. Carefully measure for any cut-outs that are required and mark wall plate accordingly. Providing adequate clearance around obstructions will allow for final placement of the plate.

*Note:* Hand tools such as a drill (with standard metal cutting bits or hole saw) and reciprocating saw may be used to cut the material. Follow equipment manufacturer's safety instructions and be sure material is positioned securely so that it will not move during the cut.

**Step 5:** The installation surface must be clean and free of dust, oils, adhesive residue, and any foreign matter that could interfere with the adhesive bond. Prepare the wall by removing any loose particles. If using a damp cloth, allow the wall to thoroughly dry.

**Step 6:** Install anchors for mechanical fastening as necessary by placing sheet temporarily in place and marking wall to match hole pattern in diamond plate sheet.

**Important:** Use caution when drilling mounting holes in wall so that proper sheet alignment is maintained.

Suggested hardware:

- Drywall: Toggler® brand toggle bolts
- Masonry: Plastic Alligator® insert

**Step 7:** With a caulking gun, apply a 1/4" bead of adhesive around the perimeter of the rearward face of the plate, 1/2" to 3/4" from the edge to prevent adhesive from being forced from under the plate during the setting process. Continue applying adhesive in rows spaced approximately 6" to 8" on center. The rows can be applied straight or in a zig-zag or wave pattern. A 48"x96" sheet requires approximately 3, 10oz tubes of adhesive which is the equivalent of 24 linear feet of 1/4" bead per tube.

**Step 8:** Set sheet in place using a firm rubber face roller and install mechanical fasteners. Carefully remove any excess adhesive to prevent the need for use of solvents. If necessary, acetone may be used in the clean-up process if it is determined that adjacent surfaces will not be damaged.