FOR CURB INSTALLATION INSTRUCTIONS PLEASE REFER TO THE KURBIT BOX

KurbX®
STRUCTURAL SHOWER SYSTEMS

Stay ahead of the curb with KurbX.

CURBLESS

STRUCTURAL SHOWER SYSTEMS

Install the easiest tile-over curbless shower system on the market!

INSTALLATION INSTRUCTIONS

KurbX | Detailed CURBLESS Shower Installation Instructions

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

STEP 1 | Prep

- Clean subfloor and check for level and flatness.
  - If the floor is uneven and/or out of level an unacceptable amount, you will need to address this after removing the subfloor but prior to setting the pan
    - Options for achieving a level/flat substrate
      - Sister 2x4's on to joists
      - Fill joist spaces with solid 3/4" ply and set pan in mud

Check subfloor for level & flatness

STEP 2 | Determine pan size and locate the drain center

- Determine whether the pan needs to be cut of have the pitch extended in any direction to fit the space as desired
  - Install +/- 1/8" spacers where the pan meets the bottom plate(s)
    - Use screws, nails or shims for spacers
  - Dry-fit the pan and trace the drain hole to find center OR in the case of having to cut or extend the pitch of the pan, measure the drain center off of the spacers and mark on subfloor
  - Remove the pan and set aside

- Locate the joists 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 2 1/8" 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:

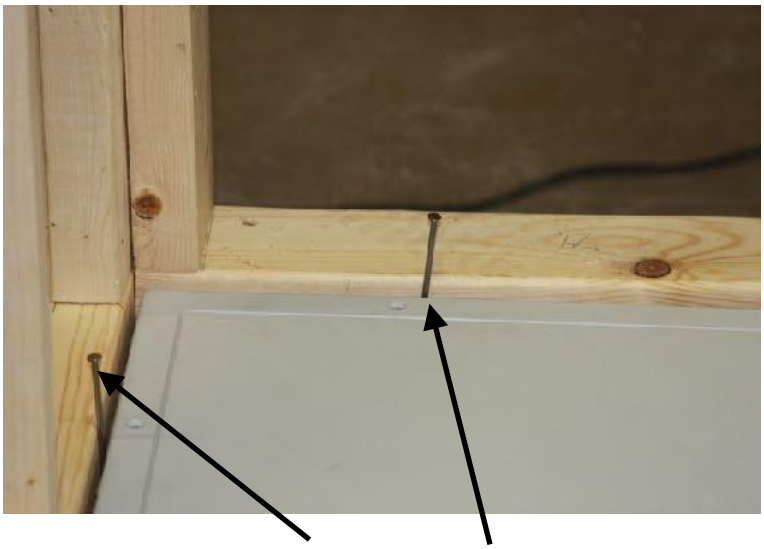
- Adjust the drain location by either cutting the pan or moving it away from the wall(s) using the KurbX-ExtendIT Mini Pitch Fillers

STEP 3 | Cut an exploratory drain access hole

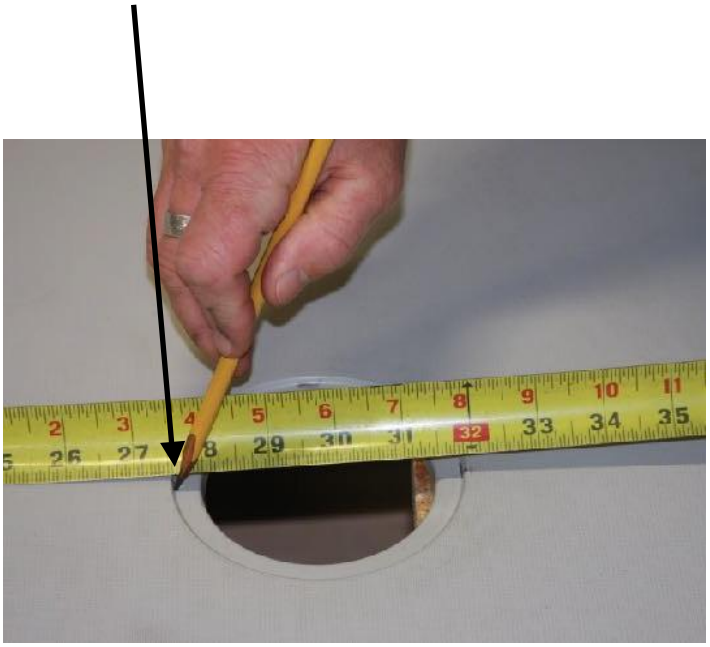
- Cut a 5"x 5" square hole in the subfloor to ensure proper drain waste clearance of any hidden mechanicals

STEP 4 | Dry fit the pan

1. Install spacers (nails or screws) tight to the wall plate prior to dry fitting the pan
2. Set the pan in place tight to spacers or in desired location if away from wall plates
3. Measure off of 2 adjacent walls to the edge of the recessed flange and record the dimensions for reference later in Step 6a.
4. Trace all exposed pan edges onto subfloor
5. Remove pan and spacers



1. Install spacers (nails or screws) tight to wall plates
2. Dry-fit pan tight to spacers (screws)



4. Measure from 2 adjacent bottom plates to edge of recessed flange & record dimensions

3 continued

3. Trace exposed edges onto subfloor

STEP 5 | **Remove subfloor**

- We recommend using the Dremel Ultra Saw with flush cut blade to cut tightly along the bottom plates
- Set the depth of your saw(s) to the subfloor thickness and cut the traced edges of pan. It's good practice to take the line when cutting
- Pull all nails or screws and remove subfloor with a heavy-duty crowbar
- Clean any old glue off of joists with a multi-tool

Use Dremel Ultra Saw with flush cut blade against wall plates

Set saw blade depth to the thickness of the subfloor and cut along traced lines

Finish cuts with multi-tool

Clean top of joists with multi-tool

STEP 6a | Install the drain support block

- Set the drain support block on top of the joists so that it spans the space that will contain the plumbing
- Set the drain body into the drain support block hole
- Using your previously recorded measurements from Step 4C, measure off the same 2 walls to the edge of the outer drain body flange while keeping the block square to the joists

NOTE: The block can be rotated to fit all 16” O.C. joists and most 19 1/4” joists. Simply add blocking to support the drain support block in 24” O.C. scenarios

- When in position trace the drain support block edges on top of joists (*bottom left*) and trace the top of the joists onto the bottom of the drain support block (*bottom right*)

Trace drain support block edges on top of joists

Trace bottom of drain support block along top of joists

- Flip the drain support block over and cut it to length along the traced lines

TIP: Cut on the opposite sides of the traced lines so you end up with a little play when installing the block between the joists

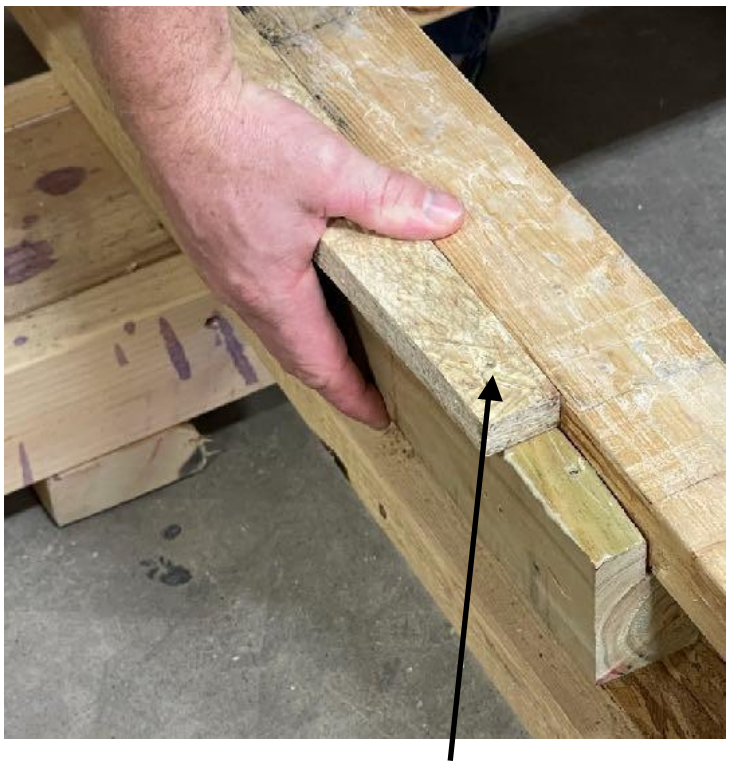
TIP: After cutting the drain support block to length, use the cut off piece as a height adjustment spacer for the drain support block cleats (something 1”-2” wide works best)

Cut drain support to length using the traced lines

Cut 1-2” strip off leftover drain support block for spacer

- The drain support block cleats are notched on one side to fit most engineered I-joists. I-joists with top and bottom cords larger than 2 1/2” may require the block to be furred out.

Notched drain support block cleat fits I-joist



Use drain support block cut off spacer to set cleat height, so the top of the drain support block is flush to top of joist

- Using the drain support block cut off spacers to set the cleat height, fasten the drain support block cleats to the joists using the provided 3” screws so that the top of the drain support block spacer is flush to the top of the joists. We recommend using polyurethane construction adhesive between wood connections

TIP: Use a finish impulse nailer to set the block in position before screwing

Cleat with notched side up to fit I-joist

Cleat with notched side down for dimensional joists

- Glue and screw the drain support block down to the cleats

Line drain support block up with traced lines on joist then fasten to drain support block cleats

STEP 6b | Install perimeter and intermediate blocking

NOTE: All blocking details for 16" O.C., 19.25" O.C., and 24" O.C. can be found under the installation tab at kurbx.com

- Perimeter blocking is mandatory
- Cut 2x4's, or larger, to support the perimeter of the pan as well as the adjacent subfloor
- Glue and screw the blocks through the subfloor first to suck the block up tight. Then fasten to the joists. See joist manufacturer's recommended methods of fastening to engineered I- joists.
- Install intermediate flat 2x4 blocking between joists 16" O.C. to help maintain the shear strength of the floor assembly.

Glue and screw the flat blocks through the subfloor first to suck the block up tight. Split the block so ½ of the block is supporting the subfloor and ½ will support the pan

NOTE: For **bariatric installations**, install ¾" plywood between the joists and install the pan in mortar. If a fold down seat is being installed, figure the approximate location of the seat legs/feet and install a minimum of a flat 2x4, flush to the top of the joists, under each seat foot prior to setting the pan.

STEP 7 | Set the drain waste body into the drain support block

- The drain support block counterbore is precision routed to the perfect depth creating a flawless installation of the drain waste connector
- Set the drain body only into the recessed hole of the drain support block. Hook up the remaining plumbing line (tail piece, trap, etc.) making sure the drain waste connector flange stays tight to the bottom of the routed drain support block. Once the teflon and rubber gaskets are installed on top of the drain waste connector, the top of the rubber gasket will be flush to the top of the drain support block. The rubber gasket must always come in direct contact with bottom of pan.

NOTE TO PLUMBER: Allow a little play in the drain waste in all directions. The waste configuration will become very solid once the drain waste connector is fastened to the pan so additional strapping is not necessary.

STEP 8 | Apply provided KurbX or polyurethane construction adhesive to the substrate

IMPORTANT Keep adhesive at least 2” from the perimeter of the drain waste connector

- Use a small (1/4”) bead around the perimeter of the pan and around the drain waste remembering to stay a minimum of 2” away from the perimeter of the drain waste

GLUING TIP: Keep the glue to the inside edge of perimeter blocking on the side that you will want to slide the pan in on. This will allow you to slide the pan in without scraping up all the adhesive

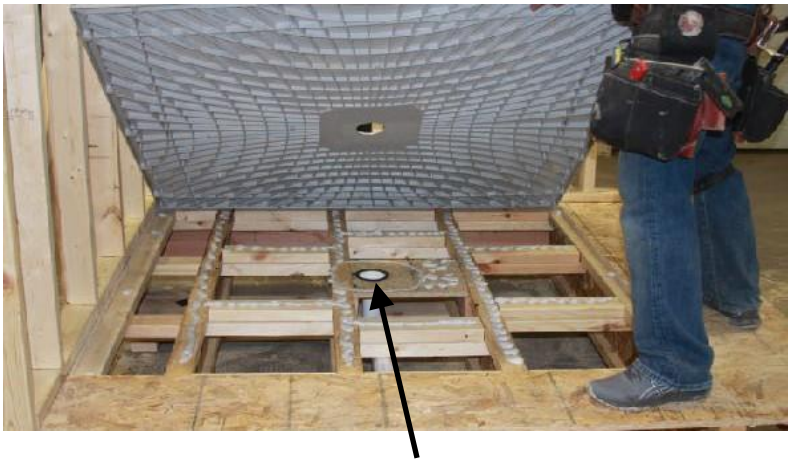
- Use a heavy bead (1/2”-3/4”) on top of joists and blocking throughout the field of the pan

STEP 9 | Set the shower pan into adhesive

- Install the drain waste connector gaskets prior to setting the pan
  - Install the teflon gasket first, then the rubber gasket
    - The rubber gasket must always be in direct contact with the bottom of the pan

NOTE: Forgot to install the gaskets prior to setting the pan? Good news, they can be installed after the fact. See the *"How to install drain gaskets after the pan has been set"* video at KurbX.com Drain gaskets install under the installation tab in the you asked, we answered section

- Set the pan into place and apply weight by walking heavily throughout the pan



Make sure gaskets are in before setting the pan

STEP 10 | Connect the double threaded nipple

- Connect the drain waste to the pan prior to fastening the pan to the substrate. This allows for slight adjustments to be made if necessary
- Apply a small bead of silicone to the recessed flange that will accept the double threaded nipple
- Check that the gaskets are in place and that the rubber gasket is coming in direct contact with the bottom of the pan
- Screw the double threaded nipple by hand until snug

Apply a small bead of silicone to recessed flange

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

- Use a speed square or similar tool to tighten the double threaded nipple an additional 1/4 turn or until snug. **DO NOT OVERTIGHTEN**

Insert speed square or similar tool into the notches and tighten an additional ¼ turn or until snug. ***Do not over tighten***

- Clean any excess silicone off the pan surface with gorilla wipes

STEP 11a | Fasten the pan down and install tile backer

- Use the provided 2” screws to fasten the pan to the substrate through the factory countersunk holes

TIP: If the countersunk holes were cut off when sizing the pan, flip the pan upside down and do the following:

- Pre-drill holes, similar spacing as the factory holes, from the underside of the pan at approximately 3/4” from the cut edge and in between the ribs using a standard 3/16” drill bit.
- Flip the pan back over and use a 3/8” masonry or step bit to create a counter sink. **The screw head must end up flush or slightly depressed from the top of the pan.**

TIP: Using a wood counter sink or 3/8” wood drill bit can potentially punch through the surface so use caution and go slowly.

NOTE: Screws should be flush to top of pan when installed.

Install Backer board tight to the KurbX shower pan. Keep all joints as tight as possible

- KurbX recommends 3x5 sheets of lightweight board, but our liquid membrane will stick to most substrates including but not limited to:
  - Cement board
  - Fiber rock
  - 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 without damage, 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 stages 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.

STEP 11b | Final prep for waterproofing

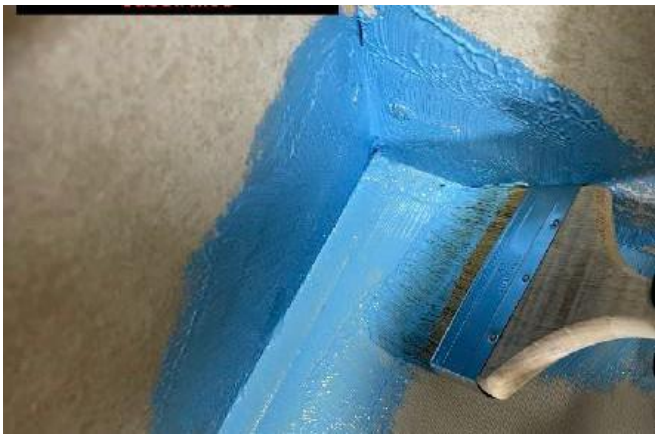
- Fill all screw heads
- Fill all cracks between backer board/pan, backer board/backer board that are larger than 1/16". Use the provided Latex acrylic caulk

Use paintable, acrylic latex caulk

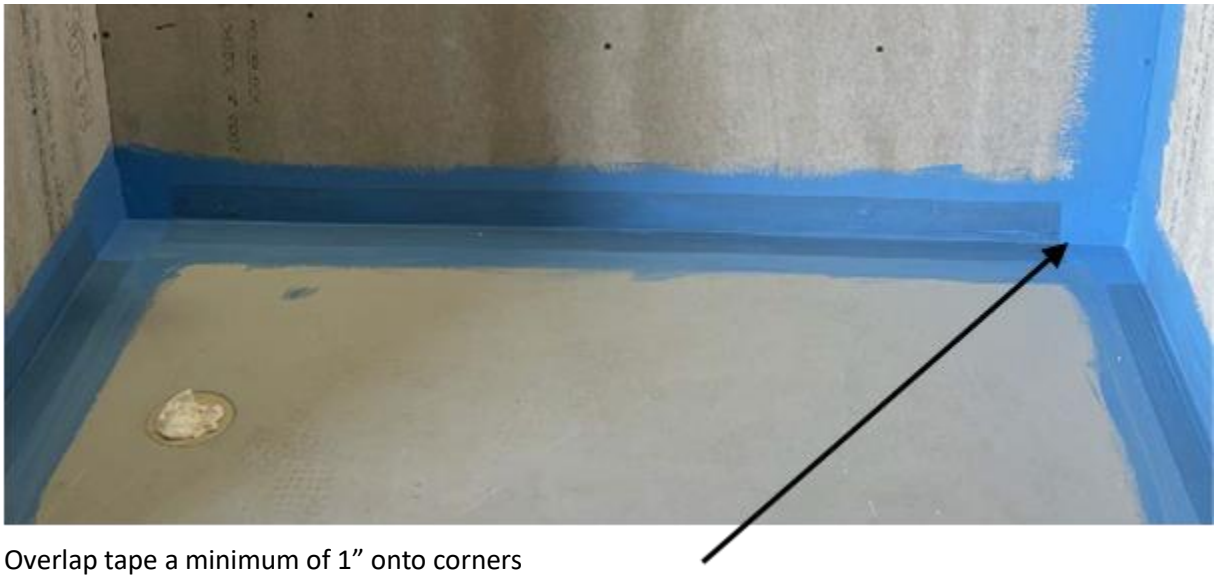
Do ***not*** use pure silicone! Some acrylic caulks contain silicone which is fine, just make sure it is paintable

STEP 12 | SeeLIT – Waterproofing system

- **Install joint reinforcement tape**
  - Precut all KurbX SeeLIT joint tape to length
    - **OVERLAP ALL TAPE JOINTS A MINIMUM OF 1”**
  - Using the provided 4” disposable paint brush, brush a healthy coat of SeeLIT waterproofing onto the substrates that will accept the corner. Next, embed inside corners into liquid membrane and cover with another coat of waterproofing



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



Overlap 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

Overlap all tapes a minimum of 1”

Vertical inside corner embedded

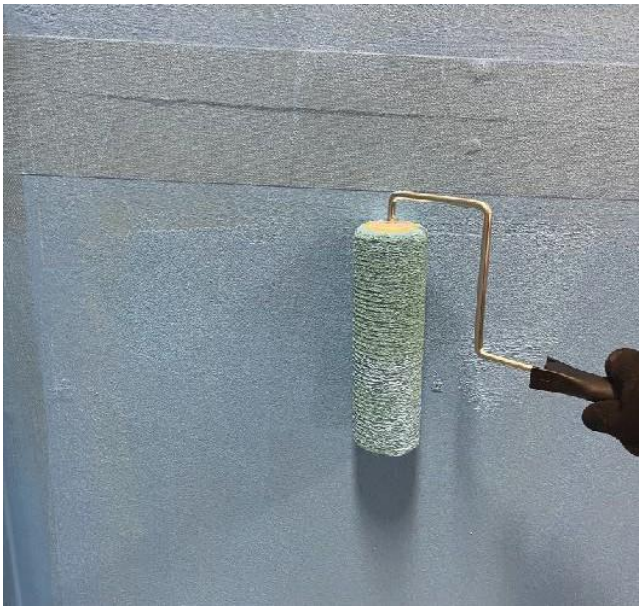
Once all joint tape is embedded you may immediately begin seeling the shower with a 3/8” nap roller

Seeling the entire shower

- The SeeLIT system requires 2 coats on every surface *except* the field of the pan (1 coat) 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 of (70°F/50% RH)
- The first coat must be completely dry to the touch before applying the second coat
- Apply the second coat at 90 degree direction to first coat
- The field of the pan only needs 1 coat of waterproofing.

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

Apply the 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

After 1 coat of waterproofing
(somewhat transparent)

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

STEP 13 | 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.

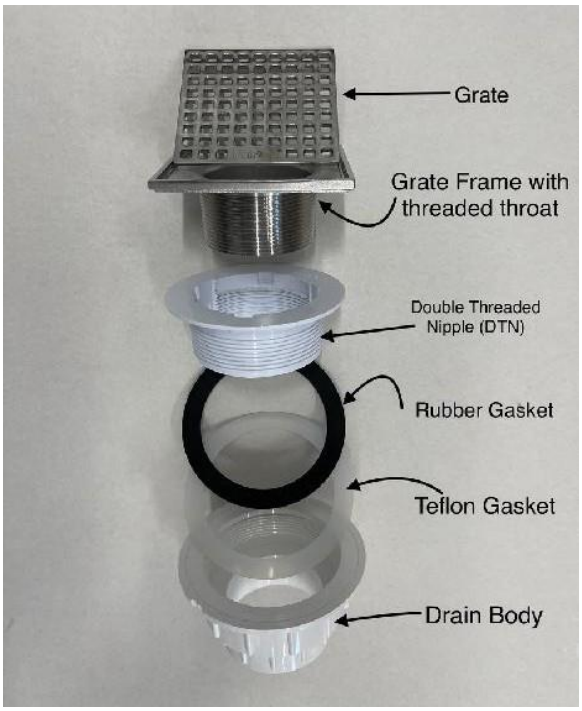
- Pack thin-set in between drain corners and pan after the desired height is achieved to improve stability.

KurbX drain threaded into double threaded nipple

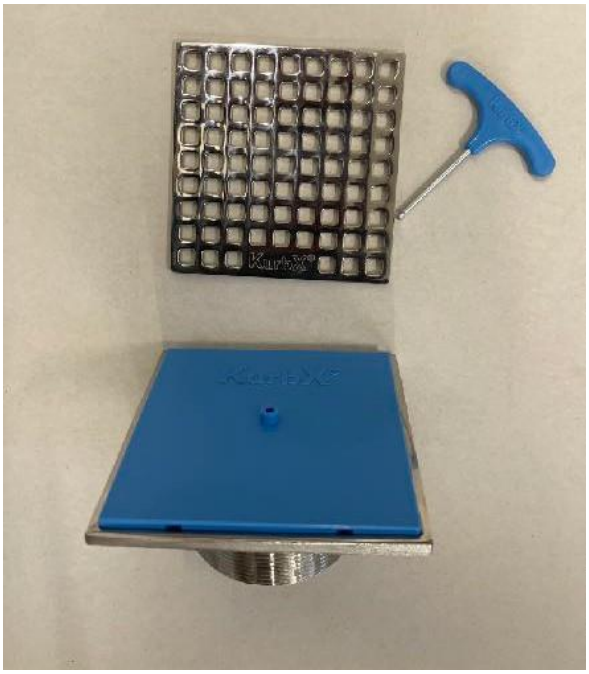
STEP 14 | Set tile

- Use modified latex thin-set to set tile

Key product photos with descriptions

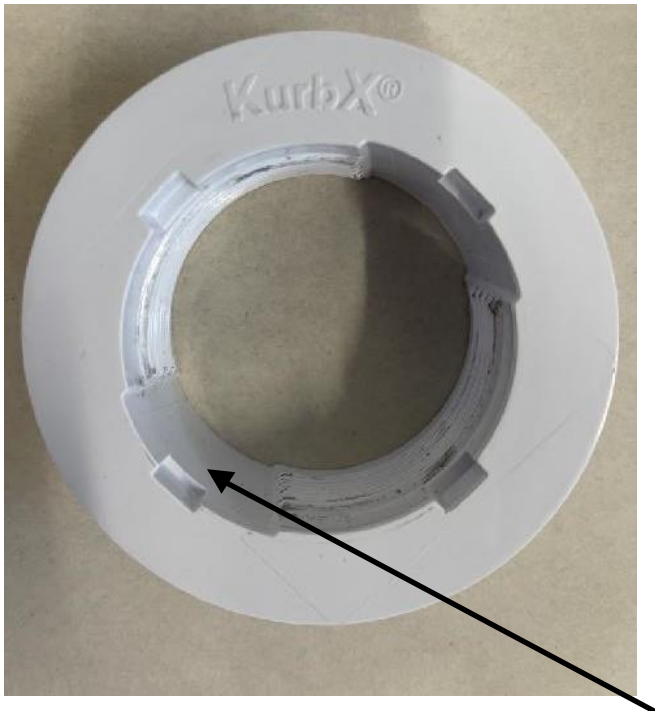


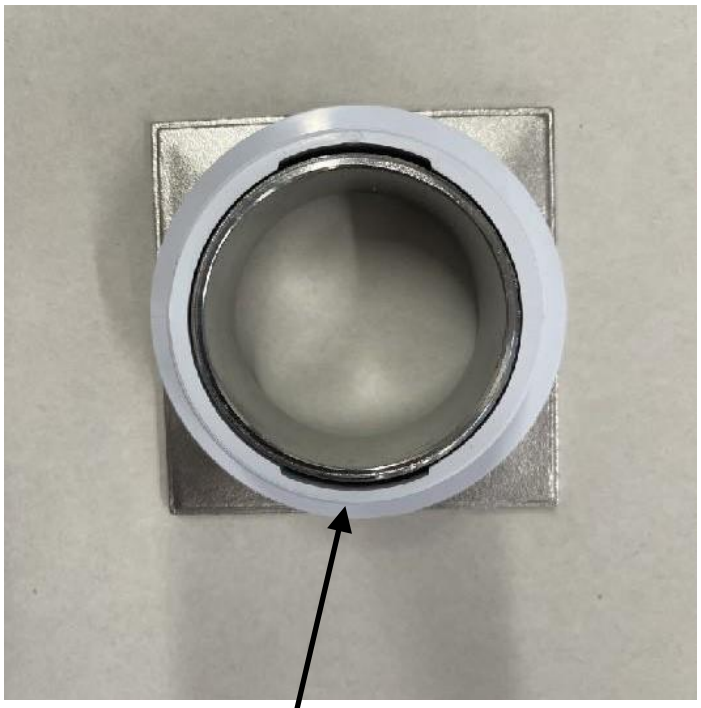
Balloon picture of complete drain assembly



Drain frame with construction cover and grate key

Drain riser threaded into double threaded nipple after connection to pan

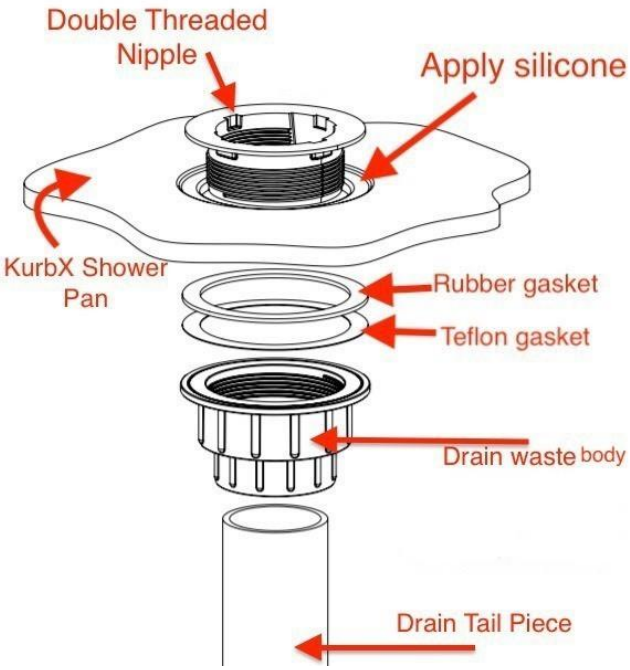




Double threaded nipple

Missing threads = weep holes

Drain waste connector only (DWC825-PVC-2)



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

Drain support block

Drain support block cleats

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

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