

Solutions Linear Drain

Direct Bond Installation Instructions

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1. GENERAL INFORMATION

Solutions is a high-quality American made linear drain system made from one-piece injection molded ABS construction. The drain base is internally pitched to the waste outlet to facilitate efficient drainage.

- a) Install in strict compliance with these written instructions, and comply with applicable ANSI standards, Tile Council of North America (TCNA) recommendations, and plumbing/building codes. For additional installation details, please visit our website at www.noblecompany.com, download our free Mobile App (available on Apple and Android operating systems), or call us at (800) 878-5788.
- b) For procedures not covered by these instructions, contact Noble Company.

2. MATERIALS

- 2.1 DRAIN:** Internally sloped linear drain made from one-piece injection molded ABS.
- 2.2 SEALANT:** Use NobleSealant 250 between Noble Bonded Sheet Membrane and Solutions drain flange.
- 2.3 BONDED WATERPROOF MEMBRANE:** Fleeced sheet membrane acting as the waterproof barrier. ANSI A118.10. ICC listed. (i.e. NobleSea® TS or ValueSeal® - sold separately).
- 2.4 HAIR TRAP AND STRAINER LEVELERS:** (1) Hair Trap, (4) 2-3 mm Strainer Levelers, (4) 4-6 mm Strainer Levelers.
- 2.5 CLAMPING RING HUB TRANSITION:** Transition ring with smooth inside hub to allow for drain hub to engage.
- 2.6 TOOLS:** Tape measure, caulk gun, utility knife.



3. PLANNING

Select Direct Bond installation instructions.

- 3.1 DRAIN PLACEMENT:** Drain waste outlet center needs to be at least 2¼" from any wall or stud. 2" I.D schedule 40 pipe type PVC or ABS should be used for waste piping.
 - 3.1.a.** If the drain outlet is placed within 2¼" inches from stud, sill plate may need to be notched out to accommodate the drain body flange and/or clamping ring.
- 3.2** Drain base and waste piping should be installed prior to the shower pan liner.
- 3.3 WALL BOARD:** Consult manufacturer's installation materials for suitability for use as a substrate for tile in a wet area. Wall board should be installed directly over drain flange when drain is installed tight to studs or sill plate.
- 3.4 NOBLESEALANT 250:** A 5 oz tube of NobleSealant 250 covers approximately 20 linear feet with a 3/16" bead. 10.3 oz tube also available.

4. PREPARATION

- 4.1 INSPECTION:** Examine substrates for unacceptable conditions affecting tile installation. Substrate must be flat, smooth, solid, free from bond breakers, cracks, and properly sloped to drain for wet-area applications.



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5. INSTALLATION: DIRECT BOND METHOD

- 5.1 Select appropriate wall and floor substrate suitable for wet areas. All surfaces must be dry (cured), clean, and free of bond-breaking contaminants. Consult backer board manufacturer for specific installation recommendations.
- 5.2 Waterproofing membrane to be installed on top of sloped substrate and adhered directly to the 1" flange of the Solutions drain base (i.e. NobleSeal TS or ValueSeal) with NobleSealant 250.
- 5.3 The outlet to the Solutions drain body can be solvent welded to the drain pipe using a 2" PVC or ABS coupling according to plumbing industry standards. If re-using existing drain, Solutions drain body can be installed directly in to drain base using the Clamping Ring Hub Transition to replace on-site clamping ring.
- 5.4 Ensure Solutions drain body is installed level.
- 5.5 Install sloped substrate ensuring Solutions drain is properly supported and free from voids or air gaps. Slope should be flush to drain flange.
- 5.6 Install ANSI A118.10 bonded sheet membrane per manufacturer's installation instructions (i.e. NobleSeal TS or ValueSeal).
- 5.7 Apply a solid continuous bead of NobleSealant 250 to the entire Solutions drain flange. Embed the sheet membrane into the sealant with flat edge of a trowel. Ensure sheet membrane is even without ripples or folds.
- 5.8 Once sealant has cured and entire wet area has been waterproofed, flood test wet area to ensure water-tightness in accordance with local codes and standards. Ensure solvent welded joints, when used, have dried completely (typically 24 hours) prior to flood test.
- 5.9 Upon successful flood test, tile can be installed on dry surface of sheet membrane.



6. TILE INSTALLATION

- 6.1 Set tile in accordance with TCNA Handbook recommendations, ANSI A108 standards, and bond coat manufacturer's directions. Complete coverage of membrane by the bond coat is required.

7. STRAINER

- 7.1 Set tile $\frac{1}{16}$ " from strainer to ensure proper drainage and allow for smooth removal for cleaning.
- 7.2 Install Hair Trap. If needed, install Strainer Levelers to adjust strainer height to tile. Strainer should be flush or sit just below installed tile. Strainer Levelers available in 2, 3, 4 or 6 mm heights.

NOTE: Tile-In Strainer does not require Strainer Levelers.



8. WARRANTY

- 8.1 For warranty information, contact your Sales Representative or visit www.noblecompany.com.

