

### 1. GENERAL INFORMATION

Chloraloy is a flexible Chlorinated Polyethylene (CPE) membrane used in full mortar bed shower installations as concealed waterproofing.

#### NOTES:

a) Chloraloy is plumbing code listed, IAPMO File #3046.

b) Do not use Chloraloy in a thin-bed method. Noble Company recommends using NobleSeal® TS or ValueSeal® for thin-bed applications.

c) Tile cannot be directly bonded to Chloraloy. A mortar bed is generally laid over Chloraloy. Tile can then be thin-set to the mortar bed. See TCNA guidelines.

d) Install in strict compliance with these instructions and comply with all applicable ANSI standards, TCNA recommendations, and building and plumbing codes.

e) For applications not detailed herein, contact Noble Company.

### 2. MATERIALS

2.1 **PRODUCT:** Chloraloy is a thin .040" (1.0 mm) CPE membrane for full mortar bed shower installations.

2.2 **WATERPROOF SEALANT:** Use NobleSealant 150 or NobleWeld 100 to seam sheets, seal penetrations (i.e., pipes, wire), drains, and terminal edges. Seal preformed corners to sheet.

2.2.a **NOBLEWELD 100:** May be used instead of NobleSealant 150 to seam sheets of Chloraloy.

2.3 **CPE PREFORMED OUTSIDE/DAM CORNERS:** Use to flash curb/dam.

2.4 **TOOLS:** Normal tile setting tools plus scissors or utility knife, rubber hand roller, and linoleum roller. Application of NobleSealant 150 requires a commercial grade caulk gun.

### 3. PLANNING & LAYOUT

3.1 **MEMBRANE:** Quantity of Chloraloy sheet required should include waste, upturns, and seams. Use preformed corners as necessary.

3.2 **CPE PREFORMED OUTSIDE/DAM CORNERS:** Recommended even when not required.

3.3 **NOBLESEALANT 150:** A 10.3 oz. tube of NobleSealant 150 seams approximately 40 linear feet.

3.4 **NobleWeld 100:** One pint seams approximately 50 linear feet.

### 4. PREPARATION & PROCEDURES

>>>>>**RECOMMENDED:** Test materials and method under job-site conditions to confirm suitability.

4.1 **INSPECTION:** The structural floor or substrate must be clean, smooth, and free of holes, cracks, and sharp projections. Nail heads should be driven flush or recessed.

4.2 **BLOCKING:** Blocking between studs is recommended to support upturned membrane.

*HINT: Notching the studs at each corner approximately 1/8" will provide space for folded Chloraloy corners and prevent backer board from bowing. If metal studs are used, the backer board can be "shimmed" slightly to provide space for the folded corners.*

4.3 **SUBSTRATES:** Substrate should be sloped per code requirements with no depressions where ponding could occur (i.e. PRO-SLOPE™)

*NOTE: Where drains are incorporated into the installation (e.g., showers, commercial kitchens, decks, etc.), the substrate must be sloped towards the drain.*

4.4 **DRAINS:** Drains must be equipped with proper clamping devices and weep holes. Inspect for warpage of clamping ring or drain body. Replace drains warped over .040". When reusing existing drain, clean rust, caulk, mortar, etc., from face of clamping ring and matching surface on drain. Use a bead of NobleSealant 150 to form a watertight seal between Chloraloy and the drain body.

4.5 **INSTALLER:** Must be familiar with Noble Company's current written instructions, TCNA Handbook recommendations, and ANSI A108 and A118 standards. Contractor must be experienced with installation procedures for Noble Company products or be instructed by a Noble Company representative prior to commencing work.

### 5. INSTALLATION PROCEDURES

5.1 **PAN:** Line the area with Chloraloy. Allow for upturn when cutting sheet.

*NOTE: Rolls of Chloraloy are marked with blue lines at approximately 6" intervals. These marks are intended to be used as guidelines, not accurate measurements.*

5.2 **UPTURNS:** The upturn should be 3" above the finished dam or floodplane as specified or required by code. Membrane should be flashed behind the backer board.

5.3 **FOLDED CORNERS:** Turn the sheet up on all sides using folded corners (see Figure 2) or use preformed inside corners as needed.

5.4 **FASTEN:** Secure the liner to the backing or studs with nails or staples in top 1" of flashed membrane. Install upturn at dam over the top and fasten on outside face. Where metal studs are used and no backup material is provided, use sheet metal screws and washers. Fold the material over 1" at the top to give extra strength and fasten it to the studs. Where walls are concrete or block, use masonry nails, screws with washers, or NobleSealant 150. Follow directions on label.

5.5 **CPE PREFORMED OUTSIDE/DAM CORNERS:** Protect against water leakage at the junction of the shower opening and the dam. Recommended even when not required. To install corners, use NobleSealant 150 or NobleWeld 100 and follow seaming and joining procedures for NobleSealant 150.

5.6 **DRAINS:** Press firmly on the Chloraloy using drain body as a cutting template to cut the opening.

*CAUTION: When cutting bolt holes, do not cut beyond outside perimeter of clamping area. Snug bolts evenly and then tighten firmly to make a watertight seal. Apply a bead of NobleSealant 150 under the sheet over the clamping ring drain body.*



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- 5.7 PENETRATIONS:** If it becomes necessary to penetrate the membrane below the waterline or in any other critical area, use a piece of Chloraloy 2" larger (all sides) than damaged area and seal the patch over the damaged Chloraloy with NobleSealant 150 or NobleWeld 100.
- 5.8 SEAMING AND JOINING PROCEDURES:** When the area to be waterproofed is wider than the width of a sheet, sheets may be seamed (joined) using NobleSealant 150 or NobleWeld 100. Both methods provide permanent, waterproof seams.

**CAUTION:** Bonding area must be dry, clean, and free of dust, dirt, oil, and grease.

**5.8.a NOBLESEALANT 150** (see instructions on tube):

- Lay out sheets to overlap approximately 2" and mark.
- Apply a 3/16" bead of NobleSealant 150 3/4" from edge.
- Overlap first sheet and flatten beads with hand roller, trowel, or putty knife.

- 5.9 TESTING:** Test in accordance with local plumbing codes. Inspect for leakage. If leaking is detected, first re-tighten clamping ring, then inspect ring to be certain it mates with the drain body and is not warped. If defective, replace. It may be possible to seal by welding a second layer of Chloraloy in area of drain body and/or sealing with NobleSealant 150. Repeat testing until no leaks can be detected.

**TIP:** To protect liner from damage, water may be left in pan.

**6. INSTALL MORTAR BED**

Install mortar bed per TCNA and ANSI recommendations.

**7. WARRANTY**

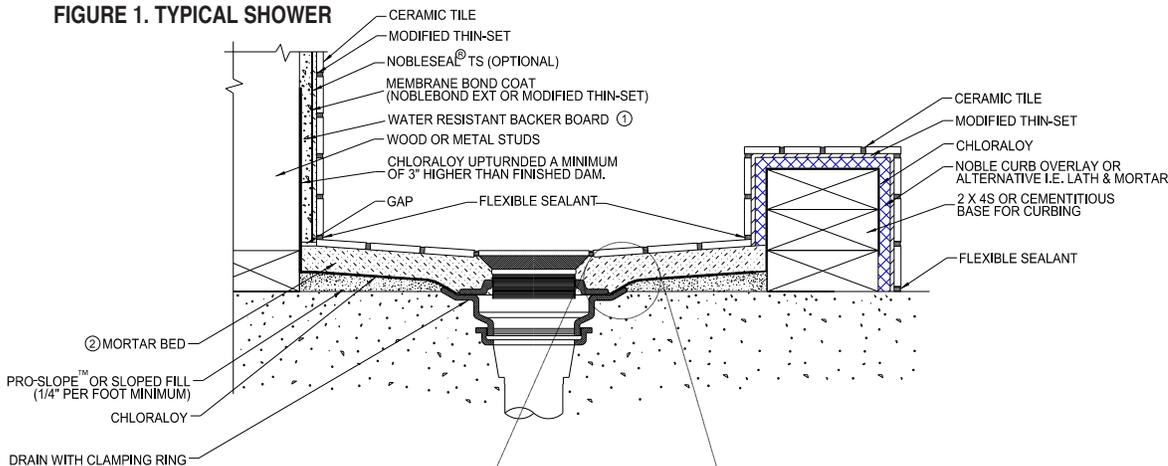
Chloraloy is guaranteed for the lifetime of the original tile installation by Noble Company against failure caused by rotting, cracking, and microorganism deterioration when properly installed in concealed construction waterproofing and applications for which its use is recommended by Noble Company. This warranty is limited to replacement of defective material and freight charges to destination only. There are no other expressed or implied warranties, and this warranty is in lieu of any other warranty, including, but not limited to, implied warranties of merchantability and fitness for purpose. Noble Company is not responsible for consequential damages. The remedy of the purchaser set forth herein is exclusive.

**NOTE:** Chloraloy MUST BE INSTALLED IN STRICT COMPLIANCE WITH THESE INSTRUCTIONS, APPLICABLE ANSI STANDARDS, TCNA RECOMMENDATIONS, AND BUILDING CODES.

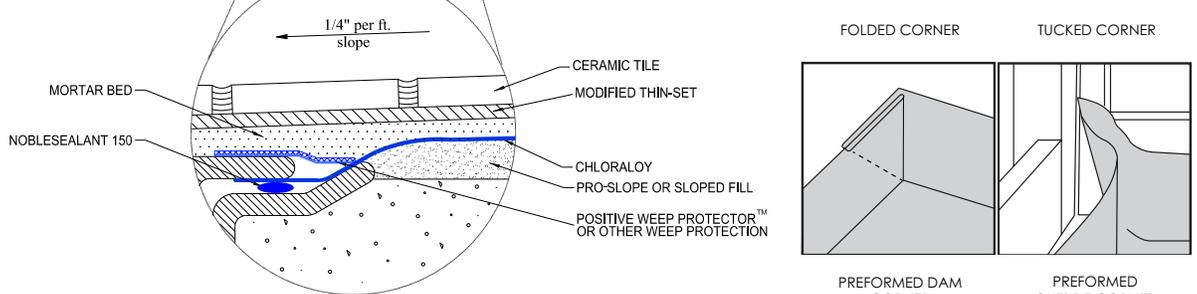
These suggestions and data are based on information Noble Company believes to be reliable. Users should verify by tests that Chloraloy, as well as these installation methods, are suitable with the products being used in their application. Since specific use, materials, and handling are not controlled by Noble Company, this warranty is limited to the replacement of defective Noble Company products. Noble Company disclaims any responsibility for (a) warranties of merchantability and fitness for purpose; (b) verbal recommendations of its representatives; and (c) consequential damages.

**8. FIGURES/DRAWINGS**

**FIGURE 1. TYPICAL SHOWER**



**FIGURE 2. CORNERS**



**NOT TO SCALE**

FOLLOW TCNA RECOMMENDATIONS

- INSTALL SUITABLE TILE BACKER BOARD IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- REINFORCEMENT REQUIRED FOR MORTAR BED > 65 SQ. FT.



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File #CL022022-03 | 02/22 | Supersedes CL102020-14