



EasyMotion Sliding Door



*Actual door and cladding color may differ.

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WARNING: Cancer and Reproductive Toxicity - P65Warnings.ca.gov

Revision date: 10.29.15

Door Sku#	Sliding Door Frame
#113853	8' 4" x 8' 4"
#113854	10' 4" x 10' 4"
#113855	12' 4" x 12' 4"

Getting Started

READ THIS DOCUMENT BEFORE YOU BEGIN

Thank you for purchasing the ClearSpan™ EasyMotion sliding door. When properly assembled and maintained, this product will provide years of reliable service. This guide includes important information needed to safely assemble and maintain the door. Please read these instructions **before** you begin.

REQUIRED TOOLS

The following list identifies the main tools needed to assemble and install the sliding door. *Additional tools and supports may be needed.*

- Tape measure and marker
- Variable speed drill (cordless with extra batteries)
- Tool to cut metal and corrugated metal
- Wrench set
- Socket set with ratchet
- Hammer and gloves
- Lifts and/or ladders (or platforms) to work at the height of door.

ATTENTION: If you are not familiar with the use of tools common to building construction and installations of this type, enlist the services of a qualified, professional contractor.

Assembled door frame is heavy. Assistance is required to lift into position and to install the mounting hardware.

SAFETY PRECAUTIONS

- Wear eye and ear protection.
- Wear gloves when cutting and handling metal.
- Use a portable GFCI (Ground Fault Circuit Interrupter) when working with electric power tools and cords.

ASSEMBLY PROCEDURE

Following instructions as presented will help ensure proper assembly. Basic assembly steps include:

1. Verify that all parts are included in shipment. Notify customer service for questions or concerns.
2. Read these instructions and all additional documentation included with shipment **before** you begin.
3. Gather tools, materials, and assistants.
4. For best results, assemble components in the order they are presented.

TYPICAL INSTALLATION SEQUENCE

Complete these steps:

1. Use information on the original building drawings (or next page) to construct a frame for the sliding door (Procedure 1).
2. Assemble sliding door frame (Procedures 2 & 3).
3. Complete Procedure 4 to attach sliding door track above framed door opening (Procedure 1). Measure assembled door frame with attached rollers and use the dimensions to install track above opening.
4. Lift door into position (Procedure 4).
ATTENTION: Door is heavy. Use caution, lifts, and assistants when moving or lifting door.
5. Attach J-channel and cladding (Procedure 5).
6. Install stay roller, trim, and receiver seal (Procedures 6-8).
7. Install rain and ice guard (Procedure 9).

CUSTOMER-SUPPLIED MATERIALS

This sliding door kit includes all materials and fasteners needed to construct sliding door frame and install roller assemblies and exterior metal cladding. Customer is responsible for the following materials and hardware:

- Materials and fasteners to secure sliding door track brackets (100380) to building.

ATTENTION: Use exterior-grade fasteners to secure brackets to building. Lag screw (if included with bracket) may not be suitable for the building material. Select 3/8" fasteners (or larger) if using bolts or threaded rod.

Drill larger holes for fasteners in brackets as needed.

- Fasteners to secure the 100356 stay roller to the building or building foundation depending on design.
- Materials and fasteners to finish rough door opening to provide a smooth, square frame for sliding door.
- Materials and fasteners to construct a surface in door opening to install receiver seal. See Procedure 8.
- Additional miscellaneous materials to cap unfinished edges of door and door opening if desired.
- Fasteners to secure rain and ice guard to exterior building cladding if Tek screws cannot be used. Do not use Tek screws to secure to non-metal substrate.

Install Tek screws into metal framing.

General Information

The following graphics and photos will help identify the different parts. (Some parts are not shown.)



Tek Screws
FA4484B



FALB04B
3/8" Nuts



FAME08B
3/8" Washers



100441 Nut
Setter



100362
Door Pull



100380 Bracket

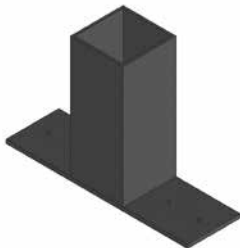


100356 Bracket

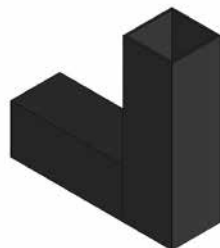


100348 Hanger

NOTE: Some hardware included with hanger kits is not used for this sliding door.



104624 Bracket



104625 Bracket

CARE AND MAINTENANCE

Periodically check the following sliding door components to ensure smooth and continued operation:

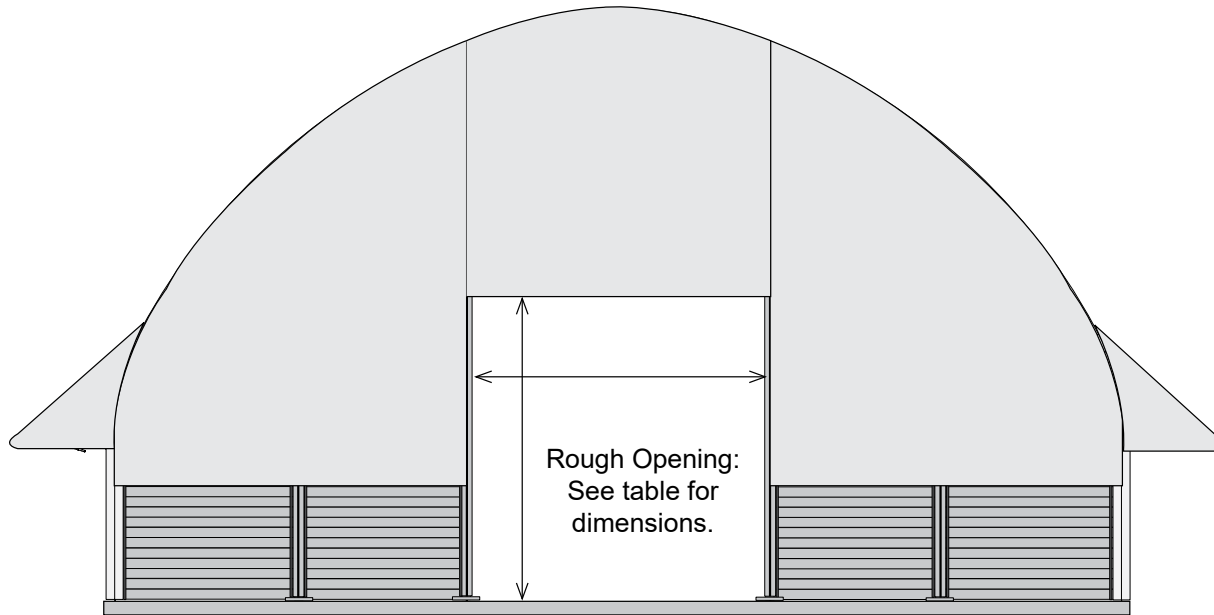
- Verify that all fasteners are tight and in good repair.
- Adjust stay roller as needed to keep door secure when in use or closed.
- Lubricate main door rollers and stay roller with a light, multi-purpose lubricate as needed.
- Keep roller track free from debris and dirt to ensure smooth operation.
- Keep door opening and area around door free from debris and other objects that could hamper operation.
- Do not allow snow to buildup along the building where sliding door opens.
- Remove snow and ice as needed to keep door operating as designed.
- Periodically adjust door rollers to ensure door seals in framed opening.
- Replace damaged or punctured cladding to prevent injury or additional damage.
- If equipped, replace worn or damaged brush seals.
- To prevent damage to door, building, and door components, keep door closed when not in used.
- Do not operate door without the stay roller installed and properly adjusted.

Framed Opening for Sliding Door

1

CONSTRUCT FRAME IN BUILDING FOR SLIDING DOOR

The diagram below shows a typical building end wall (or sidewall) framed for a sliding door. Additional diagrams are presented to better explain possible stay roller installations.

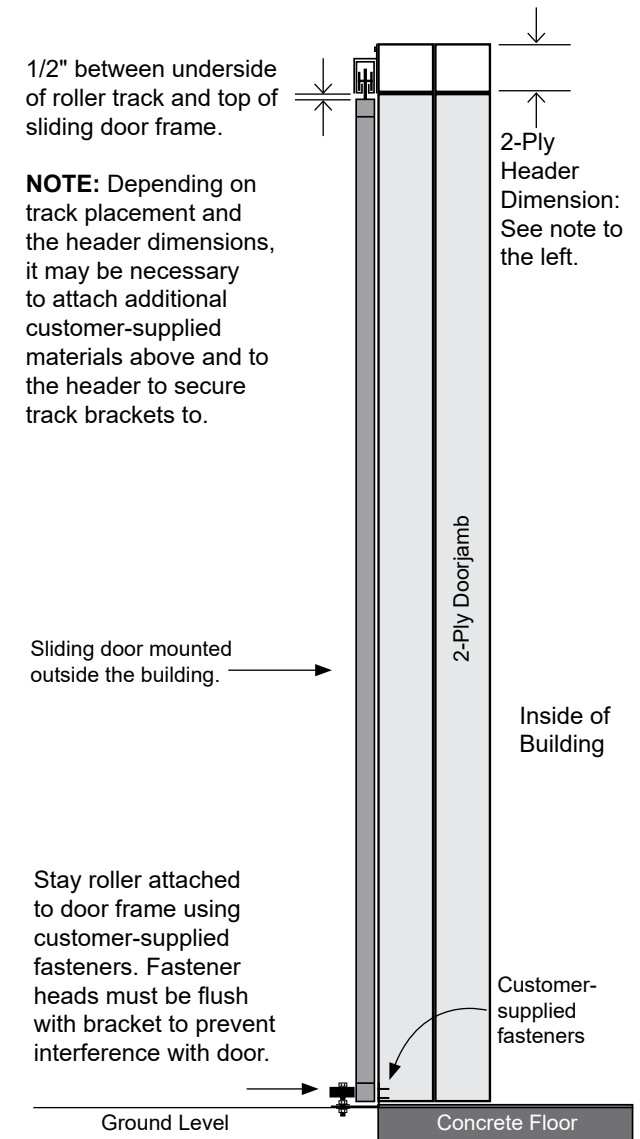


ATTENTION: Diagram shows a sample building end wall. Rough door opening dimensions are shown inside-to-inside (door jambs) and from underside of header to top of finished grade. Dimensions shown allow sliding door to remain slightly above finished grade when installed. Use customer-supplied materials to finish inside of rough opening. **Framed opening must be square to ensure proper sealing and operation of sliding door. Buildings differ; consult the services of a qualified contractor experienced with the installation of similar doors before beginning. Use this manual as a guide when installing the door. Actual installation may differ.**

Photo at the right shows installed stay roller as seen from outside building with door closed.



Frame: Door Opening	
Door Sku & Size	Rough Door Opening
113853 (8' 4" x 8' 4")	8'-0"W x 8'-5"H
113854 (10' 4" x 10' 4")	10'-0"W x 10'-5"H
113855 (12' 4" x 12' 4")	12'-0"W x 12'-5"H



Assembly

2

ASSEMBLE DOOR FRAME

The following steps describe one way to assemble the sliding door. Use the diagrams throughout this guide to assemble your door. Complete these steps:

Locate the parts shown on this page and construct the main door frame.



Tek Screw
FA4484B



100441 Nut
Setter

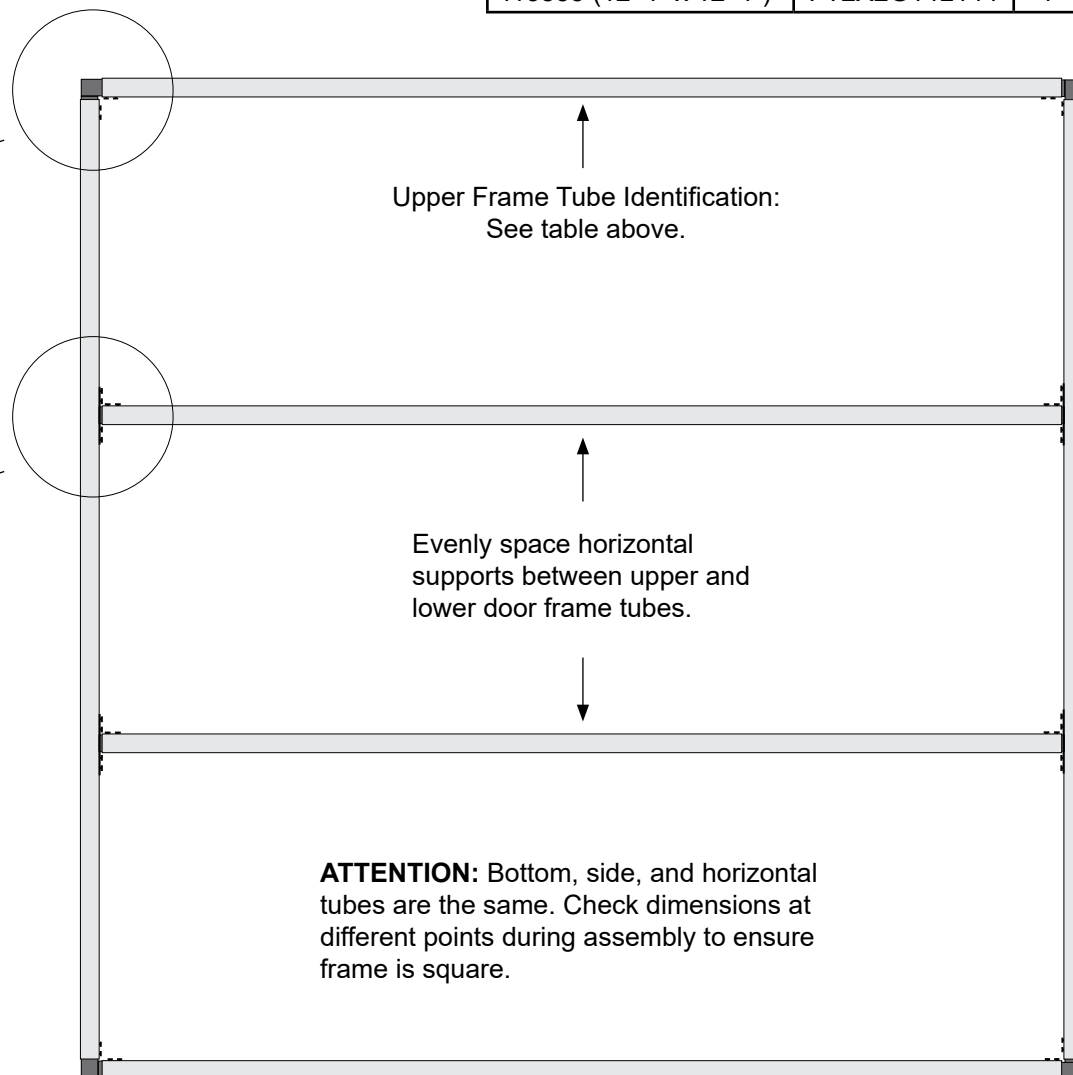
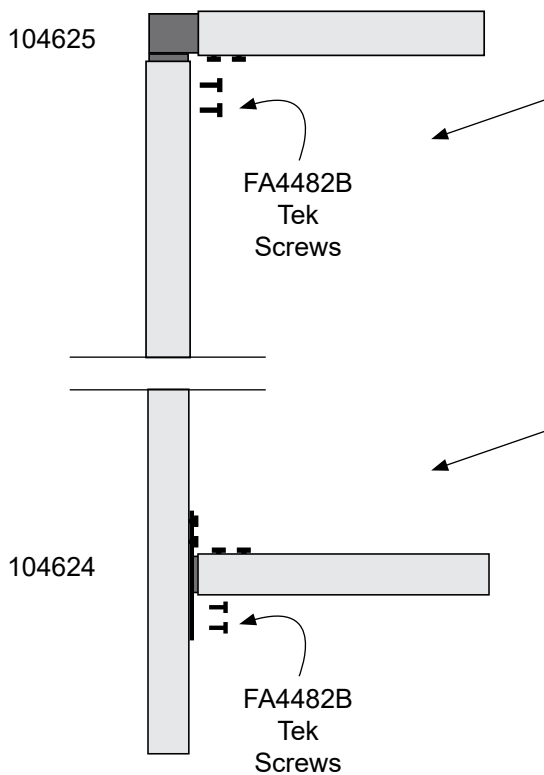
Upper Frame Tube			
Door Sku & Size	Part #	Qty	
113853 (8' 4" x 8' 4")	FT2X2G14L096	1	
113854 (10' 4" x 10' 4")	FT2X2G14L120	1	
113855 (12' 4" x 12' 4")	FT2X2G14L144	1	



104625 Bracket



104624 Bracket



ATTENTION: Install all Tek screws in locations that will not interfere with the installation of exterior door cladding. Do not install any Tek screw in areas that are toward the building. Inside door surface and door opening of building must remain free of screws and other components that could prevent smooth sliding of door during operation.

3

INSTALL STRUTS AND ROLLER ASSEMBLIES

Complete these steps:

1. Install the 100348 hangers using 3/8" nuts and flat washers. See diagrams. Some hardware included with hanger kit is not used for this sliding door assembly.
2. Install 105887B45 diagonal struts. See below.



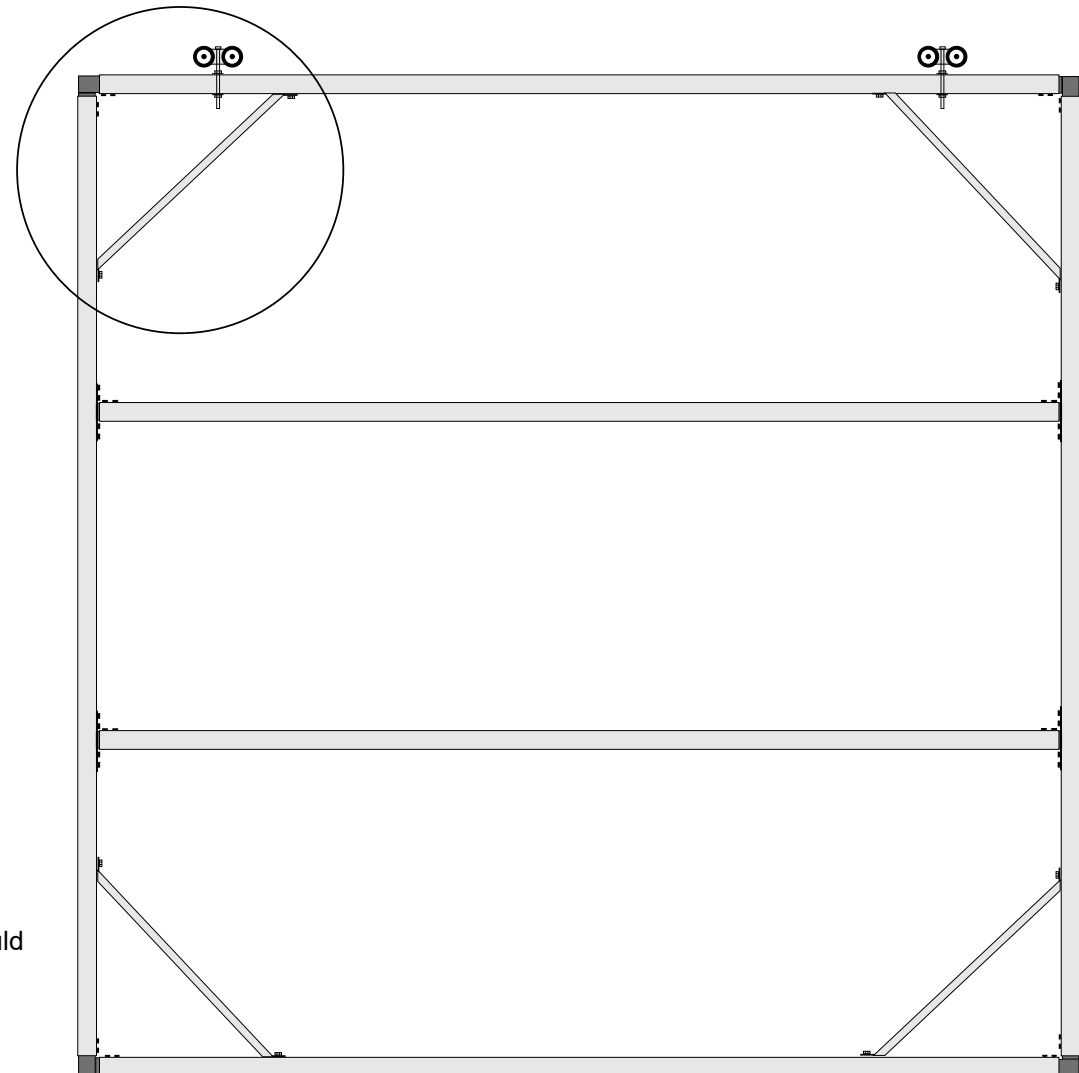
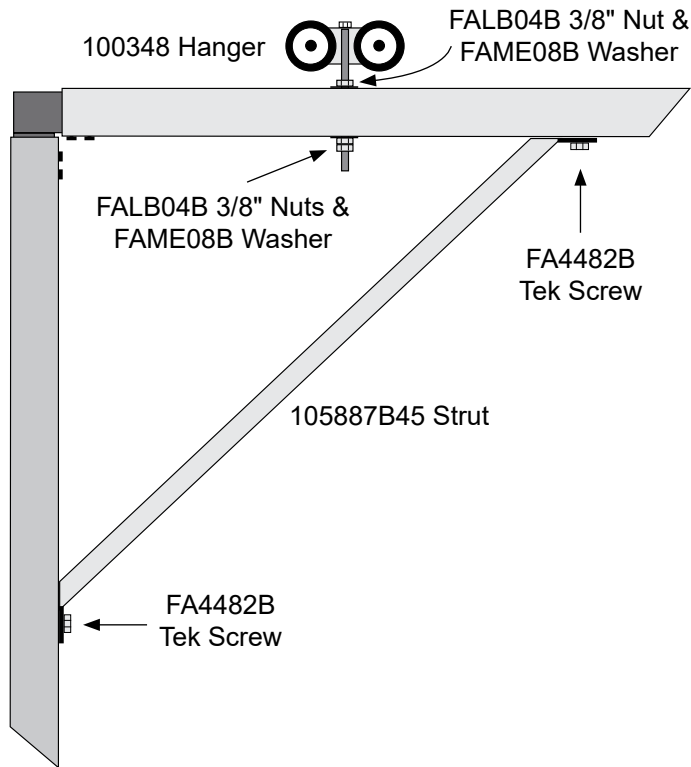
Tek Screws
FA4484B



FALB04B
3/8" Nuts



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3/8" Washers



ATTENTION: Install all Tek screws in locations that will not interfere with the installation of exterior door cladding. Do not install any Tek screw in areas that are toward the building. Inside door surface and door opening of building must remain free of screws and other components that could prevent sliding of door during operation.

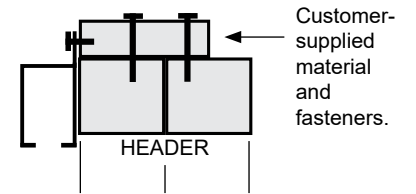
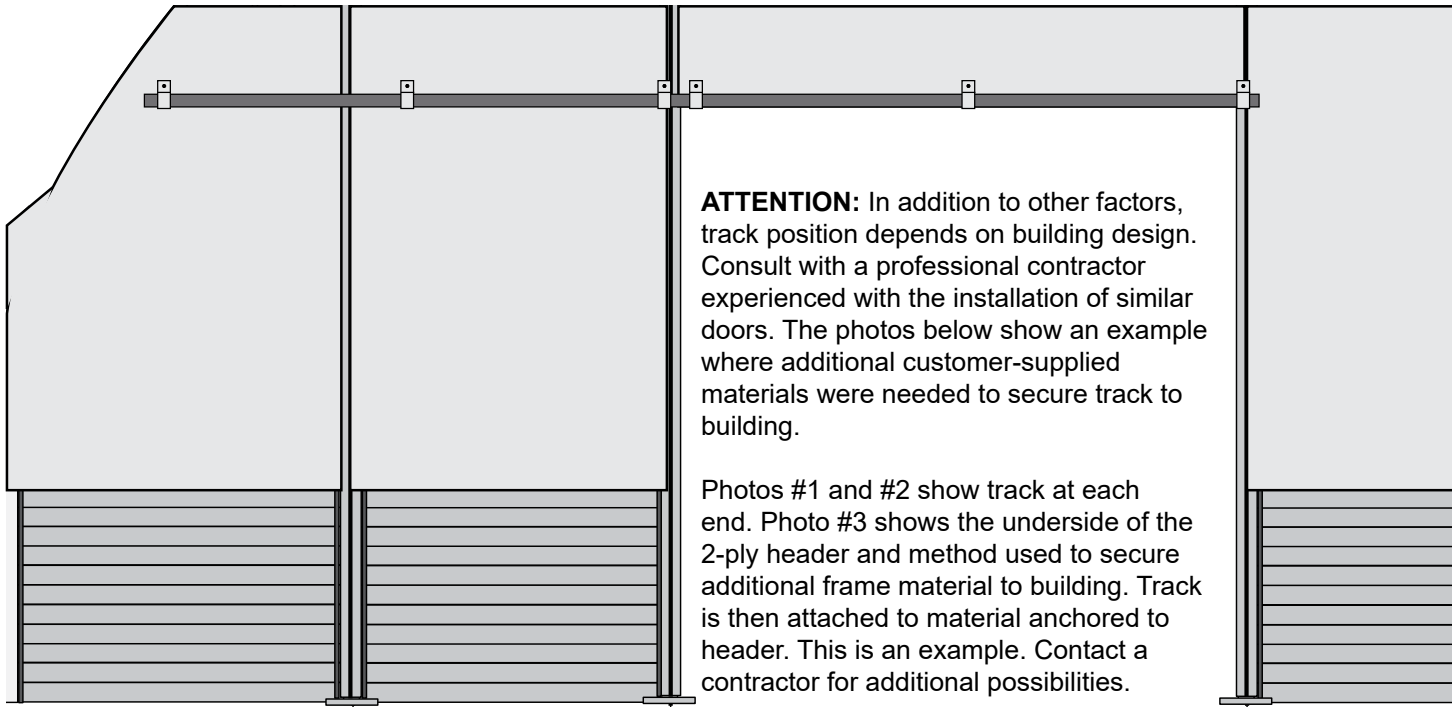
Assembly

4

ATTACH DOOR TRACK AND SET DOOR IN PLACE



WARNING: Track must support weight of door and withstand forces created during operation. Estimated weights: 113853 (200 lbs.); 113854 (250 lbs.); 113855 (325 lbs.).

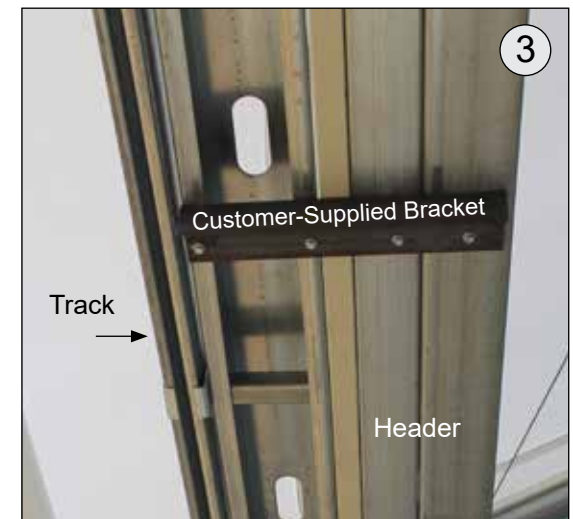
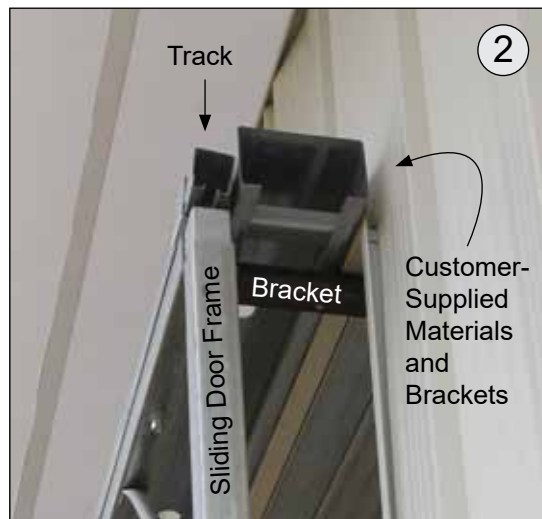


If header does not allow for installation of hanger bracket, add material and then install bracket.



100380 Bracket

NOTE: Fasteners to secure bracket to building and additional materials needed to mount track are supplied by customer.

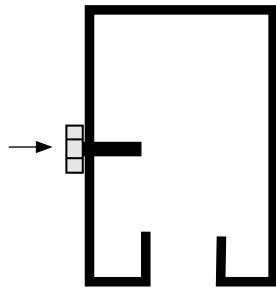


5

ATTACH J-CHANNEL AND CLADDING

Complete these steps:

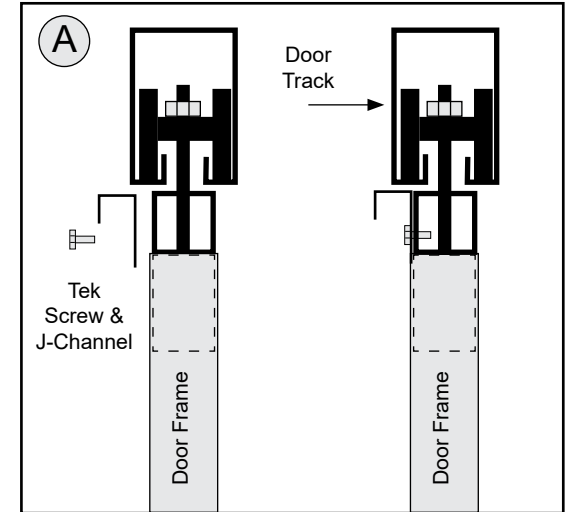
1. With assistance, hang assembled door frame in roller track attached above rough door opening.
2. Center door in framed opening and adjust door rollers so door is square with door opening.
3. Test sliding door operation. **Do not allow door to slide out of track.** Install a Tek screw through track at each end to prevent door from accidentally sliding from track if desired.



End View of Sliding door Track

4. Locate J-channel included with metal cladding and attach channel to *top of sliding door frame*. (See note and diagram A in right column.)
5. Clamp a scrap piece of small angle iron or similar material (customer-supplied) to door frame bottom to create a rest for cladding during installation (Photo B).

NOTE: Position bottom edge of cladding above where stay roller contacts door frame (Photo C). Reference the stay roller installation steps (Procedure 6) before continuing.



ATTENTION: When installing J-channel, align each end with inside edge of door frame. Measure cladding rib spacing and install J-channel Tek screws so these do not interfere with cladding installation. Space screws approximately 16" to 18" apart, depending on cladding.

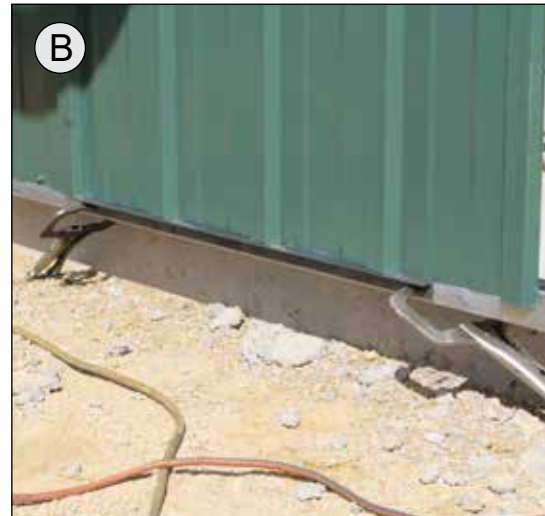
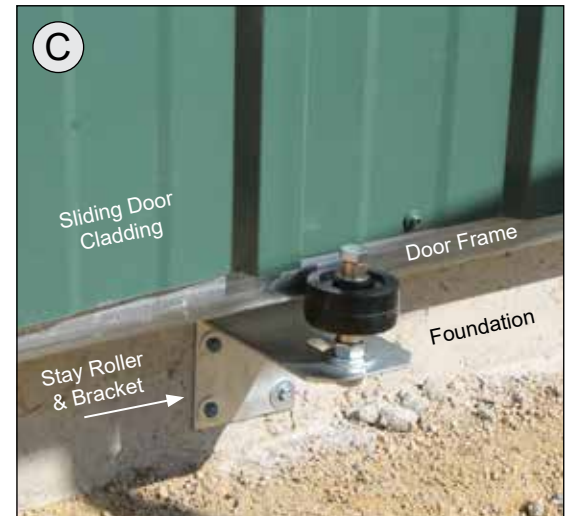


Photo shows clamps used to secure angle iron to door frame creating a ledge for cladding to rest on during installation. Remove clamps and angle iron after installing cladding.



Install cladding an inch above bottom of door frame to create a flat surface for stay roller. Actual installation of stay roller may differ from what is shown. Adjust as needed.

5

ATTACH J-CHANNEL AND CLADDING – continued

- Slide top of first cladding sheet into J-channel and align cladding with outer edge of door frame. Set bottom on customer-supplied rest if used. (See B – previous page.) Check to ensure cladding is above stay roller.
- Secure sheet first to upper horizontal frame tube of sliding door frame. See photo.

NOTE: Install all cladding fasteners into horizontal frame tubes of sliding door frame. Space fasteners according to documentation sent with cladding.

Depending on cladding material and fasteners, it may be necessary to predrill fastener holes through cladding to install fasteners.

Do not install fasteners along either outer vertical door frame edge. This edge is finished with sliding door trim (113377 & 113378) in a later step. (Specific trim lengths are determined by door dimensions.)

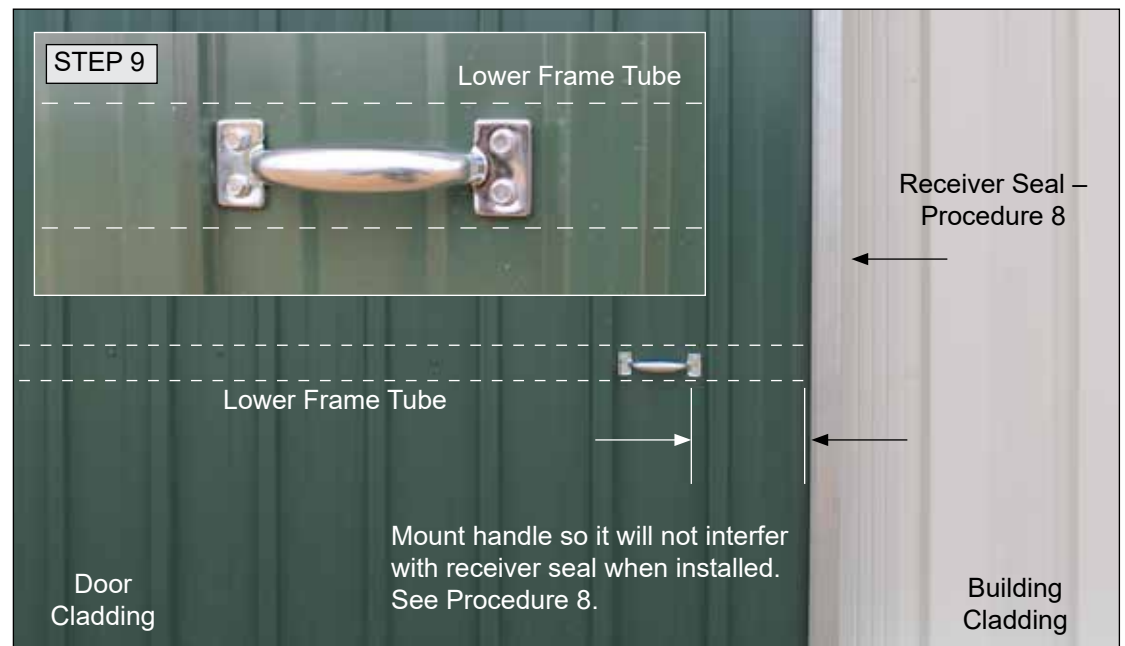
- Continue adding and securing sheets to *upper frame tube* until entire door frame is covered. *Overlap sheets according to cladding manufacturer's instructions.*
- Next, to prevent conflicts with cladding screws, mark the desired door handle position on lower frame tube. Set handle a few inches in from edge.
- After marking handle position, move to lower frame tube and secure cladding. *Do not install cladding screws where handle will be located.*
- Finally, attach handle to lower frame tube.

NOTE: Dashed lines show position of horizontal sliding door frame member that handle is attached to.

- Continue with the next procedure.



Install fasteners through cladding into door frame tubes. Dashed lines (right) show positions of horizontal frame tubes for sliding door.

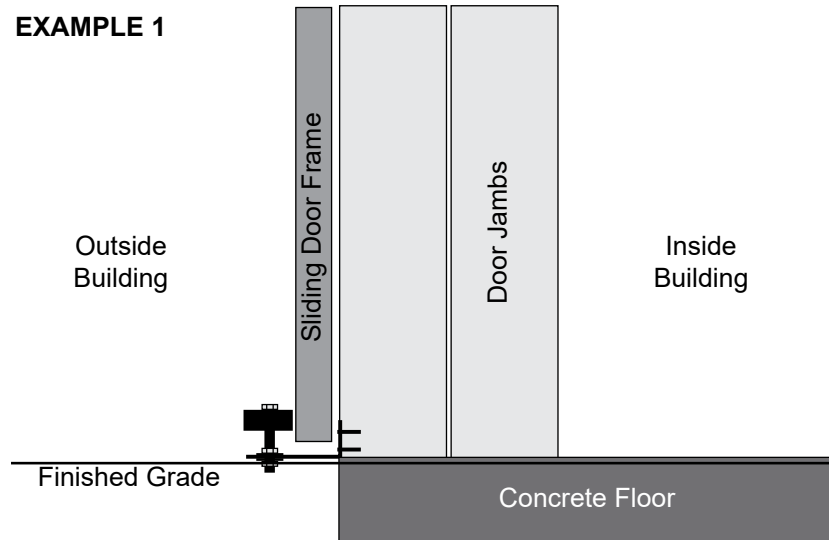


6

INSTALL STAY ROLLER AND TEST DOOR OPERATION

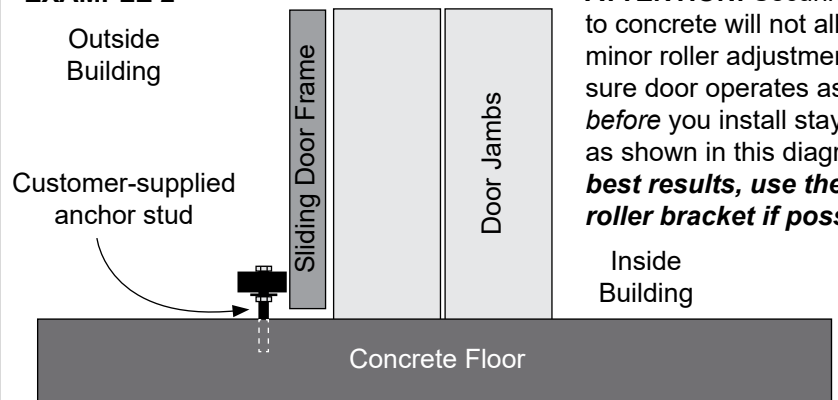
The stay roller stabilizes lower edge of sliding door while allowing smooth operation. Customer-supplied fasteners secure stay roller bracket to building foundation or building frame. Review the information on this page and install the stay roller for your sliding door. After installing stay roller, test door operation and adjust roller as needed to allow best operation and to ensure door seals against building frame.

EXAMPLE 1



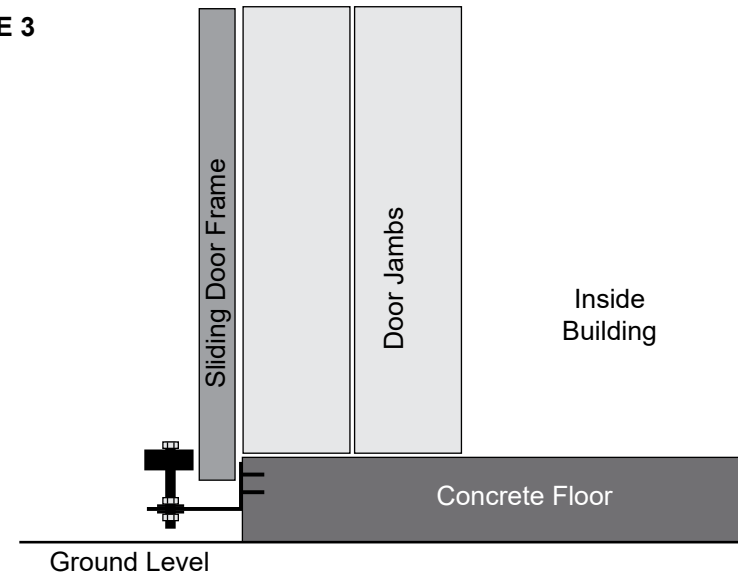
This example shows a concrete floor inside building, finished level with grade outside building. Stay roller bracket is attached to outer face of door jamb. In instances when concrete extends outside building and you are unable to use stay roller bracket, anchor roller in concrete using a customer-supplied anchor bolt. Contact a contractor if needed to properly set anchor in concrete.

EXAMPLE 2



ATTENTION: Securing roller to concrete will not allow for minor roller adjustments. Be sure door operates as desired *before* you install stay roller as shown in this diagram. **For best results, use the stay roller bracket if possible.**

EXAMPLE 3

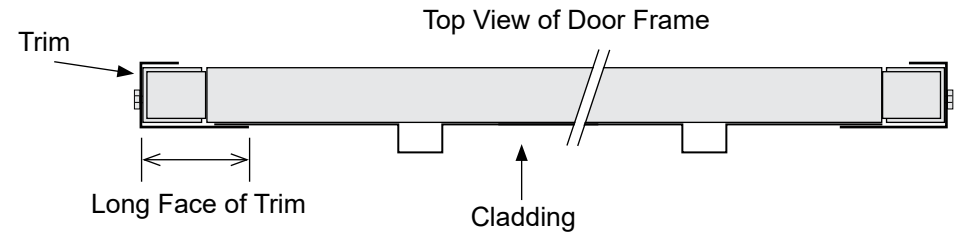


Stay roller is attached to foundation of building. May not apply to your building. Building design may differ.

Assembly

7

ATTACH SLIDING DOOR TRIM



Complete these steps:

1. Locate the 113377 (and 113378) sliding door trim pieces and Tek screws. (Type of trim depends on door dimensions.)
2. Align end of trim piece with edge of door frame and press into position.

NOTE: Place long face of trim over door frame so trim overlaps cladding; short face is to the back (or inside surface) of door frame.



3. Secure trim to door frame using Tek screws as shown. Space screws 18" - 24" apart along length of trim piece.

NOTE: Do not overlap trim pieces. Butt ends together and secure as shown in middle photo.



8

INSTALL RECEIVER SEAL

Receiver seal provides a seal for door when closed. Review photos below and attach receiver seal to building. (Depending on how building opening was finished, receiver seal may not be needed.) Secure to metal frame of building using Tek screws, or use customer-supplied fasteners for wood frame.



*Actual seal may differ in design.

9

ATTACH RAIN & ICE GUARD

In locations prone to winter weather, the rain and ice guard helps prevent snow and ice buildup above slider track. Attach guard to wood building using customer-supplied fasteners installed 12" to 16" on-center. Tek screws can be used to secure guard to metal supports of building.

NOTE: Do not install Tek screws into metal cladding only. Drive screws through cladding and into frame of building. If needed add a mounting plate on the backside of cladding.

