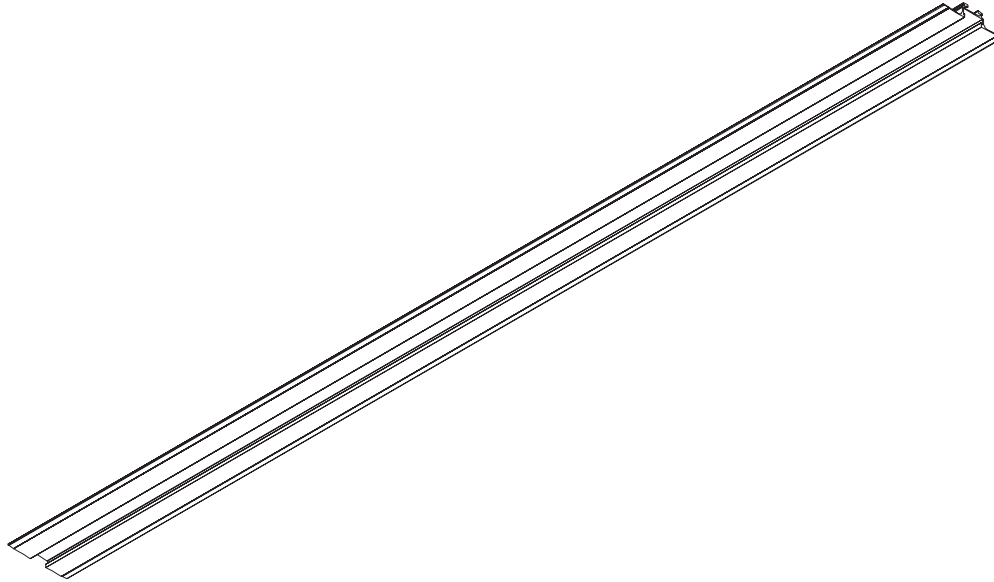


Flush Floor Track Accessory for GearBoss® X-Cart™ and Team Cart™



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Visit the GearBoss High-Density Storage System web page at gearboss.com for more information.

Note: Please read and understand these instructions before proceeding.
Note: If you need additional information, contact Wenger Corporation using the information below.

Important User Information

General

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In no event will Wenger Corporation be liable for technical or editorial omissions made herein, nor for direct, indirect, special, incidental, or consequential damages resulting from the use or defect of these instructions. The manufacturer reserves the right to change this product at any time.

The information in this document is not intended to cover all possible conditions and situations that might occur. The end user must exercise caution and common sense when assembling or installing Wenger Corporation products. If any questions or problems arise, call the Wenger Corporation at (800) 4WENGER (493-6437) or +1-507-455-4100 worldwide.

Manufacturer

The Flush Floor Track Accessory for GearBoss® X-Cart™ and Team Cart™ is manufactured by:

Wenger Corporation
555 Park Drive
Owatonna, MN 55060
(800) 4WENGER (493-6437) • +1 (507) 455-4100
wengercorp.com

Intended Use

- This product is intended for indoor use in normal ambient temperature and humidity conditions – it must not be exposed to outside weather conditions.
- This product is intended to be permanently installed and used only as described in these instructions.
- This product is intended to be permanently installed in a freshly poured concrete floor (new construction) with a recess for the Flush Floor Track as described in these instructions.

Warranty

Warranty information is available at wengercorp.com.

Safety Precautions

Throughout this document you may find cautions and warnings which are defined as follows:

- **WARNING:** Failure to follow the instruction could result in serious injury or damage to property.
- **CAUTION:** Failure to follow the instruction could result in minor injury or damage to property.

Read all of these safety instructions before assembly, installation or use.

General

CAUTION

Make sure anyone assembling, installing or using this product has read and understands these instructions.

CAUTION

Failure to comply with Warnings and Cautions in this document or on the equipment can result in damage to property or injury.

Installation

WARNING

Installing on floor surfaces that are not level or that have rough and uneven areas can result in a system not performing correctly. Failure to observe this Warning can result in carts not remaining in place, not being stable and not being safe when moving on the floor track.

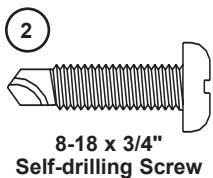
CAUTION

Some assembly steps require that two or more persons work together. Some components are heavy and are difficult to handle alone.

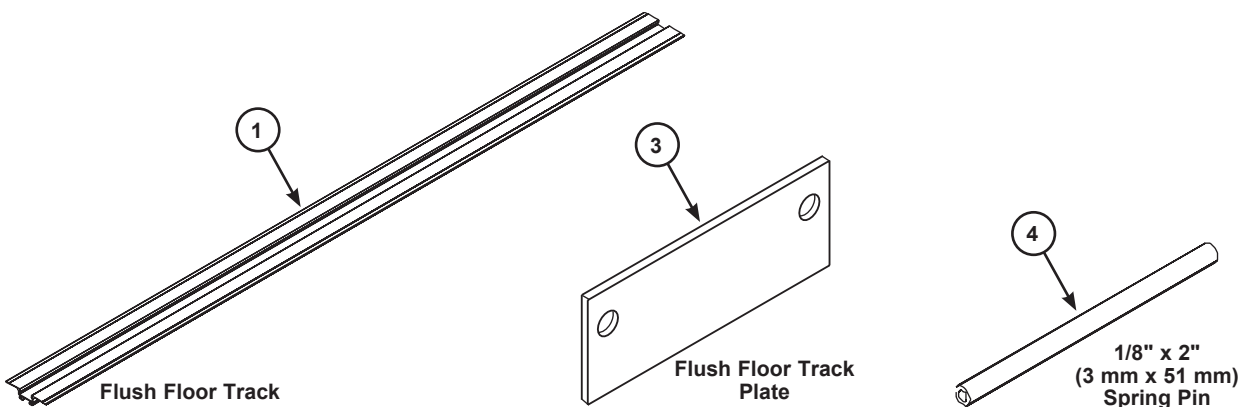
Required Tools

- Cordless drill
- Mallet
- Phillips drive bit

Supplied Hardware

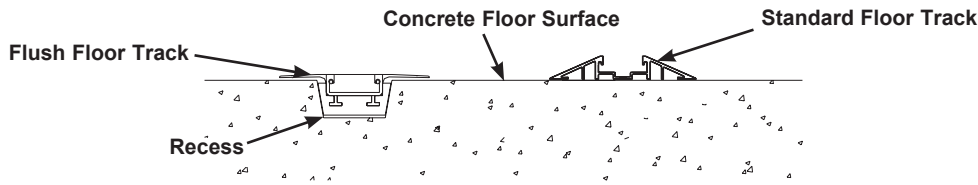


Parts List



Flush Floor Track Installation

The following paragraphs are intended to describe for architects and contractors how to install the flush floor track accessory in new construction. The flush floor track accessory requires a recess in a newly poured concrete floor. The flush floor track has a lower profile than the standard floor track.



Profile of Flush Floor Track and Standard Floor Track

To determine the location for the track, refer to the GearBoss High-Density Storage System Owner's Manual 240A099.

If the flush floor track is to be parallel to a wall, the center of the flush floor track must be a minimum of 78" (1981 mm) from the wall. This will allow 1" (25 mm) of clearance between the carts and the wall. The 78" (1981 mm) dimension may be increased if:

- More clearance to the wall is needed for a thermostat, electrical conduit, window frames, etc.
- If the wall position may vary due to construction tolerances, or
- More clearance is desired between the wall and the carts for shelves, hooks, etc.

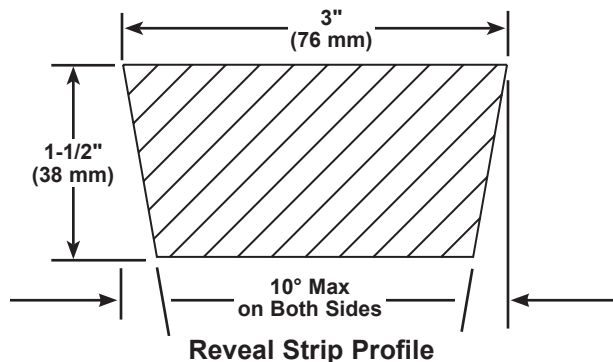
Make sure that there are no obstructions within the perimeter of the high density sports storage system that are lower than the top of any cart assembly and that might interfere with the lateral movement of any carts on the track. If movement will be impaired, the flush floor track placement must be adjusted.

Making and Placing the Reveal Strip

Before pouring a new concrete floor, a reveal strip (or form) must be manufactured from a fir, spruce, or pine 2x4 board. The profile dimensions for the form are shown below.

NOTICE

Always use the straightest 2x4 boards that are available.



The total length of the reveal strips must be at least 1" (25 mm) longer than the total length of the flush floor track assembly. Flush tracks are furnished in 8' (2438 mm) lengths. Refer to "Assemble the Full Length Flush Floor Track" for additional information regarding connecting flush floor tracks together and cutting flush floor tracks to shorter lengths.

Flush Floor Track Installation (continued)

Making and Replacing the Reveal Strip (continued)

Place the reveal strip as follows.

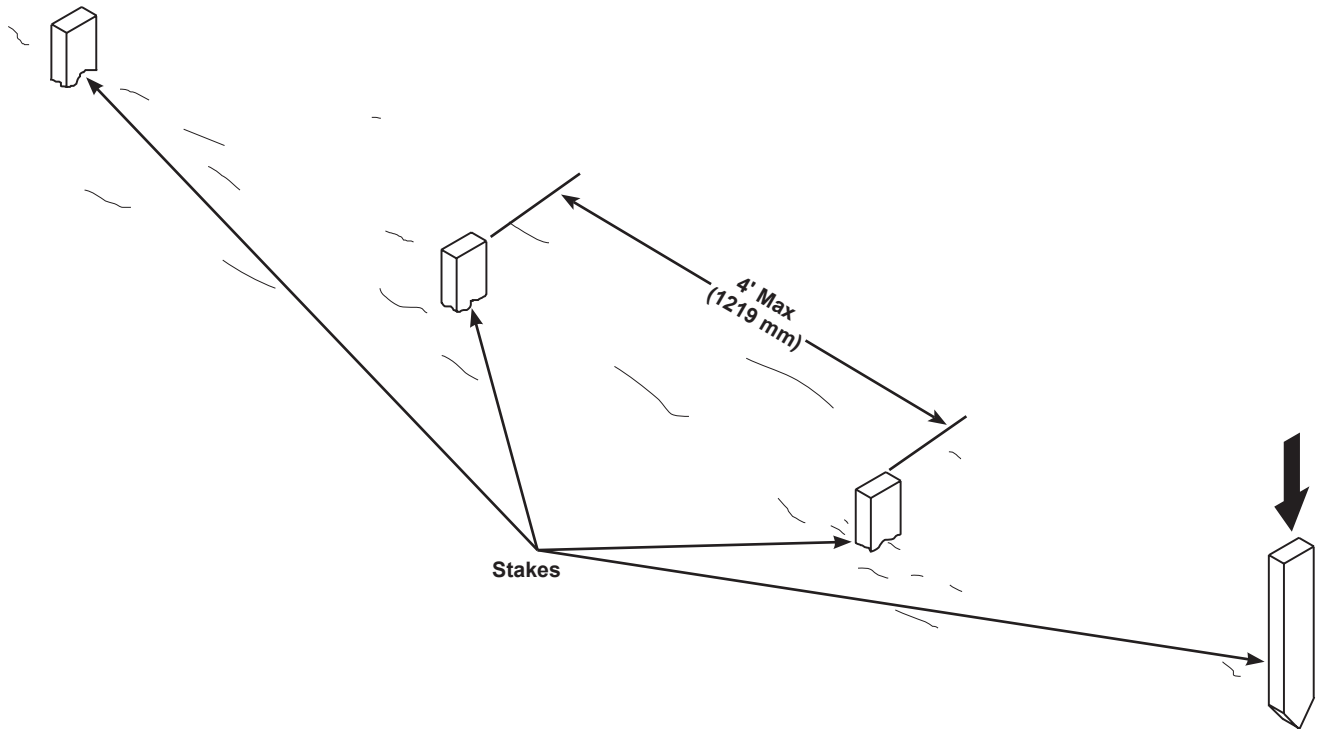
1. Determine the following.
 - a. The centerline of the flush floor track location
 - b. The height of the new floor surface
2. Cut stakes from a 2x4 board.
3. Using a mallet or maul, drive the stakes into the ground so that all of the stakes are level with each other and are 1-1/2" (38 mm) below the new floor surface. Refer to the illustration below.

NOTICE

Supporting stakes should be spaced no more than 4' (1219 mm) apart.

NOTICE

The top surface of the stakes must be level with each other and 1-1/2" (38 mm) below the surface of the new floor surface.



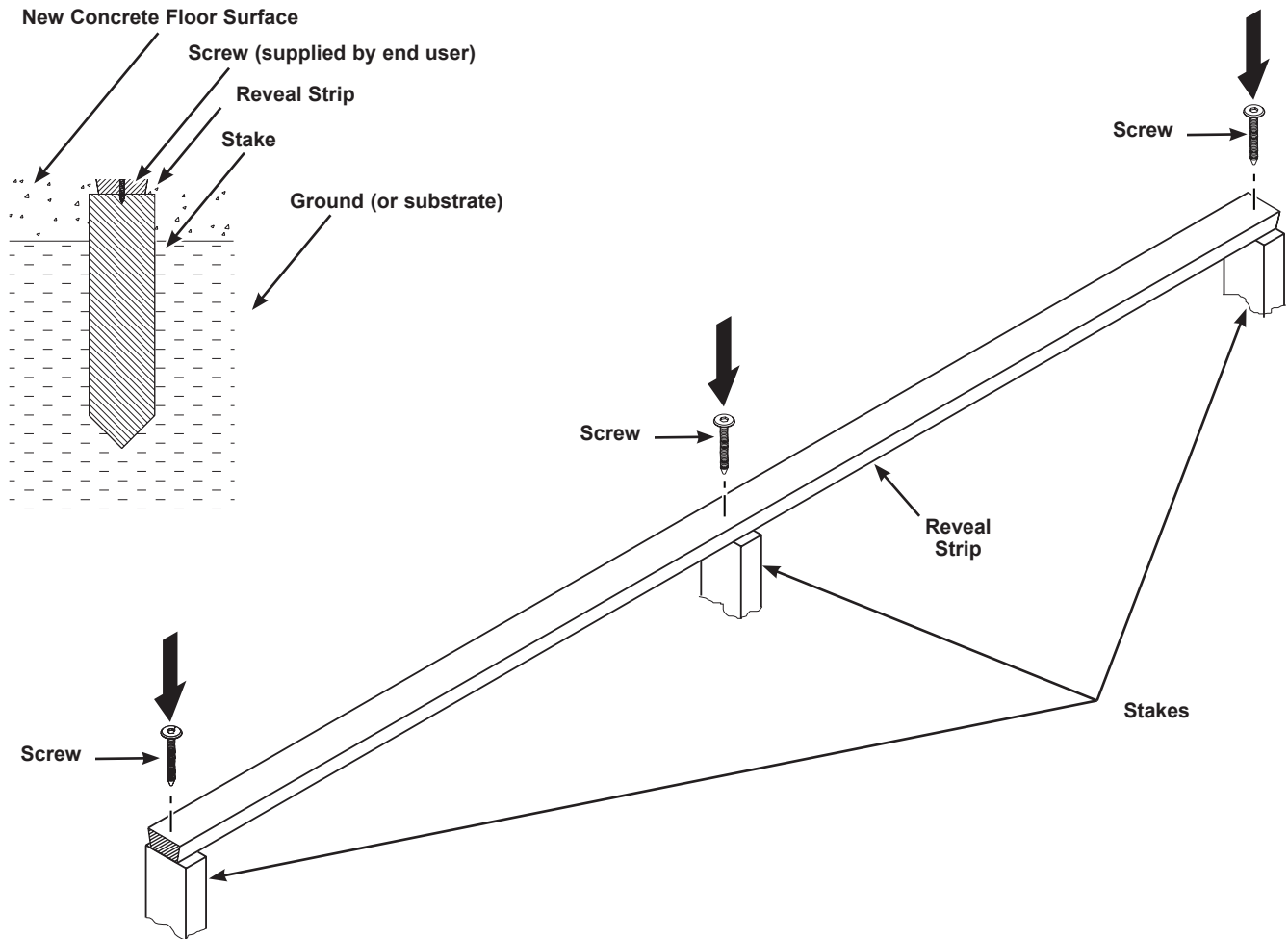
Flush Floor Track Installation (continued)

Making and Replacing the Reveal Strip (continued)

4. Apply a release agent to the reveal strips or wrap each reveal strip with plastic sheeting.
The reveal strips are tapered, but will be very difficult to remove if not sealed or wrapped.
5. Fasten the reveal strips to the stakes with screws as shown below. Make sure that the top surface of the reveal strips will be flush with the new concrete floor surface.

NOTICE

Screws to fasten reveal strips to stakes are not supplied with the flush floor track accessory.



6. Pour the new concrete floor. Make sure that the new floor surface is flush with the top surface of the reveal strip.
7. Remove the reveal strip from the new concrete slab within a day or two.
 - a. Remove the screws that attach the reveal strip to the stakes.
 - b. Attach a lag screw at one end of the reveal strip and pry up the reveal strip carefully.
 - c. Repair any areas of the concrete floor that chip-out and extend beyond the flanges of the flush floor track after removing the reveal strip.

NOTICE

It is important to not apply sealer to the recess left by the reveal strip. A sealer may interfere with the adhesion of the grout.

Flush Floor Track Installation (continued)

Before Installing the Flush Floor Track

1. Move the flush floor track carton to the work area.
2. Open the carton and inventory the contents. Make sure that all of the required items listed on page 2 are present including the hardware items. Discard the packing materials and corrugated carton.

NOTICE

Not all hardware items packed in the carton may be needed. When the assembly is complete, discard any hardware items not used.

Assemble the Full Length Flush Floor Track

The flush floor track accessory carton contains one 8' (2438 mm) flush floor track. The total length of the installed flush floor track specified by the architect may require two or more flush floor tracks. If the total length is not a multiple of 8' (2438 mm) [8', 16', 24' (2438 mm, 4877 mm, 7315 mm) and so on], it will be necessary to cut one flush floor track to achieve the necessary total length. It is best to do this in a shop with a metal-cutting band saw. As an alternative, the flush floor track may be cut in the field using a new carbide-tipped blade in a circular or table saw.

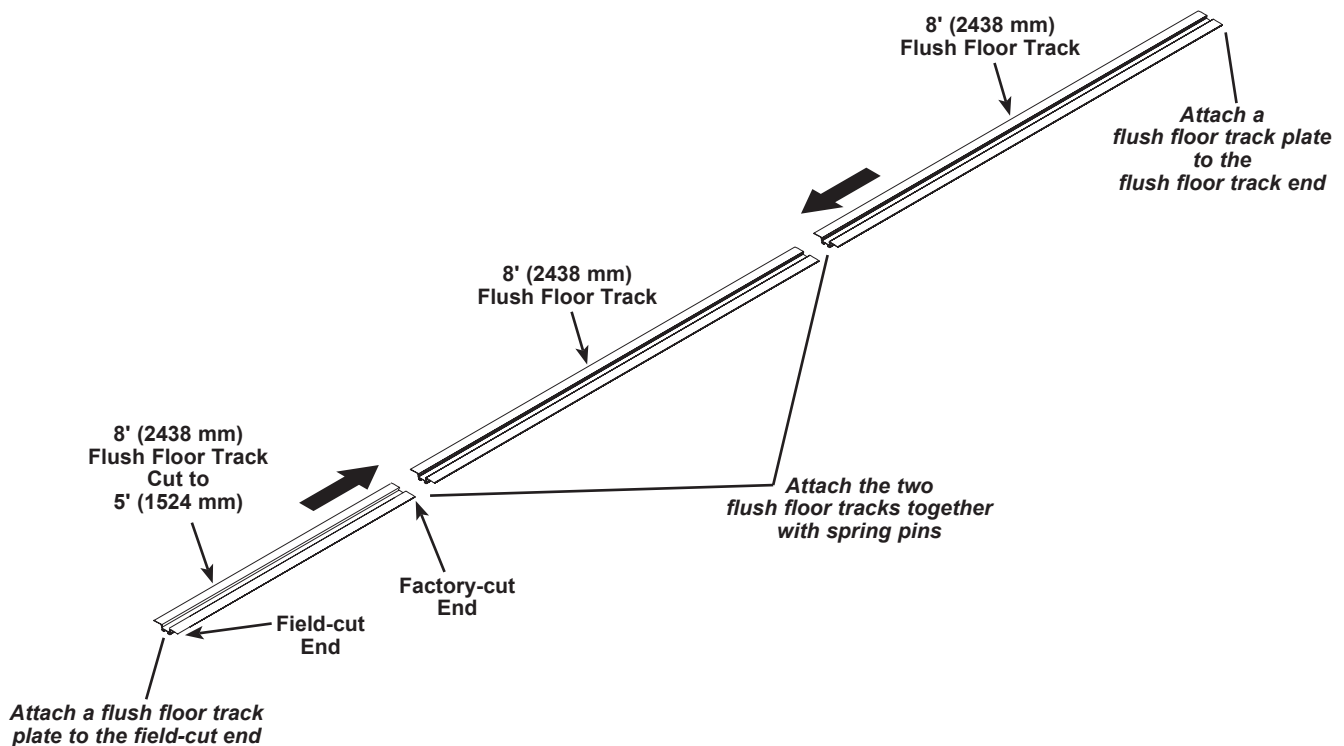
WARNING

Always wear safety glasses and long sleeves when cutting aluminum in the field. Aluminum chips will be sharp and hot.

NOTICE

If the flush floor track is cut in the field, it is important to locate the cut end at the extreme end of the full track assembly rather than at a joint to another flush floor track. Use the factory cut end to join or connect to another flush floor track as shown in the example below.

Example: If the architect specifies a 21' (6401 mm) flush floor track, two 8' (2438 mm) flush floor tracks and one flush floor track cut to 5' (1524 mm) is required. Assemble the total flush floor track as shown.

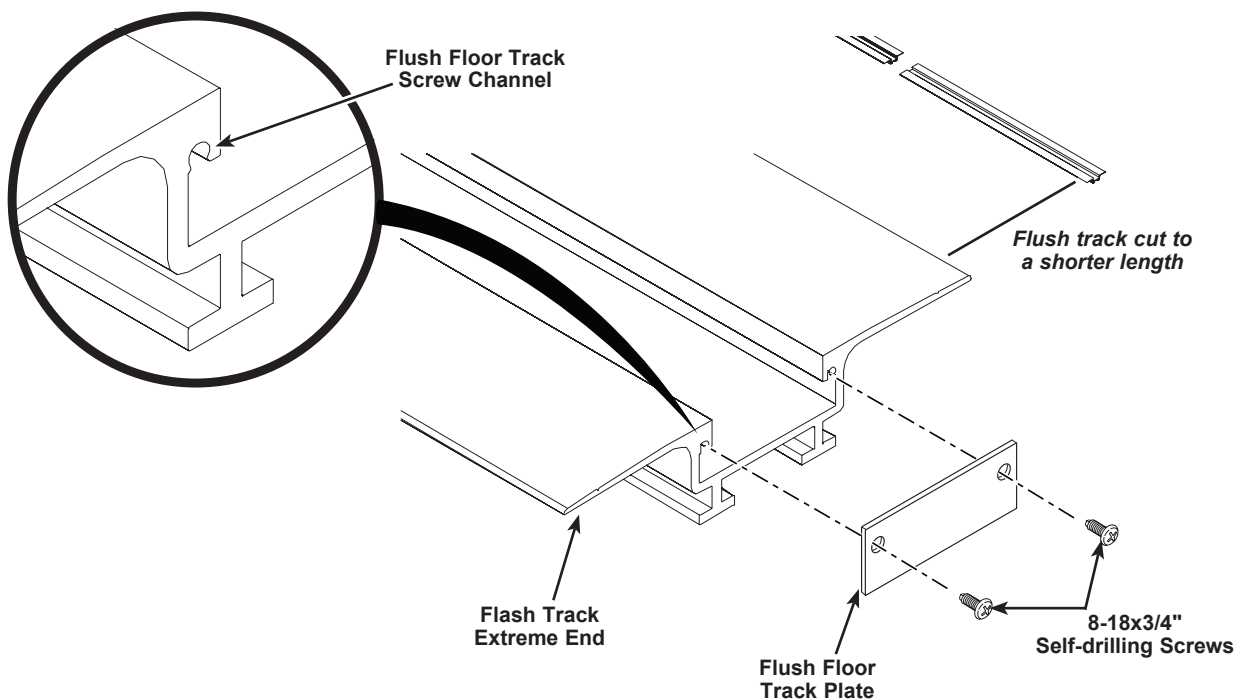


Flush Floor Track Installation (continued)

Assemble the Full Length Flush Floor Track (continued)

Assemble a full length flush floor track assembly after the reveal strip has been removed from the newly poured concrete floor.

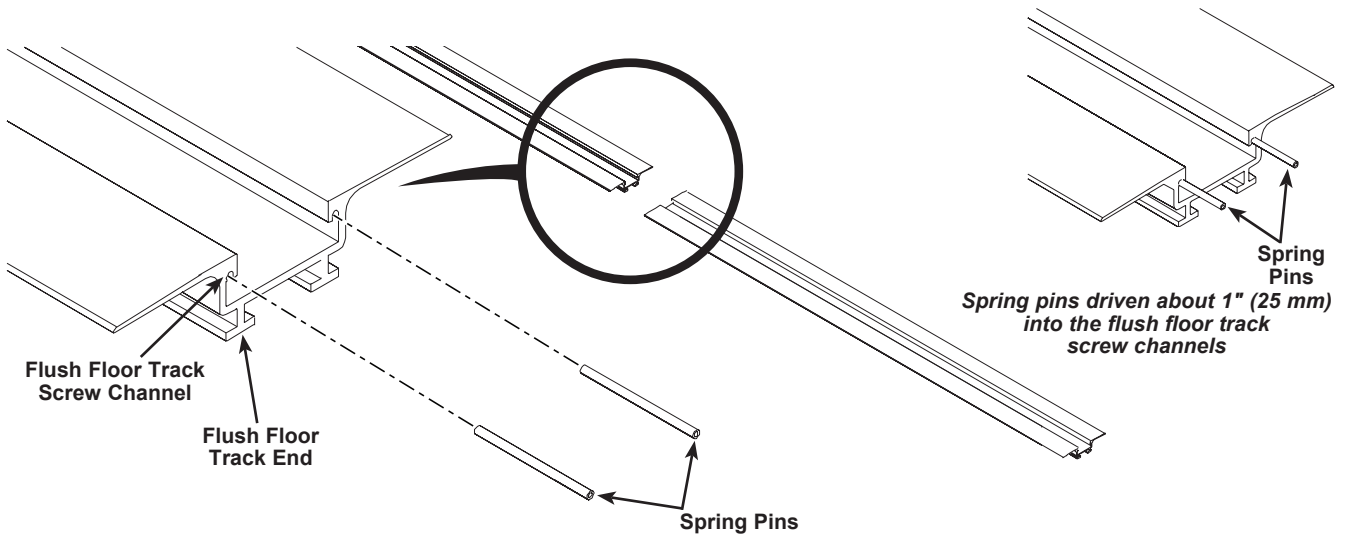
1. Place the flush floor tracks next to the recess in the newly poured concrete floor similar to the example on the previous page.
 - a. If a flush floor track has been cut, make sure that the cut end is at the extreme end of the flush floor track assembly.
 - b. Make sure that the total length of the flush floor track assembly will fit into the recess. The flush floor track assembly should be about 1" (25 mm) shorter than the recess.
2. Assemble the flush floor track plates to the flush floor track extreme ends as shown below.
 - a. Use a cordless drill and a phillips drive bit and attach a flush floor track plate with two 8-18 x 3/4" self-drilling screws to the two flush floor track screw channels.
 - b. Repeat step 2a on the other flush floor track extreme end.



Flush Floor Track Installation (continued)

Assemble the Full Length Flush Floor Track (continued)

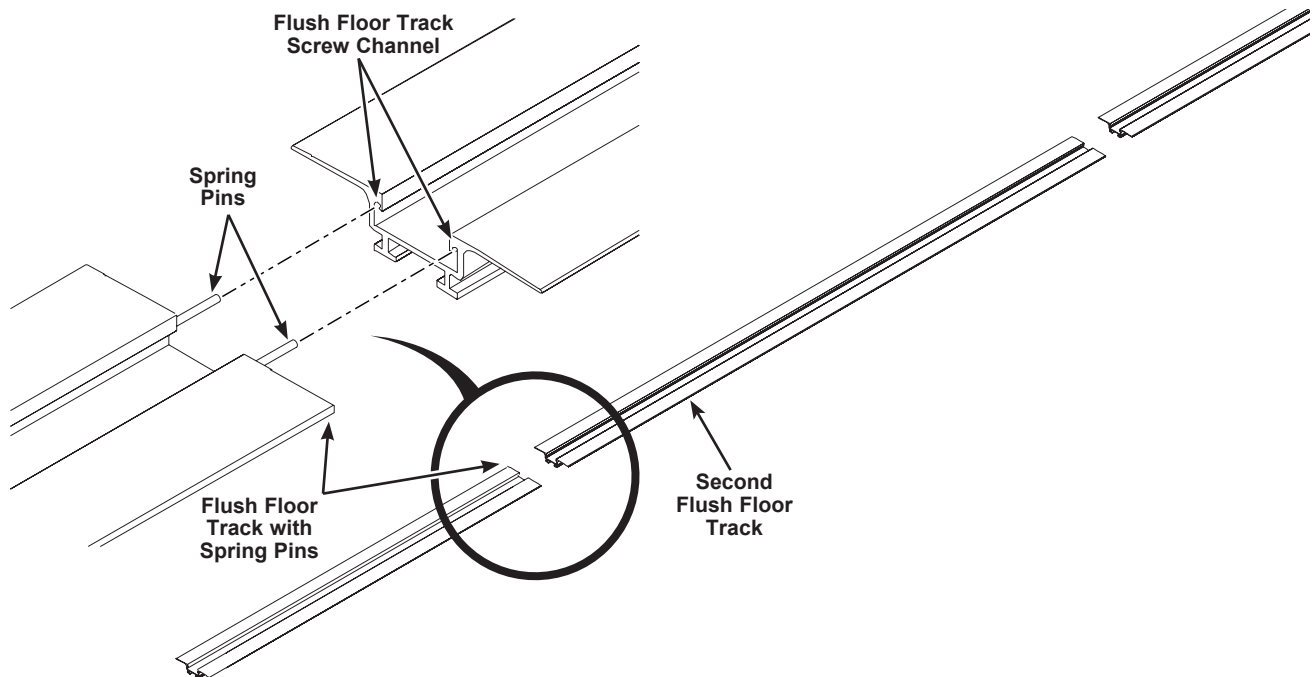
3. Assemble the individual flush floor tracks into a flush floor track assembly.
 - a. Using a mallet, drive two spring pins half way into the two floor track screw channels of a flush floor track end that will be connected to another flush floor track.



- b. Align the flush floor track with spring pins to the flush floor track screw channels of the second flush floor track as shown below.
 - c. Use a mallet and a block of wood and tap the second floor track onto the flush floor track spring pins.

NOTICE

Take care to not bend the spring pins when driving the track onto the pins.



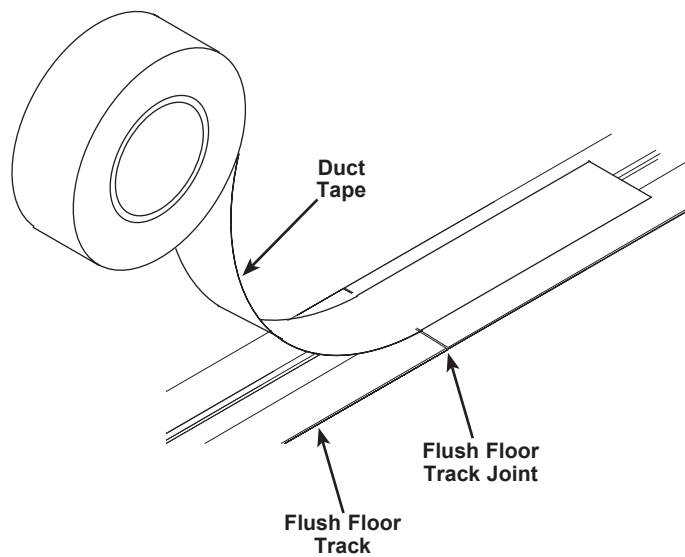
Flush Floor Track Installation (continued)

Assemble the Full Length Flush Floor Track (continued)

4. Connect additional flush floor tracks as required by repeating step 3.
5. Place duct tape (or similar) on the top of the flush floor track assembly at each joint. This will stabilize the flush floor track assembly during installation.

⚠ WARNING

To move a flush floor track assembly with two or more flush floor tracks, two or more people must work together. Failure to observe this Warning can result in misalignment or gaps in the flush floor track assembly.



Flush Floor Track Installation (continued)

Add Grout to the Floor Recess

Grout, poured into the floor recess, must be used to hold the flush floor track assembly in place.

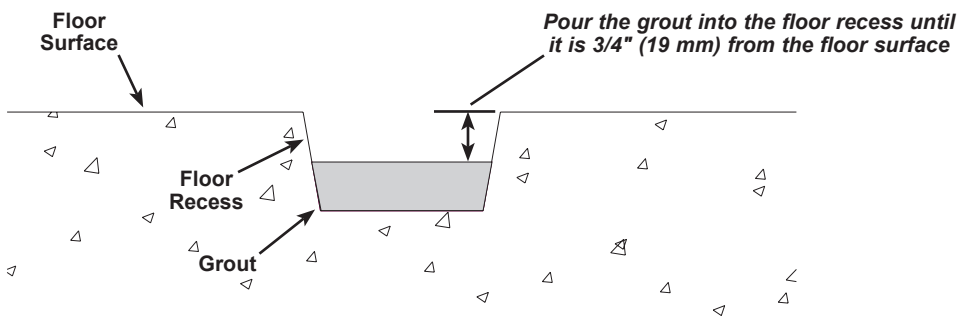
Select a cementitious, high strength (6000 lb/in² (1.74 kg/m² minimum compressive), non-shrink grout. Choose a product used to anchor bolts or rails that can be mixed to a flowable consistency. The right product will meet the Standard Specification ASTM C-1107 (for packaged dry hydraulic cement grout).

Do as follows.

1. Following the manufacturer's instructions, mix the grout to a flowable consistency.
2. Pour the grout into the floor recess until the grout upper surface is 3/4" (19 mm) from the concrete floor surface as shown below.

NOTICE

***Pouring too little grout into the floor recess will not secure the flush floor track assembly.
Pouring too much grout into the floor recess will result in a squeeze-out of grout onto the floor surface.***



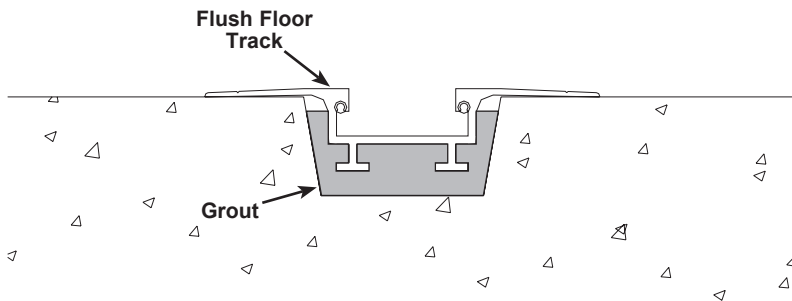
Place The Flush Floor Track Into The Floor Recess

Install the Flush Floor Track as follows.

1. With two or more people working together, place the flush floor track assembly into the center of the floor recess.
2. Press the flush floor track assembly gently into the grout mixture until the flanges are in contact with the floor surface.

Place weights on the flush floor track assembly (sand bags work well) while the grout sets (24 hours Min).

After grout is set, remove weights and tape. Clean the flush floor track assembly with a mild detergent.



WARNING

Do not place or operate GearBoss high-density storage system carts on the flush floor track assembly until the grout has reached 50% of its full strength (usually three-days). Failure to observe this warning can result in a loose track assembly that must be replaced.

Replacement Parts

Item	Description
1	Flush Floor Track
2	8-18 x 3/4" Self-drilling Screw
3	Flush Floor Track Plate
4	1/8" x 2" Spring Pin (3 mm x 51 mm)

