

Pre-Waterproofed ProBase® II Multi-Slope Shower Base and Kit

Installation Instructions

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1. GENERAL INFORMATION

Pre-Waterproofed ProBase II Multi-Slope is a composite shower base made from expanded polystyrene with honeycomb face. ProBase II is sloped 1/4" per foot to the drain and waterproof.

1.1 RECOMMENDED TOOLS: Tape measure, utility knife, caulking gun, straight edge, small floor roller, margin trowel, 1/8" x 1/8" or 1/4" x 1/4" v-notched trowel and 1/4" x 3/8" x 1/4" square-notched trowel, appropriate plastic pipe primer and cement.

2. MATERIALS

	32" x 60" End Drain	32" x 60" Center Drain	38" x 38" Center Drain	48" x 48" Center Drain	48" x 72" Center Drain	72" x 72" Center Drain
Pre-Waterproofed Multi-Slope Base	(1) hinged piece	(1) hinged piece	(1) hinged piece	(1) hinged piece	(1) hinged piece (1) overlapping piece	(1) hinged piece (2) overlapping pieces
Solid Curb	(2) 30"		(1) 38"	(1) 48"	(2) 36"	
ValueSeal Waterproofing	(1) 3' x 44' Roll				(2) 3' x 33.3' Rolls	
Cap Strip	(1) 5" x 30' Roll					
Thin-Line Inside Corners	(4) pieces					
Thin-Line Outside Corners	(4) pieces					
Thin-Line Pipe Collar	(1) piece					
Thin-Line Mixing Valve Collar	(1) piece					
NobleSealant	(1) 5 oz. tube					
FreeStyle Thin-Bed Drain	<i>sold separately</i>					

3. PLANNING

3.1 BASE, CURBS, AND THIN-SET MORTAR

3.1.a MODIFIED THIN-SET MORTAR (Preferred): See manufacturer's coverage rate.

3.1.a.1 Hot and Cold Weather Procedure: Consult bond coat manufacturer for safe high and low-temperature limits and cure times. Noble Company sheet membranes remain flexible to -25°F.



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GENERAL NOTES REGARDING THE USE OF MODIFIED THIN-SET MORTAR:

- a. Use modified thin-set mortar meeting with ANSI A118.4 or recommended by the manufacturer.
- b. Mix thin-set mortar per manufacturer's instructions.
- c. Spread thin-set mortar with appropriate trowel to achieve complete coverage.
- d. Trowel an area as wide and as deep as can be comfortably reached. To avoid trapping air, trowel thin-set mortar in parallel rows across the width or length.
- e. All ridges of thin-set must be parallel to allow the air to escape when embedding.
- f. Variation in trowel size, angle at which trowel is held, mixing ratio, or any combination thereof may be necessary to achieve full coverage.
- g. Embed base into thin-set before it begins to form "skin".
- h. Embed using foot pressure (base only), rubber hand roller, flat side of trowel, or float (for small areas). Embed into thin-set by working from center, outwards.

CAUTION: Be careful not to puncture membrane with corner of trowel.

- i. Allow adequate time for curing: typically 24 hours.

3.2 NOBLESEALANT: A tube of NobleSealant.

3.3 NOBLE FREESTYLE THIN-BED DRAIN™: Not included in this kit.

4. PREPARATION

Read these instructions completely prior to installation. Test materials and method under job-site conditions to confirm suitability.

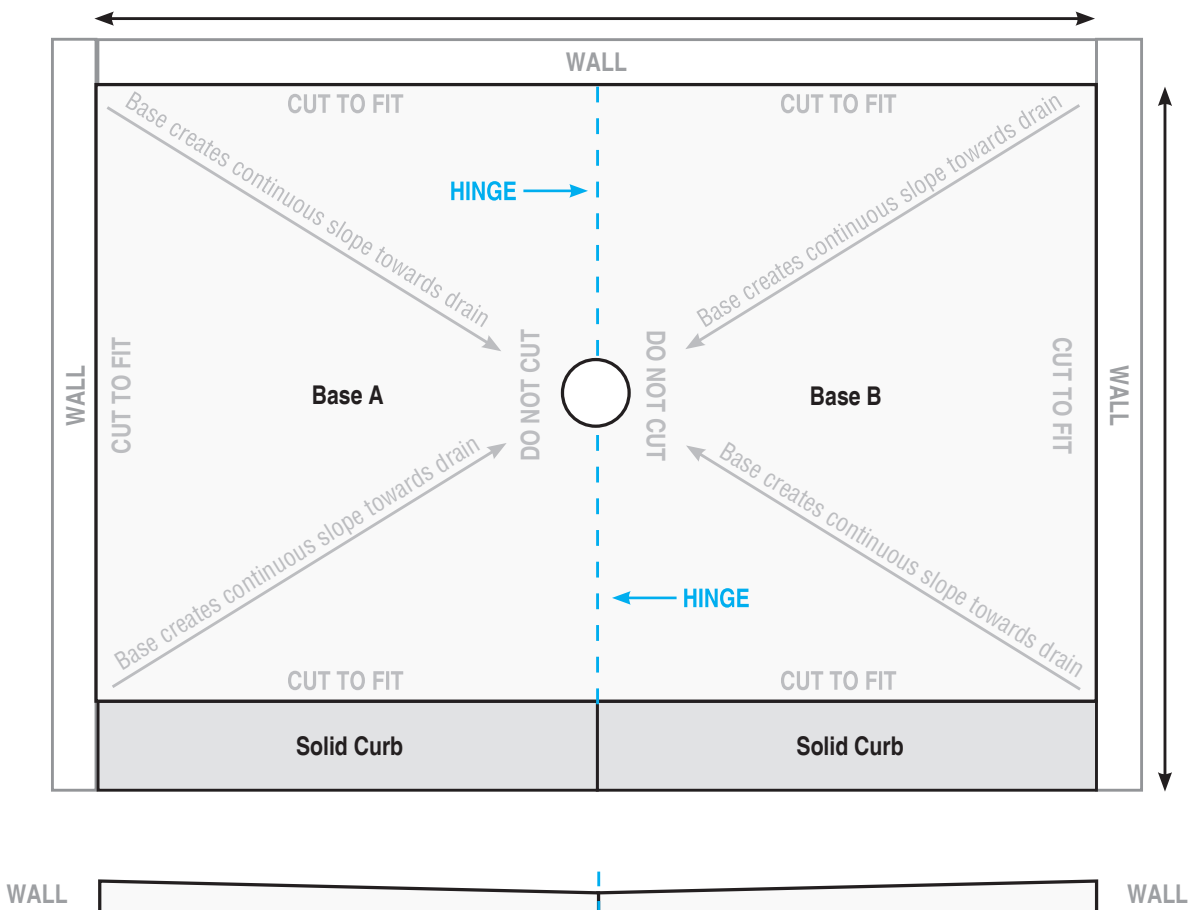
4.1 INSPECTION: Substrate must meet requirements set forth by the TCNA and ANSI A108 standard. Report in writing any deficiencies that might affect performance of the system.

4.2 SUBSTRATES: Substrate condition for base is the same as tile (see TCNA guidelines). Slabs on, above, or below grade should be tested for moisture content and pH. Slabs must be flat and level. Floor preparation (i.e., leveling, patching) should be done prior to installation of base. Wall board should be installed prior to the shower kit.

4.3 INSTALLER: Installer should be familiar with Noble Company's current written instructions, TCNA Handbook recommendations, and ANSI A108 standards.

FIGURE 1: TYPICAL LAYOUT

(For larger installations using 72" x 72" base, this typical layout will include 4 base pieces)



5. LAYOUT:

5.1 CURBS: Measure the shower area and determine the location of the curb(s). Set one curb in desired location and measure from the end to the wall for the second curb (if using multiple curbs). Mark and cut second curb to measurements and dry fit. Mark the location of the curbs on the sub-floor. Set aside.



5.2 FREESTYLE THIN-BED DRAIN:

NOTE: Confirm proper plastic pipe primer and cement for drain (PVC or ABS). Check drain label to confirm.

5.2.a WASTE PIPE NOT INSTALLED: Place drain base in desired location on sub-floor. Mark the waste pipe location on the sub-floor. Cut the opening in the sub-floor.

5.2.a.1: INSTALL WASTE PIPE: Follow local plumbing codes to properly install and secure 2" ID waste pipe.

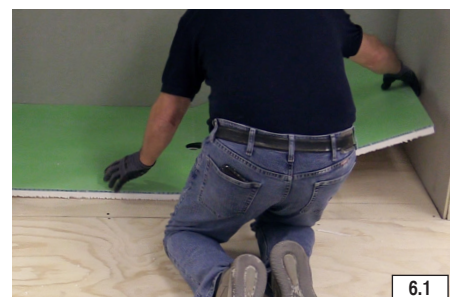
NOTE: Waste pipe may be installed after fastening the drain base to the sub-floor if it is accessible from below.

5.2.b WASTE PIPE INSTALLED: Apply appropriate plastic pipe primer and cement to drain body and waste pipe following local plumbing codes and manufacturer's instructions. Fit and fully seat the drain base onto the waste pipe.

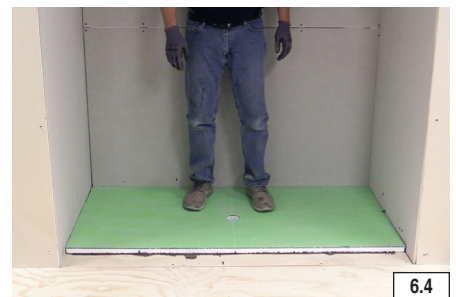
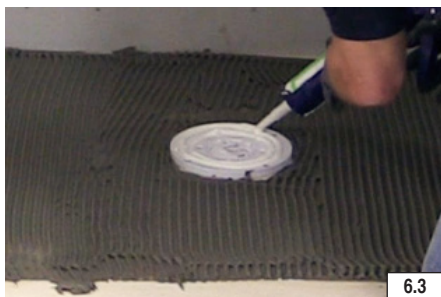


6. BASE INSTALLATION:

6.1 MEASURE AND CUT BASE: Refer to Figure 1 (on page 2). Measure and cut base to fit over drain. Mark measurements onto each base piece. Follow this procedure for each wall to drain measurement. Double check drain placement measurements prior to installation. Dry fit the base after cutting.



6.2 APPLY MODIFIED THIN-SET MORTAR TO SUBSTRATE: Apply modified thin-set mortar using a 1/4" x 3/8" x 1/4" square-notched trowel over the substrate. Thin-set should be in parallel rows on substrate.

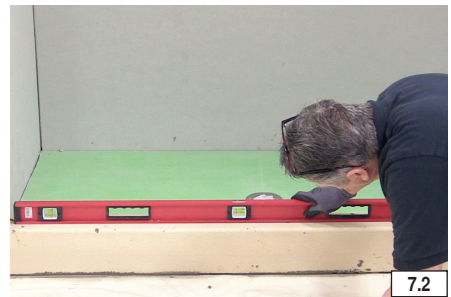


- 6.3 APPLY NOBLESEALANT:** Apply ¼" continuous bead of NobleSealant to the chamfer on the drain base. Then apply a second ¼" continuous bead of NobleSealant ½" in from the drain perimeter.
- 6.4 INSTALL BASE:** Key-in modified thin-set mortar to bottom and edges of base, and bottom hinge. Embed base into the thin-set mortar using firm foot pressure to ensure 100% coverage and no voids. **NOTE:** Check that base is flush with drain.
- 6.5 INSTALL CLAMPING COLLAR:** Align the clamping collar with the drain base under the membrane and press firmly to embed. Insert bolt through collar, piercing membrane, and into drain base. Install remaining bolts. **Do not over tighten.**
- 6.6 CUT AWAY VALUESEAL:** Cut away membrane from inside of the clamping collar. Protect the waste pipe from debris. **NOTE:** Some NobleSealant may squeeze out. Allow to dry, then remove.



7. INSTALL CURBS:

- 7.1 APPLY THIN-SET MORTAR:** Apply modified thin-set mortar using ¼" x ¾" x ¼" square-notched trowel over the substrate. Apply modified thin-set mortar to the bottom and ends of the Noble Solid Curb(s).
- 7.2 EMBED CURBS:** Embed the Solid Curb(s) into the thin-set mortar using firm pressure to ensure there is 100% coverage and no voids. Lay straight-edge on Curb(s) to ensure they are aligned. Check Curb(s) to ensure they are flat and level.



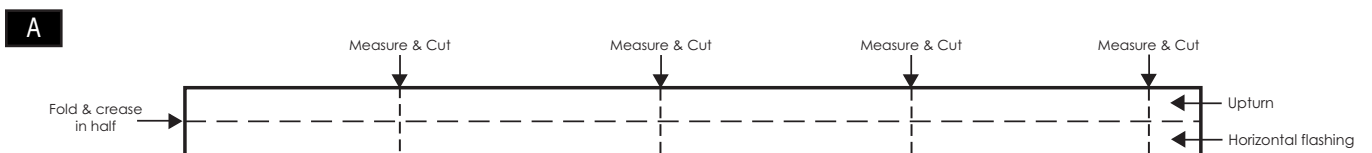
8. INSTALL THIN-LINE INSIDE CORNERS (4):

- 8.1 MARK AREA:** Mark the area where the Thin-Line Inside Corners will be applied.
- 8.2 APPLY THIN-SET MORTAR:** Spread modified thin-set mortar to the marked area.
- 8.3 EMBED THIN-LINE INSIDE CORNER:** Embed inside corners into thin-set mortar using a margin trowel to ensure a quality seal.



9. INSTALL VALUESEAL ON CURB AND CAP STRIP TO WALL:

- 9.1 MEASURE AND CUT:** Measure the distance over curb, adding 2" for overlap onto base. (Approx. 16"). Cut membrane to measurements. Fold the sheet at the 2" overlap, and dry fit over the curb. Remove.
- 9.2 MEASURE LENGTH OF EACH WALL.** Measure and mark the length of each wall on cap strip, then cut cap strip to allow for 2" overlap onto base. See cap strip detail A below.



- 9.3 **APPLY THIN-SET MORTAR:** Apply thin-set mortar to curb, wall upturns, and base perimeter with the appropriate sized trowel for 100% coverage (e.g., 1/8" - 1/4" v-notch).
- 9.4 **INSTALL CAP STRIP:** Install cap strip to walls and base.
- 9.5 **INSTALL CURB MEMBRANE:** Install membrane on curb. Ensure full 2" overlap onto installed corners. Membrane overlaps should be sealed thin-set mortar.



- 9.6 **EMBED SHEET:** Use rubber hand roller or flat side of a trowel to embed cap strip into bond coat (flatten all ridges).
CAUTION: Be careful not to puncture membrane with corner of trowel.

10. **INSTALL THIN-LINE OUTSIDE CORNERS (4):**

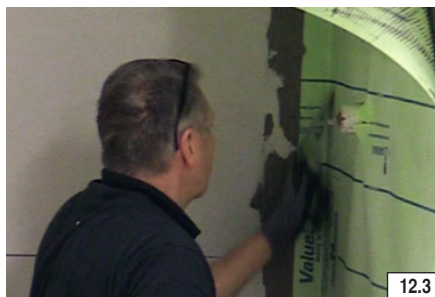
- 10.1 **MARK AREA:** Mark the area where the Thin-Line Outside Corners will be applied.
- 10.2 **APPLY MODIFIED THIN-SET MORTAR:** Spread modified thin-set mortar over the marked area.
- 10.3 **EMBED THIN-LINE OUTSIDE CORNER:** Embed outside corners into thin-set mortar using a margin trowel to ensure a quality seal.



- 11. **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 traffic (use mortar skim coat, rugs, plywood, etc.).

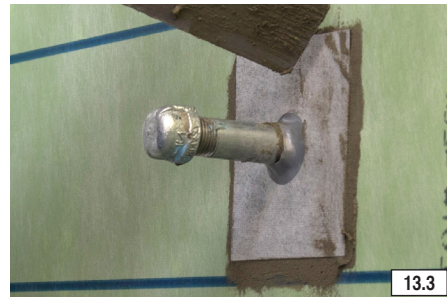
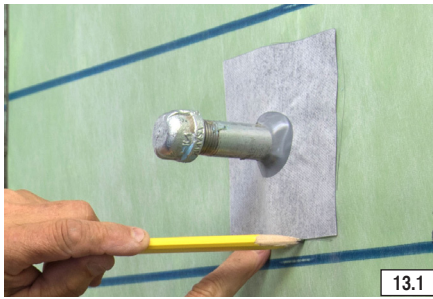
12. **INSTALL VALUESEAL ON WALLS:**

- 12.1 **MEASURE AND CUT:** Measure the shower wall, adding 2" for wall overlaps. Cut ValueSeal to measurements. Dry fit, then fold and crease the sheet.
- 12.2 **APPLY THIN-SET MORTAR:** Spread modified thin-set mortar with the appropriate trowel to achieve 100% coverage (e.g., 1/8" - 1/4" v-notch) onto walls and seams.
- 12.3 **EMBED SHEET:** Use rubber hand roller or flat side of a trowel to embed ValueSeal into bond coat (flatten all ridges) removing any air bubbles and achieving 100% coverage. **CAUTION: Be careful not to puncture membrane with corner of trowel.**



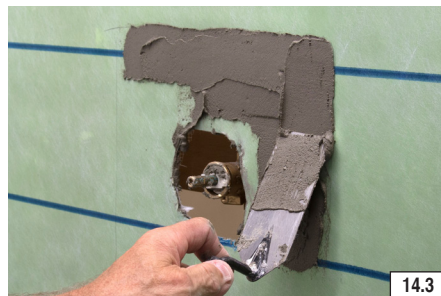
13. INSTALL THIN-LINE PIPE COLLAR:

- 13.1 **MARK AREA:** Mark the area where the Thin-Line Pipe Collar will be applied.
- 13.2 **APPLY Thin-set mortar:** Spread modified thin-set mortar over the marked area.
- 13.3 **EMBED THIN-LINE PIPE COLLAR:** Embed collar into thin-set mortar using a margin trowel to ensure a quality seal.



14. INSTALL THIN-LINE MIXING VALVE COLLAR:

- 14.1 **DRY FIT:** Dry fit collar over mixing valve, trim ID as needed.
- 14.2 **MARK AREA:** Mark the area where the Thin-Line Mixing Valve Collar will be applied.
- 14.3 **APPLY Thin-set mortar:** Spread modified thin-set mortar over the marked area.
- 14.4 **EMBED THIN-LINE MIXING VALVE COLLAR:** Embed collar into thin-set mortar using a margin trowel to ensure a quality seal.



15. **FLOOD TESTING:** Allow sufficient time for curing, typically 24 hours. Flood test in accordance with local plumbing code requirements.

16. **ATTACH STRAINER:** Clear drain outlet (if blocked off), replace, and adjust strainer assembly to desired height. Do not cross-thread.

17. **TILE AND GROUT:** Protect the strainer with tape. Allow for a 1/16" clearance between the strainer and the tile. Tile and grout all surfaces in accordance with TCNA Handbook recommendations, ANSI A108 standards, and bond coat manufacturer's directions. Complete coverage of ValueSeal by the bond coat is required. Allow additional cure time (approximately 50%) when installed over ValueSeal.

18. **LIMITATIONS:** This product is not designed for use as a wearing surface. Pre-Waterproofed ProBase II Multi-Slope Base Kit is not recommended for exterior applications. For applications or procedures not specifically detailed in these installation instructions, contact Noble Company. Wood subfloors must be clean, dry, and free of sealers, primers, and other substances that could affect bonding of the sheet to the base. Pre-Waterproofed ProBase II Multi-Slope Base Kit will not correct structural deficiencies. Deflection of the sub-floor must not exceed industry standards. Installation must follow TCNA recommendations and appropriate industry standards. **For any applications or procedures not covered in these instructions, contact Noble Company.**

