Assembly, Installation and Operating Instructions for: CSA-2.5 Internal — Fold-Tite Inside Slider Door System With Concealed Stay Rollers Bottom Guide System

This door is built for:

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CSA-2.5 / 5.0 IS Multiple Narrow Panel Inside Slide Door-Revision 11/2019

Assembly and Installation Instructions

Contact Fold Tite Systems at 1-518-852-3767 or
518-664-2100 fax 518-691-8347 Sales@foldtite.com www.foldtite.com
26B Viall Ave, Mechanicville, NY 12118, PO BOX 2283. Malta, NY 12020

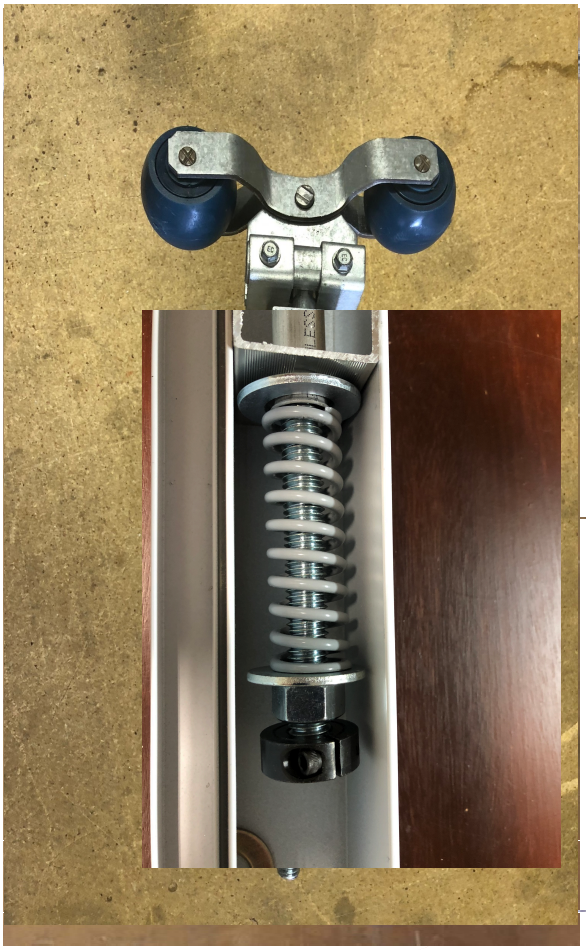
1. **Open** all structural component and hardware **boxes** and compare with itemized packing list. Note: Structural components and hardware may arrive in separate shipments.
2. Install Top Track per Print
3. The Combo track has the brackets welded to the track.
4. Splice collars are required at each joint.
6. **Install Radius Corner Track** Part #113000 first, then end wall track. The mount brackets are welded to the radius corner track and a structural support is required at the center of the radi-us. For enough room for the trolley hardware, the bottom of the track must be 1.0" above the bottom of the header.

7. **It is critical to have the Radius corner track and side wall track completely level with the track in the opening, The track must also be plumb and can't flex up – down – in or out.**
8. **End wall and side wall track** is 12' and 10'. Other lengths may be supplied for special applica-tions.

9. **Four section** of track are supplied with modified ends will install into the radius section.
10. **With the top track installed—install the door panels.** Door panels are pre-assembled and sheeted and numbered. See print for numbers.
11. **The trolley** is installed in the door but not adjust-ed. . Slide trolley into track and clamp panel sets to-gether. Position door panels along the sidewall under the track and support the other end of the door with a block of wood. The door panels are numbered and shown on the instruction print. The two center panels have two trolleys and all the rest of the panels have

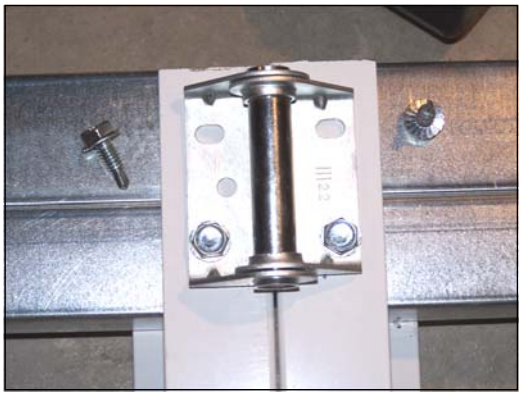
one. A Hinged Starter Panel if supplied will not have a trolley. Install per the numbered sequence. This door has the a Center Hinged Starter Panel L-6. See print.

1. **Trolley components,** Each trolley is assembled in the door but for your information, they have a number of components that work together to make the door slide smoothly. There is a flared tube inside the top rail, a trolley support washer under the top girt that is sized to allow the faired tube to fit inside, a compression spring, another washer, a nut and split threaded shaft collar. The carrage bolt pendant for the trolley is inserted into a saddle and clip tek srewed to hold. Trolleys are not height adjusted at the plant and must be adjusted for height after hanging the door panels on the track and attaching the hinges. Adjust the height using the nut then rotate the split shaft collar up to the nut and tighten the set screw. Jam the nut down onto the collar.



13. **Clamp** the door panels together. Use a 1/16" spacer when clamping. A foam seal will be installed later to close this gap.
14. **Install the rear hinges**, one at each horizontal girt using 1/4" x 20 Seriated head tex screw. **Top two screws behind the trolley must be changed to shorter screws! 1/4x20-1/2" phillips head screws are supplied for this location.**
15. **Plumb door** panels and secure in Plumb position. Adjusting the trolley nuts will raise or lower the height of the door and are adjusted to plumb the door. Each trolley has a compression spring and after adjusting the height of the door by adjusting the trolley nuts, the door must float on the trolley springs. Each spring should be compressed similarly but may not be the exactly same.

New All aluminum hinge now supplied!



17. After the door height is adjusted to be 1" below the header, add a jamb nut to each trolley and tighten securely. If this nut is not there, the trolley adjustment will change and a loose trolley will cause the door operations to bind.

18. **Install the bottom seal** Standard Part #500905 Vinyl or #500904 optional brush seal cut to panel width is inserted into the weather strip groove built into the aluminum bottom rail. Optionally a double seal may be installed in the rear of the bottom rail. The vinyl seal may be installed uncut in the rear weather strip grove but allowance must be made between the panels for hinging. The bottom rail is drilled for a set screw to secure the weather strip in place. Install the set screw after the seal is installed.

19. **1" brush top seal** and aluminum holder are supplied and install on the bottom of the header facing down and in towards the top of the door.
20. **A overhead door stop** is supplied for each side of the door. This is installed on the column and the soft wipe section presses against the door face.
21. **Two astragals** are supplied with small tek screws. This is attached to opposite verticals at the center of the opening. Install to allow Hinged Starter panel to open.
22. The hinged Starter panel is supplied with one top lock and bottom lock pins. A metal strike is supplied for the top lock pin and a suitable structure will need to be added to attach this strike on to. The floor will have to be drilled for the bottom lock pins. Each Adjacent panel to the HS will also have a bottom lock and need a hole drilled in the floor.
23. **Concealed Stay Rollers** are supplied for the bottom of the door and must be positioned centered in the bottom rail of the door. One per each panel is supplied except the hinge starter panel. Two additional CSR's are supplied for each side wall.
24. **A door stop** is supplied for each side wall to stop the door from going to far.
25. **Sheeting** After the CSR's are installed, install the sheeting. If the sheeting is installed prior the CSR's, secure the door bottom by other means.
26. A **door hold back** is supplied for the hinged starter panel to clamp and hold it to the sliding panel that it is attached to. Install at the second girt up.

Trouble Shooting

1. Door movement hangs up or does not roll smoothly.
    a. Confirm that the track is level, plumb and has no movement up, down, in or out..
    b. Confirm that all trolleys are equally adjusted and have compression springs partially compressed.
    c. **Confirm that each trolley has a double nut and the second nut is jammed against the first nut.**
    d. Check each joint between track sections for miss alignment of the adjacent track sections and check splice collar alignment. If there is misalignment, adjust the track or if necessary, grind any track or splice collar corners causing problems. If necessary, tack weld the track joints.
2. Gap uneven at center between operating sections.
    a. All trolleys will have to be adjusted. If gap is larger at top than bottom, raise outboard trolleys and lower center trolleys
    b. If gap is larger at bottom, raise center trolleys and lower outboard trolleys.

Door Maintenance

1. Check hinge mount tek screw for security occasionally. Retighten if found loose.
2. Check trolley height adjustment occasionally. Each Trolley must be adjusted to partially compress the compression spring. If any one or more trolleys become loose, they will bind and make the door hard to open.
3. The trolley and bottom rollers do not need lubrication and longer life is developed by not lubricating either. Dirt will be attracted to each with lubrication.
4. Check the security of the lock system occasionally .

Door Operation

1. Unlatch the Hinged Starter Panel lock and rotate this panel about 90*. Unlatch the bottom lock on the next panel and fold the Hinged Starter Panel over the second panel to clamp the panels together. A clamp is positioned and installed for this.
2. With the CSR's it will be easiest to push from the center allowing the door panels to slide around the corner but the location that makes the door open the easiest may have to be experimented with to determine. Try standing in the corner and walk each panel around the corner. I is also possible to open the door by pulling from each side.
3. Repeat on the other side.
4. To close the door, reverse this operation.

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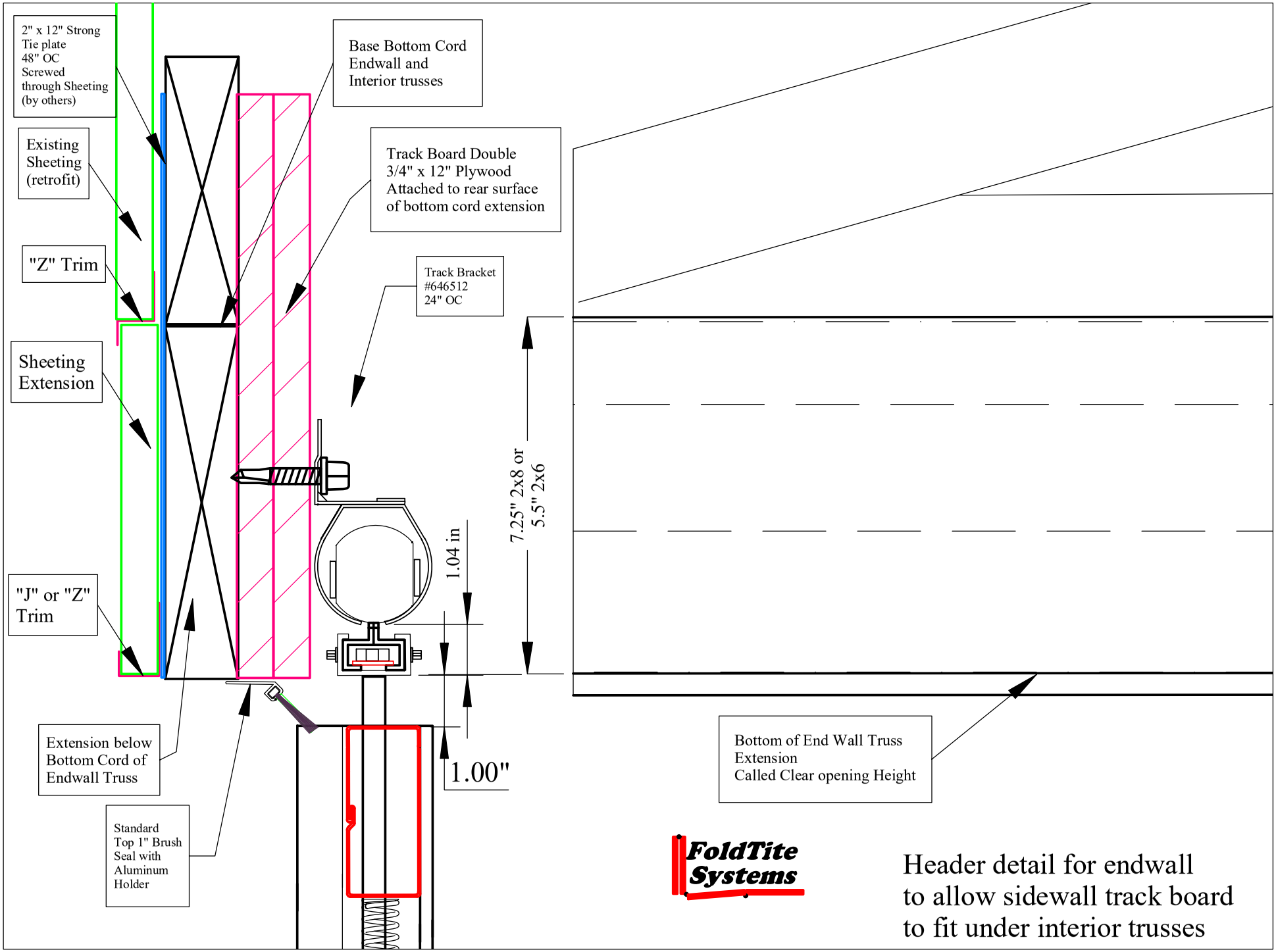
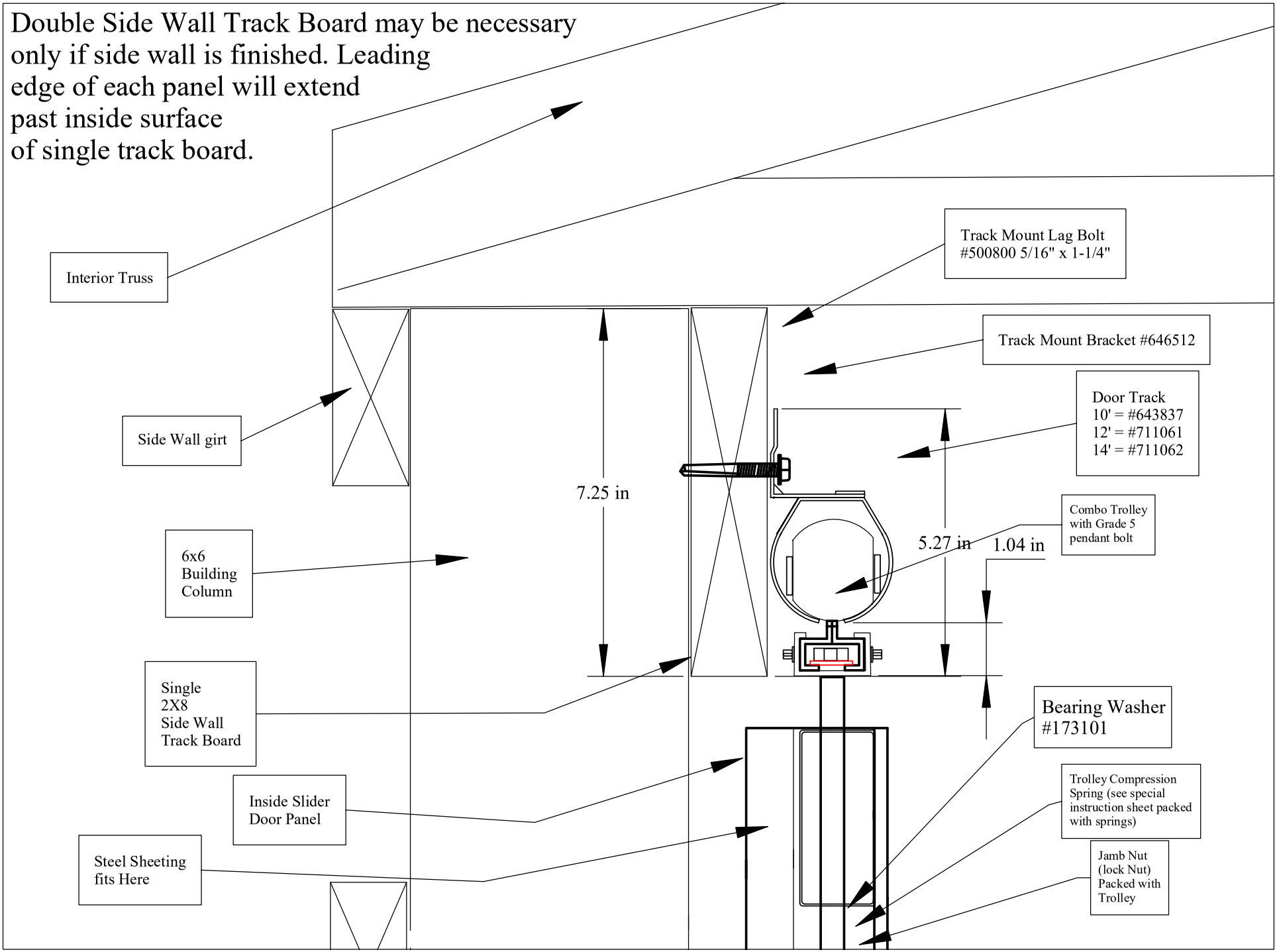
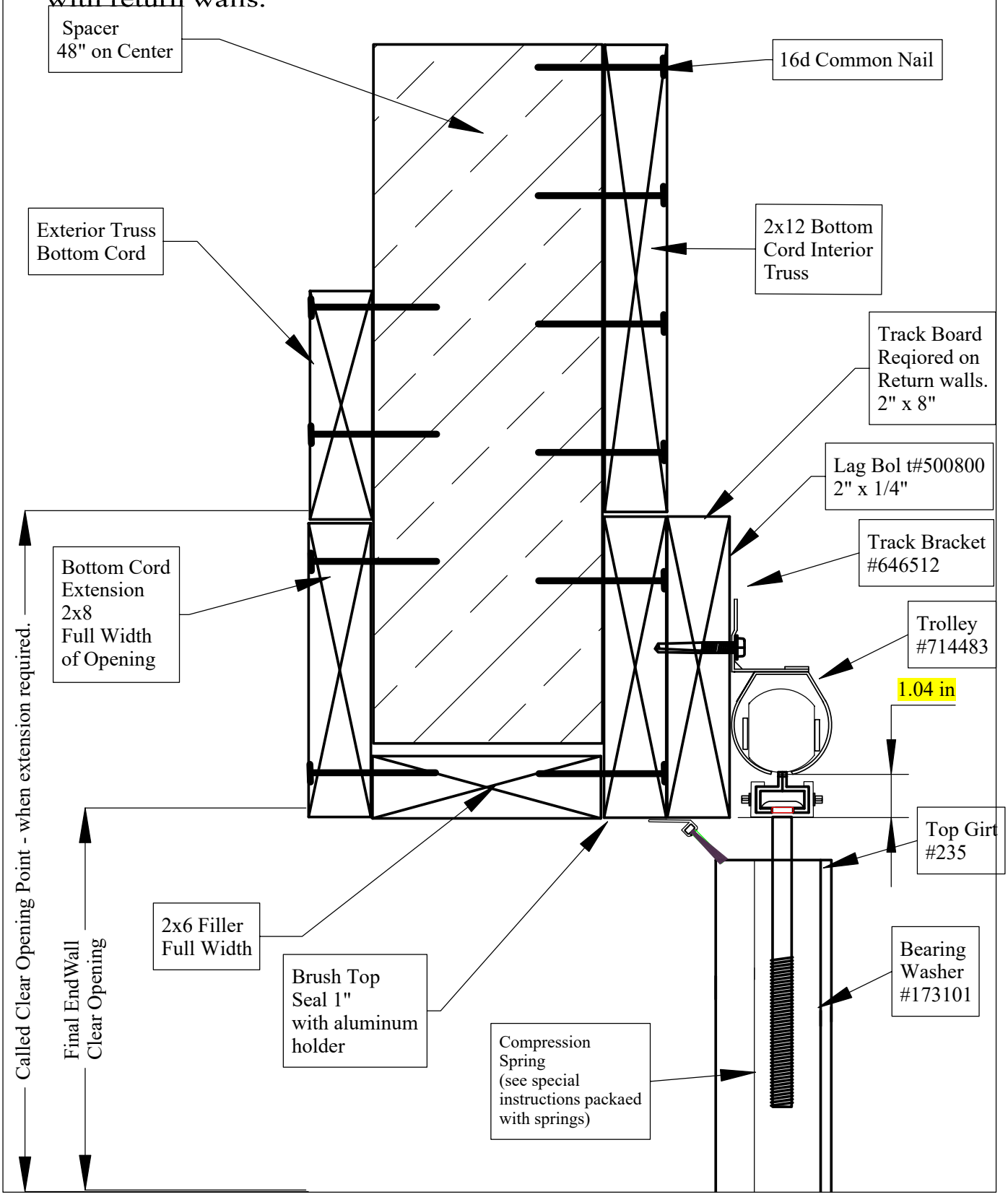
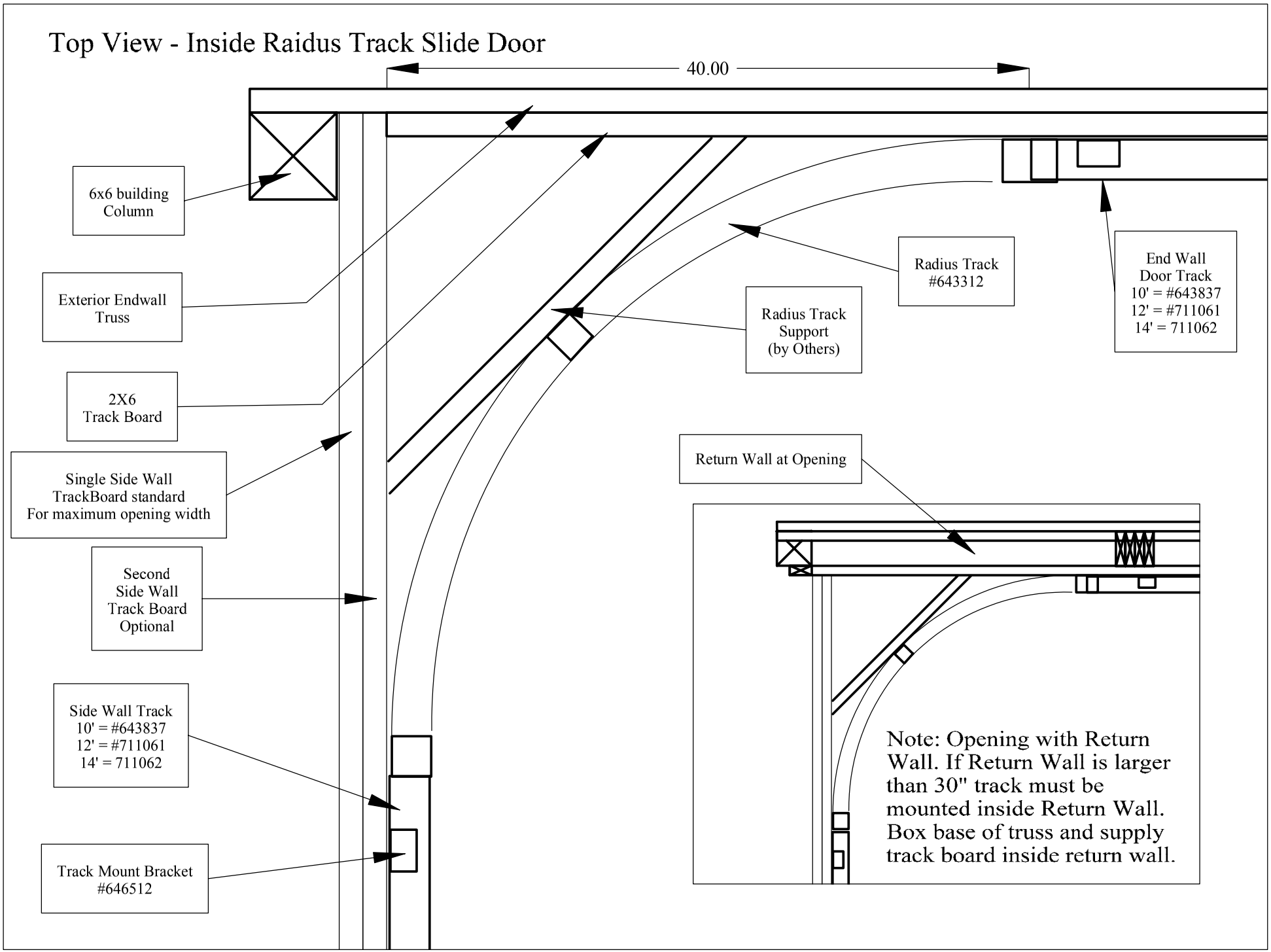

2" x 12" Strong Tie plate 48" OC Screwed through Sheeting (by others)
Base Bottom Cord Endwall and Interior trusses
Existing Sheeting (retrofit)
Track Board Double 3/4" x 12" Plywood Attached to rear surface of bottom cord extension
"Z" Trim
Track Bracket #646512 24" OC
Sheeting Extension
7.25" 2x8 or 5.5" 2x6
1.04 in
"J" or "Z" Trim
Extension below Bottom Cord of Endwall Truss
1.00"
Bottom of End Wall Truss Extension Called Clear opening Height
Standard Top 1" Brush Seal with Aluminum Holder
FoldTite Systems
Header detail for endwall to allow sidewall track board to fit under interior trusses


Double Side Wall Track Board may be necessary only if side wall is finished. Leading edge of each panel will extend past inside surface of single track board.
Interior Truss
Track Mount Lag Bolt #500800 5/16" x 1-1/4"
Track Mount Bracket #646512
Door Track 10' = #643837 12' = #711061 14' = #711062
Side Wall girt
7.25 in
5.27 in
1.04 in
Combo Trolley with Grade 5 pendant bolt
6x6 Building Column
Single 2X8 Side Wall Track Board
Bearing Washer #173101
Inside Slider Door Panel
Trolley Compression Spring (see special instruction sheet packed with springs)
Steel Sheeting fits Here
Jamb Nut (lock Nut) Packed with Trolley

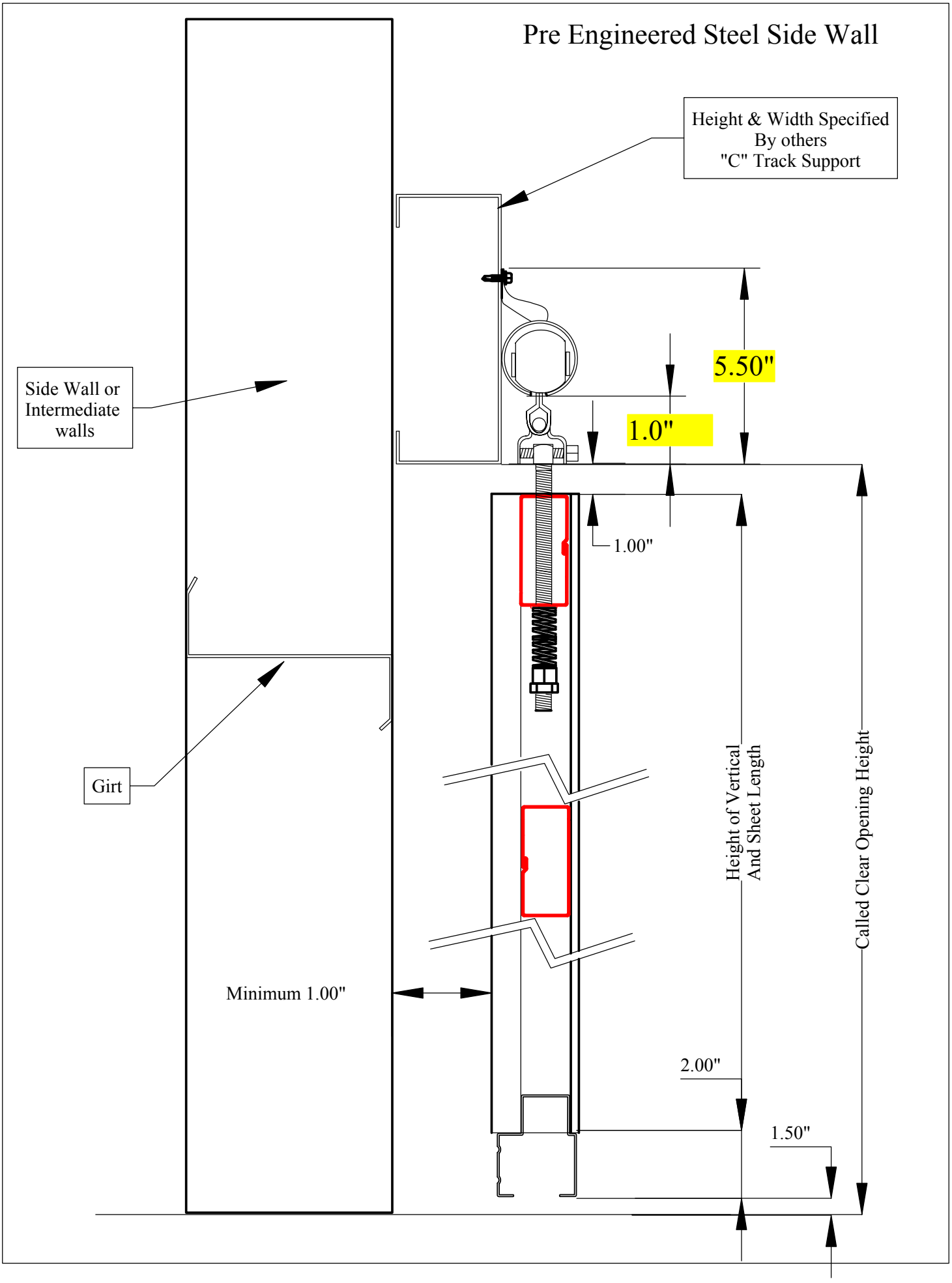
Boxed End Wall Header
5-1/2" minimumextension
required with all trusses at
opening height, End Wall
track board required
with return walls.



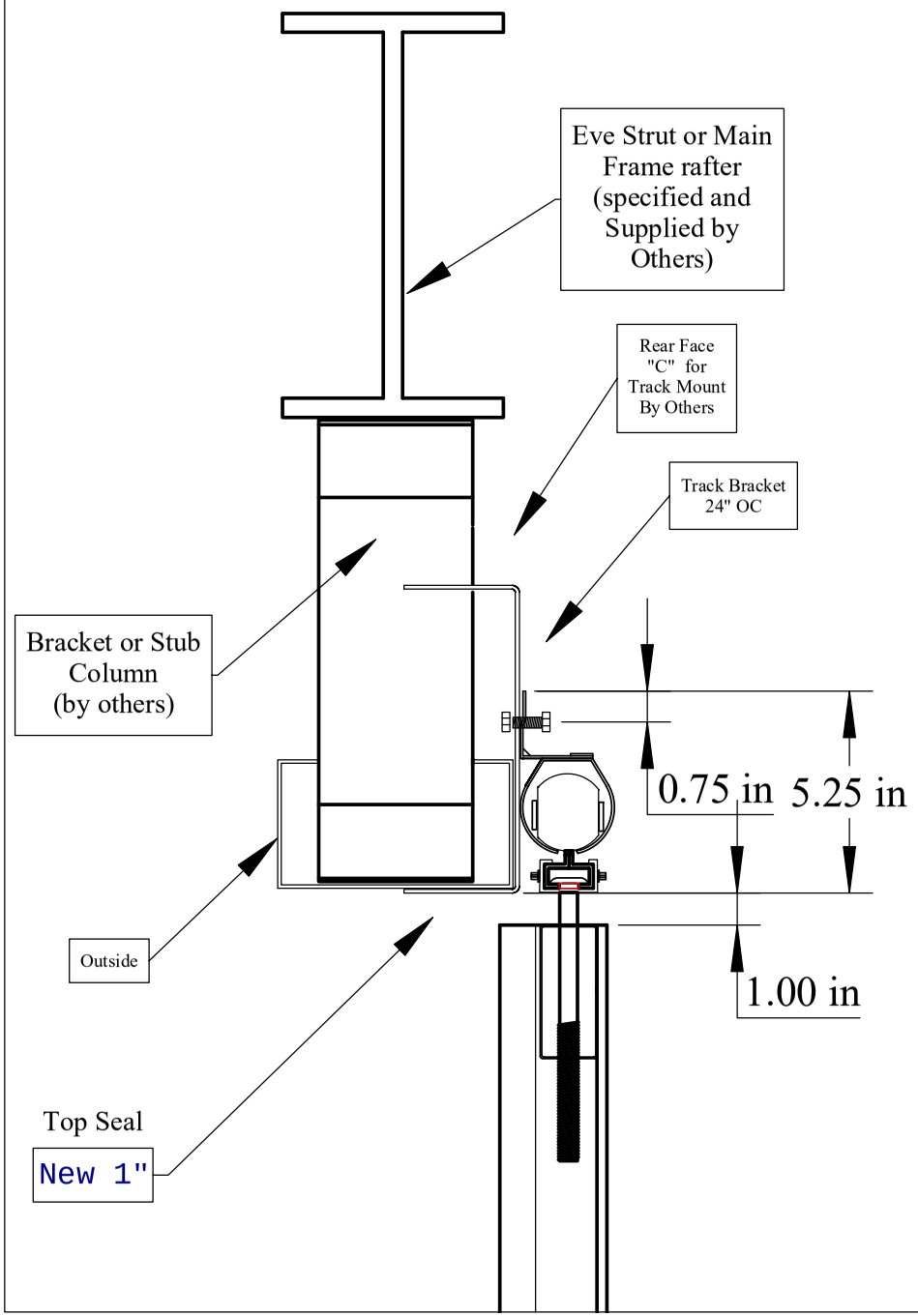
Top View - Inside Raidus Track Slide Door

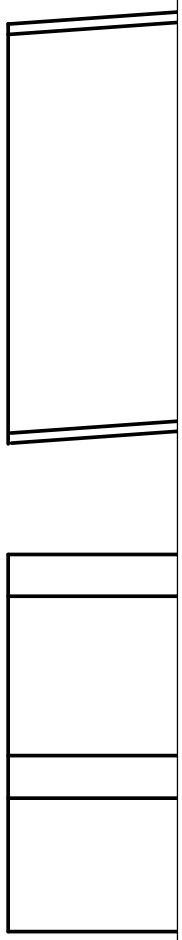


Pre Engineered Steel Side Wall

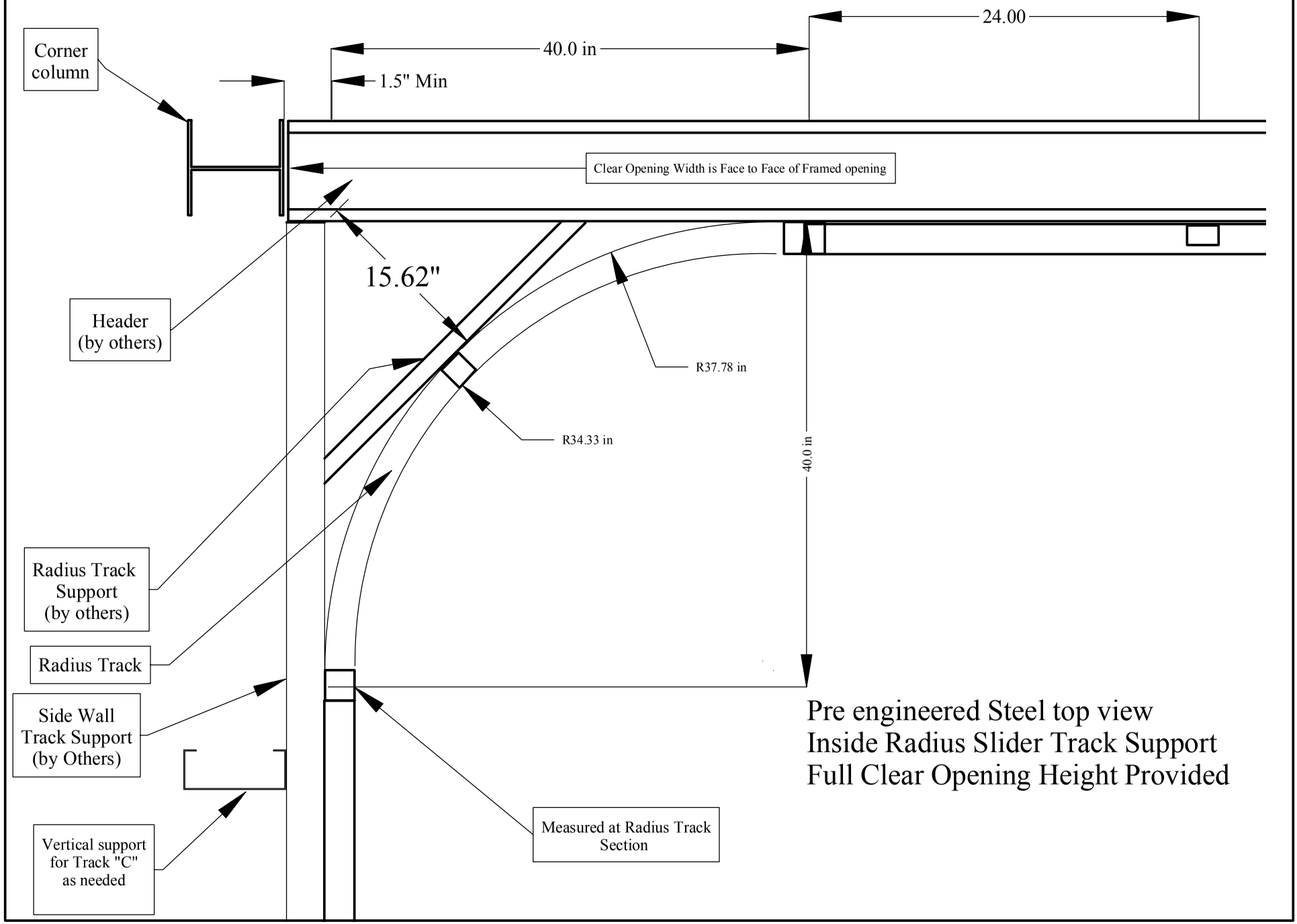


Pre engineered Steel building
Door opening





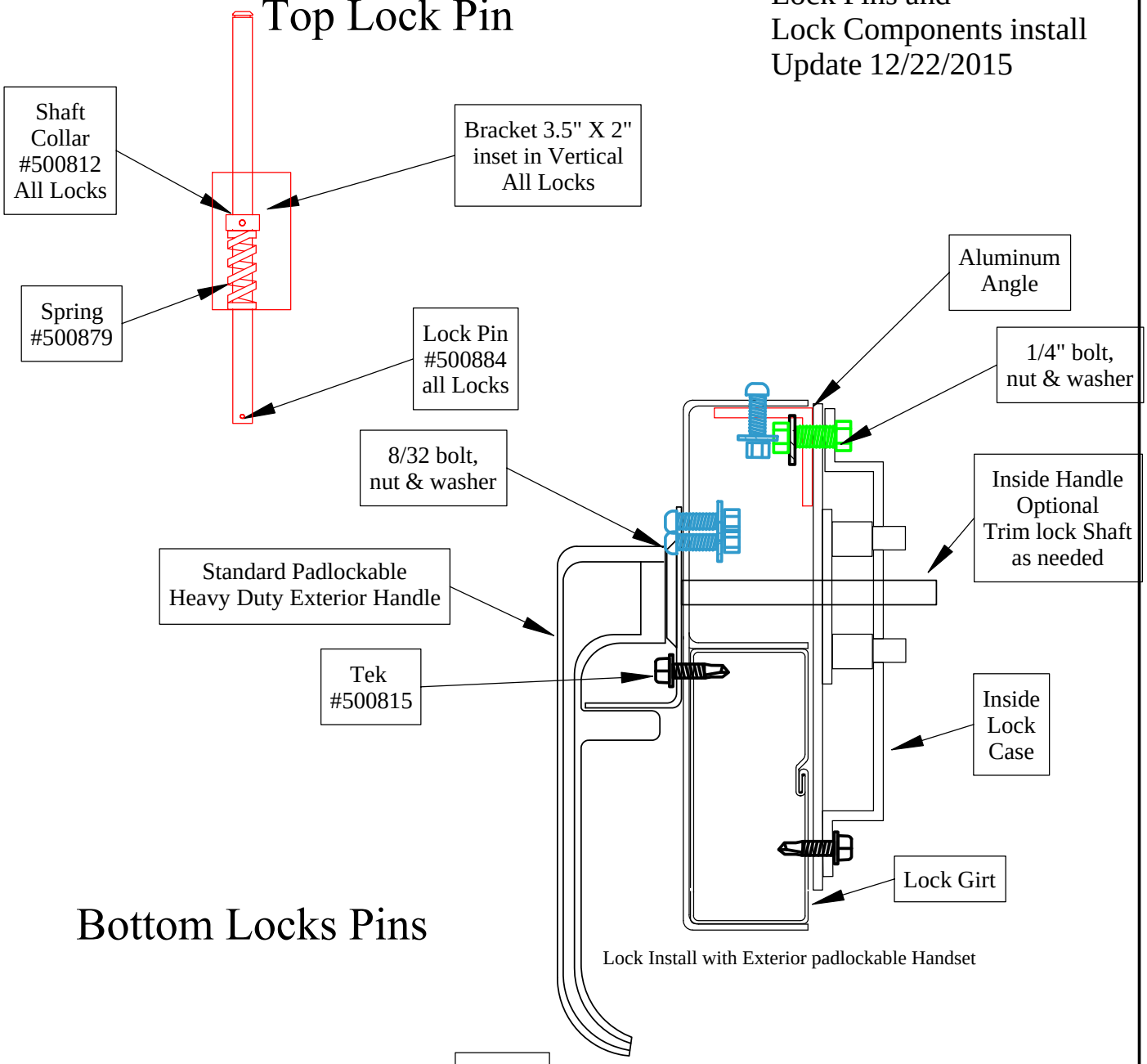
Inside Slider with Track Mounted on inside rear surface of Header



Pre engineered Steel top view
Inside Radius Slider Track Support
Full Clear Opening Height Provided

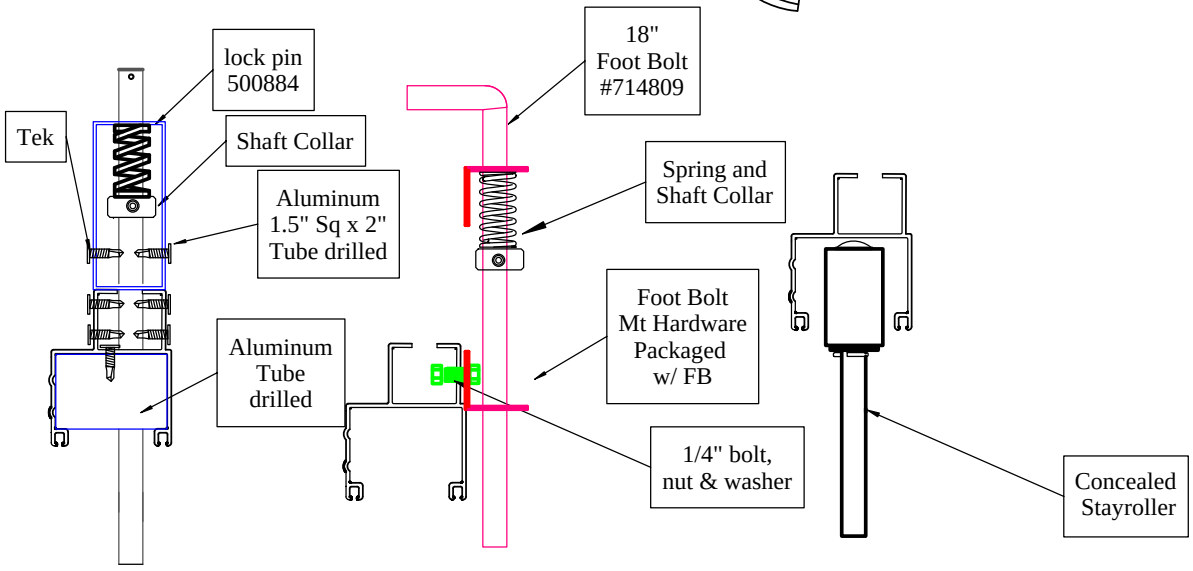
Top Lock Pin

Lock Pins and
Lock Components install
Update 12/22/2015



Lock Install with Exterior padlockable Handset

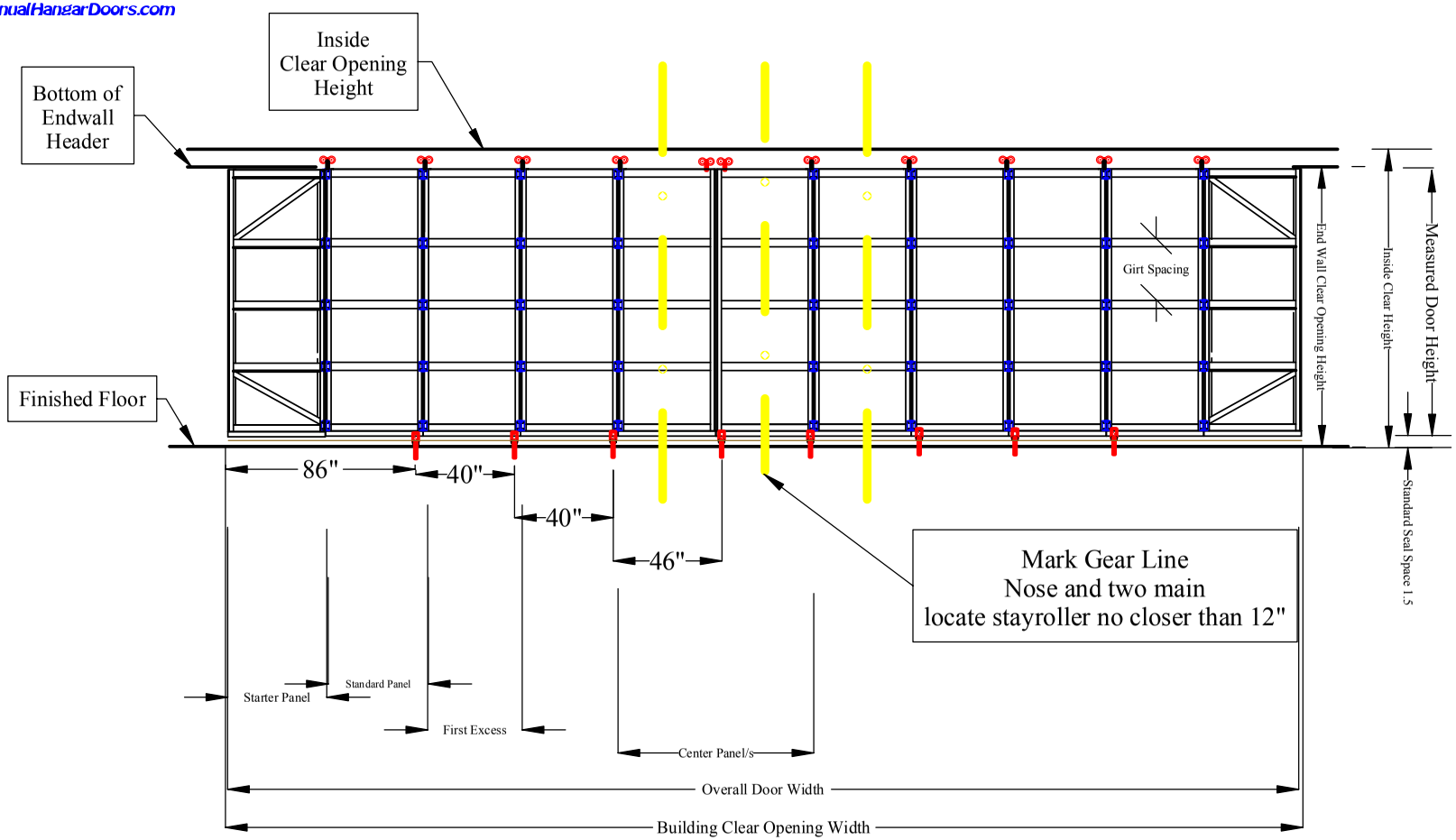
Bottom Locks Pins



Manufactured under
License by Cannon Ball : HNP For

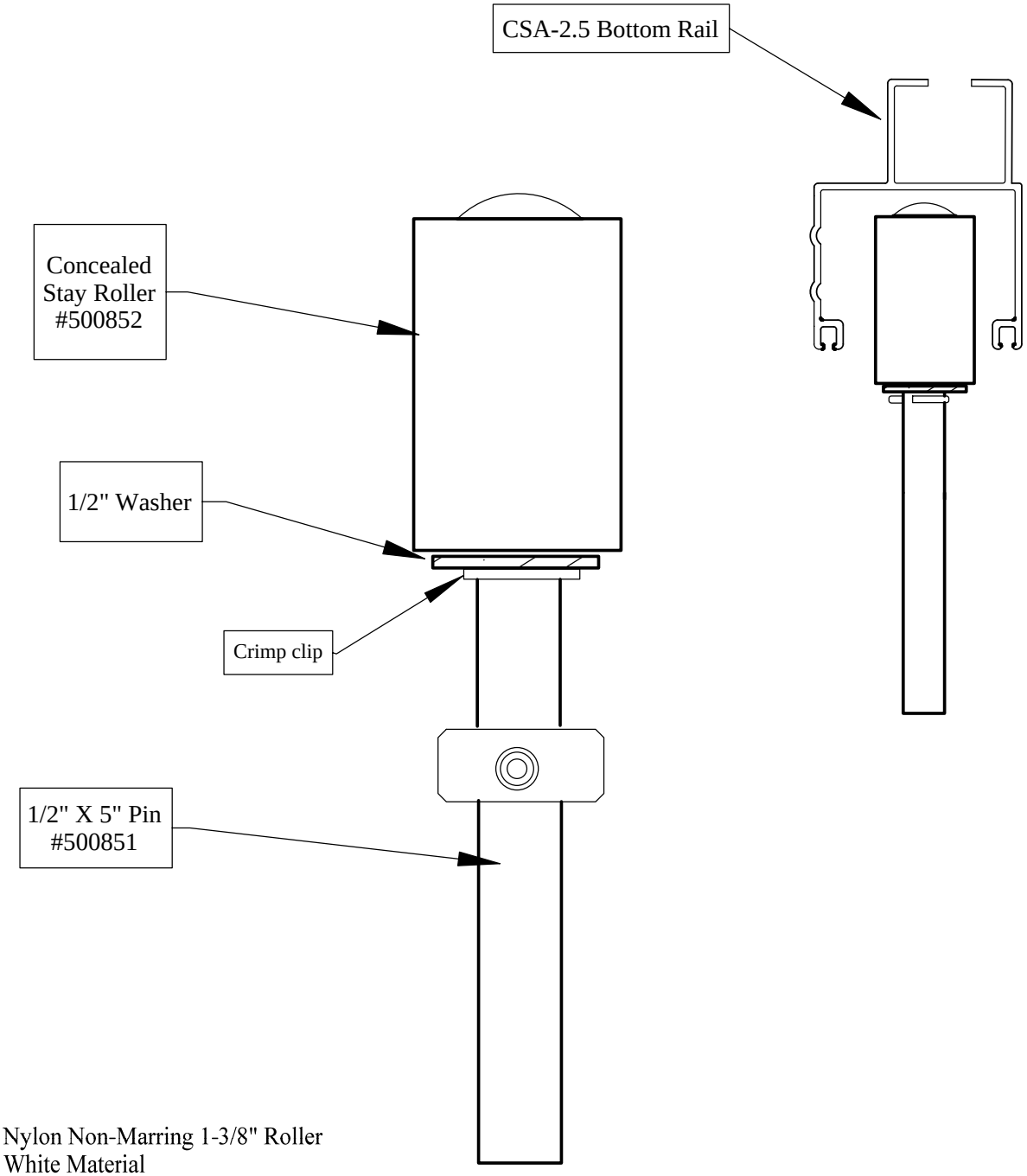
Doors
www.ManualHangarDoors.com

Check Actual System for Panel and Girt Quantity
Print Shows 11 Panel - 4 Girt Plus Bottom Rail
Two way operation



Cool-Air, Inc	Multiple Panel Inside Slider
Actual System Plus Bottom Rail	Consealed Stayroller Location
Door System CSA-2.5+	Jack Cooper

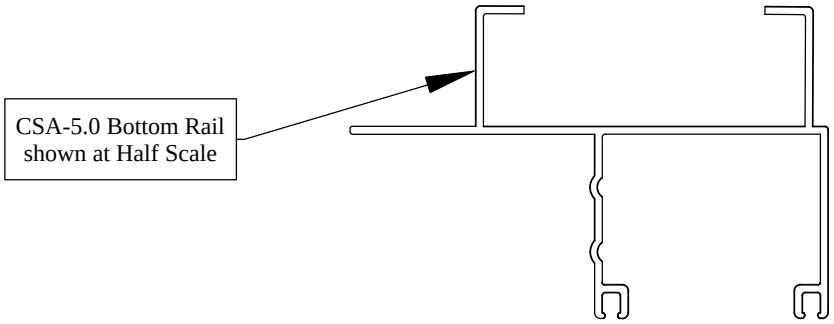
Concealed Stay Roller

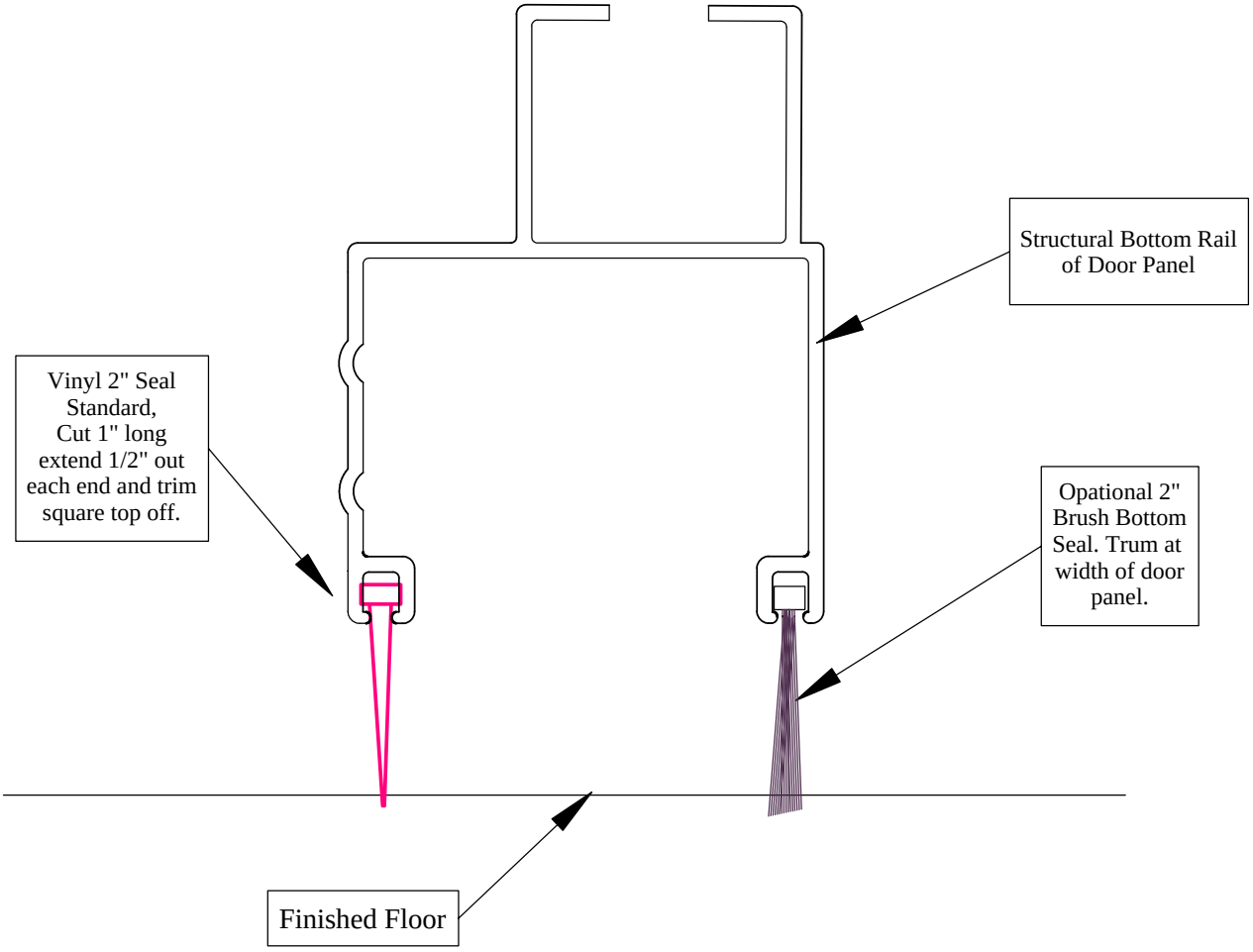


Nylon Non-Marring 1-3/8" Roller
White Material
1/2" X 5" Mounting Pin
Adjustable Height with Shaft Collar
Requires 2-1/2 " deep receptical in Floor

Standard supply is ONE per panel less Starter panel
Plus Two for securing the open door on the side wall

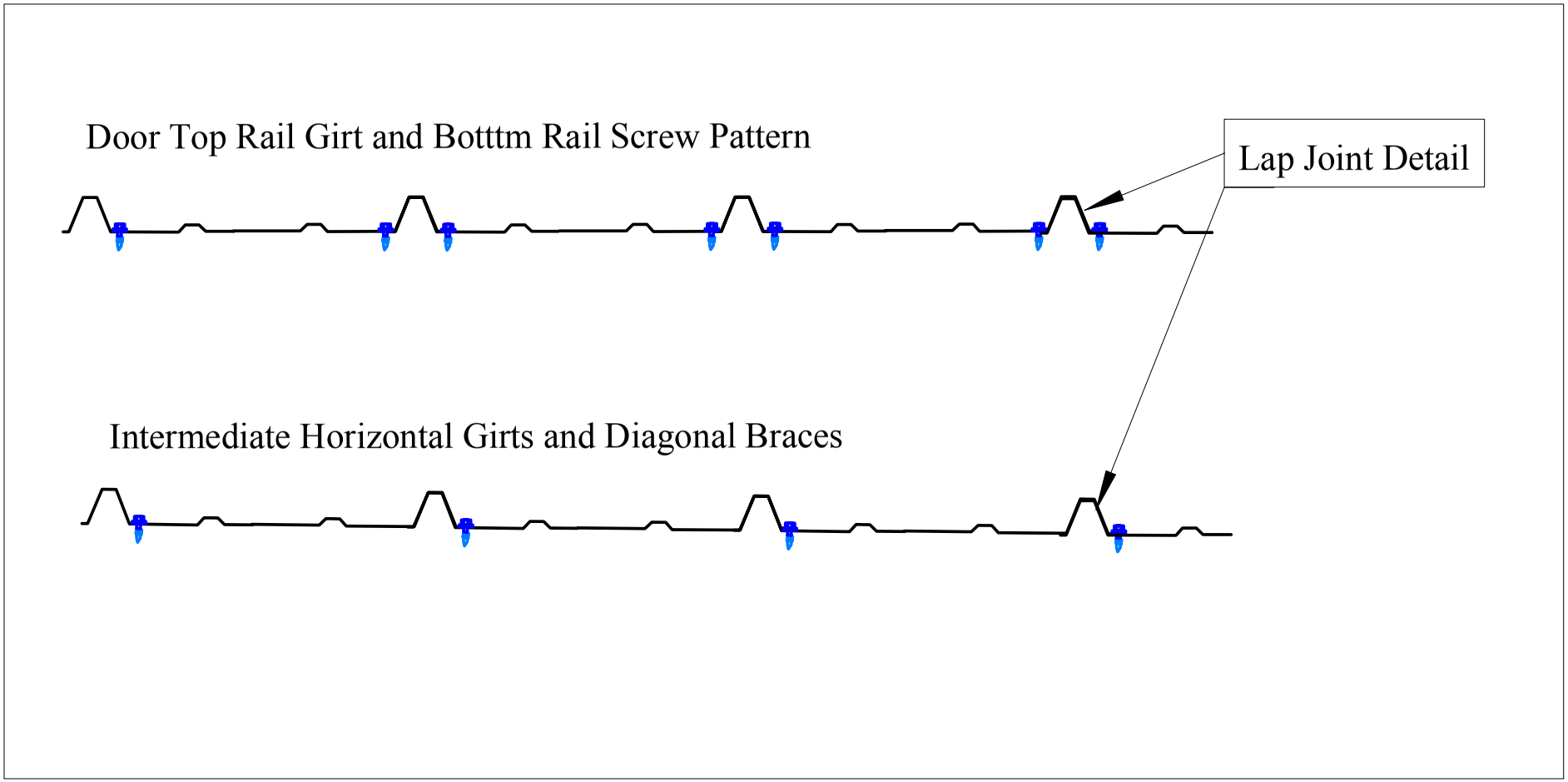
Cool-Air, Inc	Concealed Stayroller
CSA-2.5	
02/25/2015	D. Coolman



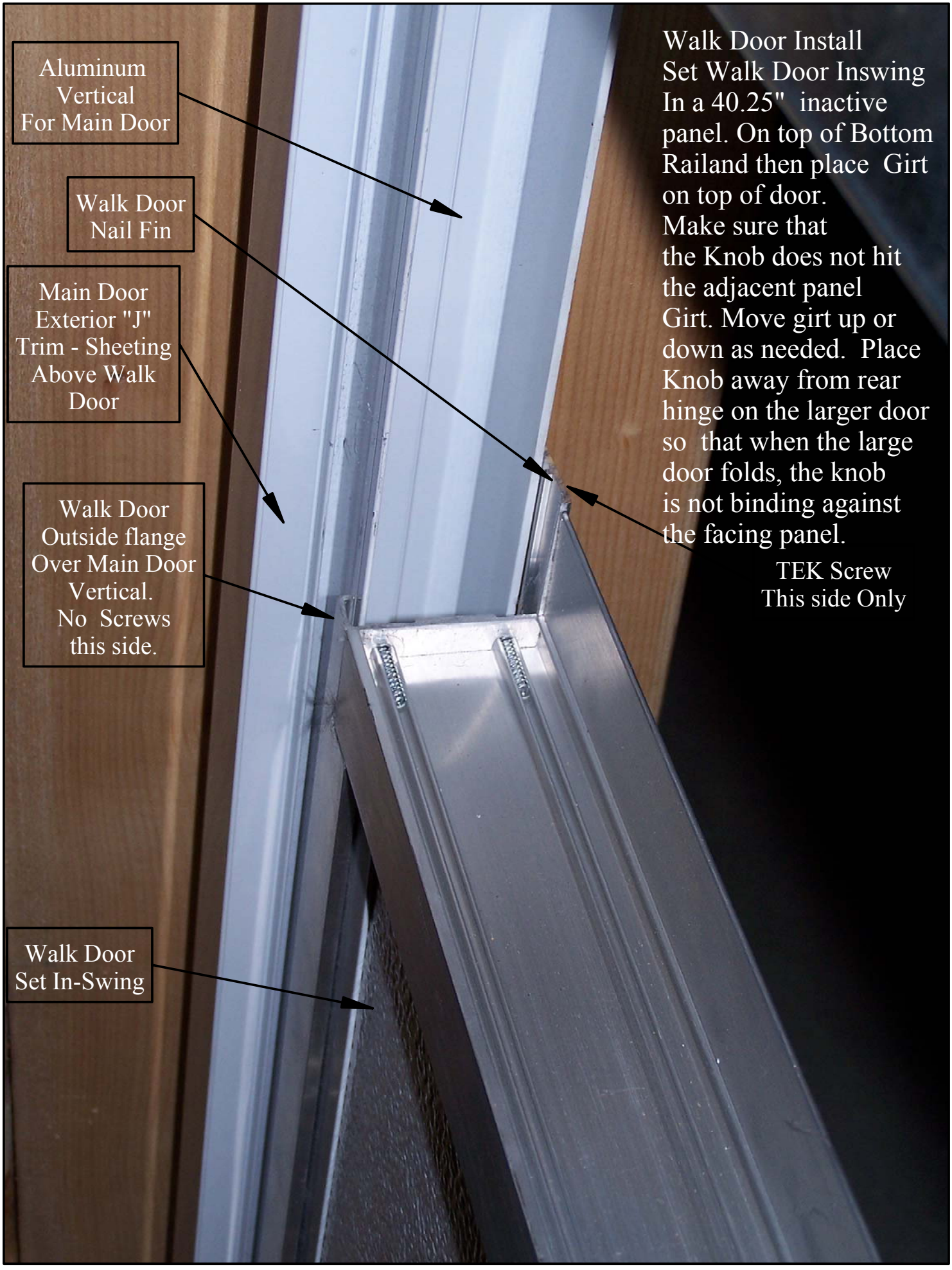


Standard Seal Space is 1.5". Seal should rub on floor.

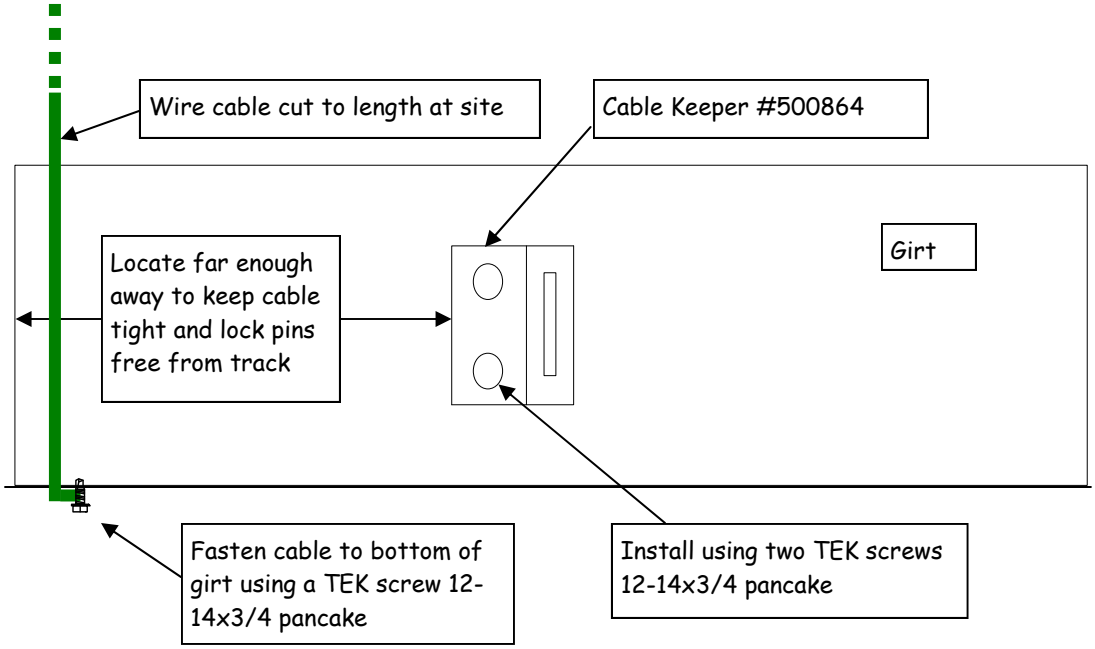
Cool-Air, Inc	Bottom Rail Seals
CAS-2.5 CSA-5.0	
04/10/2014	D. Coolman



Steel Panel Screw Pattern Recomendations.
The top horizontal rail and the bottom rail will have one screw at each side of each major rib.
The remaining horizontal girts and diagonal braces will need one screw at one side of each major rib.
For other configurations of steel sheeting and other types of sheeting, follow the manufactures recommendations but use at least 80 to 100 screws per square of sheeting.

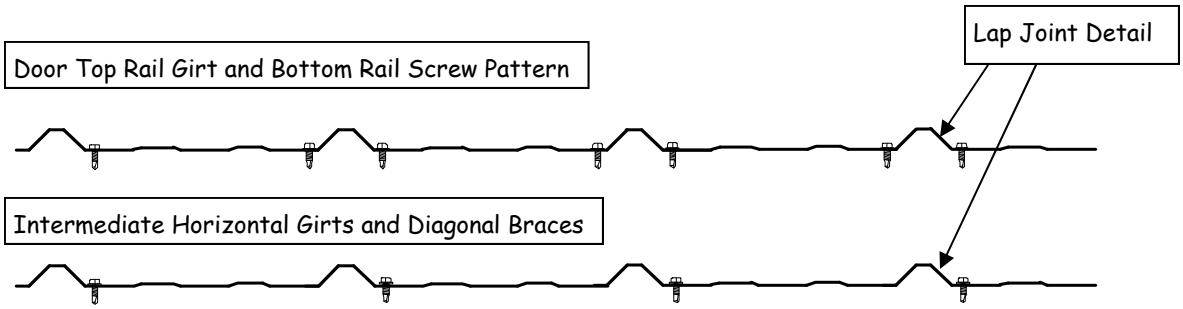

Aluminum Vertical For Main Door
Walk Door Nail Fin
Main Door Exterior "J" Trim - Sheeting Above Walk Door
Walk Door Outside flange Over Main Door Vertical. No Screws this side.
Walk Door Set In-Swing
Walk Door Install
Set Walk Door Inswing In a 40.25" inactive panel. On top of Bottom Railand then place Girt on top of door.
Make sure that the Knob does not hit the adjacent panel Girt. Move girt up or down as needed. Place Knob away from rear hinge on the larger door so that when the large door folds, the knob is not binding against the facing panel.
TEK Screw This side Only

9.0 Installation of the Cable Keeper — All of the lock pins on the panels without the latch system can be operated from the interior just by pulling the cable and hooking it on the cable keeper. The Keeper, #500864, is installed at a comfortable working height to hold the cable and keep the lock retracted as the door is opened. This keeper is TEK screwed to the girt about 5" away from the cable.

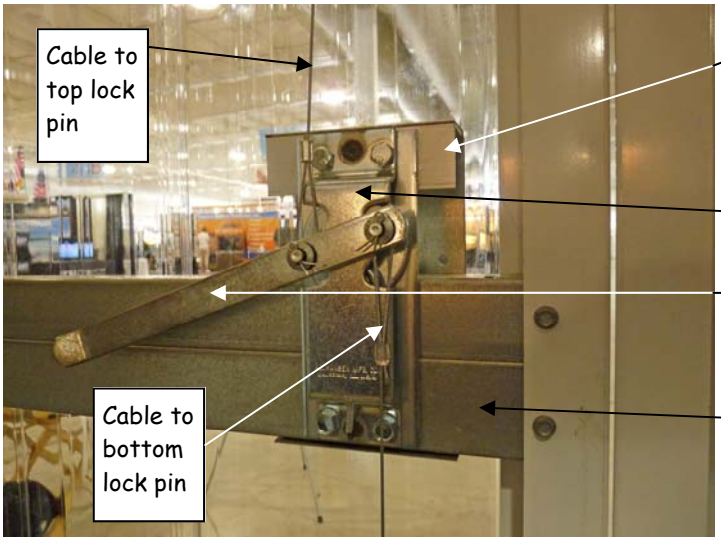


10.0 Install the Exterior Sheeting — First Determine where the ribs of sheeting will be located on the panels and mark the location of the portion of the sheeting which is flat. Locate the where the Lock will be located on the flat area so that the exterior handle can rotate and not hit the ribs of the sheeting.

This screw pattern layout is for the steel sheeting purchased locally. If polycarbonate is utilized, pre-drill the polycarbonate with a minimum 1/4" drill bit before attaching to the door panel. If Polycarbonate is supplied, a "J" trim is supplied for the top of the door and a starter strip for the bottom. Mark the location of the ribs of the polycarbonate on the door panel and TEK screw the "J" trim and starter at the rib location.



Steel Panel Screw Pattern Recommendations: The top horizontal rail and the bottom rail will have one screw at each side of each major rib. The remaining horizontal girts and diagonal braces will need one screw at one side of each major rib. For other configurations of steel sheeting and other types of sheeting, follow the manufactures recommendations, but use 80 to s100 screws per square of sheeting.



#500887 bracket assembly.

Lock mechanism

Inside latch handle

Lock Girt

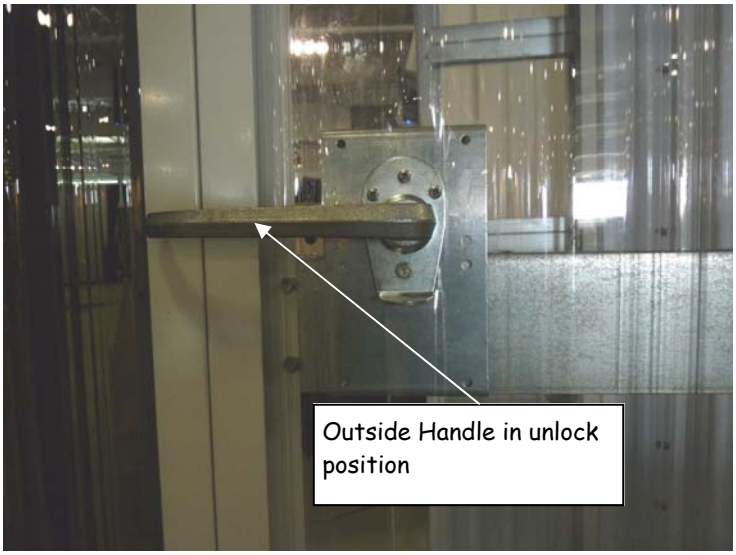
View of lock from inside the door as it is mounted on the lock girt. The bracket assembly (#500887) is placed over the girt from outside the door. The lock mechanism is secured by bolts and Tek Screws as shown on previous page. The inside latch handle is put in place as shown and secured by washer and cotter pin with cable wrapped around the pin from the lock bracket and secured with a cable tie. Place the lock in the unlock position as shown in photo before attaching the outside handle. The sheeting is put in place before attaching the outside lock handle.

#500887 bracket assembly.

Outside lock handle in padlock position

Sheeting

View of the lock from outside the door as it is mounted on the lock girt. The outside lock handle is placed on the lock assembly with the outside handle down and the inside handle in the unlock position. The handle is shown in the padlock position.

For a video of lock assembly attach and operation go to You Tube URL:

TBD