

KurbX[®]
STRUCTURAL SHOWER SYSTEMS



KurbIT

CURBED

STRUCTURAL SHOWER SYSTEMS

Add our proprietary low-profile curb to any KurbX system to create a curbed shower

INSTALLATION INSTRUCTIONS



KurbX | Detailed CURBED Shower Installation Instructions

NOTE: All KurbX structural shower pans can be cut on-site using a circular saw with carbide blade.

STEP 1 | Subfloor Prep

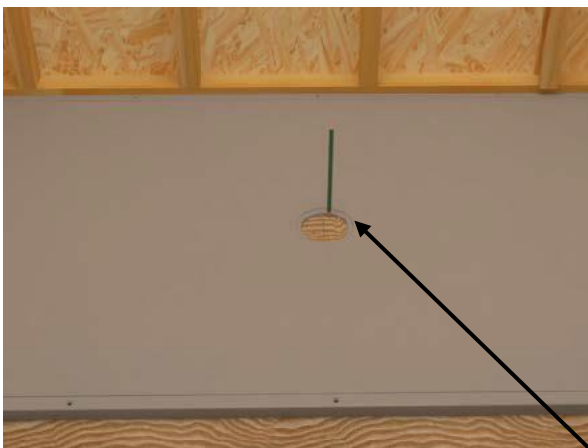
- Clean subfloor and check if for level and flatness.
 - The bubble must be within the lines for proper installation
 - If the subfloor is too far out of level, choose one of the following options:
 1. Apply self-leveler to the entire bathroom floor
 2. Set pan in mortar
 3. Contact KurbX for further assistance



Check subfloor for level & flatness

STEP 2 | Determine pan size and locate the drain center

- First, determine whether the pan needs to be cut or have the pitch extended in any direction to fit the space as desired
- After determining the pan size and orientation, dry-fit the pan and trace the drain hole OR measure the drain center off of the wall plates and mark on subfloor.
- Remove the pan and set aside



Dry-fit the pan and trace drain hole onto subfloor

- After removing the pan, find the joist locations using the nail heads in the subfloor as a guide
- Ensure the drain waste body will be clear of any obstructions such as joists, mechanicals, etc. A 1 3/4" radius from drain center is the required clearance

DO NOT CUT THE PAN UNTIL AFTER DRAIN CLEARANCE IS CONFIRMED



In the event the drain lands on a joist or other mechanical, the following options are available:

- Adjust the drain location by either cutting the pan or moving it away from the wall(s) using the KurbX-ExtendIT Mini Pitch Fillers

STEP 3 | Cut an exploratory drain access hole

- Drill/cut a 5" diameter hole or cut a 5"x 5" square hole in the subfloor to ensure the drain waste is clear of any hidden obstructions such as mechanicals or a support beam



STEP 4a | Setting the drain waste

If there **IS ACCESS** to the drain waste from the underside of the pan:

- the drain waste connector (DWC-825) can be connected to the pan prior to setting the pan in place. The P-trap and waste line can then be connected after the pan has been set. Go to STEP 5 if you **DO** have access from underneath



If there is **NOT DRAIN ACCESS** from below:

- Install the top of the drain waste body 1/8" below the top of subfloor to allow room for gaskets. *(Choosing one of our IP-1 Installation kits with drain support block facilitates this automatically)*
- The top surface of the black rubber gasket should be flush to the top surface of the subfloor. The tail piece and drain waste body should also have a little play in all directions

TIP: Cut 2" tail piece off at 1-7/16" below bottom of pan/top of subfloor and glue Drain body on until it bottoms out on tail piece.

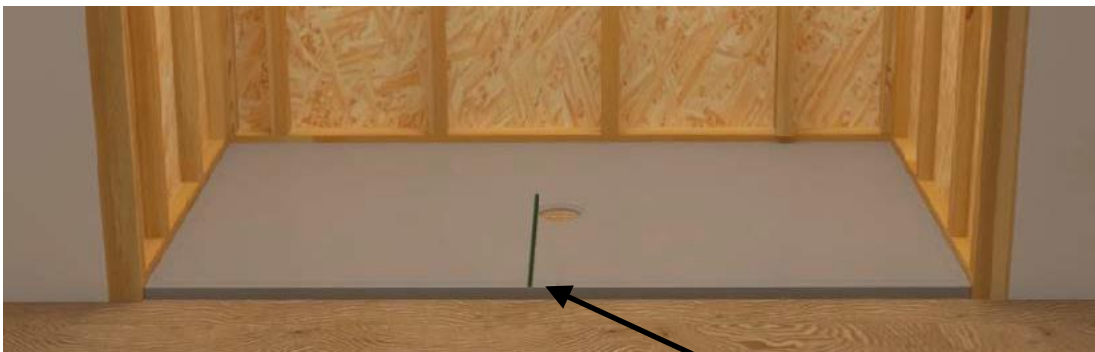
- Drain tail piece must be plumb and the top surface of the DWC825 must be level



Drain support block installation

STEP 4b | Dry fit pan

- **ALWAYS** dry-fit the pan to ensure the drain hole and the drain waste line up correctly for proper threading. Trace exposed edges of pan onto the subfloor



Trace any exposed edge of the pan during dry-fit

STEP 5 | Apply construction adhesive

- Apply a liberal amount (1/2" - 3/4" bead) of provided KurbX or polyurethane construction adhesive to the top of the subfloor throughout the field of the pan being careful not to apply too much around the perimeter of the pan or the drain area. A 1/4" bead is sufficient around the perimeter and the drain area

IMPORTANT Keep the construction adhesive a **minimum** of 2" away from any exposed edge(s) of the pan and 2" from the perimeter of the drain waste connector.

Start by applying adhesive at approximately 16" on center throughout the field. Use up the remaining adhesive as you see fit per the size of the pan.



TIP: Sliding the pan into position along a wall makes for an easy install. Leave 1- 1/2" strip along the wall plate free from adhesive to accommodate pan

STEP 6 | Set the pan and connect the drain waste connector (DWC-825)

IMPORTANT Set the gaskets in place on top of the drain body prior to setting the pan. Teflon first, then rubber. The rubber gasket will always be in direct contact with the bottom of the shower pan.

The drain gaskets can be put in after the pan is set but it may be more difficult. This is one of the reasons we want to have a little play in the tail piece and DWC825 in all directions. See video on installing drain gaskets after the pan is set at Kurbx.com



Teflon gasket then rubber gasket



Rubber gasket will always contact the pan

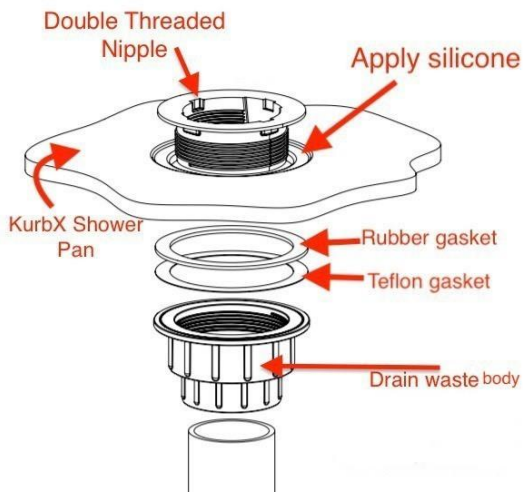


Set pan into adhesive



Apply body weight throughout the pan

- Secure the drain waste (DWC825) to the pan prior to screwing the pan down to the subfloor. This allows for slight pan adjustments to be made easily if necessary
- Apply a small bead of silicone to the recessed flange prior to threading in the double threaded nipple



Apply a small bead of silicone to recessed flange



Screw the double threaded nipple into the drain waste body by hand until tight

- After hand tightening the double threaded nipple, use a tri-square or similar sturdy square stock to tighten the double threaded nipple an additional 1/4 turn or until snug using the slots provided

IMPORTANT Do **not** over tighten



After hand tightening, use square to tighten $\frac{1}{4}$ turn more or until snug. **IMPORTANT** do **not** overtighten

- Clean any excess silicone off of the pan immediately using gorilla wipes.

Fasten the pan to subfloor

- Fasten the pan to the subfloor with the provided #9 - 2" Coated deck screws using the piloted, counter sunk holes. Screw should be snug but not over tightened
- If necessary, remove any excess construction adhesive from the front of the pan so not to interfere with the curb installation
- Although the pans are naturally bowed & weighted to form tightly to the subfloor, it's good practice to apply additional weight to the drain area for a minimum of 1/2 hr to ensure a good bond and proper drainage. A bag of thin-set and/or bucket of waterproofing works well
- If connecting to existing plumbing stack, plug the drain with a rag or similar before continuing with the installation to avoid vapor escape

STEP 7 | Install the tile backer

- Install Backer board tight to the KurbX shower pan. Keep all joints as tight as possible and set screw heads flush
 - KurbX recommends 3x5 sheets of lightweight backer board, but our liquid membrane will stick to most substrates including but not limited to:
 - Fiber rock
 - Cement board
 - Drywall/green board
 - Foam board
 - Cementitious coated foam board

KurbX structural pans are incredibly strong and durable enough to set ladders upon, drop standard hand tools, accept fold down seat legs etc. You don't need to install the pan last or walk on eggshells while working on top of it. It can also be installed during the rough framing phase of new construction.

Spot fixes for tile is as easy as it gets and there's no chance for waterproofing issues within the field of the pan when doing so.



Install tile backer on walls and floors

STEP 8a | KurbIT – KurbX shower curb installation

- KurbX - KurbIT shower curbs come in 2' & 3' lengths. Choose a combination of sizes that work for your application
- For instructional purposes, we will be using a 5' alcove scenario (Tub replacement size)
- Determine the curb length by measuring wall to wall and subtracting 3/8"
- Combine a 2' & 3' curb in-line and cut to measured length
- Using a 1/4" notch trowel, apply modified thin-set to the substrate and wall areas that will receive the curb. It's a good idea to run a damp sponge over any substrate that will be accepting thin-set when setting the curb. It not only cleans the surface, but it also encourages a smooth cure rate of the thin-set



Apply 1/4" notch to substrate

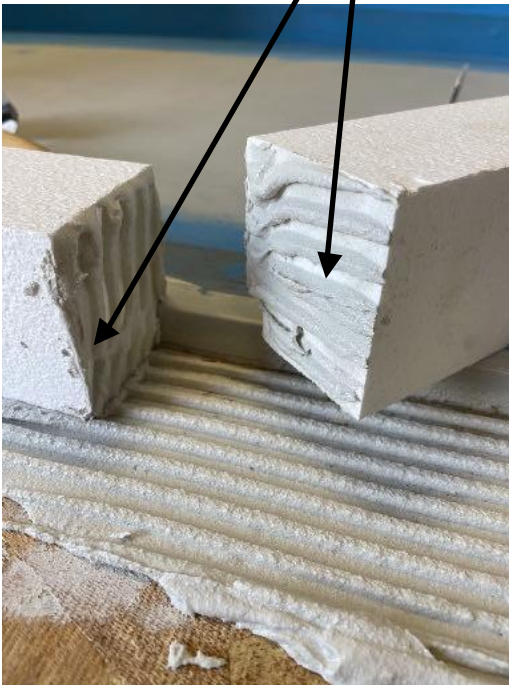


Apply 1/4" notch up wall to receive curb end

- Using a 1/4" notch trowel, apply modified thin-set to each end of the curbs (4) as well as the bottom of the curb. Do not apply thin-set to the notched part of the curb. It will not allow you to waterproof until it has cured
- Apply a full 1/4" thin-set notch on the accepting substrate in the opposite direction (90°) of how it is applied to the product creating a waffling effect when embedded



Set curbs with notched thin-set going in opposite directions to create waffling effect

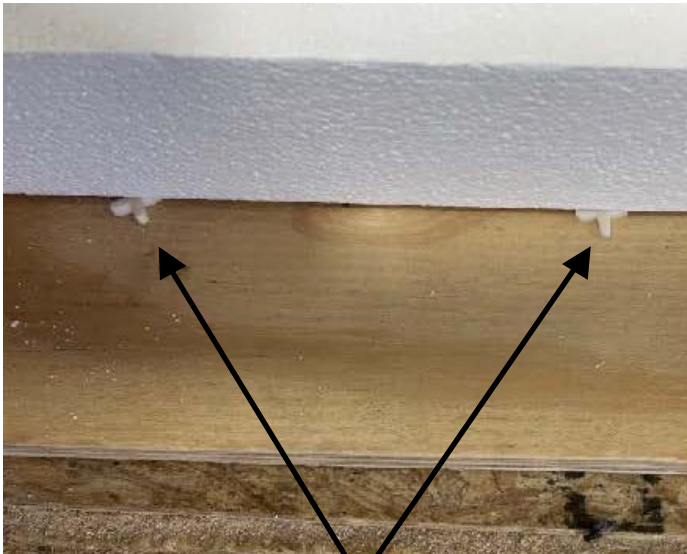


Remove excess thin-set from notched section of the curb

- Avoid getting thin-set onto the face of shower pan as well. This will allow you to install the curb tight to the face of the pan forcing the curb to self-straighten by using the edge of the shower pan as a straight edge
- Install the first curb into the thin-set
 - Slide the provided 1/8" tile spacers under the outside edge of the curb
 - Press curb down into the thin-set until the inside edge hits the pan and the outside edge hits the 1/8" tile spacers. Do not apply too much pressure

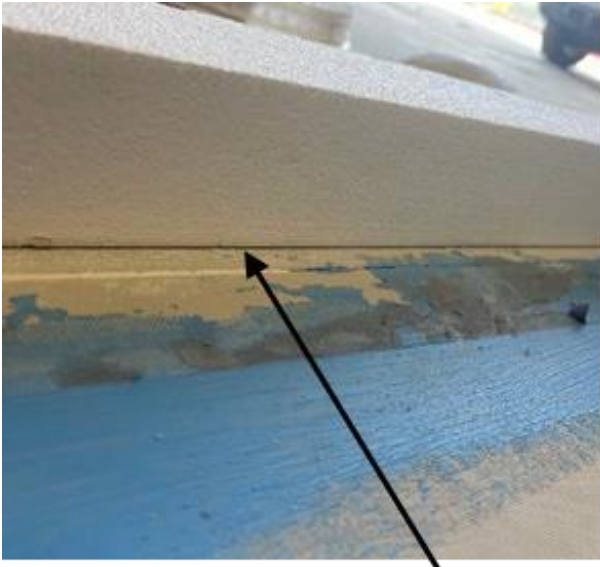


Remove thin-set from all pan areas

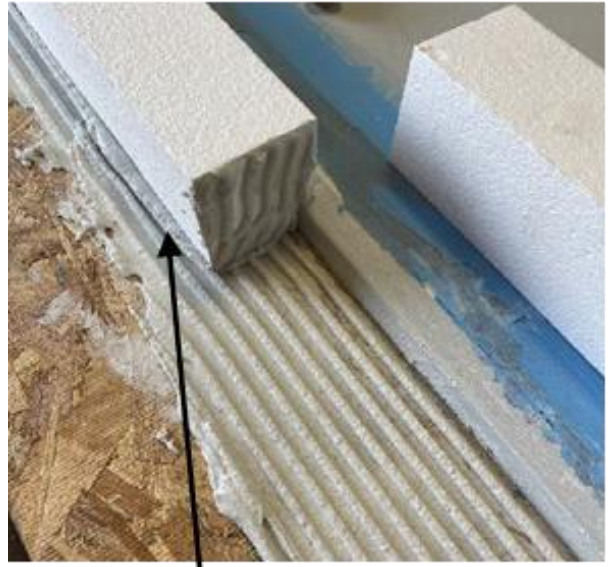


Provided 1/8" tile spacers under outside edge of the curb

- Press curb lightly toward the wall it is sitting against to provide room for the next curb



Inside edge is tight to the pan



Outside edge sets onto provided 1/8" tile spacers

- Install second curb into thin-set starting at the wall



Keeping the curb elevated enough to avoid thin-set contact at the base is good practice

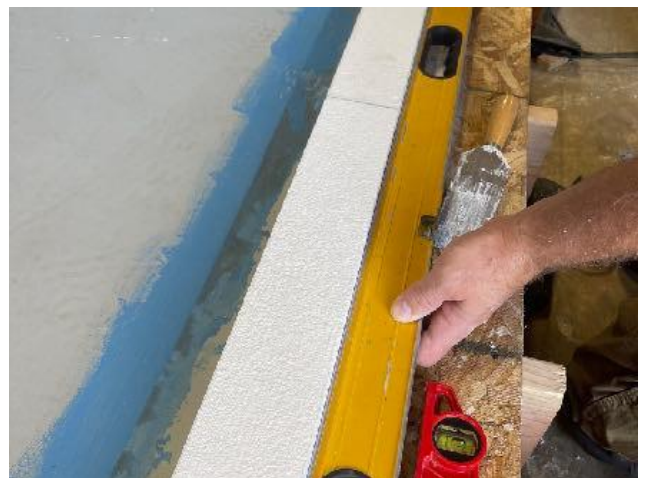


Keep pressure on the curbs towards the outside walls to avoid losing too much thin-set when sliding the second curb in to meet the first one



Remove excess thin-set from floor and walls after the curb is in position

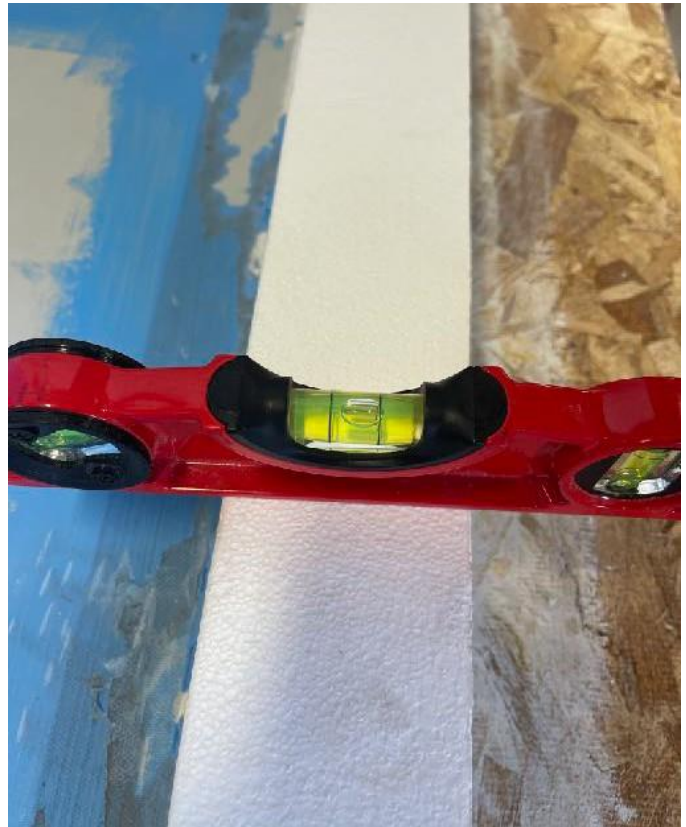
- Check for level and for a straight plane across the front face and the top surface



- Check that the curb face is plumb and that there is a slight pitch towards the shower on the top of the curb



Check face of the curb for plumb



Level must show slight pitch toward the shower

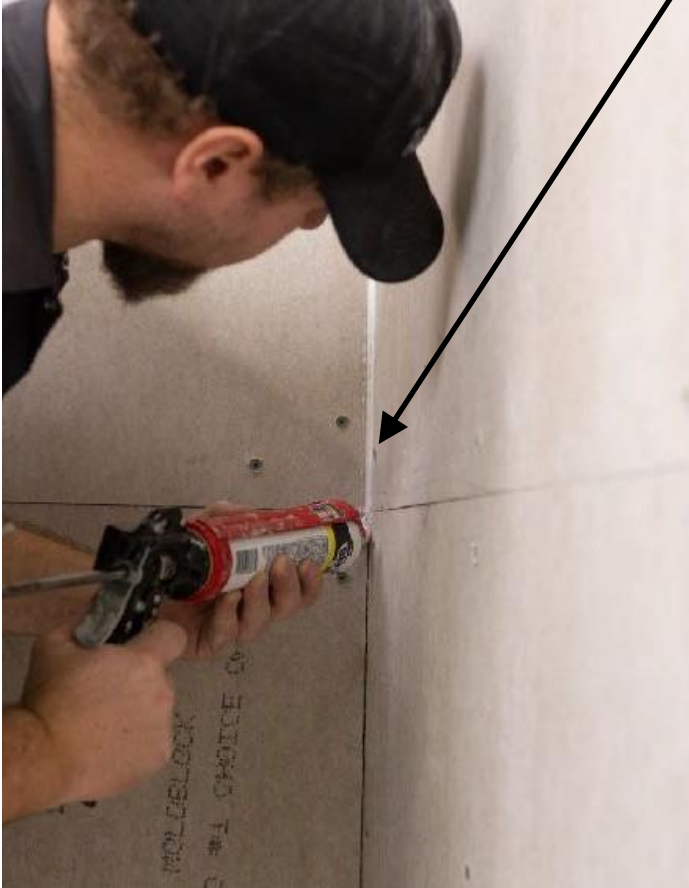


Make sure the curb is level

- It's important for the curb to set-up and the thin-set to cure for at least 30 minutes prior to beginning the waterproofing. Begin the waterproofing process by pre-cutting the tape and starting on the back and side walls with the inside corners and wall joints. This will give the curb time to set-up before beginning the waterproofing process

STEP 8b | Final prep for waterproofing

- Fill all cracks between backer board/pan, backer board/backer board that are larger than 1/8". Use the provided Latex acrylic caulk



Use paintable, acrylic latex caulk



Make sure the curb is level

SEELIT waterproofing system

STEP 9a | Install joint reinforcement tape & corners

- Precut all KurbX SeeLIT joint tape to length

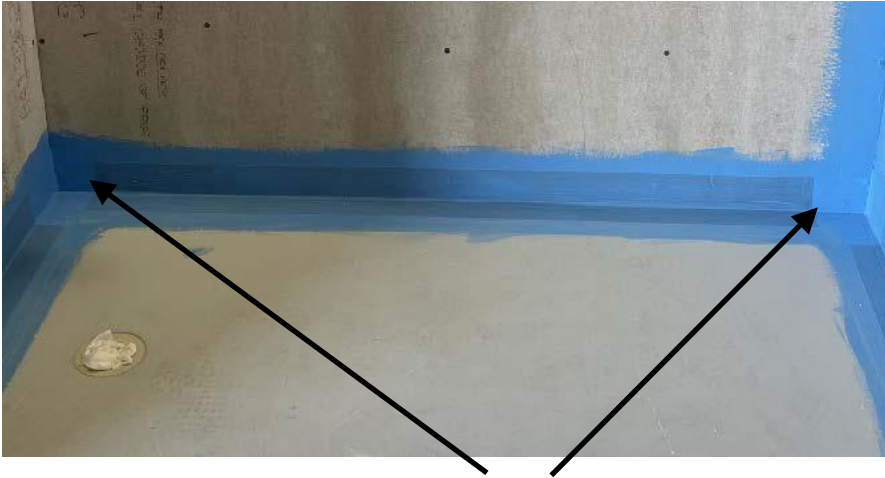
IMPORTANT Overlap **ALL** joints a minimum of 1”

- Using a 4” disposable paint brush, brush a healthy coat of SeeLIT waterproofing onto the substrates that will accept the corners. Next, embed the inside and the outside corners into liquid membrane and cover with another coat of waterproofing



Apply healthy coat to substrate that will accept tape and corners

- Install all horizontal joint tape between the already embedded corners being sure to overlap corners a minimum of 1"



Overlap the tape a minimum of 1" onto corners

- Embed joint tape into waterproofing on all vertical joints (both inside corners and flat joints where the backer board meets the drywall if applicable) and cover with another coat
- Embed joint tape into waterproofing on all horizontal joints and cover with another coat



Vertical inside corner embedded



Overlap minimum of 1"

STEP 9b | Waterproofing the curb

- Install inside corners after trimming
- Install joint tape so that it covers a minimum of 1" of the pan. The remainder will be wrapped up and around the top of the curb.

NOTE: The tape is not wide enough to cover the entire top of the curb, but 2 coats of waterproofing is more than enough to seal the top of curb including curb joint.



Embed tape on the top of curb first



Coat over the tape on top of the curb



- Fold tape over the curb into healthy coat of liquid being sure to keep corners tight



Make sure the tape wraps onto the pan by a minimum of 1". Keep inside corner tight



Embed curb covers at walls





- Once all joint tape is embedded, you may immediately begin tanking the shower with a 3/8" nap roller

STEP 9c | Sealing the shower

- The SeeLIT system requires two (2) coats and must achieve a minimum of 20 mils dry thickness
- Drying time per coat is 1/2 hr. – 1-1/2 hrs. in ideal room conditions (70°F/50% RH)
- The first coat **must** completely dry before applying the second coat

Apply first coat of waterproofing to the entire shower except for the pan field using a 3/8" nap roller



Apply first coat in either a vertical or horizontal direction



The second coat will be applied in the opposite direction (90 degrees) as the first coat



When tanking the shower, the perimeter tape can be coated using a roller (as shown) or a 4" brush



- Use your 4" brush to smooth out all inside and outside corners to ensure a smooth coat with no lumps or streaks
- The field of the pan only needs one (1) coat of waterproofing
- The raw pan can be cleaned with a damp sponge/rag

IMPORTANT never waterproof over moisture, the pan must be completely dry before applying waterproofing



After 1 coat of waterproofing
(somewhat transparent)



After 2 coats of waterproofing
(not transparent) besides pan field

STEP 10 | Install the drain riser frame

- Thread the drain riser into the double threaded nipple to the desired height determined by the tile thickness and notch trowel size.

TIP: Set riser into double threaded nipple and slowly turn counterclockwise until you feel it click into place. Then begin threading in clockwise. It should thread very easily. **DO NOT FORCE!**

NOTE: The riser should thread in very easily until you get to the be about ½" from the frame bottoming out on the pan. It will then get harder as you near the end of the threads. This is normal and will keep the drain more stable which will improve strength of the final grout joint at the perimeter of the grate frame.

- Pack thin-set in between drain corners and pan after the desired height is achieved to improve stability

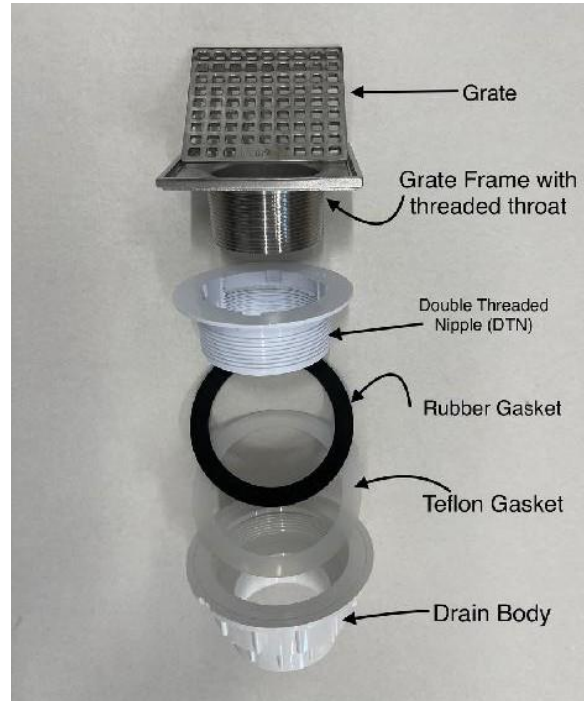


KurbX drain riser threaded into
double threaded nipple

STEP 11 | Install tile

- Clean surfaces prior to tiling
- Use modified latex thin-set to set tile

Key product photos with descriptions



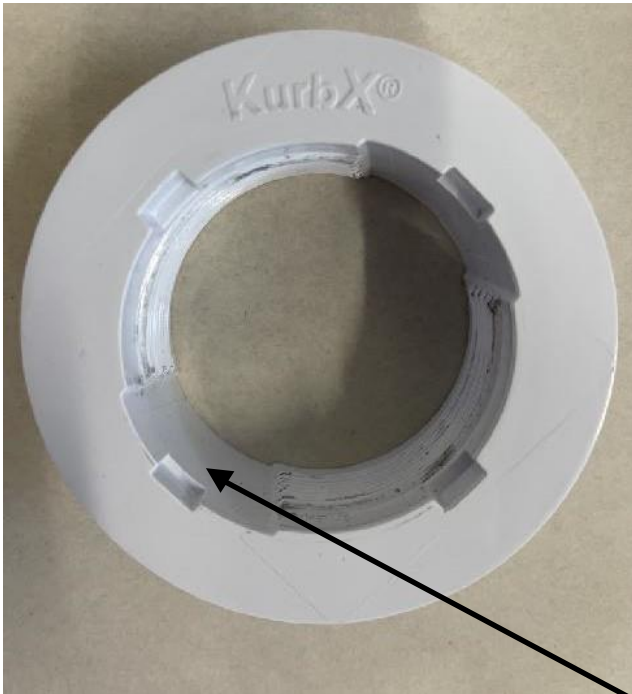
Balloon picture of complete drain assembly



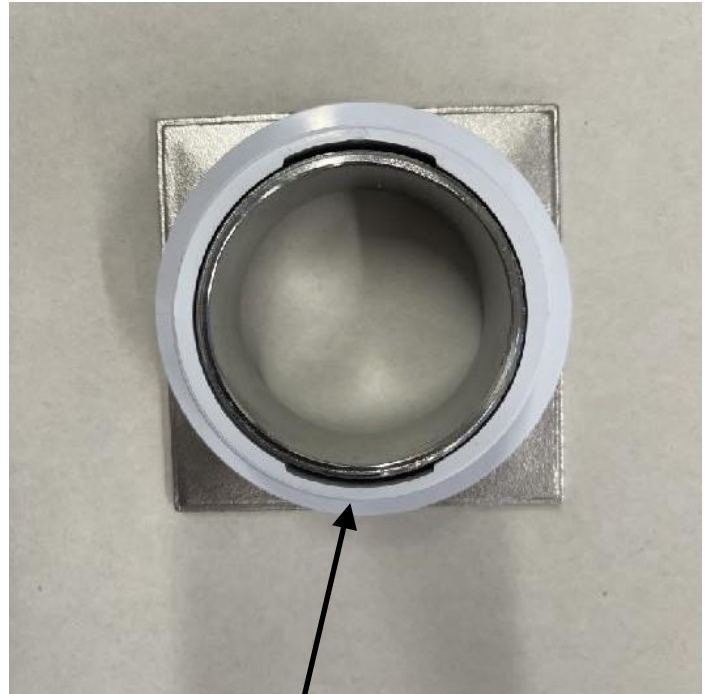
Drain frame with construction cover and grate key



Drain riser threaded into double threaded nipple after connection to pan



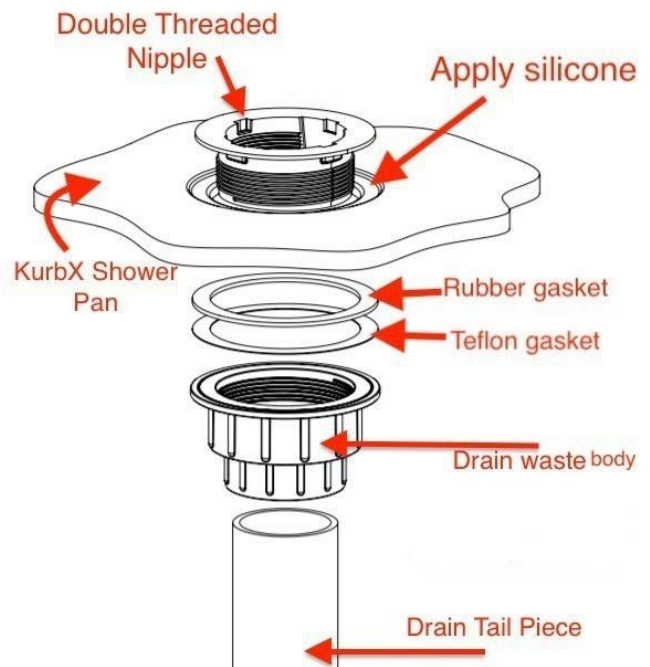
Double threaded nipple



Missing threads = weep holes



Drain waste connector only (DWC825-PVC-2)



Drain waste (DWC825-PVC-2) connection to pan



Drain support block for applications where there is no plumbing from underneath



2 - 12" Drain support block cleats used for additional support in curbed scenarios



LH & RH SeeLIT curb covers for waterproofing the curb ends at wall (SeeLIT-COVERS)



Internal corners for waterproofing (SeeLIT-INT-2)



External corners for waterproofing (SeeLIT-EXT-2)



Joint tape (SeeLIT-JT-82 & SeeLIT-JT-27)



SeeLIT – Liquid waterproof membrane (SeeLIT-SOLO-2GAL & SeeLIT-SOLO-1/2GAL)

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Key product photos with descriptions