

FASTrack ALU Drainage

Tools Needed

- (1) Allen wrench (Hex key) 5/32" (Step 5)
- (1) Adjustable wrench (Step 10)
- (1) Hex Socket 1/4" (Step 10)
- (1) Cutting Saw for aluminum (Step 2)
- (1) Saw appropriate for stainless steel (Step 25)
- (1) Power Drill (Step 12)
- (1) Tap drill bit 7/16" Dia. (Step 12)
- Silicone adhesive (GE285 recommended) (Steps 21 & 25)
- Teflon plumbers tape (Step 14)
- (1) 1/4" NPT tap (Step 13)
- Level (Step 9)
- Clamps or Vice grips (Step 15)
- Gauge for spacing between tracks (comb gauge or other type)

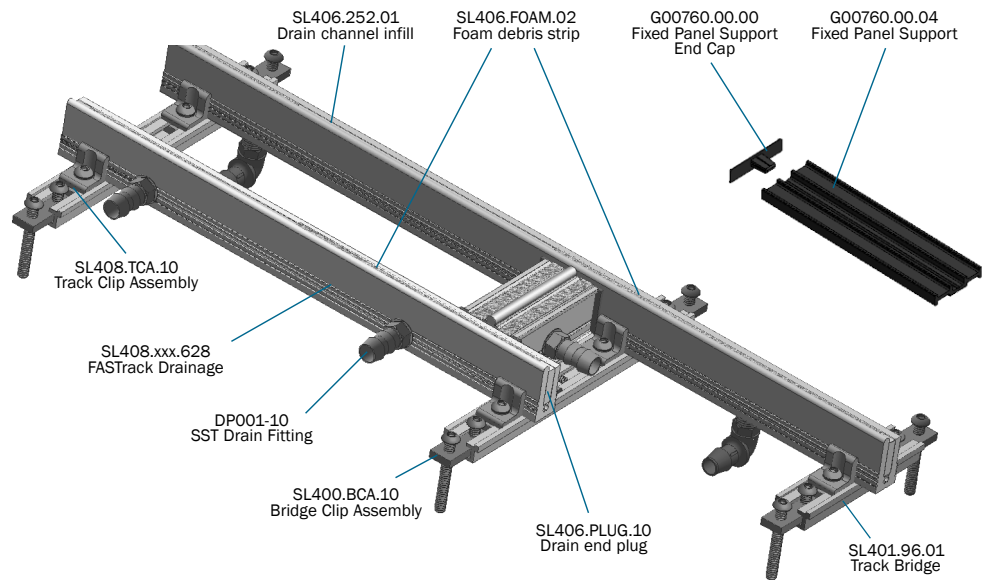
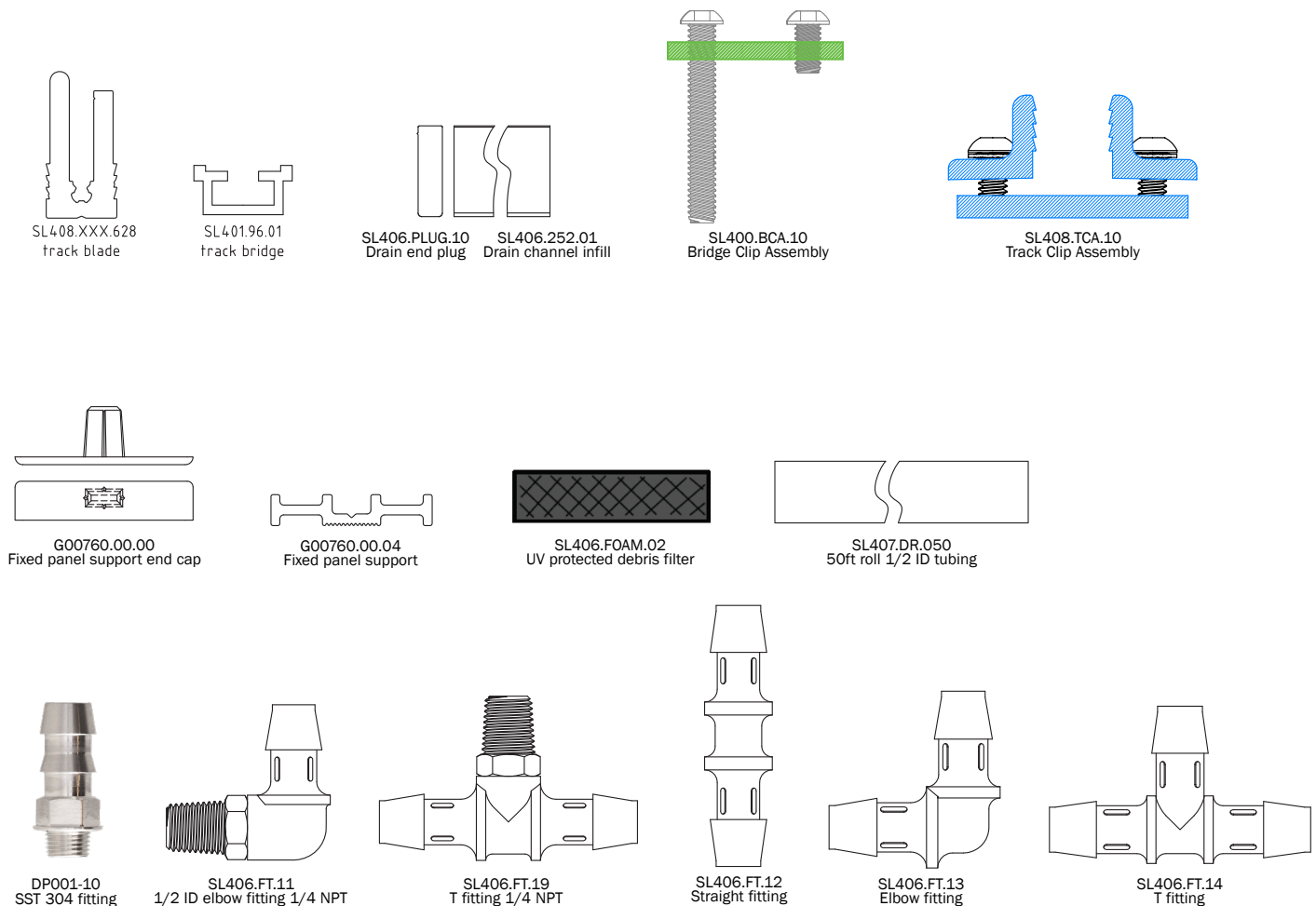


Fig. A

Parts



Plan Your Assembly

FFI does not advise on materials, dimensions, or specifications of floor or subfloor.

If concrete is used in flooring, it should be free of chlorinated additives (to prevent track corrosion).

Do not mix and match parts between the FFI Stainless Steel FASTrack system and Aluminum FASTrack system. They will not be compatible.

- The Drain Channel: face the flat top to the interior. Flat top should be level with the interior floor.
- Recommended: 12" to 24" space between Track Bridges for effective height adjustment.
12" for maximum adjustability, up to 24" for basic installations.

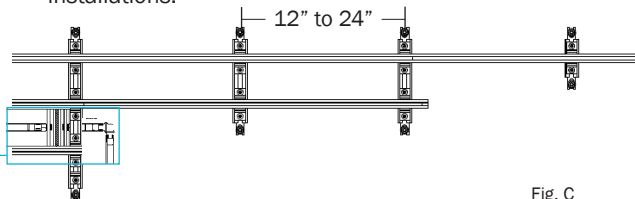


Fig. C

If using Interlock Drainage System

See page 10 for location of track bridge

- Assemble the system either in the floor at the jobsite, or pre-assemble elsewhere. Take care to protect the system during transport.
- Plan drilling of floor holes for Track Bolts: center approximately $\frac{1}{4}$ " to $\frac{5}{8}$ " wider side than the bridge piece length on each side (See fig A.)

Decide whether to anchor the Track Bolts in subfloor before attaching assembly on top or, attach Track Bolts to assembly structure and then move the whole assembly over and lower into floor holes.

- FASTrack Drainage System can be assembled to slope up to 2° for surface drainage.

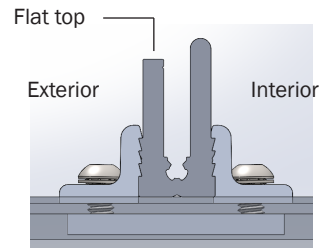


Fig. B

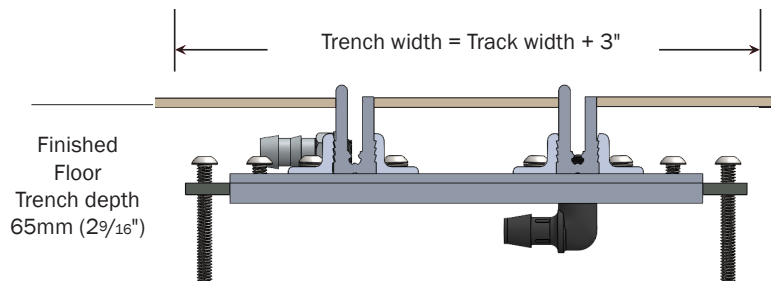
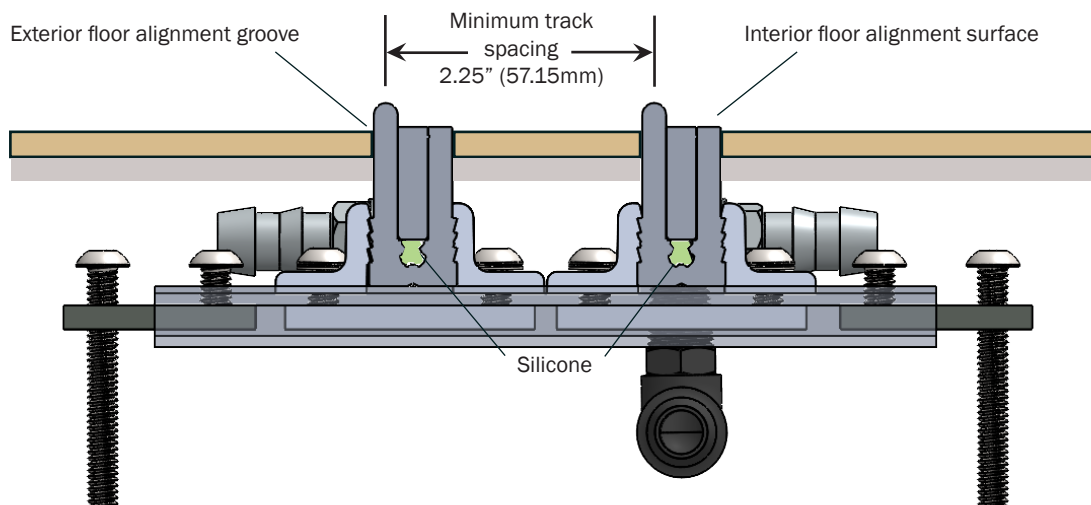


Fig. D

- Recommended: Use one continuous piece of Drainage Track for each panel, cut to the appropriate length, with no seams. If you must join 2 track pieces, use a FASTrack bridge and clips on both sides of the joint. Also, place the joint where wheels won't roll over it such as centered for meeting panels, inside the pocket or behind a fixed panel.

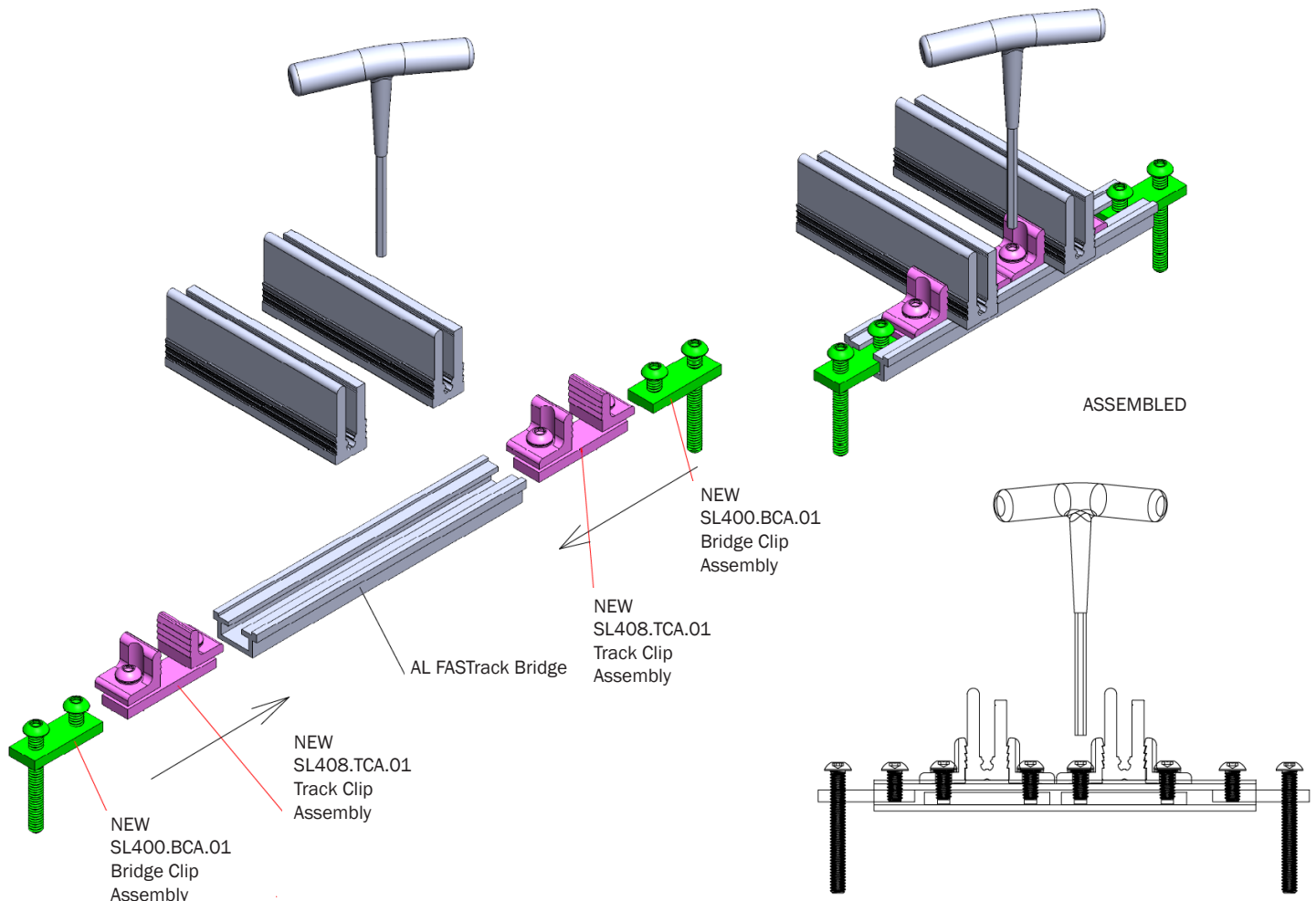
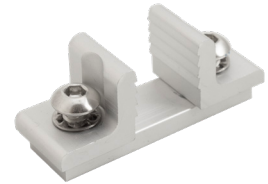
Next: Basic Assembly Steps and examples.



FASTrack ALU Drainage

Assembly Steps

1. Plan placement/spacing of track bridges on sub-floor.
2. Cut FASTrack to length. FASTrack Drainage requires cutting saw blade for aluminum material.
3. Decide on quantity of bridge clip assemblies needed. Bridge Clip Assemblies are pre-assembled units.
4. Track clip assemblies are shipped pre-assembled. Track assemblies are designed to firmly grasp FASTrack once tightened.
5. Slide track clip assemblies and bridge clip assemblies into track bridge channels as shown below.



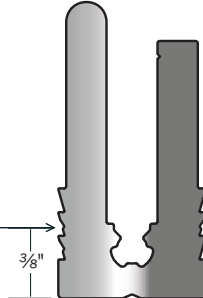


SST 304 Drainage Fitting Preparation and Installation

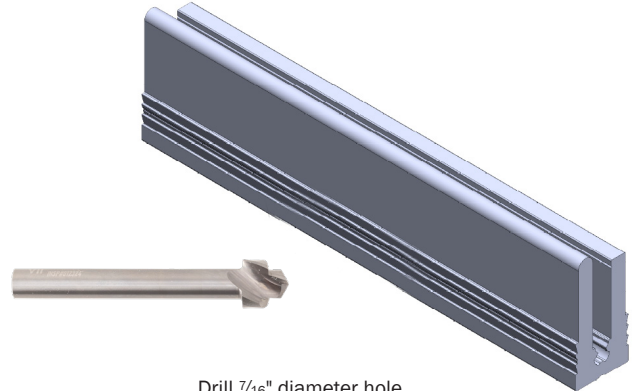
6.

Alignment groove

Positioning of the tap drill is approximately $\frac{3}{8}$ " from bottom of the drainage track.

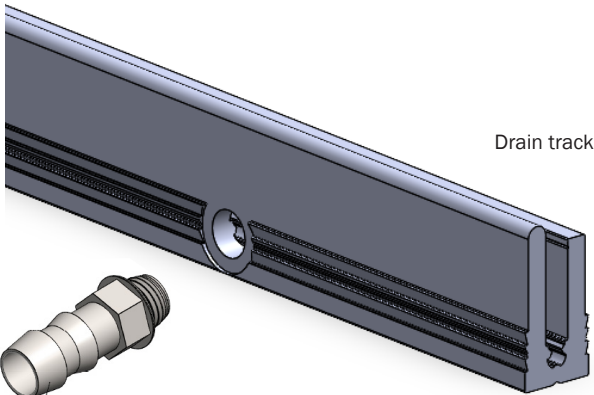


7.



Drill $\frac{7}{16}$ " diameter hole

8.

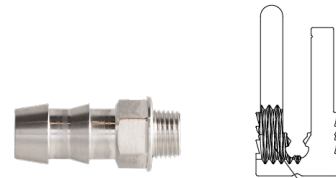


Drain track

DP001
Drain piece

Drain piece removed to show threads made in drain track.

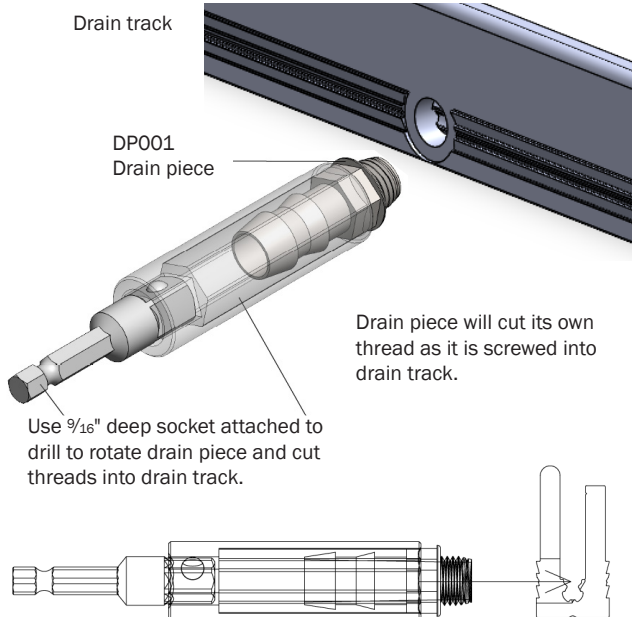
9.



Threads made by drain piece

10.

Drain track

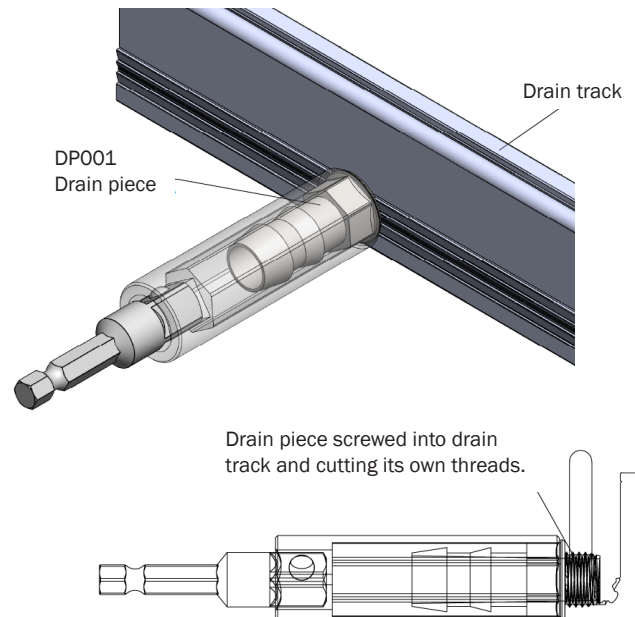


DP001
Drain piece

Drain piece will cut its own thread as it is screwed into drain track.

Use $\frac{9}{16}$ " deep socket attached to drill to rotate drain piece and cut threads into drain track.

11.



Drain track

DP001
Drain piece

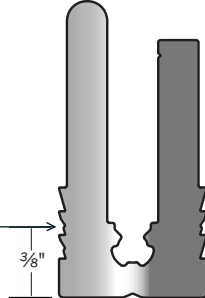
Drain piece screwed into drain track and cutting its own threads.



Black Polypropylene 90° Elbow Drainage Fitting Preparation and Installation

- 12.** Drill tap hole for drainage port using drill specification $\frac{7}{16}$ "
Note: Drainage port can be on either side or on bottom of drainage track.

Alignment groove
Positioning of the tap drill is approximately $\frac{3}{8}$ " from bottom of the drainage track.

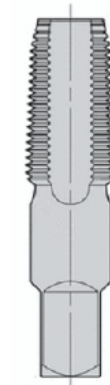


Note:

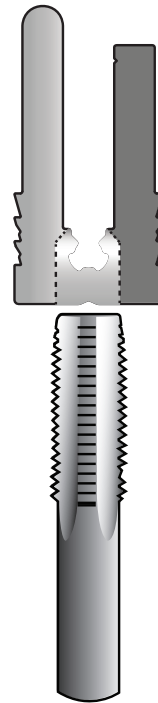
1. Drill pilot hole with $\frac{1}{4}$ " Dia. bit
2. Drill tap hole with $\frac{7}{16}$ " Dia. bit
3. Continue to step 13.



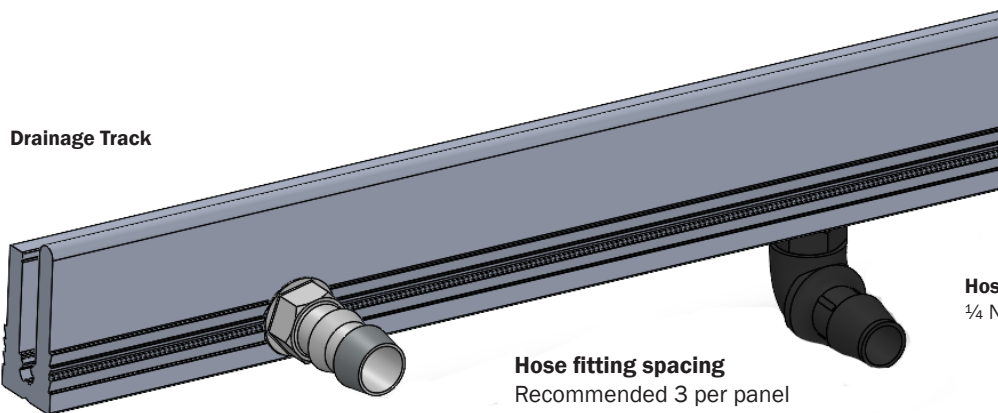
- 13.** Thread drainage port.
Thread to be $\frac{1}{4}$ " NPT



SL406.TP.01



- 14.** Install hose fittings (recommended: use plumbers tape).



Drainage Track

Hose fitting
 $\frac{1}{4}$ NPT thread.

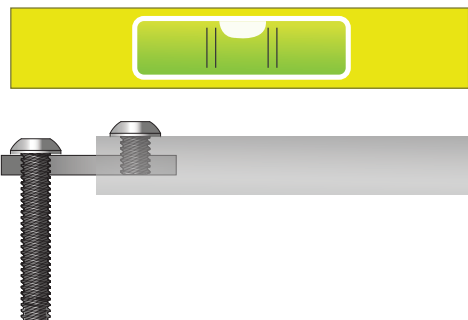
Drain hole
Drill drainage holes as required to a depth of $\frac{1}{4}$ "
(See "tap hole detail")
and tap for $\frac{1}{4}$ NPT thread.

Hose fitting spacing
Recommended 3 per panel
Maximum distance between fittings: 30".

If using the Interlock Drainage Kit, space fittings approximately 6" from the interlock.

Assembly Steps

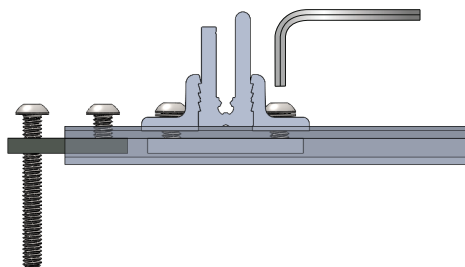
- 15.** Check and level tops of track bridges.



- 16.** Insert required track clip assemblies on bridge.

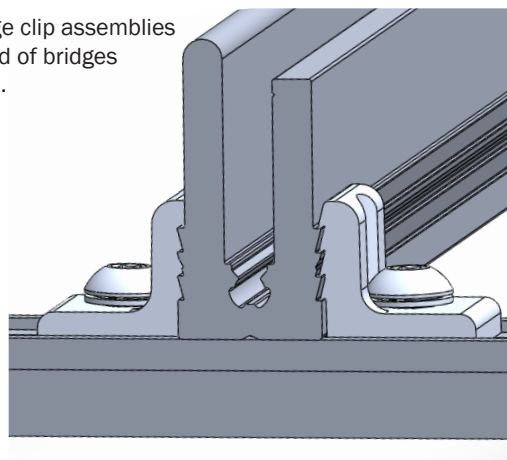


- 17.** Insert track between clips of track clip assemblies. Slide the track into position. Secure track with track clip assembly on each bridge.

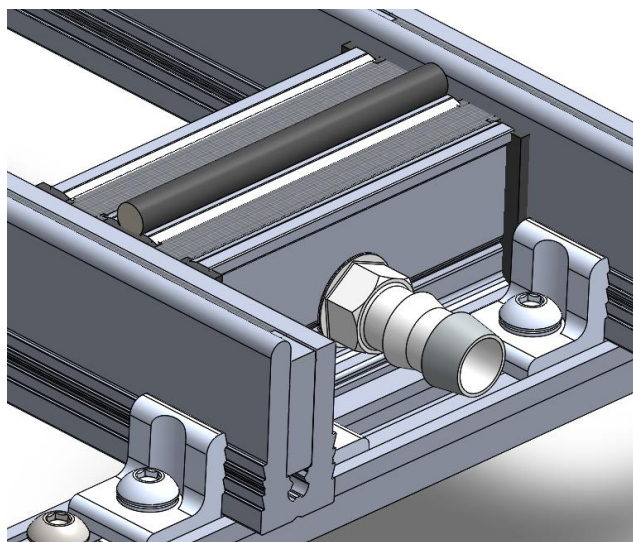


- 18.** Tighten track clip assemblies: While holding track clips to track securely tighten fixing bolts with 4mm hex wrench. Repeat this process for all drainage tracks on bridges.

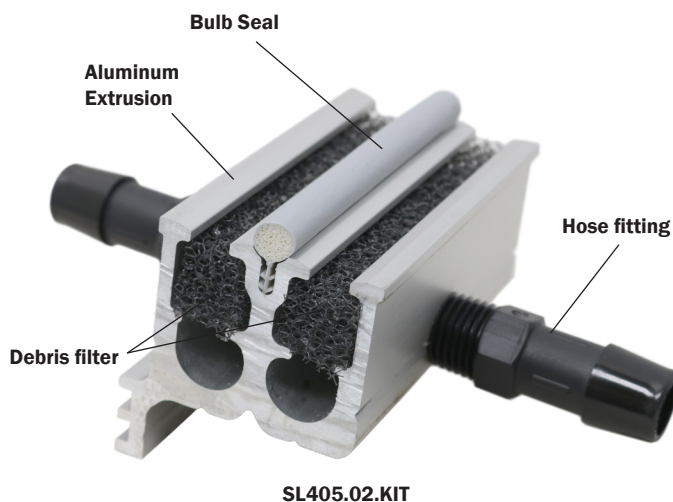
Insert bridge clip assemblies on each end of bridges and tighten.



- 19.** See optional Interlock Drain assembly instructions.



- 20.**

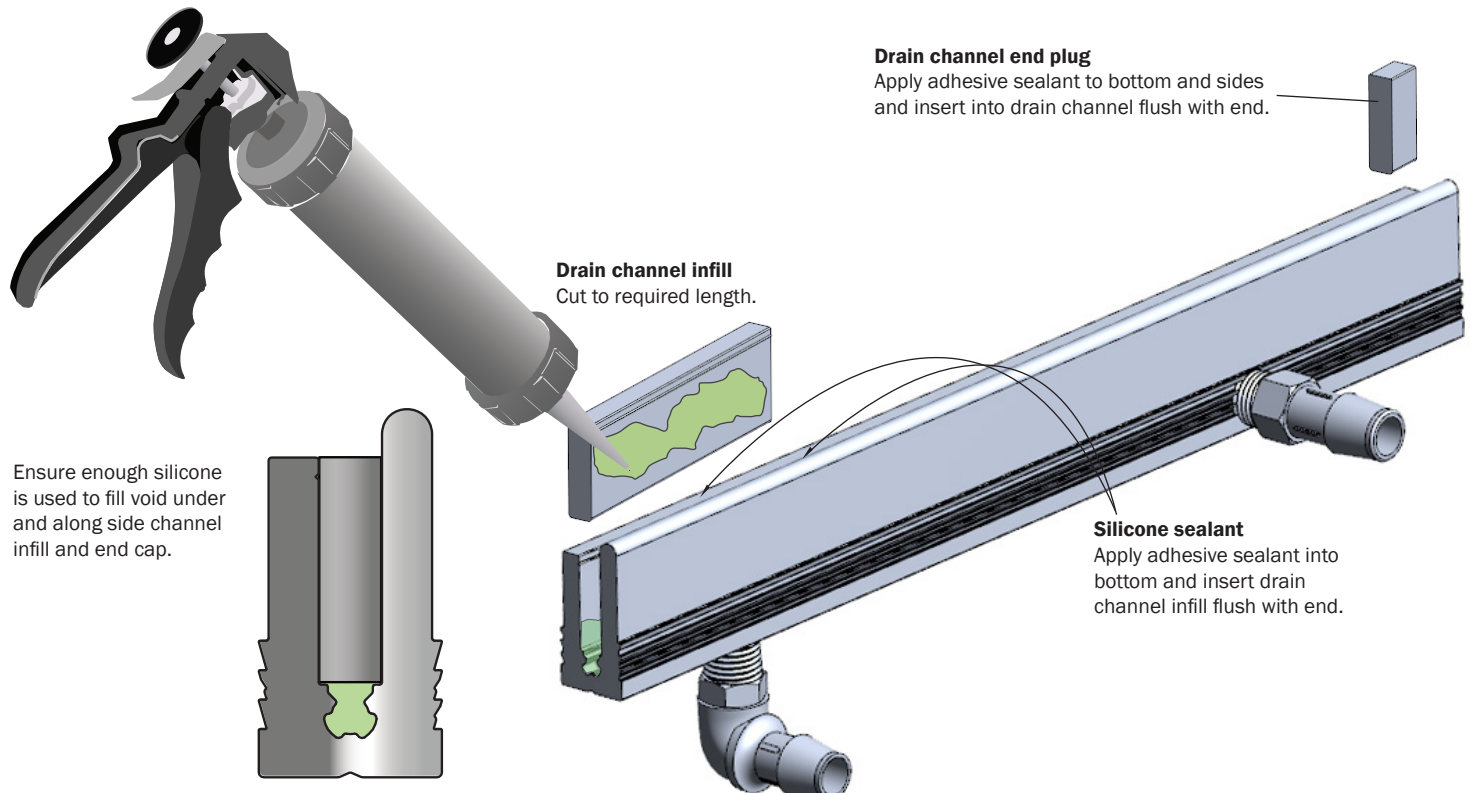


Assembly Steps

21. Attach the optional Interlock Drain to bridge using Fixing Screw supplied with Interlock Drainage Kit
22. Lower assembly into the trench.
23. When leveling Drainage tracks, align the flat top surface of the drainage track with the finished floor level and to the interior of the building.
This will ensure the proper height of the roller portion of the track for correct panel operation and drainage orientation. (OXX configuration shown below).

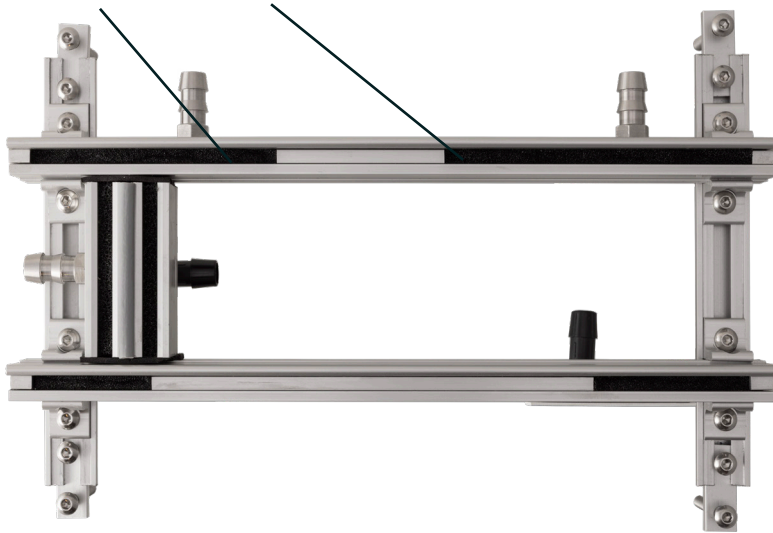


24. Install aluminum infill and Drain Channel end plugs at the ends of each track with sufficient silicone sealant. Epoxy in place, wipe off any excess sealant.



FASTrack ALU Drainage

- 25.** Cut foam debris filter to desired length and insert into drainage channel.

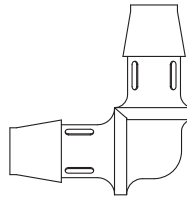


- 26.** If an exterior screen is to be used, an additional SL407.144.01 12' FASTrack blade can be inserted. Contact FFI for more information.

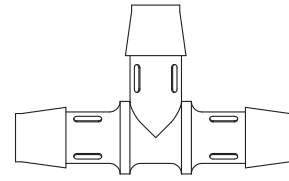


Attach the fixed panel support assembly directly to finished floor. Use appropriate screws according to the flooring material being used.

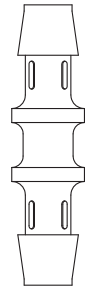
- 27.** Attach drainage hose to valve fittings and run drainage hose line away from FASTrack to your pre-planned drainage area.



SL406.FT.13
Elbow fitting



SL406.FT.14
T fitting



SL406.FT.12
Straight fitting



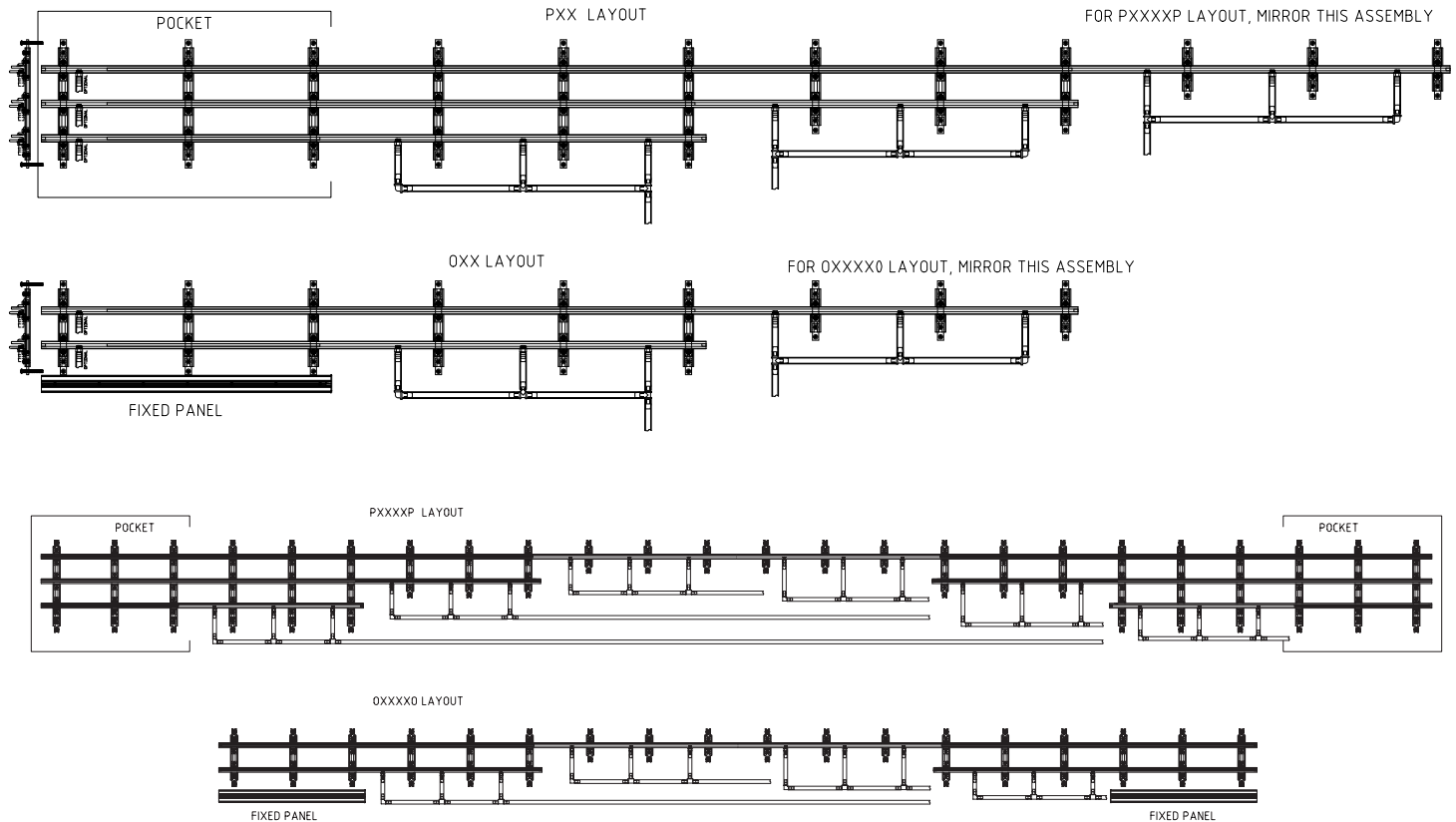
Shown with optional
Interlock Drainage Kit.

Additional drainage
area is recommended
at the end of the track
to reduce any water
entrapment.

For effective results, all drainage
tubing should be sloped to allow
proper water drainage.

Examples

Typical drainage tubing assembly for single-sided panel.

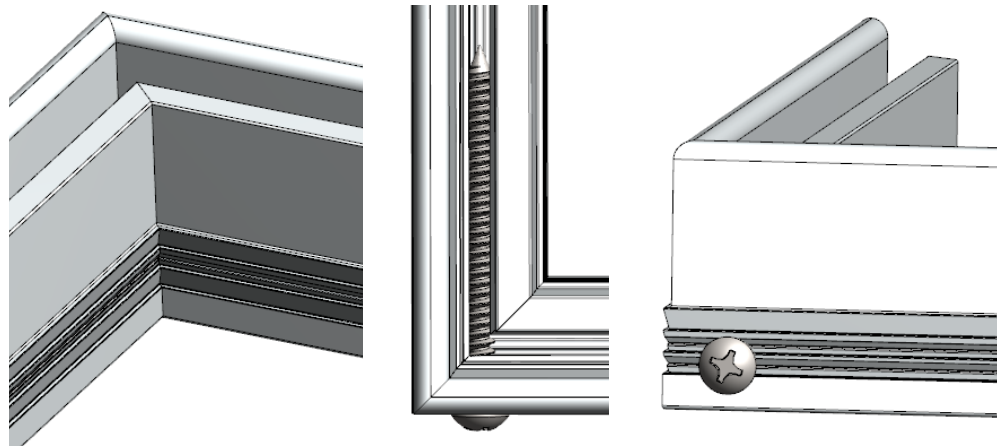


Recommended 3 fittings per panel connected to one drain hose. For example, no more than 3 drain fittings per main drain.

Corner Installation

FASTrack Drainage features an internal screw chase for 90° corner assemblies (other angles are possible). Fully functional drainage is possible throughout the joined corner assembly.

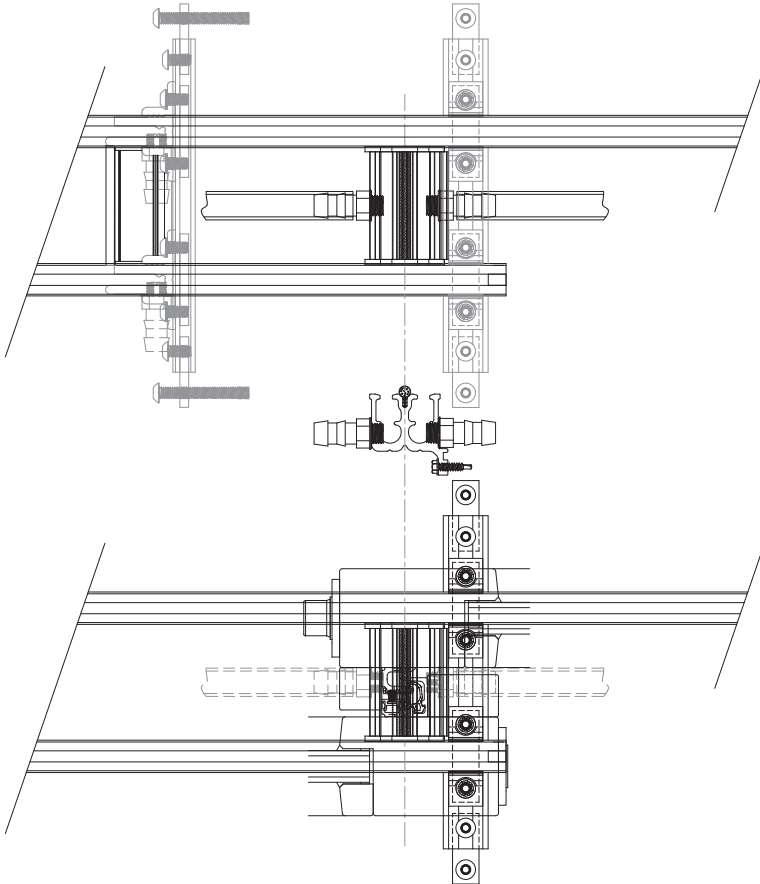
1. Drill pilot hole at the angle required.
2. Secure FASTrack extrusion into corner orientation with #8 screw.



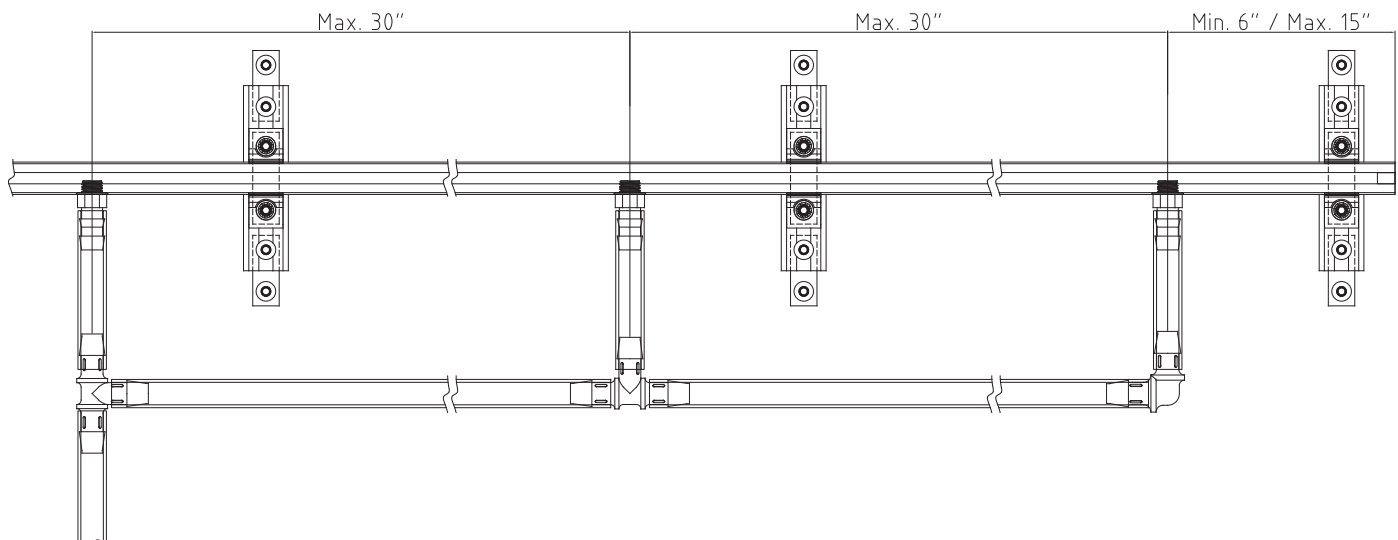
Examples

Typical drainage tubing assembly for single-sided panel.

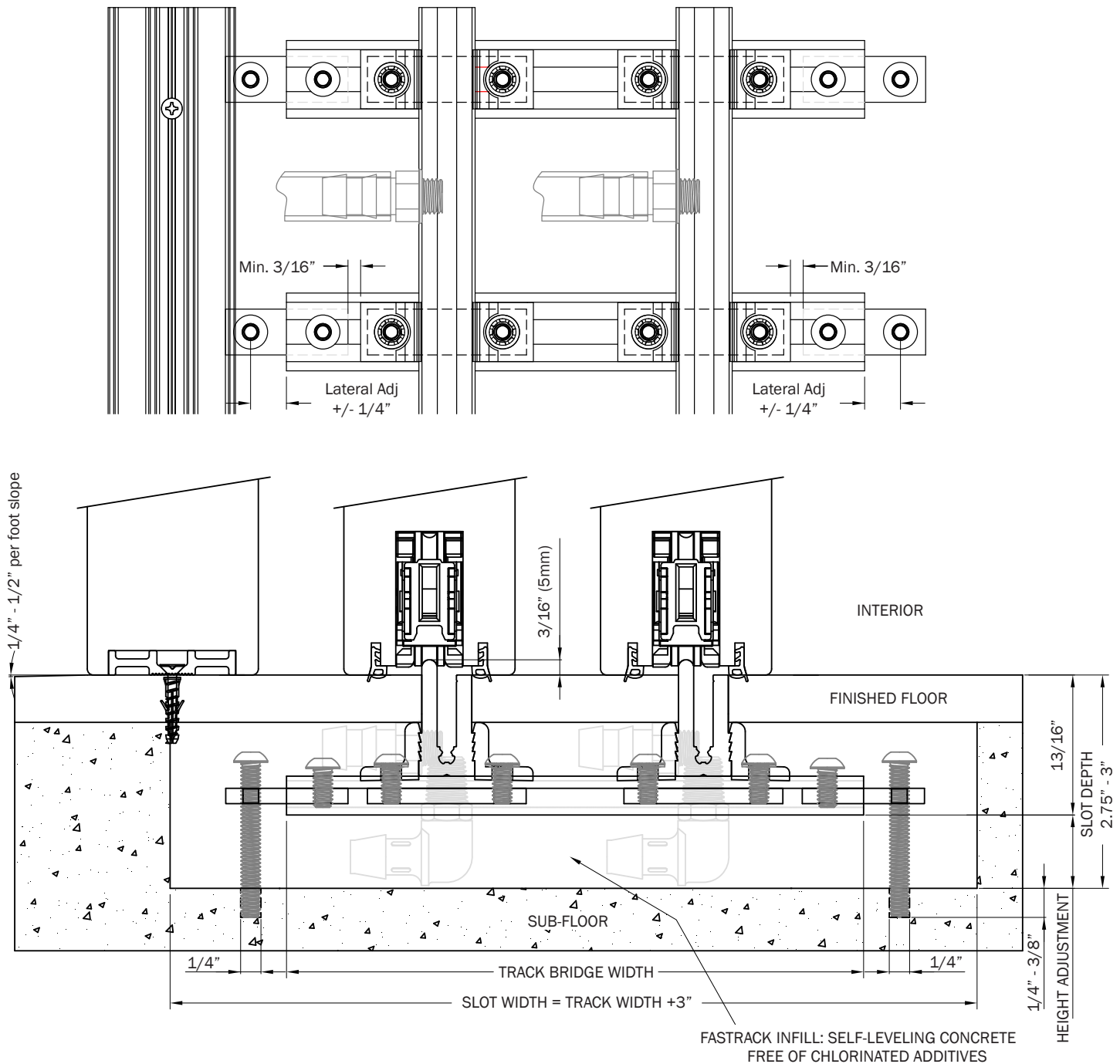
Interlock Drain



Recomended 3 Drains Per Panel Minimum



System drainage example



The slot required for the FASTrack system should be level within 1/4" across the door opening. Slot prep must allow for the drainage hose to weep to the exterior of the structure using a slope of 1/4" - 1/2" per foot. The dimensions of the slot are determined by the configuration of the door system to be installed, as well as the finished floor thickness. During installation the FASTrack must be protected from damage and contamination, extra care should be taken to protect the drainage system.

WARRANTY FOR FFI FASTRACK SYSTEMS

Materials and Manufacturing: All FFI FASTrack components are warranted for one (1) year from invoice date against defects in materials and manufacturing.

Corrosion: FFI SST (stainless steel) tracks are warranted for ten (10) years against corrosion-related functional failure. FFI brass tracks and Class I anodized aluminum tracks are warranted for one (1) year against corrosion-related functional failure. Surface discoloration, surface rust and minor scratches are normal and don't affect product function.

Limitations: Warranty applies under normal use conditions and following recommended installation and maintenance. Warranty doesn't cover corrosion from direct exposure to harsh chemicals such as chlorine or chlorides. Aluminum is at risk for corrosion when embedded in concrete that contains chlorides. Warranty doesn't cover malfunctions due to improper installation nor settling of floor.

Recommended Maintenance: Monthly maintenance to clean debris and surface residue away from tracks is recommended, using water and mild dishwashing soap or diluted vinegar. To clean surface discoloration and rust from stainless steel use: water and brass/bronze cleaning wool or a mildly abrasive green pad such as Scotch-Brite. To clean surface discoloration and rust from aluminum use: water, mild dishwashing soap or diluted vinegar and a soft brush or cloth. Never use steel wool or steel brushes. Keep stainless steel separated from steel, iron or other dissimilar metals to prevent galvanic corrosion.

FFI FASTrack System Assemblies and Compatibility: FFI has a range of FASTrack systems, including FASTrack in all Stainless Steel & Brass, all Aluminum Class I anodized, and FASTrack Drainage systems. Use each system only as specified and recommended. Do not mix-and-match parts as they may not fit properly on a different system (for example, the aluminum clips aren't compatible on the stainless track).

The Delrin wheels of FFI SST lift slide carriages are compatible on any track material. If using patio door rollers with steel or stainless steel wheels, aluminum track is not recommended. See FFI catalogs for compatibility recommendations for 5mm and 6mm diameter tracks and rollers.

Liability of Functional Fenestration Inc (FFI), Hawthorne, CA, as the seller for any defective product is limited to the replacement or credit of FFI product at original cost, and shall not include damages of any kind, whether incidental, consequential or otherwise. Any return and claim must be made in accordance with FFI Terms and Conditions.

