bronte™ Linear Drain Installation Guide

Carefully review all installation options and instructions before proceeding.

bronte™ LINEAR DRAIN INCLUDES:
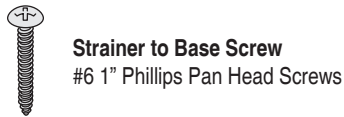**Base and Strainer Grate Kits ordered separately. Both are required to complete installation.**

Pre-Strainer Screw
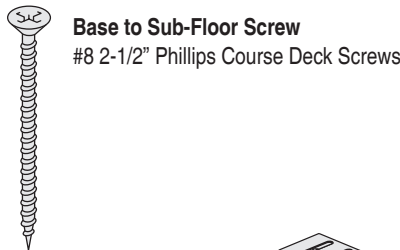#8 1/2" Phillips Pan Head Screws

Clamping Collar Screw
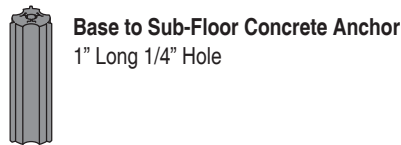#6 5/8" Phillips Flat Head Screws

Strainer Height Adjustment Tool

Strainer to Base Screw
#6 1" Phillips Pan Head Screws

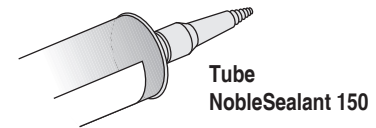**Strainer Height Adjustment Screw**
#10 1-1/4" Phillips Flat Head Screws

Tube NobleSealant 150

Base to Sub-Floor Screw
#8 2-1/2" Phillips Course Deck Screws

Base to Sub-Floor Concrete Anchor
1" Long 1/4" Hole
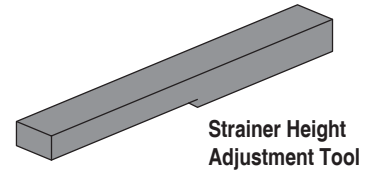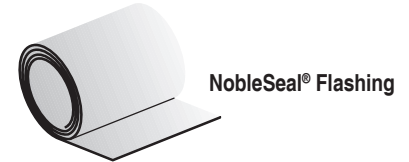
NobleSeal® Flashing
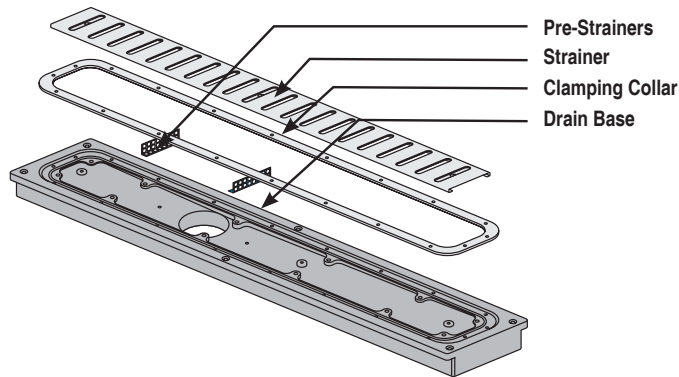
Pre-Strainers
Strainer
Clamping Collar
Drain Base

Note: If NobleSeal membrane will be used to waterproof entire shower, this flashing will not be needed.

1. PRE-PLANNING

Be certain to gather all required tools and materials required prior to installation.

If you are installing one or more of the following, consult instructions for that product:

- Full Mortar Bed Adapter Kit
- Tile Top Strainer
- Connector

Sub-Floor

Caution: Sub-floor must meet local code requirements and Tile Council of North America (TCNA) guidelines.

Clean sub-floor and check that it is smooth and level.
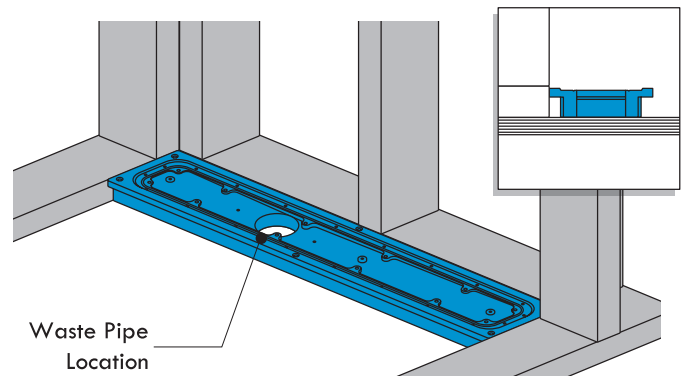
Sloped Bed Requirements

Carefully follow manufacturer's instructions. Use products recommended for the type of sloped bed being installed.

bronte™ Linear Drain assembly is intended to install tight to toe plate and studs within shower prior to installation of sloped mortar bed, backer board, waterproofing, and tile.

Confirm Drain Size, Waste Pipe Type, and Waste Pipe Location
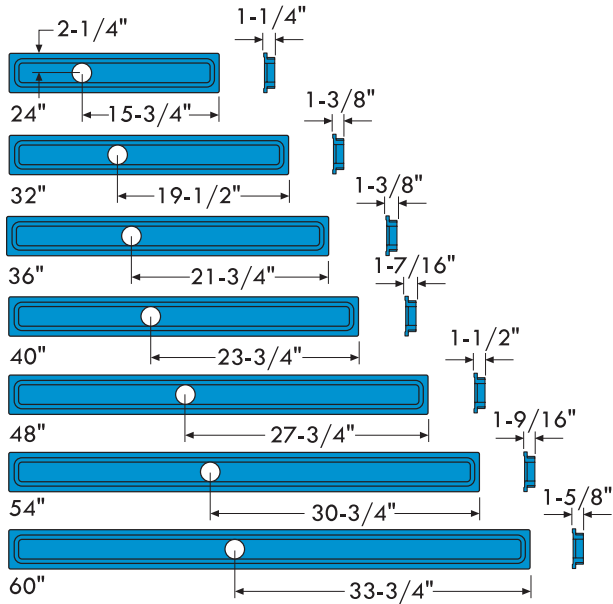
Drain hole is off-set to accommodate floor joist location.

Size of shower determines size of drain to be used, which determines location of waste pipe through sub-floor. Match 2" I.D. schedule 40 pipe type (PVC or ABS) to drain base type.
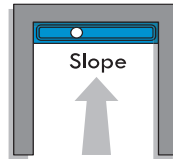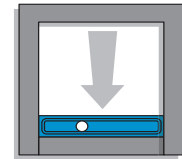
Waste Pipe Location

2-1/4" 1-1/4"

24" 15-3/4"
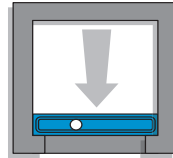
1-3/8"

32" 19-1/2"

1-3/8"

36" 21-3/4"

1-7/16"

40" 23-3/4"

1-1/2"

48" 27-3/4"

1-9/16"

54" 30-3/4"

1-5/8"

60" 33-3/4"

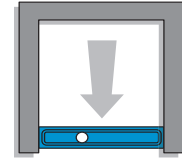**Drain Locations**
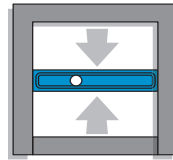
Back Wall
Flush to back wall

Slope

Full Curb
Flush to curb

Partial Curb
Flush to curb
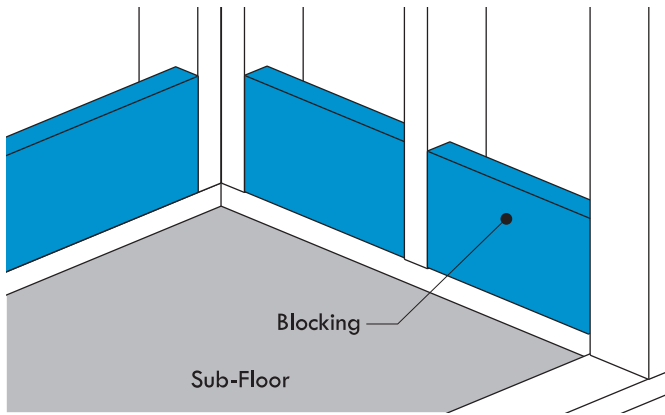
Curb-less
Flush to both side walls

On Center
Flush to both side walls

2. WALL PREPARATION

Blocking

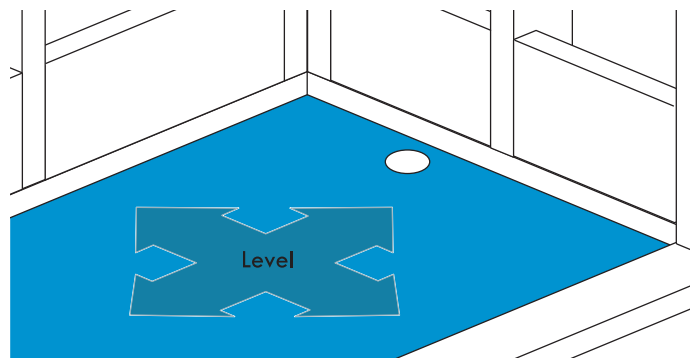Blocking between studs may be needed for flashing and membrane attachment prior to drain installation.

Blocking

Sub-Floor

3. SUB-FLOOR PREPARATION

Caution: Confirm that sub-floor meets all local code requirements and TCNA guidelines.

Check for Level. Clean.

Sub-floor must be smooth and level.

Clean sub-floor.

Level

4. WASTE PIPE

4A. NO WASTE PIPE INSTALLED

Place, Mark, and Cut

Place drain base in desired location on sub-floor. Mark waste pipe location on sub-floor. Cut opening in sub-floor to access plumbing below.

Mark Cut Hole

Place
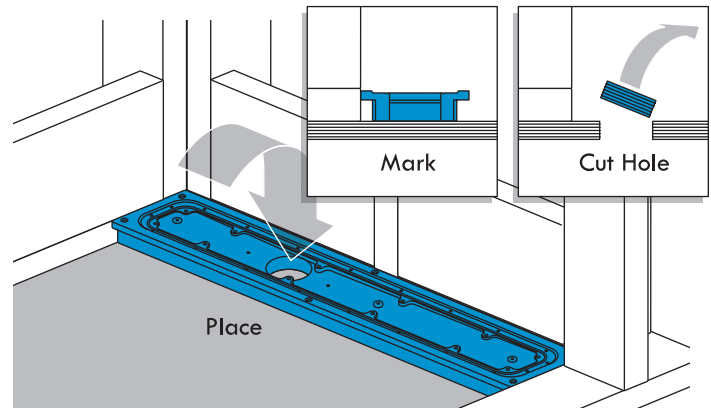
Install Waste Pipe

Follow local plumbing codes to properly install and secure 2" I.D. waste pipe 3/4" above sub-floor. **Note:** Waste pipe may be installed after fastening drain base if accessible from below.

2-1/4" 3/4"

2" I.D. Pipe

4B. WASTE PIPE PRE-INSTALLED

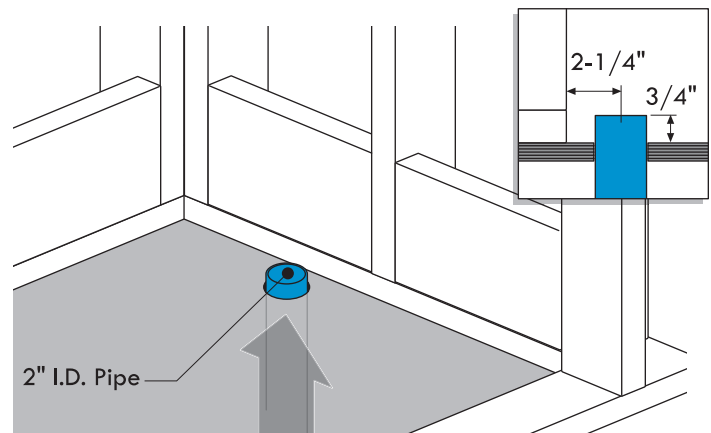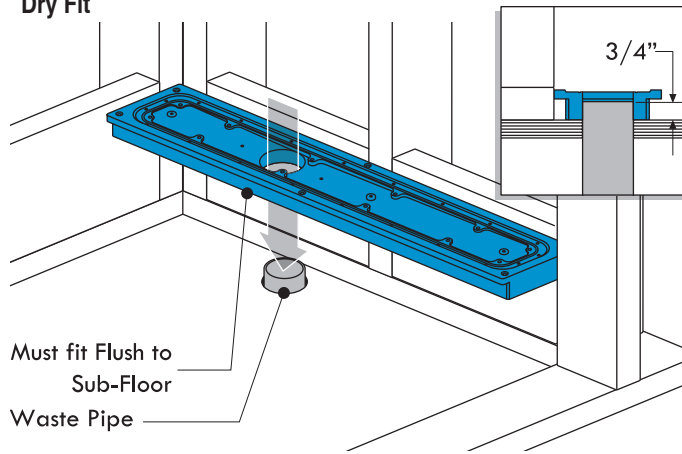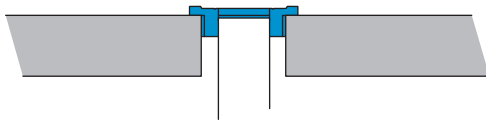Dry fit drain base over location of existing waste pipe. If location does not allow drain base to fit flush against at least 2 shower walls, move location of plumbing to allow for proper installation. May also require moving existing studs and toe plate.
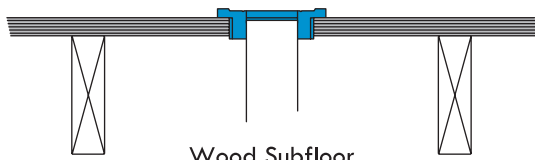
Dry Fit

Must fit Flush to Sub-Floor

Waste Pipe

3/4"

Alternate Drain Mounting Methods:
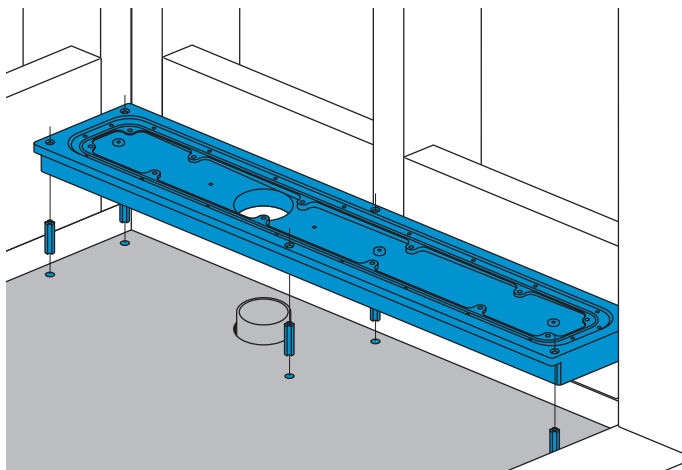
Concrete Substrate

Wood Subfloor

5. FASTEN DRAIN BASE TO SUB-FLOOR

For Concrete Sub-Floor A & B

For Wood Sub-Floor B only

5A. MARK FOR ANCHORS

Dry fit drain base over waste pipe. Mark all holes in outside flange of drain base on concrete floor. Remove drain base. Drill 1/4" holes, 1-1/2" deep where marked. Drive plastic anchors flush in all holes.

5B. INSTALL DRAIN BASE TO WASTE PIPE AND SUB-FLOOR

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

Apply appropriate plastic pipe cement and primer to drain and waste pipe following local plumbing codes and manufacturer's instructions.

Fit and fully seat drain base onto waste pipe.

Fasten drain base to sub-floor by screwing 2-1/2" deck screws through all holes in outside flange of drain base into plastic anchors or directly into wood sub-floor. **Do not over-tighten.**
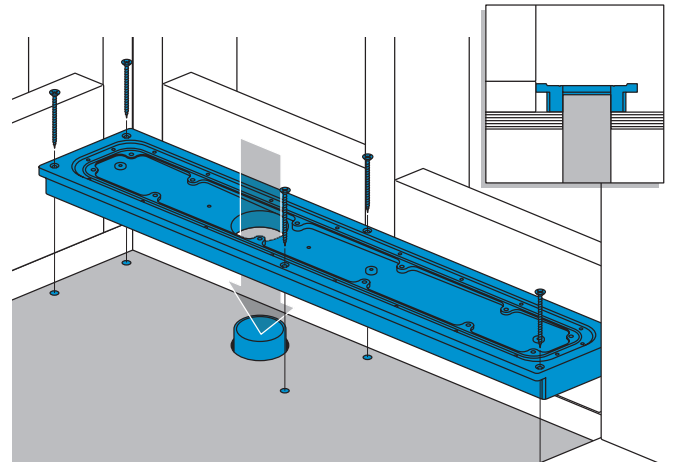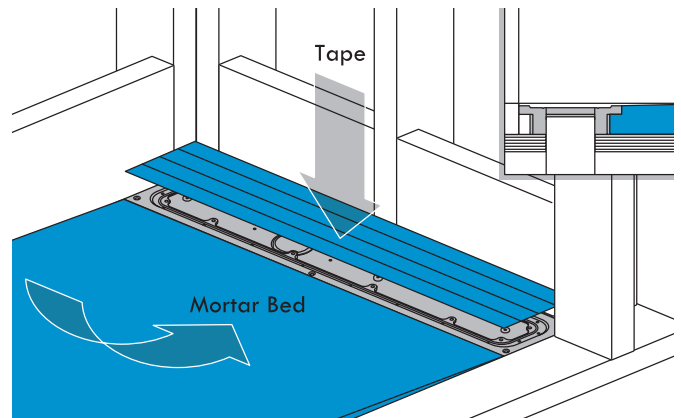
6. SLOPED MORTAR BED INSTALLATION

Protect Drain Base. Install Sloped Mortar Bed.

Apply tape over entire top surface of drain base.

Follow industry standards to complete sloped mortar bed installation. Be certain mortar completely fills void below drain base flange. Allow to dry before proceeding.

Tape

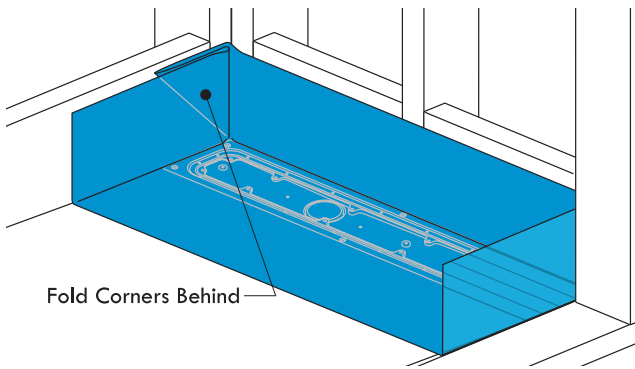Mortar Bed

MAKING CORNERS - See Prepare Flashing Below

Tucked Corner *(when space is available between studs)*

   Fold and crease to size. Tuck flashing into space between studs.

Tuck Between Studs
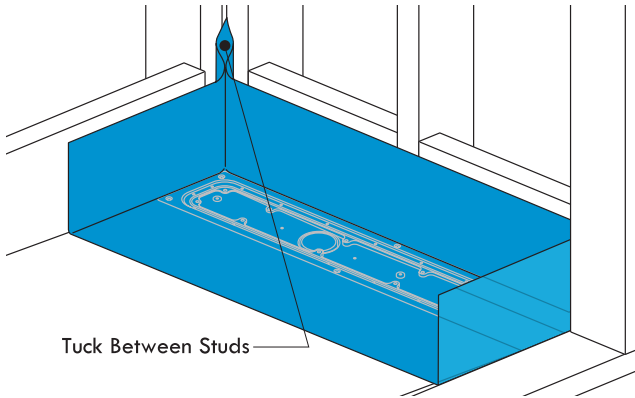
Folded Corner

   Fold and crease to size. Fold corners behind flashing.
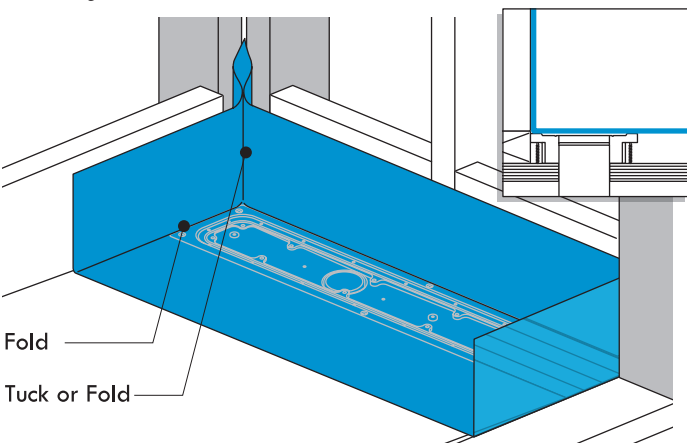

Fold Corners Behind

Drain at Back Wall

Flashing must turn up the walls a minimum of 3" above shower curb and 6" above floor in showers without curbs.

Measure width of shower floor across drain base. Lay flashing flat. Measure and mark flashing.

*Fold and crease for upturns and create corners. **Note:** Do not secure flashing at this time.*

Fold

Tuck or Fold

Drain at Full Curb Entry

Flashing must turn up the walls a minimum of 3" above shower curb and 6" above floor in showers without curbs.

Prior to installing flashing, install pre-formed outside corners available separately from bronte™ following manufacturer's instructions. 2 per side.

Measure width of shower floor across drain base. Measure up and over curb. Lay flashing flat. Measure and mark flashing.

*Cut, fold, and crease to proper size and fit. **Note:** Do not secure flashing at this time.*

Note: *bronte™ Curb may also be used. See manufacturer's instructions.*

Inside Shower   **Outside Shower**

6" min.

Outside Corners
Under Flashing

3" min.

Outside Corners
Under Flashing

Drain at Partial Width Curb

Flashing must turn up the walls a minimum of 3" above shower curb and 6" above floor in showers without curbs.
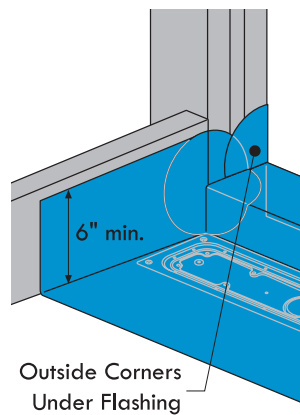
Prior to installing flashing, install pre-formed outside corners available separately from bronte™ following manufacturer's instructions. 2 per side.

Measure width of shower floor across drain base. Measure up and over curb. Lay flashing flat. Measure and mark flashing.
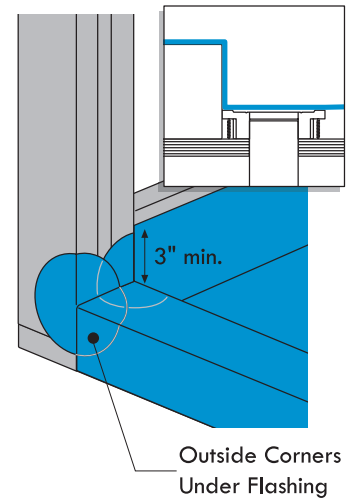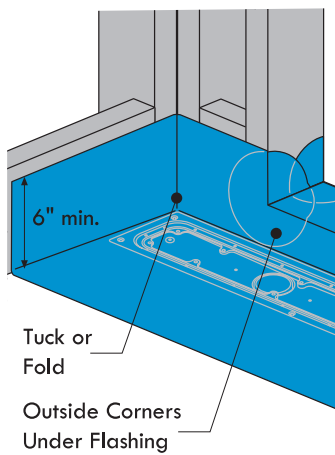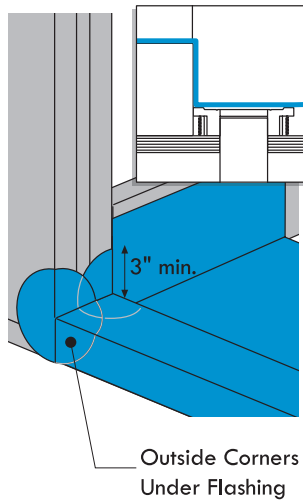
Cut, fold, and crease to proper size and fit. **Note:** Do not secure flashing at this time.

Note: *bronte™ Curb may also be used. See manufacturer's instructions.*

Inside Shower   **Outside Shower**

6" min.

Tuck or Fold

Outside Corners Under Flashing

3" min.

Outside Corners Under Flashing

Drain at Curb-less Entry

Flashing must turn up the walls a minimum of 3" above shower curb and 6" above floor in showers without curbs.

Measure width of shower floor across drain base.

Lay flashing flat. Measure and mark flashing.

Cut, fold, and crease to proper size and fit. **Note:** *Do not secure flashing at this time.*

Inside Shower   **Outside Shower**

6"

Fold
Outside Corners Under Flashing
Fold
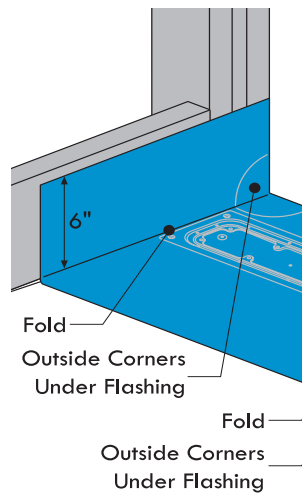Outside Corners Under Flashing

2" min.

Drain On Center

Flashing must turn up the walls a minimum of 3" above shower curb and 6" above floor in showers without curbs.

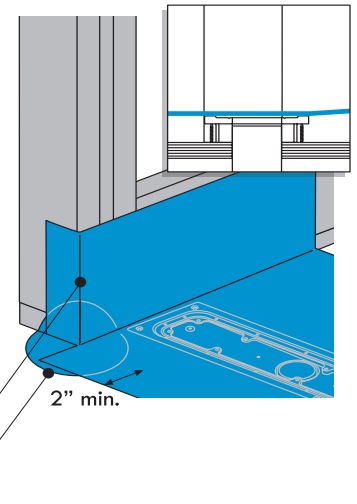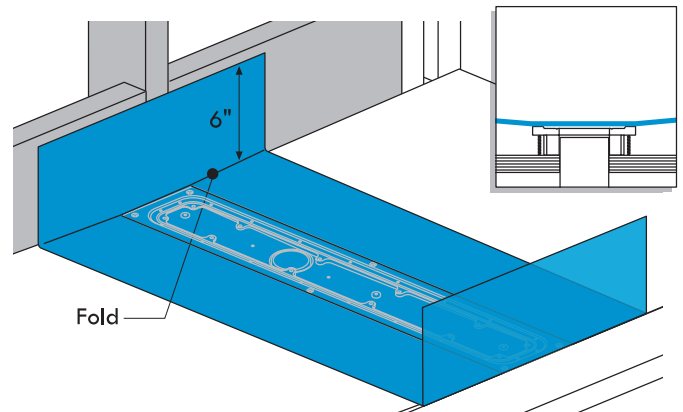Measure width of shower floor across drain base.

Lay flashing flat. Measure and mark flashing.

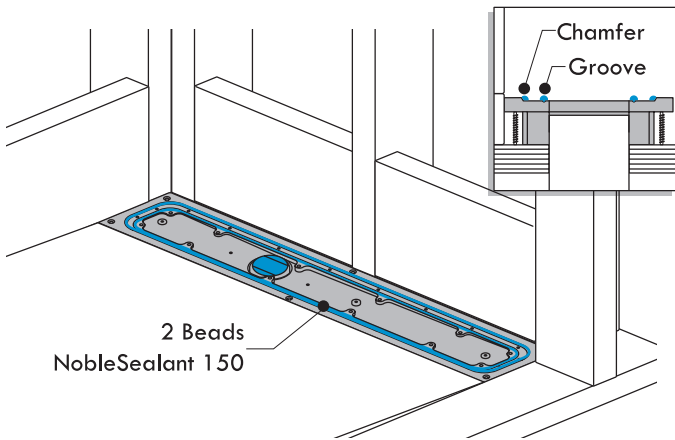Fold and crease for upturns. **Note:** *Do not secure flashing at this time.*

6"

Fold

8. SECURE FLASHING

8A. SEAL DRAIN BASE

Lift out flashing. Remove tape, leaving tape over drain hole only.

Apply a 1/8" continuous bead of NobleSealant 150 around chamfer on base flange and another bead in groove on drain base.


Chamfer
Groove

2 Beads
NobleSealant 150

8B. APPLY ADHESIVES

Apply NobleBond EXT or modified thin-set to mortar bed, walls, and curb as needed. Apply NobleSealant 150 to any pre-formed corners.
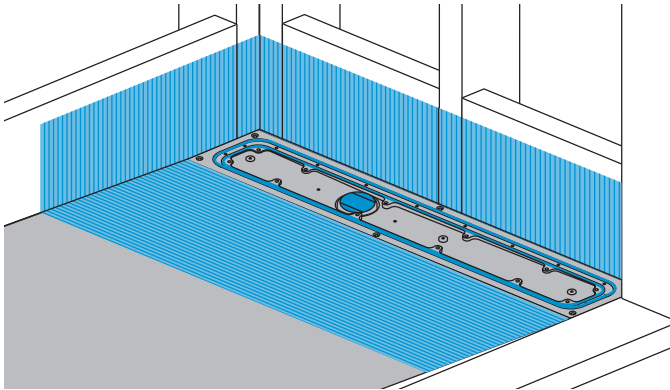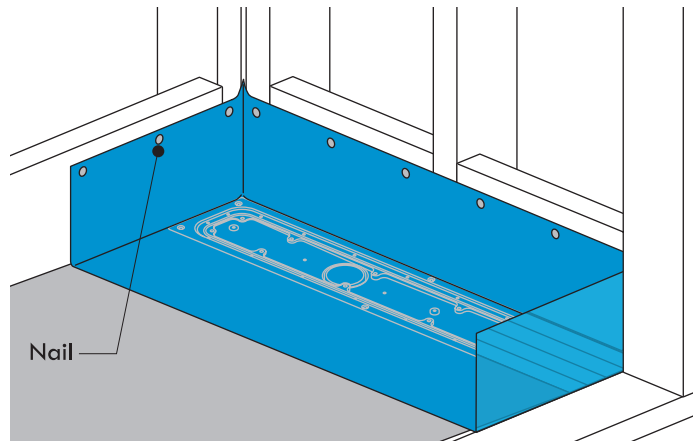

8C. PRESS INTO SEALANT AND ADHESIVE

Align membrane and firmly press all areas of membrane into adhesive on walls, floor, curb and sealant on drain base and any pre-formed corners.
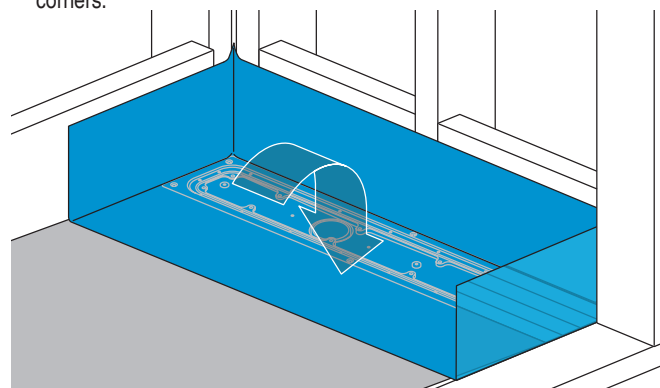
9. FASTEN FLASHING

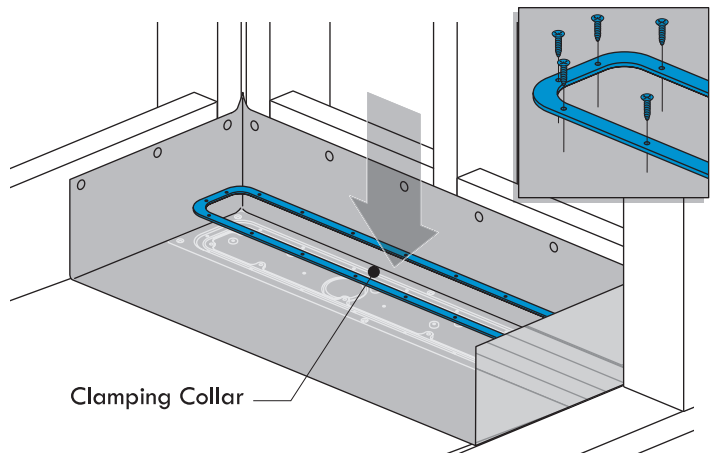Nail through top 1" of flashing to studs and/or blocking.

Nail

10. INSTALL CLAMPING COLLAR

Align collar with drain base under flashing. Press firmly.

Starting at one end, insert 5/8" screw through collar, punch through flashing, and screw into base. Repeat for all screws. **Do not over-tighten.**


Clamping Collar

11. CUT OUT FLASHING

With a razor knife, carefully trim out flashing from center of collar. Remove tape from drain hole. **Caution:** Do not puncture flashing outside of collar.

Cut Out Flashing

bronte™ **Linear Drain** Installation Guide
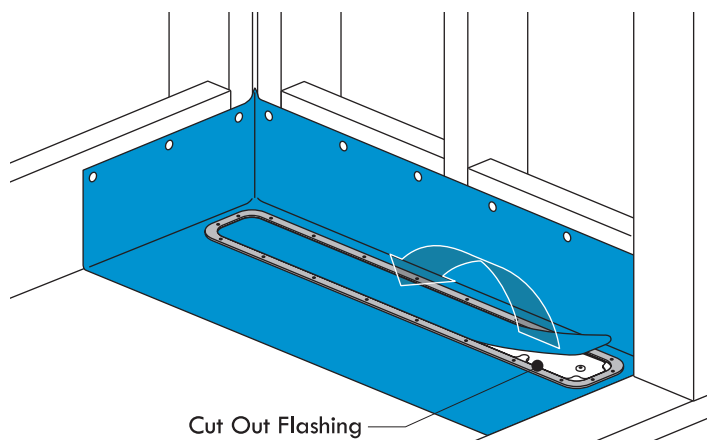
12. COMPLETE FLOOR WATERPROOFING

Complete installation of bonded waterproofing membrane (ANSI A118.10) on shower floor. NobleSeal® TS is preferred.
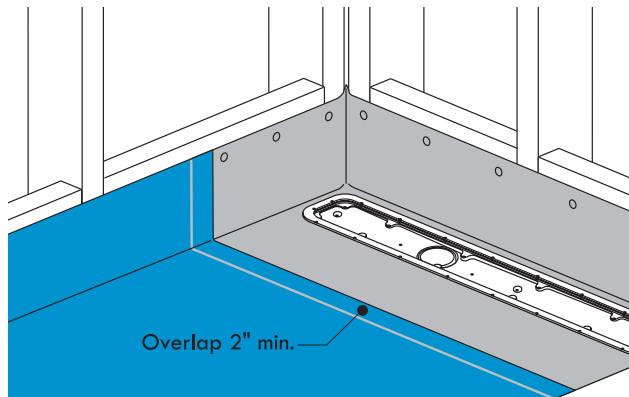
13. FLOOD TEST

Flood test as required by local codes.

14. INSTALL BACKER BOARD AND WALL WATERPROOFING

Note: *TCNA guidelines require waterproofing or a vapor barrier be installed on all walls.*

Install 1/2" backer board and wall waterproofing according to manufacturer's instructions, local plumbing codes, and TCNA guidelines.
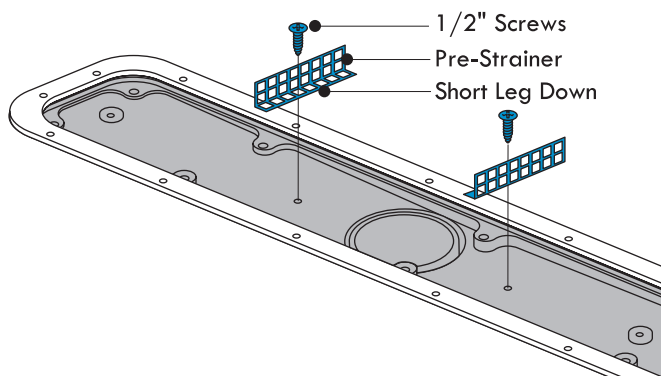
Caution: *Do not puncture flashing.*

15. INSTALL PRE-STRAINERS

Place short leg of Pre-Strainer down, facing drain hole. Install 1/2" pan head screw, align strainer and tighten screw.
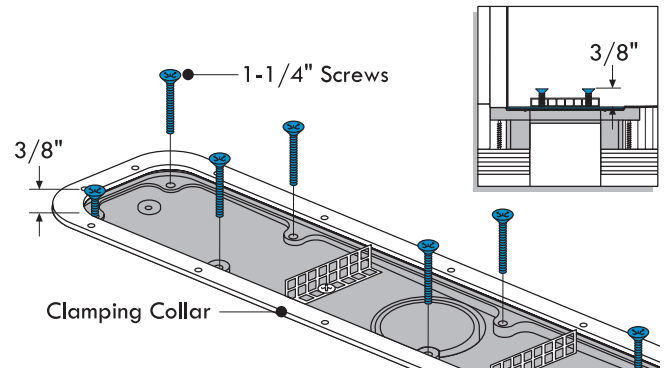
Repeat for opposite strainer.

Note: *On 24" drain, place long leg of Pre-Strainer down, facing drain hole.*


16. INSTALL HEIGHT ADJUSTMENT SCREWS

Screw in all 1-1/4" flat head height adjustment screws to 3/8" above the clamping collar.

17. TEMPORARILY ATTACH STRAINER

Note: *Strainer attachment holes are not symmetrical. If screws do not align with holes in drain base, turn strainer end-to-end.*

Place strainer over height adjustment screws. Temporarily fasten with three 1" pan head screws. **Do not over-tighten.**
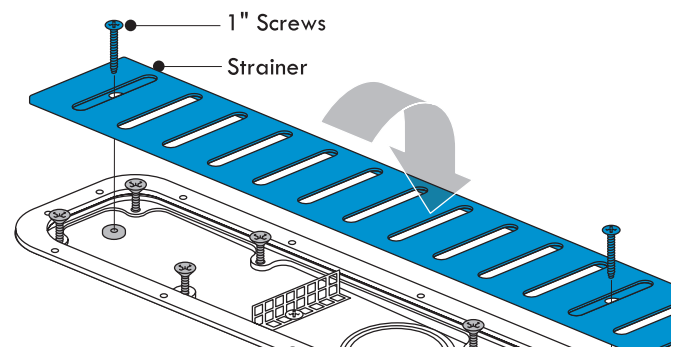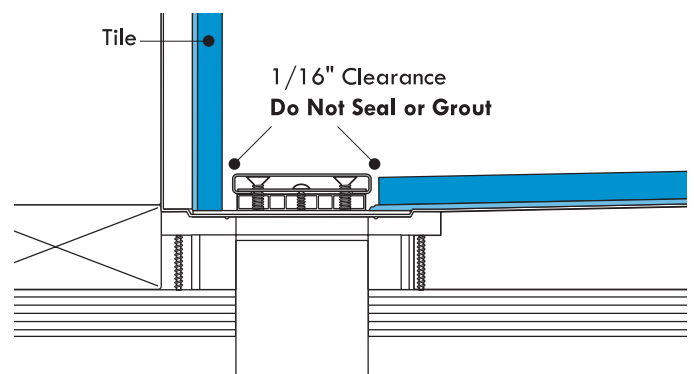

18. TILE AND GROUT

Protect strainer with tape.

Allow for 1/16" clearance between strainer and tile.

**Caution:** *Do not grout or seal this space.*

Tile and grout all surfaces following manufacturer's instructions and TCNA guidelines.

19. ADJUST STRAINER HEIGHT

Remove strainer. Remove tape from strainer.

Place thin end of height adjustment tool on tile and rest other end on height adjustment screw. Adjust screw for level. Repeat for all height adjustment screws.
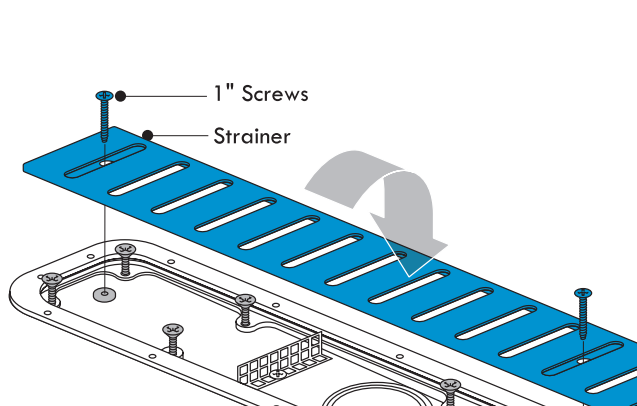

Remove Strainer

Height Adjustment Tool
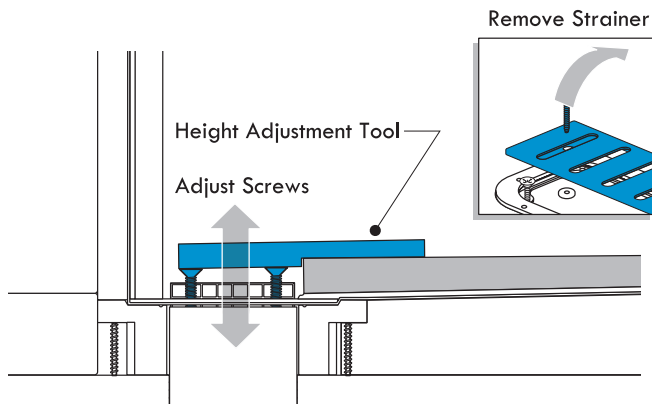
Adjust Screws

20. RE-INSTALL STRAINER

Note: *Strainer attachment holes are not symmetrical. If screws do not align with holes in drain base, turn strainer end-to-end.*

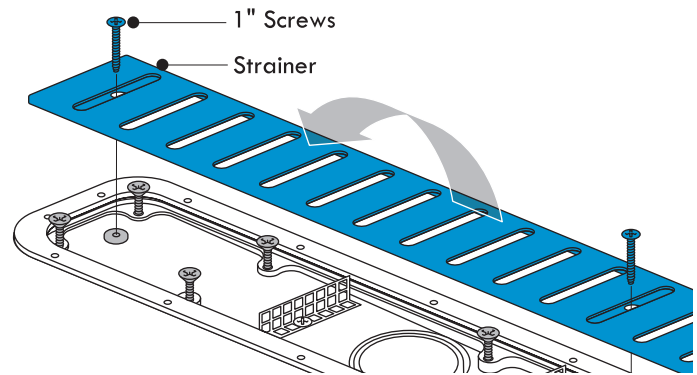Place strainer over height adjustment screws. Confirm that strainer is flush with all tiles. Fasten with three 1" pan head screws. **Do not over-tighten.**

1" Screws

Strainer

21. CLEANING DRAIN

To clean drain, remove 3 screws in top of strainer. Clear any hair or other obstructions from drain.

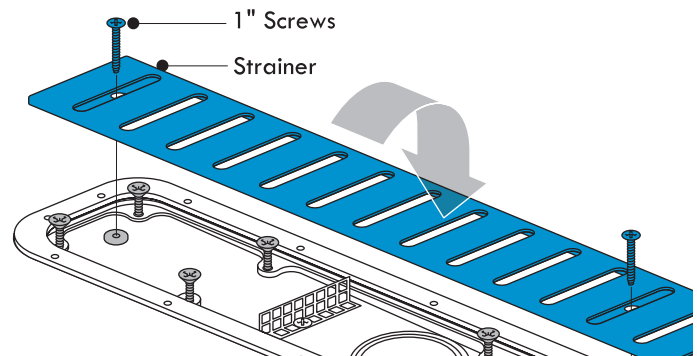**Remove Strainer**

1" Screws

Strainer

Re-Attach Strainer

Note: *Strainer attachment holes are not symmetrical. If screws do not align with holes in drain base, turn strainer end-to-end.*

Place strainer over height adjustment screws.

Replace all three screws.

Do not over-tighten.

1" Screws

Strainer

bronte™

An OS&B® Partner Company

2200 Speers Road, Unit C
Oakville, ON. L6L 2X8
1-905-827-0320
1-877-314-6040 Toll Free
www.brontecollection.ca

OTHER SHOWER PRODUCTS AVAILABLE FROM bronte™

Sheet membranes for waterproofing, crack isolation, and sound reduction
Pre-formed Niches, Benches, and Curbs
Shower Drains
Pre-Slopes and Shower Bases
Adhesives and Sealants
Drain Flashing
Inside and Outside Corners

ICC ES™ PMG

C UPC ®

PMG 1065   File No. 7249