

# AquaSeal™ Sheet Membrane

## Installation Instructions

www.noblecompany.com



PMG-1059

File #4339

Meets ANSI A118.10

### GENERAL INFORMATION

AquaSeal is a composite sheet membrane that provides thin-bed waterproofing for tile applications.

**Plumbing Code Listings:** ICC-ES PMG-1059, IAPMO File #4339

International Residential Code (IRC), International Plumbing Code (IPC), Uniform Plumbing Code (UPC)

### NOTES:

1. Install in compliance with these instructions, applicable ANSI standards, Tile Council of North America (TCNA) recommendations, and building codes.
2. For any procedure not covered by these instructions, contact Noble Company.

### MATERIALS

1. **MEMBRANE:** AquaSeal is a thin 0.016" (0.4mm) load bearing, bonded, sheet membrane for waterproofing applications.
2. **BOND COAT:** AquaSeal should be bonded to substrate with modified thin-set. Thin-sets must conform to appropriate standards (i.e., ANSI A118.4) and TCNA Handbook recommendations. Follow manufacturer's instructions.
3. **NOBLEFLEX® DRAIN FLASHING:** Use with traditional clamping ring drains. Allows tile to meet top of strainer and provides a smooth transition between waterproofing membrane and clamping ring.
4. **OUTSIDE/DAM CORNERS:** Use at curb/dam and all outside corners.
5. **INSIDE CORNERS:** Install over LAP style corners to prevent potential leaks (see Figure 3).
6. **AQUASEAL CAP STRIP** (Optional): 5" strip of AquaSeal for seaming joints and transitions.
7. **TOOLS:** Normal tile setting tools plus scissors or utility knife, rubber hand roller, and linoleum roller (75 - 100 lbs. recommended for floors).

**DRAINAGE:** Wet areas must have proper slope. All drains must have a suitable membrane clamping device. If drain is three-part clamping ring type, install NobleFlex Drain Flashing prior to installing membrane (see NobleFlex Drain Flashing instructions).

### INSTALLATION PROCEDURES (refer to Figure 1)

1. **BONDED APPLICATIONS:** Clean and prepare sloped substrate as if thin-setting tile without sheet. Bond sheet with **Modified Thin-Set:** Spread thin-set with appropriate trowel to achieve complete coverage (e.g. 1/8" to 1/4" V-notch). Trowel an area as wide as the sheet and as deep as can be comfortably reached. To avoid trapping air under the sheet, trowel mortar in parallel rows across the width or length of the sheet.

#### NOTES:

1) Variation in trowel size, angle at which trowel is held, mixing ratio, or any combination thereof, may be necessary to achieve maximum contact. All ridges of bond coat must be parallel to allow air under sheet to escape when embedding.

2) NobleBond EXT can be used for enhanced crack isolation properties. Contact Noble Company Technical Services at (800) 878-5788 for details.

2. **LAY SHEET:** Unroll sheet into bonding agent before it begins to form "skin".
3. **EMBED SHEET:** Embed AquaSeal into bond coat by working from center of sheet, outwards. Overlap passes. Start at end of first sheet installed, progressing to area installed last. Use rubber hand roller, flat side of trowel, or float for vertical or small areas.  
**CAUTION:** Do not puncture membrane with corner of trowel.
4. **COVERAGE:** Complete coverage of substrate and full penetration of bond coat into the fabric is required. For large horizontal areas, use 75 - 100 lb. roller. Prior to curing, inspect for full contact. If rows or ridges of bonding agent are seen, membrane has not been properly embedded.
5. **SEAMING, JOINING, & TRANSITIONS:** When more than one sheet is needed, use modified thin-set to seam sheets together. Seam areas must be free of bond breakers. Overlap sheets 2", or use butt joint with cap strip. Apply using seaming/joining instructions below.

**Modified Thin-Set:** Apply a uniform layer to bottom sheet.

Overlap sheet and flatten membrane with roller (recommended), or with flat edge of trowel or float.

**CAUTION:** Do not puncture membrane with corner of trowel.

**NOTE:** If using NobleFlex Drain Flashing, seam membrane to flashing per NobleFlex instructions.

6. **UPTURNS:**  
**Membrane Behind Backer Board:** Plumbing code requires shower waterproofing membrane be flashed at least 3" higher than the finished dam or flood plane. Fasten upturn to backing within 1" of top edge.  
**Membrane on Front of Backer Board:** The membrane should extend to the full height of tile assembly.
7. **CORNERS:** Prefomed dam/outside corners should be installed prior to sheet membrane. See Figure 2.  
If membrane is turned up behind Backer Board, use folded or tucked corners. See Figure 2.  
If membrane is bonded to front side of Backer Board, use lap corners. See Figure 3.
8. **DRAINS:** All drains must have clamping ring to secure membrane to drain body. Inspect floor to ensure that code-required slope has been provided. If waterproofing FreeStyle Linear Drain™, refer to FreeStyle Linear Drain installation instructions.  
Cut AquaSeal so that it overlaps the NobleFlex Drain Flashing by 2". Seam according to Installation Procedures step 5 above.
9. **FLOOD TESTING:** Allow sufficient time for curing, typically 24 hours. Flood test in accordance with local plumbing code requirements.  
**NOTE:** Refer to bond coat manufacturer's instructions for cure time and sustainability.
10. **PROTECTION OF SHEET:** After installation, sheet must be kept clean to enable tile adhesive to bond. If not covered by wearing surface, protect the installed sheet from damage and all foot or vehicular traffic.
11. **For any procedure not covered in these instructions, contact Noble Company at (800) 878-5788.**

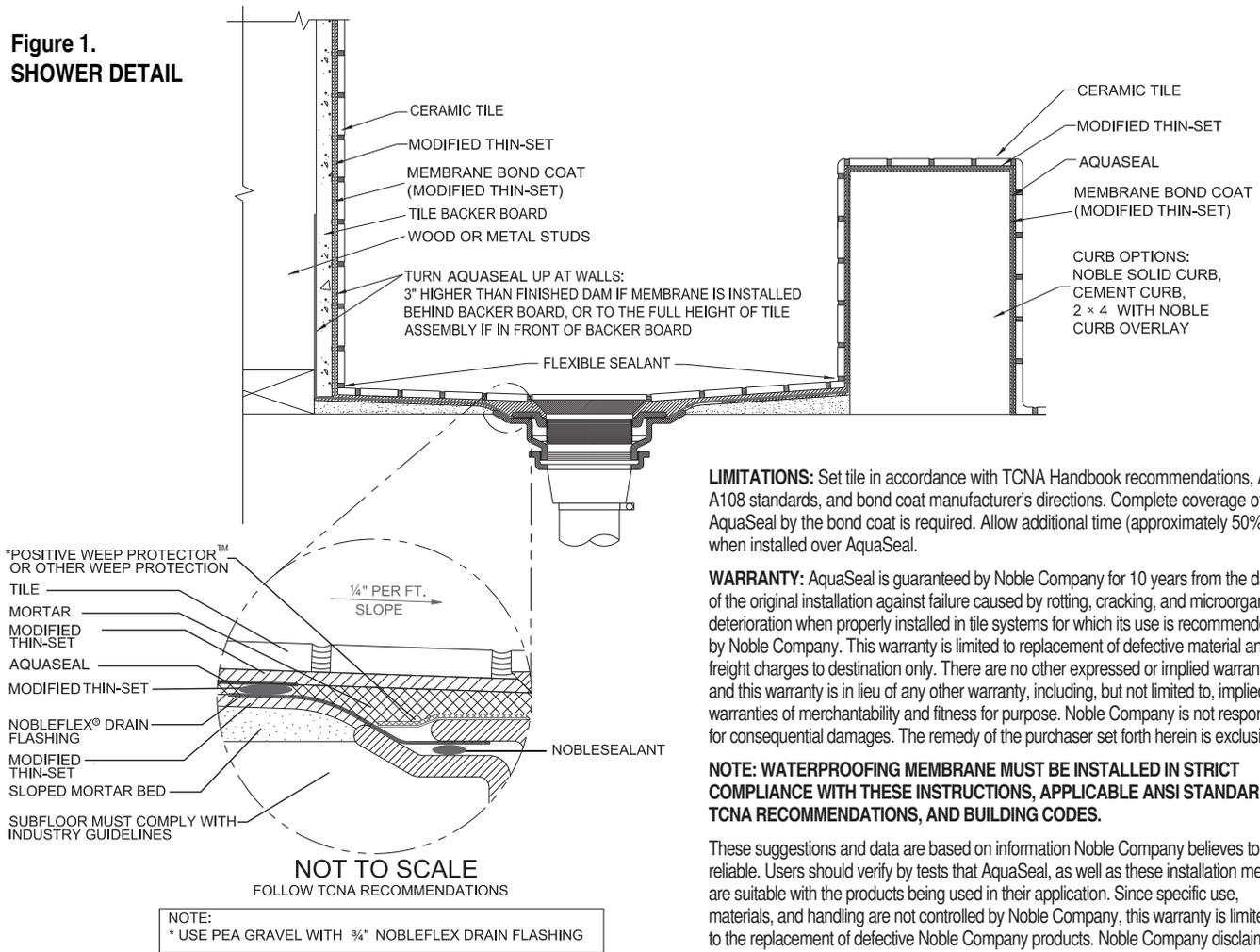


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**TILE INSTALLATION:** Set tile in accordance with TCNA Handbook recommendations, ANSI A108 standards, and bond coat manufacturer's directions. Complete coverage of AquaSeal by the bond coat is required. Allow additional time (approximately 50%) when installed over AquaSeal.

**Figure 1. SHOWER DETAIL**



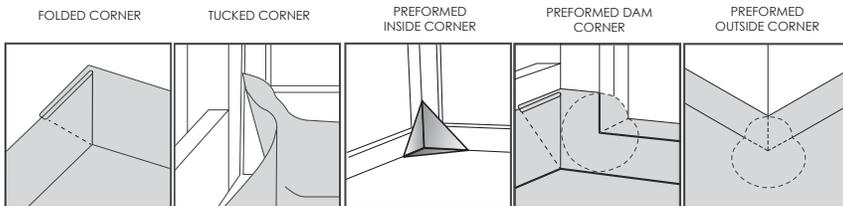
**LIMITATIONS:** Set tile in accordance with TCNA Handbook recommendations, ANSI A108 standards, and bond coat manufacturer's directions. Complete coverage of AquaSeal by the bond coat is required. Allow additional time (approximately 50%) when installed over AquaSeal.

**WARRANTY:** AquaSeal is guaranteed by Noble Company for 10 years from the date of the original installation against failure caused by rotting, cracking, and microorganism deterioration when properly installed in tile systems 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: WATERPROOFING MEMBRANE 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 AquaSeal, 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.

**Figure 2. FOLDED, TUCKED, AND PREFORMED CORNERS**



**Figure 3. LAP CORNER**

