OATEY

BONDING ADHESIVE – OATEYWELD

FOR BONDING OR SEAMING CPE SHOWER PAN LINER TO ITSELF

DIRECTIONS FOR USE

- 1. For large showers pan material may have to be seamed to adequately cover the floor, wall and curb area. Clean surfaces to be joined from dirt, grease, water or any other debris that may interfere with the bonding process.
- 2. Apply a liberal coating of adhesive with a brush or dauber applicator to both surfaces with a 2" overlap.
- 3. For best instant strength bonding adhesive must be wet when joining both surfaces. With this in mind it's best to join the two surfaces immediately after applying Oateyweld and promptly apply pressure using a paint roller or 2 x 4 wood section over the freshly bonded seam for 2-3 minutes. Observe the outer seam to make sure there are no gaps.
- 4. Do not disturb immediately after assembly. Place a heavy object over the entire seamed area during cure period. This will provide a strong bond between the pan liner surfaces. Good handling strength will develop in approximately two to four hours. Allow overnight cure before water testing a shower pan assembly.

CONDITIONS TO AVOID

- 1. OATEYWELD EVAPORATION Do not attempt to join pan material if the bonding adhesive has dried or evaporated. If partial or complete drying occurs reapply and follow the steps above
- 2. CURE is temperature dependent. The lower the ambient temperature, the slower the cure. Ideal application temperatures range from 60 to 80 degrees Fahrenheit. Avoid working in direct sunlight. Work quickly when working at high temperatures. Again make sure both surfaces are wet when joining.
- 3. NEVER use Plastic Pipe solvent cement for joining CPE shower pan liner.

4. NEVER use X15 Bonding Adhesive to seam CPE pan liner material. Oateyweld Bonding Adhesive is the only approved adhesive you will need for seaming Oatey CPE shower pan liner.

ADDITIONAL INFORMATION

1. When used according to directions, Oatey Bonding Adhesive will give a permanent, waterproof

2. Seamed joints in a shower installation should always be water tested for leaks.

3. Call manufacturer if assistance is needed

Shower Pan Liner APPLICATION INSTRUCTIONS Tile Shower Drain Strainer pan liner or membrane in our instructions. Adjustable **Drain Barre** Colla brass or white plastic strainer.

adhesive – For use on dam corners or seaming use X-15 for PVC and Oateyweld for seaming and dam corner applications. for CPI

<u>PVC or ABS solvent cement</u> – PVC solvent instructions, contact Oatey customer cement and primer for PVC drainage systems or ABS solvent cement for ABS referred to someone who can assist you. drainage systems. Use the appropriate cement (and primer for PVC) to solvent weld tile shower drain to the drain pipe.

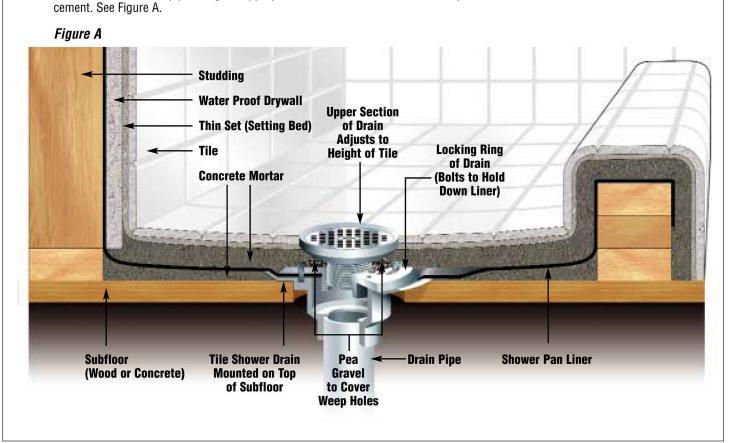
Shower Pan Installation

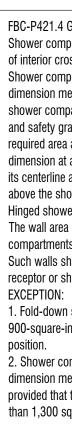
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Clamping Ring

Drain Base

1. For typical wood subfloor cut a 4.5" diameter hole in the 2. Cover the drain base opening with duct tape to keep debris center of the shower floor where the tile shower drain would from entering the drain. Begin by applying Portland Sand/ Lay the tile shower drain base in the opening so the flange of slope from the wall framing to the top of, but not over, the the drain base rests on top of the subfloor. Solvent weld the drain base. After this step the sloped mortar bed should be drain base to the drain pipe using the appropriate solvent flush with the top surface of the drain base.





421.4.1 Floor and wall area. Bathtub floors, 421.5.1 Support. Floors or receptors under shower floors, wall areas above built-in tubs shower compartments shall be laid on, and shower compartments shall be constructed base. of smooth, corrosion-resistant and nonabsorbent waterproof materials. Wall than 6 feet (1829 mm) above the room floor made water tight utilizing material complying level, and not less than 70 inches (1778 mm) above the drain of the tub or shower. Such walls shall form a watertight joint with than 2 inches (51 mm) above the finished each other and with either the tub or shower threshold level. Liners shall be recessed and floor.

access and egress opening shall have a clear and unobstructed finished width of not than $\overline{1 \text{ inch}}$ (25 mm) above the finished less than 22 inches (559 mm). Shower compartments required to be designed in comply with the Florida Building Code, Accessibility.

421.5 Shower floors or receptors. Floor noncorrosive, nonabsorbent and waterproof 312.9. materials.

that have installed shower heads and walls in supported by, a smooth and structurally sound

421.5.2 Shower lining. Floors under shower compartments, except where prefabricated materials shall extend to a height of not less receptors have been provided, shall be lined and with Sections 421.5.2.1 through 421.5.2.6. Such liners shall turn up on all sides not less fastened to an approved backing so as not to 421.4.2 Access. The shower compartment occupy the space required for wall covering, and shall not be nailed or perforated at any point less threshold. Liners shall be pitched one-fourth unit vertical in 12 units horizontal (2-percent slope) conformance to accessibility provisions shall and shall be sloped toward the fixture drains and be securely fastened to the waste outlet at the seepage entrance, making a water-tight joint between the liner and the outlet. The completed surfaces shall be constructed of impervious, liner shall be tested in accordance with Section

EXCEPTIONS:

Floor surfaces under shower heads provided for rinsing laid directly on the ground are not required to comply with this section. 2. Where a sheet-applied, load-bearing, bonded, waterproof membrane is installed as the shower lining, the membrane shall not be required to be recessed. Shower compartments

where the finished shower drain is depressed a minimum of 2 inches (51mm) below the surrounding finished floor on the first floor level and the shower recess is poured integrally with the adjoining floor.

sheets shall meet the requirements of ASTM D4551. Sheets within a shower enclosure shall shall be joined by solvent welding in accordance with the conform to the safety glazing manufacturer's installation instruc-tions. requirements of the Florida Building 421.5.2.2 Chlorinated polyethylene (CPE) sheets. Code, Building. Must use tempered Nonplasticized chlorinated polyethylene sheet shall meet the glass. requirements of ASTM D4068. The liner shall be joined in accordance with the manufacturer's instal-lation instructions. 421.5.2.3 Sheet lead. Sheet lead shall weigh not less than 4 pounds per square foot (19.5 kg/m2) and shall be coated with an asphalt paint or other approved coating. The lead sheet shall be insulated from conducting sub-stances other than the connecting drain by 15-pound (6.80 kg) asphalt felt or an equivalent. Sheet lead shall be joined by burning. 421.5.2.4 Sheet copper. Sheet copper shall conform to ASTM B152 and shall weigh not less than 12 ounces per square foot (3.7 kg/m2). The copper sheet shall be insulated from conducting substances other than the connecting drain by 15-pound (6.80 kg) asphalt felt or an equivalent. Sheet copper shall be joined by brazing or soldering. 421.5.2.5 Sheet-applied, load-bearing, bonded, waterproof membranes. Sheet-applied, load-bearing, bonded, waterproof membranes shall meet require-ments of ANSI A118.10 and shall be applied in accor-dance with the manufacturer's installation instructions. 421.5.2.6 Liquid-type, trowel-applied, load-bearing, bonded waterproof materials. Liquid-type, trowel-applied, load-bearing, bonded waterproof materials shall meet the requirements of ANSI Al18.10 and shall be applied in accordance with the manufacturer's instructions.

<u>PVC or CPE Pan Liner</u> – referred to as

Datev

or CPE pan liner applications.

the shower framing has been constructed

and the flooring is plywood. Generally the

same principles apply to concrete flooring

beneath the pan liner. Also the instructions

apply to either PVC pan liner or CPE pan

the exception of the bonding adhesive used

If you have questions regarding pan liner

installation that are not covered in these

service at 800-321-9532 and you will be

liner which are installed the same with

where the sloped mortar bed is applied

Oatey provides several products needed Dam Corners – For outside corners and for tile shower installations. Choose from over the curb preformed dam corners the list below before you start your project: are available, which can be used for PVC Note: Oatey pan liner instructions assume

Tile Shower Drain – PVC for PVC drain pipe or ABS for ABS drain pipe. Each is available with stainless steel, polished

X-15 or CPE (Oateyweld) bonding

normally be positioned. Disassemble the *tile shower drain*. Cement mixture mortar bed over the subfloor at 1/4" per foot

FBC-P421.4 General

Shower compartments shall have not less than 900 square inches of interior cross-sectional area.

- Shower compartments shall be not less than 30 inches in minimun
- dimension measured from the finished interior dimension of the shower compartment, exclussive of fixture valves, showerheads, soap dishes, and safety grab bars or rails. Except as required in Section 404, the minimum required area and dimension shall be measured from the finished interior dimension at a height equal to the top of the threshold and at a point tangent to its centerline and shall be continued to a height of not less than 70 inches
- above the shower drain outlet.

Hinged shower doors shall open outward. The wall area above built-in tubs having installed shower heads and in shower compartments shall be constructed in accordance with Section R702.4. Such walls shall form a water-tight joint with each other and with either the tub. receptor or shower floor.

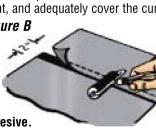
1. Fold-down seats shall be permitted in the shower, provided the required 900-square-inch dimension is maintained when the seat is in the folded-up

2. Shower compartments having not less than 25 inches in minimum dimension measured from the finished interior dimension of the compartment provided that the shower compartment has a cross-sectional area of not less than 1,300 square inches .

421.5.2.1 PVC sheets. Plasticized polyvinyl chloride (PVC) 421.6 Glazing. Windows and doors

3. After the sloped mortar bed has cured, the pan liner dimensions 9. A reinforcement bed of mortar needs to be applied over the to completely cover the floor, turn up all sidewalls at least 2" drywall to the wall study to approximately 1" above the pan above the finished curb height, and adequately cover the curb. liner surface. Note: The use of mortar vs. drywall for the Lay the pan liner on a **Figure B**

clean floor surface, measure, and cut to the appropriate dimensions. Note: Seaming may be required in larger showers. See Figure B. Follow instructions on bonding adhesive.



4. Before installing the pan liner remove the tape from the drain base and apply a 1/4"-3/8" bead of 100% silicone caulk around the upper surface of the drain base approximately 1" in from the outside edge. This will provide a seal between the application place some pea underside of the pan liner and the drain base surface. Screw gravel over the weep holes the clamping ring bolts into the drain base to 2-3 thread depth. Before the caulk dries lay the premeasured pan liner on the floor and over the drain body. At the top of each bolt slit an "X" so the pan liner slides over the bolts and down to the drain base surface. Press pan liner firmly into place to ensure a seal between the drain base and the bottom surface of the pan liner.

5. Work the pan material from the drain body to the sidewall and tile application. See framing and curb threshold so it lays flat on the floor surface. Figure E If desired an adhesive can be used to bond pan liner to the floor and curb. Prior to use of adhesive, confirm compatability of adhesive to the pan liner. Fold corners and nail or staple

Figure D

pan liner to the sidewall framing or wall studs 1/2" below the upper edge of the material **Figure C** Nail or Staple staple the remainder of the pan liner to the sidewall framing or wall studs 1/2" below the upper edge of the

6. For outside corners or curbs where it's necessary to cut the pan liner use a dam corner to cover the cut area. To bond dam corners in the cut area use X-15 for PVC liner installations or Oateyweld for CPE liner installations. See Figure D.

material. See Figure C.

7. Locate where the drain hole is on the drain base and cut out the pan liner material to the dimension of the drain hole on the drain base. Place clamping ring over the bolts and slide the ring counter clockwise so it's locked in place. Tighten the bolts so they're snug. Make sure the weep holes are clear of any residual pan liner material or

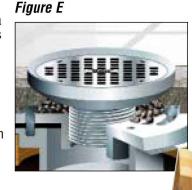
silicone. Note: The clamping ring can increase the height of the finished shower floor by approximately 3/4". You will see the extension if you turn the ring upside down. Simply tighten it to the drain base the way you normally would, only inverted. 8. Water test the installation by closing off the drain pipe opening

with a pneumatic or mechanical test plug. Fill the shower floor with water just below the top of the curb and let it sit for four (4) hours. Observe for leaks and repair if necessary. Retest the installation. Repeat until the installation is leak free. Completely drain the water before proceeding to Step 9.

need to be determined. Pan liner dimensions should be sufficient membrane (see step 11) but before doing so nail water impervious curb should be considered because you can avoid the use of nails as you construct this part of your installation.

> 10. The clamping ring has an inner thread pattern that will accept the drain barrel and strainer assembly. Once you determine the finished height of the shower thread the drain barrel into the inside clamping ring thread so the finished floor will be flush with the top of the drain barrel. As mentioned in step 7 you can increase the shower drain height by inverting the clamping ring.

11. Before the final mortar **Figure E** so the mortar doesn't completely cover them. Now lay the minimum 11/2" reinforcement mortar bed of concrete over the pan liner from the wall to the drain barrel, leaving enough room for the final thinset







Cleveland, Ohio 44135 Phone: 800-321-9532 Fax: 800-321-9535 www.oatey.com

WHERE A SHOWER WALL IS ALSO A ONE HOUR FIRE-RATED WALL, PREPARE OR CONFIRM THOSE STUDS AND WALLBOARDS FIRST MEET THE FIRE DETAILS FIRST BEFORE APPLYING THE WATERPROOFING DETAILS FOR THE SHOWER

SLOPED MORTAR BED (1/4" PER FOOT MINIMUM) ANSI A118.10 WATERPROOF MEMBRANE

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REINFORCED MORTAR BED DRAIN WITH CLAMPING RING

SEALANT -

