**INSTALLATION INSTRUCTIONS**

**DRAIN PLACEMENT**

- Linear drains using stainless steel grates are most commonly placed against the end wall, side wall or shower threshold. However, they can be placed anywhere as long as there is a 1/2" per ft. slope to the drain. The 1" flange allows the grate to finish flush to the wall tile.

- Any waterproofing layer should be supported by a pitched slope of 1/4" per ft. towards the drain whether waterproofing membrane coat is under thick bed mortar or on top.

- Composeal Reinforcing Fabric should always be used with Composeal AquaShell or comparable Liquid Applied Membranes for gaps of more than 1/6". It is recommended to use a 4" strip of reinforcing fabric where the drain flange and mortar bed meet as well as for any floor to wall transitions for added durability.

**METHOD 1 – TRADITIONAL SHOWER PAN**

- Waterproofing is installed under thick-bed mortar using Composeal Blue or Composeal Grey Shower Pan Membrane or Composeal AquaShell Liquid Applied Membrane.

- This method uses a traditional clamping-ring type drain assembly with clear weep holes and is performed in exactly the same way as a traditional shower drain assembly.

**GRADE PLACEMENT**

- When using stainless steel grates, set floor tile 1/16" from the edge of the grate to allow for smooth installation and removal of grate.

- Compoite Gurate Risers™ (included with stainless steel grates) should be used to install the grate at the proper height, slightly below level of surface tile (approx. 1/6") to ensure proper drainage.

**DRAIN ATTACHMENT**

- A 2" threaded coupling can be used to connect the linear drain body to the upper part of the clamping ring assembly. Drain outlet can be cut to minimize elevation.

- If the drain is placed against a wall (2¼" from framing to center of drain) the sill plate may need to be notched out to accommodate the flange and clamping ring.
Alternatively, the outlet of the drain can be set directly into the upper flange by removing the threads with a utility knife or other means.

When using Liquid Applied Waterproofing Membrane it is recommended to use a 4" strip of Reinforcing Fabric where the drain flange and mortar bed meet for the most durable installation.

**DRAIN ATTACHMENT**

*BE SURE TO USE ABS TO PVC SOLVENT CEMENT FOR TRANSITIONS FROM ABS TO PVC*

The 2" outlet from the linear drain is attached to the drainpipe using a 2" PVC coupling according to plumbing industry standards.

Alternatively, a 2" rubber coupling with clamping rings can be used if attaching to cast iron or other types of drainpipe.

Waterproof by either applying Composeal AquaShell to the flange (using 4" strips of Reinforcing Fabric), mortar bed and walls according to manufacturers instructions. Or apply Composeal Gold 15 mil Sheet Membrane to the flange (using Compostile Elasti-seal), mortar bed and walls according to manufacturers instructions.

**INSTALLATION METHODS 1 & 2 TOGETHER FOR ADDED SECURITY**

Many industry professionals are using both a traditional shower pan membrane and surface level waterproofing together for double protection and peace of mind. Waterproofing the entire shower enclosure will also provide a worry free installation.

**METHOD 2 - BONDED MORTAR BED/SURFACE WATERPROOFING INSTALLATION**

Waterproofing is installed on top of the plank-pitched mortar bed and adhered directly to the 1" textured bonding flange of the linear drain.

*Use Composeal AquaShell Liquid Applied Membrane or Composeal Gold 15 mil Bonded Sheet Membrane (ANSI 118.10) or comparable products for this installation type.*

To achieve the lowest profile or to remove an existing drain with a flange, cut the drainpipe below the sub-floor using a dremel rotary tool or similar tool on the inside of the pipe.

Can cut drain outlet to minimize elevation

Slope mortar bed ¼" per ft. (2° pitch)

Can use nailer to temporarily support drain in level position

Finished mortar bed ready for Installation of bakerboard

Backerboard in place and drain protected by cardboard strip and painters masking tape

Installation Products from Compostile

**Compotile Niches**

WATERPROOF & READY TO TILE

**Composeal AQUASHELL LINE**

LIQUID APPLIED WATERPROOFING & CRACK ISOLATION MEMBRANE

**Composeal GOLD**

CRACK ISOLATION & WATERPROOF MEMBRANE

**Composeal Shower Pan**

BLUE & GREY PVC SHOWER PAN MEMBRANE