CUSTOMER SERVICE CONTACT INFO

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Website: www.stainlesscablerailing.com
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Vancouver, WA 98682

CABLEVIEW® ALUMINUM INSTRUCTIONS

Choose **STAINLESS CABLE & RAILING™** for all your fittings and cablerail assemblies!

SIMPLE, STRONG

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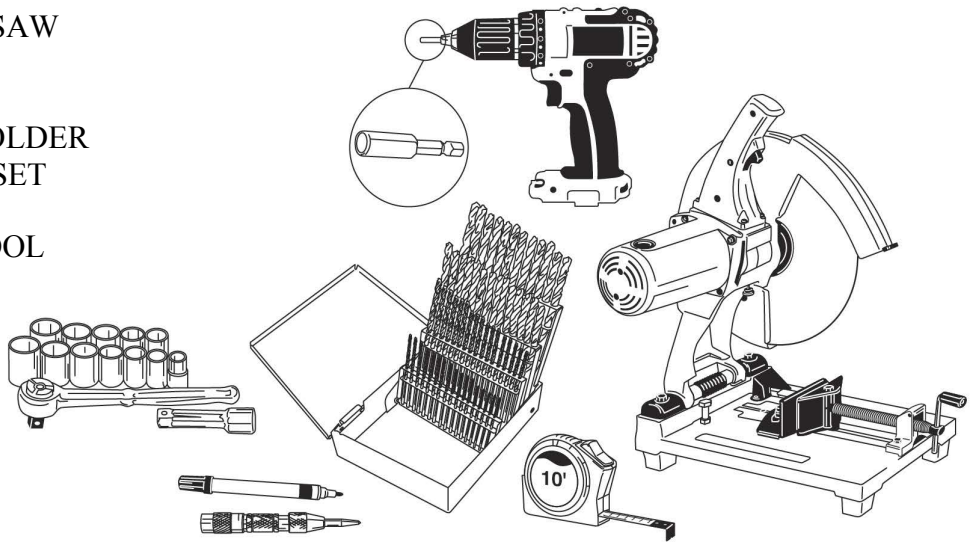
7. POST-TO-POST & SADDLE BRACKETS
8. READY FOR CABLES

Just follow these simple steps:

1. NECESSARY TOOLS

1. MEASURING TAPE
2. CROSS CUT/CHOP SAW
3. DRILL
4. DRILL BIT INDEX
5. UNIVERSAL BIT HOLDER
6. SOCKET WRENCH SET
7. BLACK MARKER
8. CENTER PUNCH TOOL



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2. LAYOUT

Determine where the cable will start and stop (ie; Sections). Reference the color- coded layout sheet (Fig 1) if it was included with these instructions.

3. CUT POSTS TO LENGTH

Posts are shipped oversized to accommodate a variety of configurations and may need to be cut to length. If posts need to be cut, use a carbide tipped blade on a cross cut/chop saw (Fig 2). Cut posts to the appropriate height given your desired overall railing height including your top rail.

NOTES:

- For 36” residential height, there are 11 holes/cables.
  For 42” residential/commercial height there are 13 holes/cables.
- Make sure you cut the correct end of the post (Fig 3).
- Before cutting stair posts, refer to 7B.
- We recommend using our Touch-Up Paint (sold separately) to coat fresh cuts and protect them from potential corrosion.

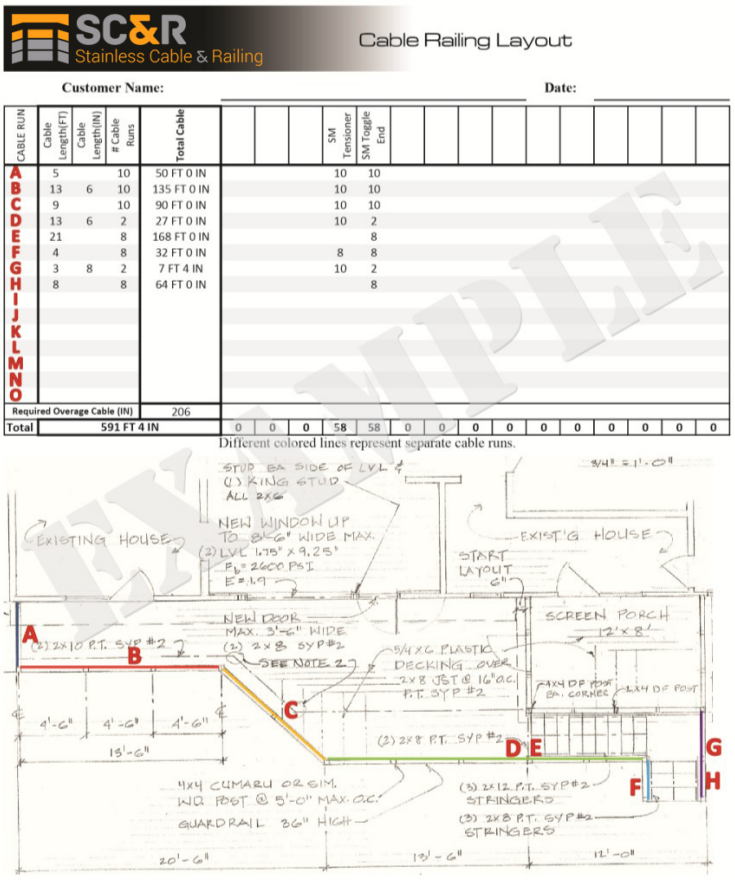

Fig 1

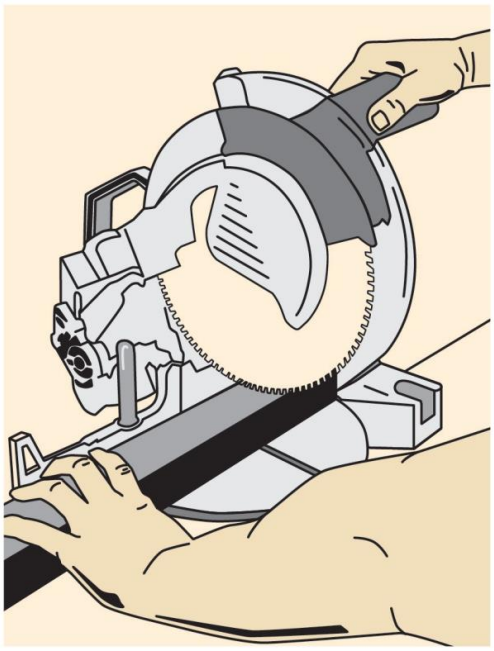

Fig 2

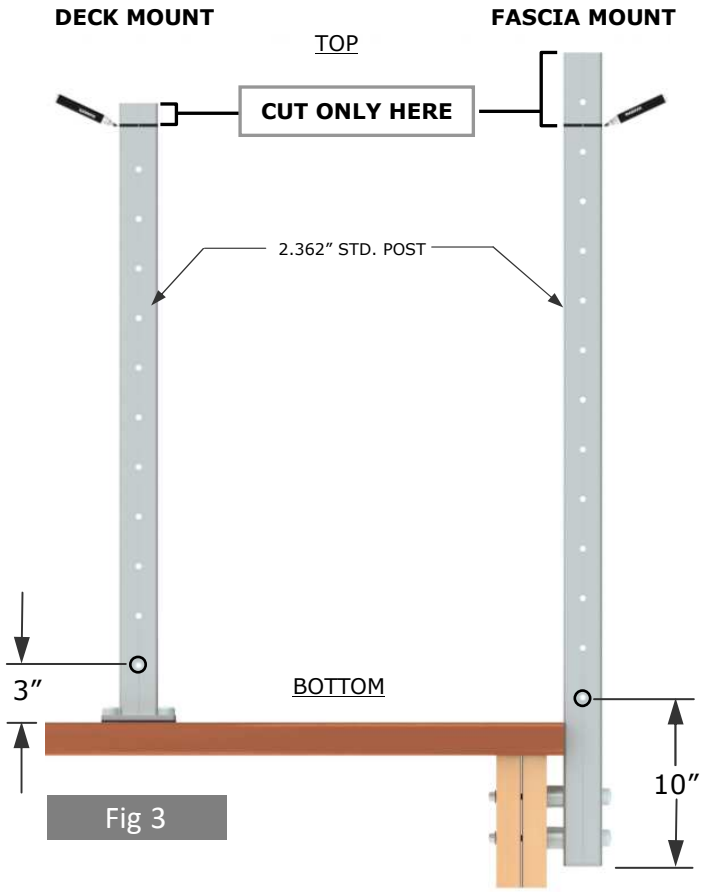

Fig 3

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4. ASSEMBLE POSTS (DECK MOUNTED)

NOTE: IF USING FASCIA MOUNTED POSTS, SKIP THIS STEP AND GO TO STEP 5B.

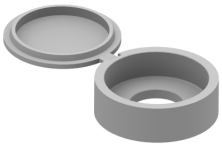
1
Post-Intermediate
2.362" Square Post
Cut-off required
ITEM# 03-001-02

1
Post-Terminal
2.362" Square Post
Cut-off required
ITEM# 03-001-01

2
Base Plate
ITEM# 03-009-01

3
Neoprene Rubber Base Pad

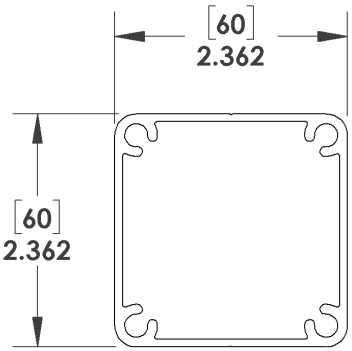
4
¼"–20 Flat Head screw



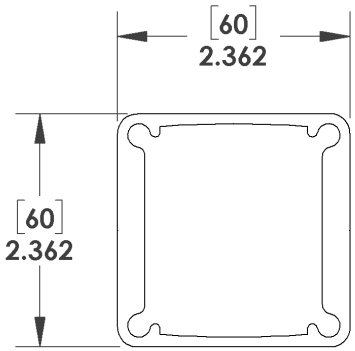
5
Screw Cover for 3/8" Lag Screw

(Hinged or Sleeved Design)

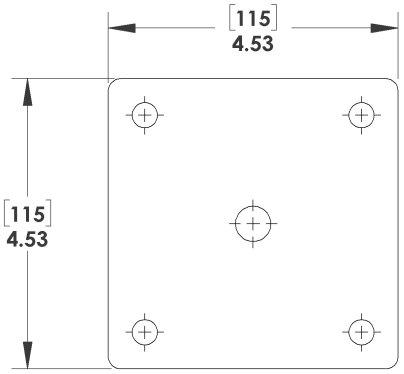
6
3/8" Lag Bolt & Washer
ITEM# 987586



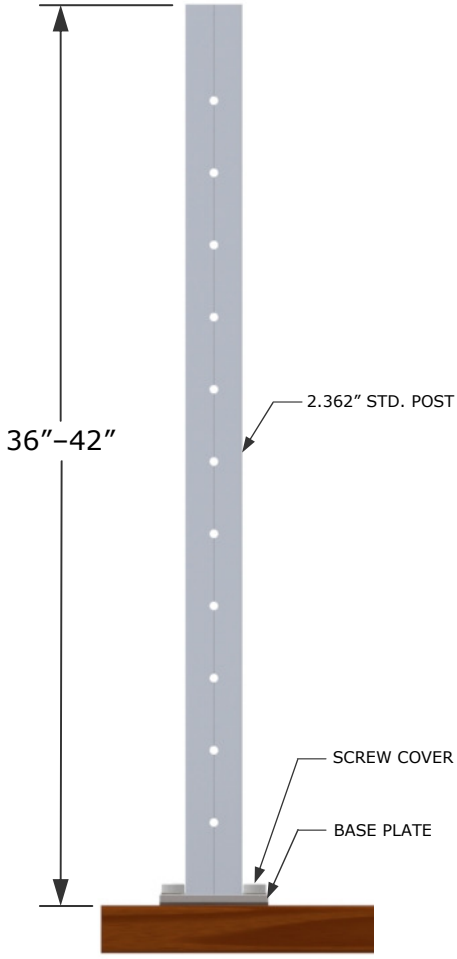
POST - INTERMEDIATE



POST - TERMINAL



BASE PLATE



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Posts are shipped without the base plates installed.

IMPORTANT: The following preparation steps must be done before base plate installation and are required to preserve your full warranty:

1. Use one 1/4"-20 Flat Head Screw as a tap to create threads into each screw chase.

2. Blow or brush out any chips in the chases.

3. Coat bottom portions of screw chases with the included Brush-On Electrical Tape.

Attach one base plate to each post by working the remaining, unused four 1/4-20-2 1/2" Flathead Phillips T/F SS Screws into the coated chases before electrical tape dries. One rubber pad is used on the bottom of each post (Fig 4). Peel off adhesive backing and apply pad to the bottom of the post.

BASE PLATE ASSEMBLY
ITEM# 733131

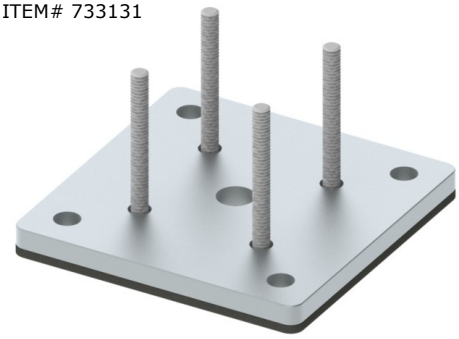
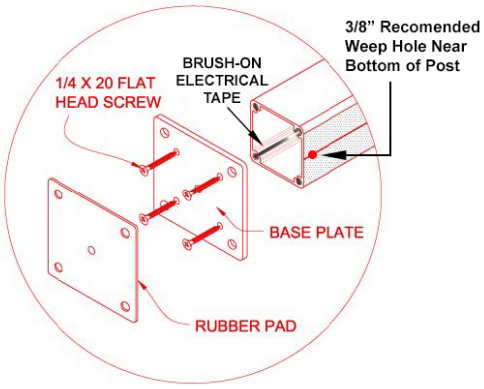


Fig 4: Base Plate Installation



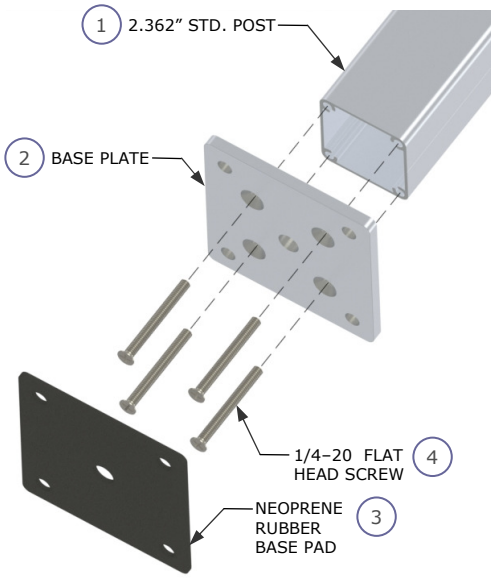
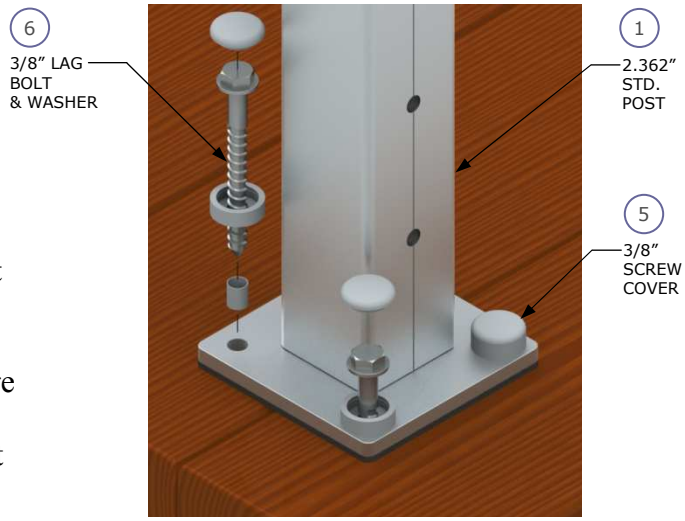


Fig 5: Base Plate Attachment



5. INSTALL POSTS

Refer to the layout (Fig 1) for proper post location. Pay particular attention to double (offset) post locations to be sure they will match up with the top rail corners.

5A DECK MOUNT

Anchor base plate with 3/8" bolts or lags. Insert a 3/8" bolt or lag with washer through the optional Polypropylene Hinged Screw Cover (Fig 5) and tighten with a socket wrench. Ensure post is plumb. Some shimming and additional framing blocking may be necessary at each post (Fig 6-7).

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Fig 6: Additional Blocking

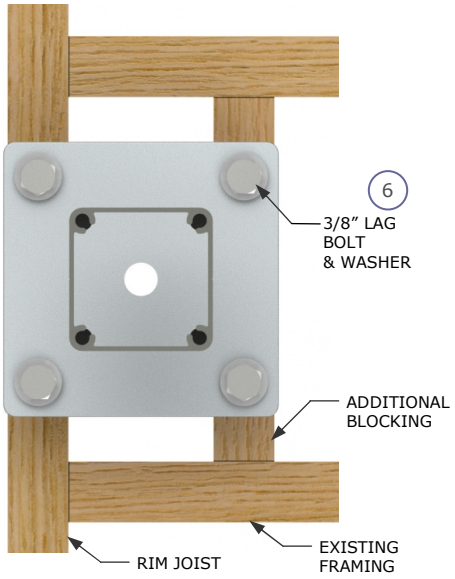
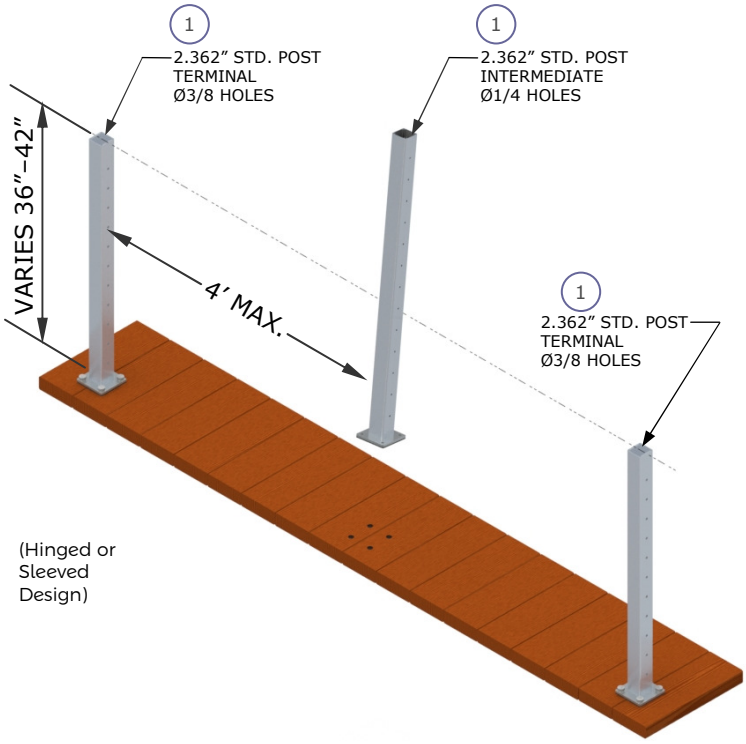


Fig 7: Post Spacing & Installation



5B FASCIA MOUNT

Check your local building code requirements to determine approved mounting techniques. Fig 8 (on next page) shows typical mounting options.

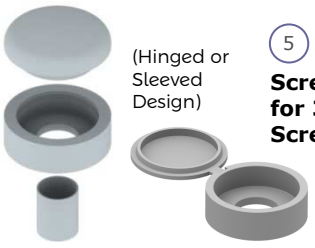
1 **Post-Intermediate**
2.362" Square Post
Cut-off required
ITEM# 03-001-02

1 **Post-Terminal**
2.362" Square Post
Cut-off required
ITEM# 03-001-01

2 **Standoff Spacer**
ITEM# 732486

3 **3/8" Bolt, Nut & Washer**
ITEM# 987487

4 **Post Cap**
ITEM# 983359



5 **Screw Cover for 3/8" Lag Screw**

6 **DTT2Z Deck Post Connector**
ITEM# 729288

7 **3.5x3.5 Wood Post**
ITEM# 07-001-01

8 **½" Bolt, Nut & Washer**

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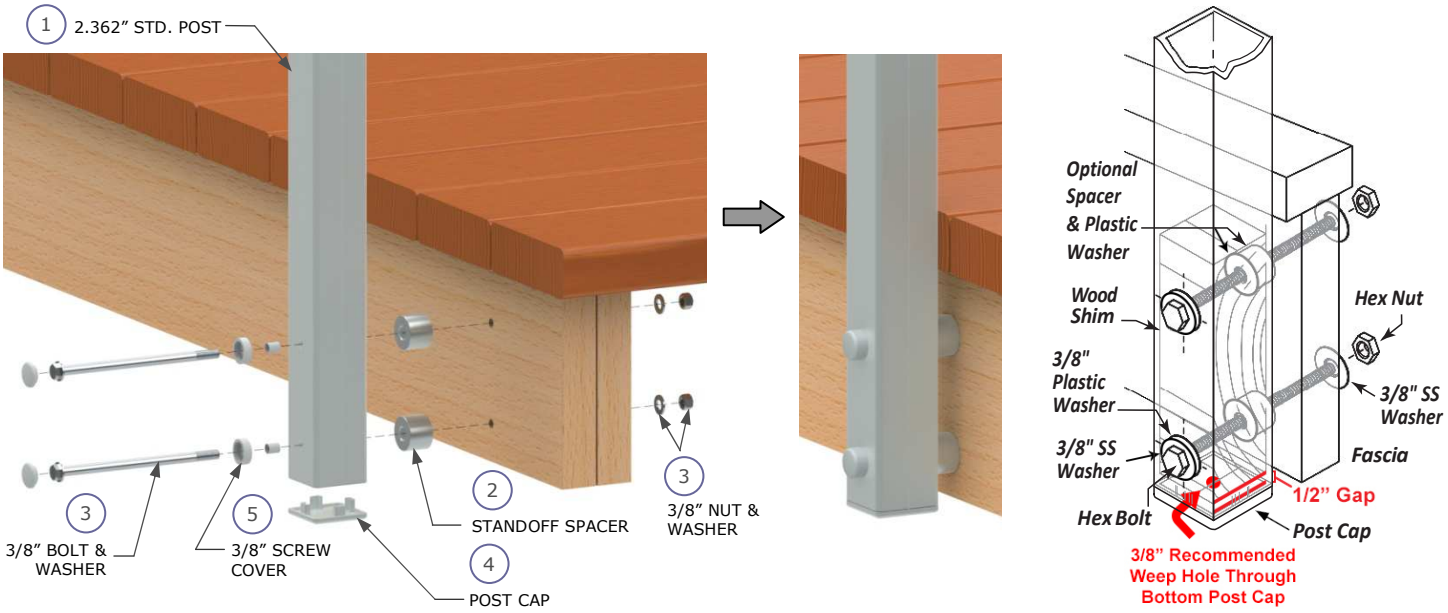
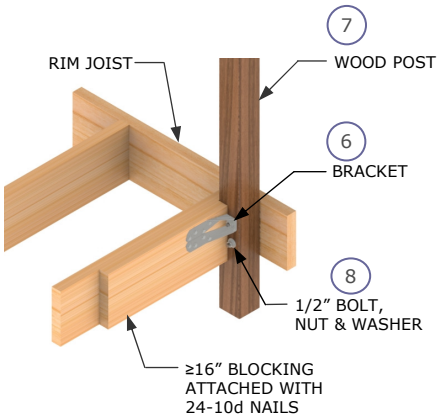
Fig 8: Aluminum and Wood Square Post Installation

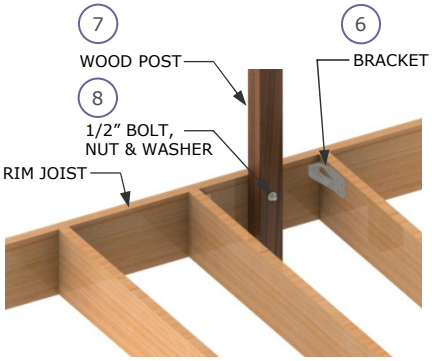
AL. SQUARE POST INSTALLATION



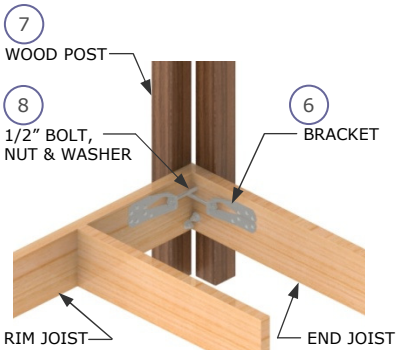
WOOD POST INSTALLATION



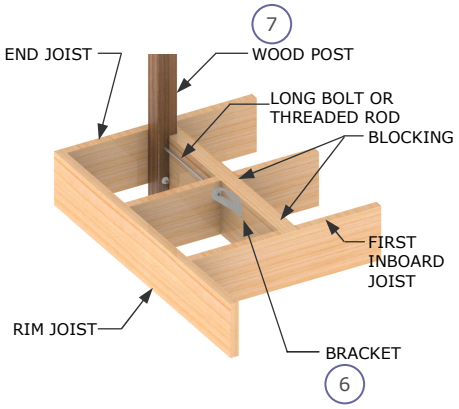
POST ALONGSIDE JOIST



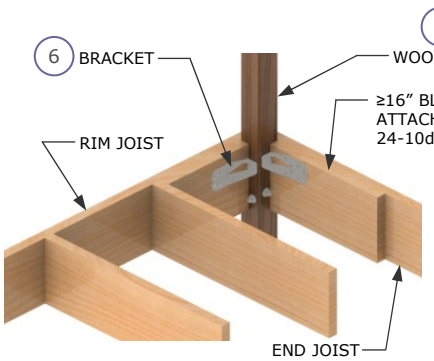
POST NOT ALIGNED TO JOIST



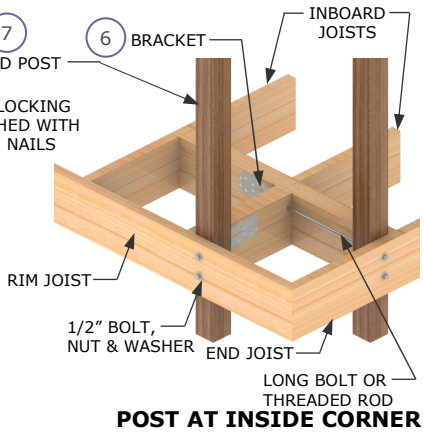
PAIRED POST AT OUTSIDE 90° CORNER



POST AT END



POST AT 90° OUTSIDE CORNER



POST AT INSIDE CORNER

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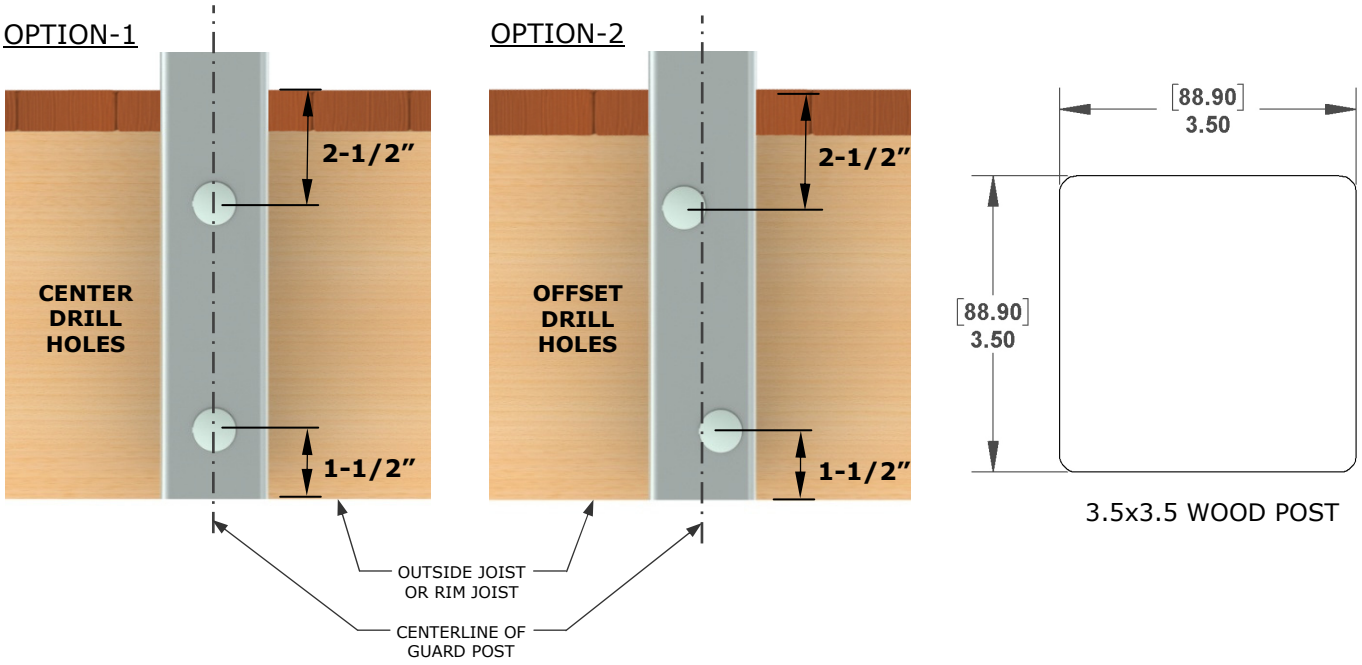
Fascia posts are usually shipped without the mounting holes pre-drilled to allow use in a variety of configurations. Mounting holes must be drilled whose size and location will vary depending on the mounting type selected. See Fig 9-10 for typical drilled hole detail.

Fig 9: Aluminum and Wood Square Post Installation Cont.



Prior to drilling fascia mounting holes, wood crush shims (customer supplied) must be cut and inserted into each post bottom. Crosscut 2 ¼" from 2" x 6" lumber to fit snugly inside each post bottom (Fig 8). Position wood crush shim ½" from bottom of post to allow Post Cap insertion.

Note: Post Caps for Terminal Posts and Intermediate Posts are different and should be identified accordingly.

Use the layout (Fig 1) to determine post position. Additional blocking may be needed for strength and should be added at this time.

Fig 10: Hole Drilling Guide

Hardware Size	Post Hole Size	Pilot Hole (Wood)
3/8" Bolt	13/32"	13/32"
3/8" Lag	13/32"	1/4"
1/2" Bolt	17/32"	17/32"
1/2" Lag	17/32"	11/32"

Adjust mounting location up or down, as needed, keeping in mind the following:

1) Overall rail height. (36"-42")
2) Gap between the edge of the board and the first cable. (3")
3) Depending on the mounting hardware chosen, drill (2) appropriately sized holes through the base of each post. Use the following chart (Fig 9-10)

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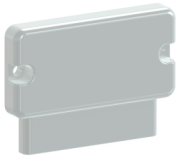
6. INSTALL TOP RAIL (Not all designs will have this; **skip to Step 7 for Post-to-Post & Saddle Brackets**)

1 **Rectangular Top Rail**
ITEM# 729998

2 **Snap Cover**
ITEM# 729943

3 **End Cap – Plain**
ITEM# 729356



4 **90˚Rectangular Top Rail Corner**
ITEM# 982949

5 **Top Rail Splice**
ITEM# 984936

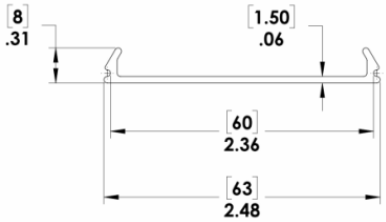
6 **#8x3/4 Pan Head Tek Screw**

7 **#6-32 TYPE F Pan Head Screw**

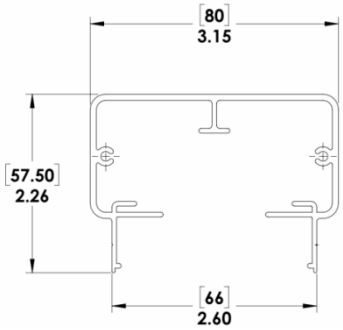
8 **10-32x3" SS Pan Head Screw**

9 **10-32 SS Acorn Nut**

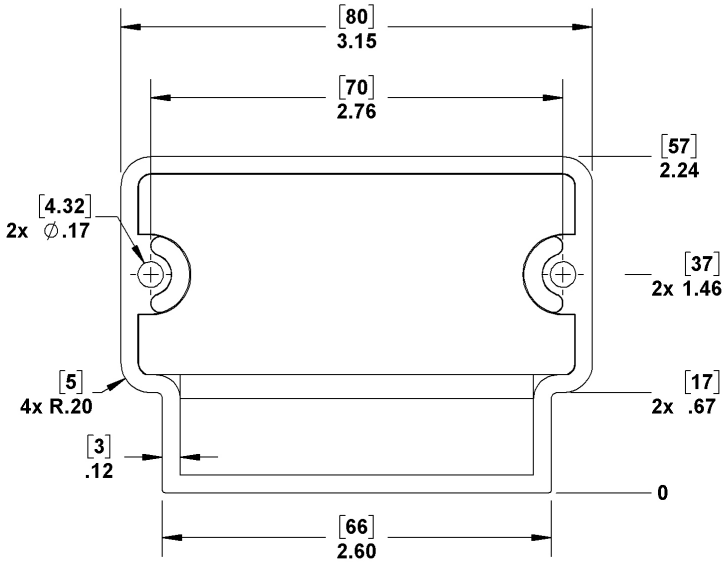
10 **M6 Washer**



SNAP COVER



RECTANGULAR TOP RAIL



END CAP - PLAIN

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6A. INSTALL TOP RAIL CORNERS

The **TOP RAIL CORNER** is designed to be re-cut in the field to match perfectly the position of the double (offset) posts and/or slightly off rail angles from the rail butting to it (Fig 11). All top rail joints are butt jointed over the center of a post using a **SPLICE FOR ALUMINUM TOP RAIL**. The **SPLICE** slides into the channel, joining rail/rail or the **TOP RAIL CORNER**/rail and is secured by screwing **#8 x 3/4" PAN HEAD SCREWS (Qty 4)** through the flange on the underside and the **TOP RAIL SPLICE** (Fig 12). These screws will be completely hidden from view once the **TOP RAIL SNAP COVER** is installed (Fig 18-19). The **TOP RAIL CORNER** is secured with a bolt assembly (included) to the top of 2 posts by drilling through the **TOP RAIL CORNER** and the post with an *3/16"* drill bit. Maintain square and plumb of top rail and posts before pre-drilling and fasten with the included bolt hardware.

Fig 11: Install Top Rail Corners

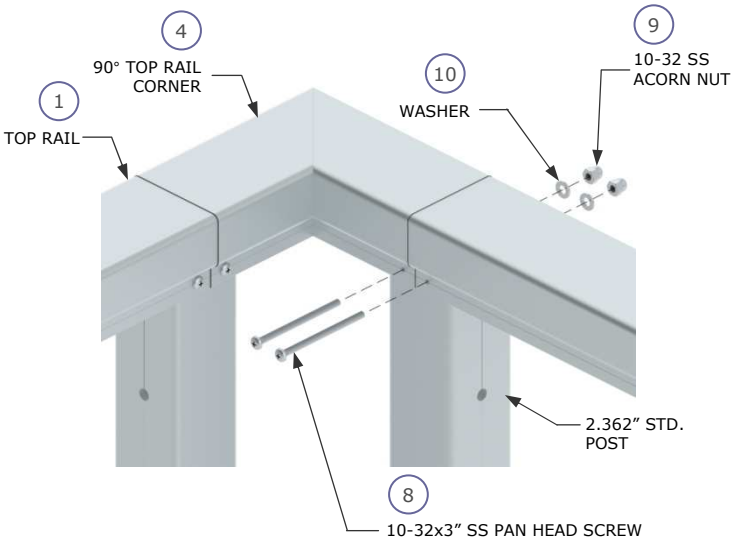
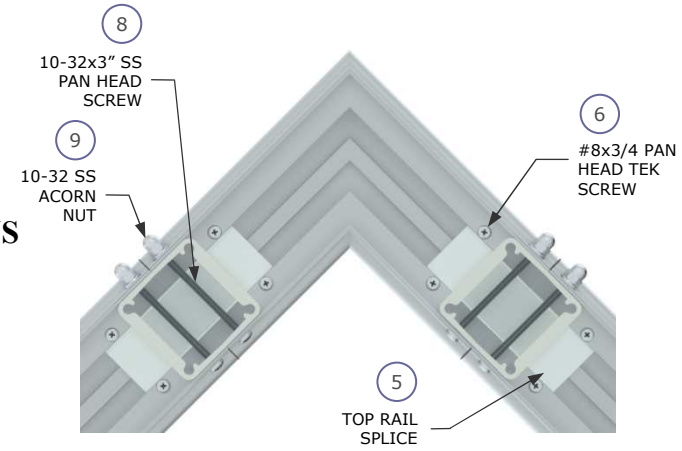


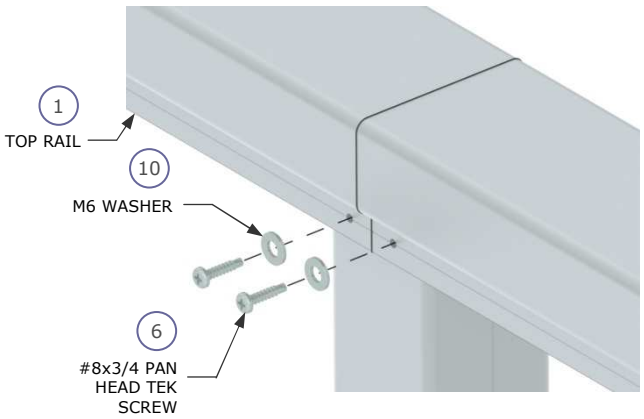
Fig 12: Corner Installation Bottom View



6B. INSTALL STRAIGHT TOP RAIL SECTIONS

Once the corners are installed, measure and cut top rail for the remainder of the railing system. Keep in mind that the top rail is used in the longest lengths practical since longer railings will incorporate more posts and strengthen the handrail. At the end of the railing, let your top rail run past the post about 1" (Fig 20). Also remember that any rail/rail butt joints must terminate at the center of a post (Fig 16-17). Pre-drill 9/64" pilot holes through the outer face of the top rail into each post (Fig 13) and install x2 #8x3/4" Panhead Tek Screw (included) for **INTERMEDIATE POSTS** and (x4) screws for the **TERMINAL POSTS**. Make sure the post is square to the top rail, by slightly shifting the top of the post left or right if necessary before pre-drilling and installing the screws. Where the top rail meets a **TOP RAIL CORNER**, substitute the screw for the bolt assembly that came included with the corner (Fig 12).

Fig 13: Install Straight Top Rail Sections



NOTE: Top rail(s) should rest directly on top of posts. The top rail snap cover only goes between posts.

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Top rail may run continuously from the horizontal to accommodate angles (Fig 14). Mitre cuts are required.

Fig 14

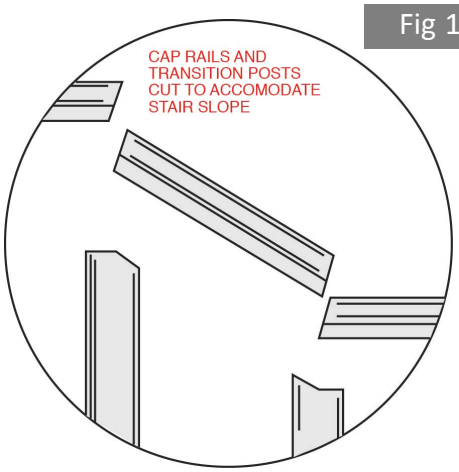


Fig 15

Fig 16

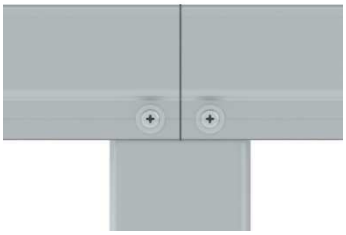
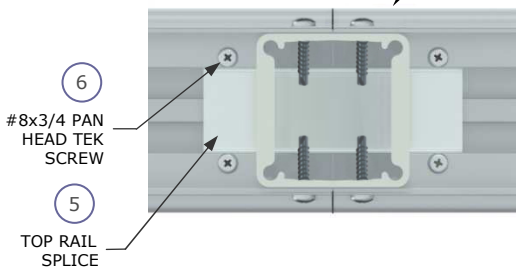


Fig 17



6C. INSTALL SNAP COVER

Measure the distance **between the posts** and cut the TOP RAIL SNAP COVER. Install by snapping into the exposed underside of the handrail between posts (Fig 18-19). Short mitered pieces snap into place on the 90 DEGREE TOP RAIL CORNER. Make sure to cut the correct length and do not apply excessive force.

6D. INSTALL TOP RAIL END

Using the supplied screws (x2 6-32 Type F Thread Cutting Pan Head), install the TOP RAIL END (Fig. 20)

Fig 18: Install Snap Cover Side View

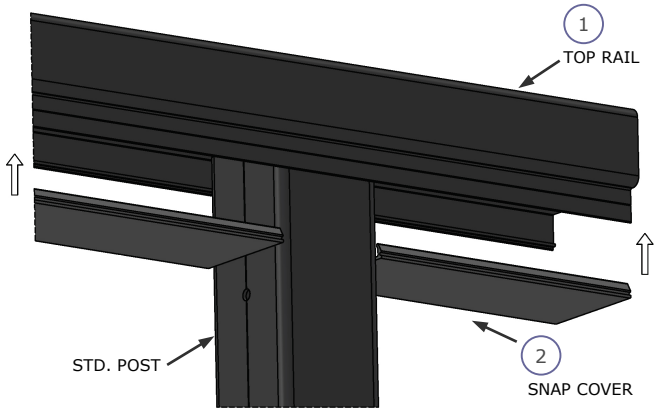


Fig 19: Install Snap Cover Front View

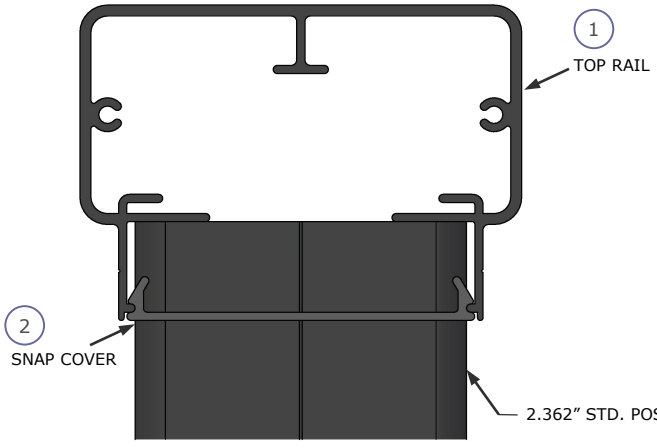
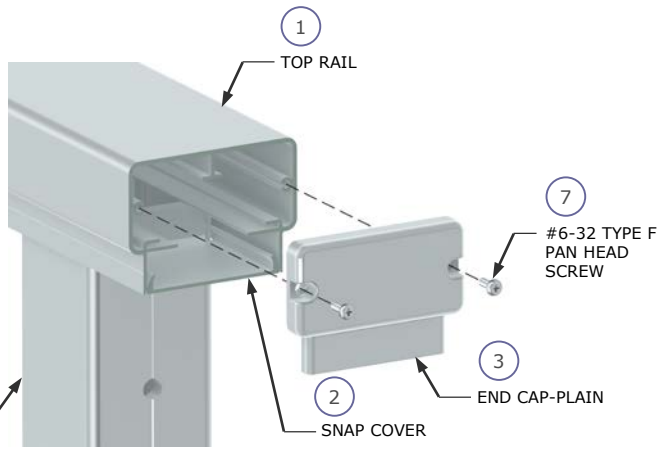


Fig 20: Install Top Rail End



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7. POST-TO-POST & SADDLE BRACKETS (Skip if your design does not include these)

POST-TO-POST RAIL & SADDLE BRACKETS can be used in the following ways:

A. Inline Handrail/Support Rail
B. Stair Rail
C. Stand-Alone Handrail Rail
D. Stand-Alone Top Rail (with or w/o P2P)

7A. INLINE HANDRAIL/SUPPORT RAIL

1 **Post-to-Post Bracket**
ITEM# 984905

2 **Post-to-Post Inline Handrail/Support Rail**
ITEM# 03-010-01

3 **Wood or Composite Top Rail**

4 **Post-to-Post 90° Bracket**
ITEM# 03-019-01

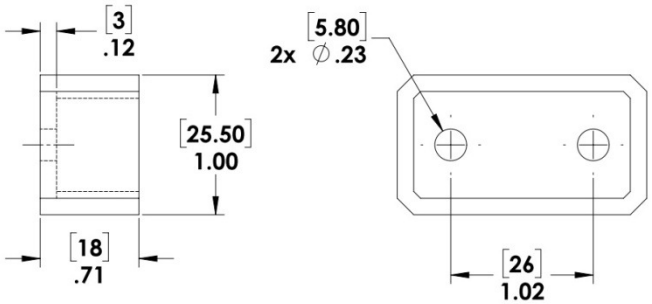
5 **Post-to-Post 45° Bracket**
ITEM# 03-018-01

6 **#8x3/4" Pan Head Tek Screw**

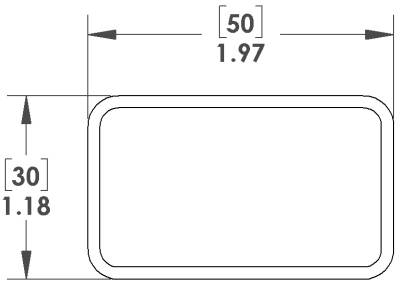
7 **#8x1-1/4" Pan Head Tek Screw**

8 **#10x3/4" Pan Head Tek Screw**

9 **#10x2" Pan Head Screw & Washer**



POST-TO-POST BRACKET



INLINE HANDRAIL/ SUPPORT RAIL

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Fig 21: Post to Post Bracket Installation

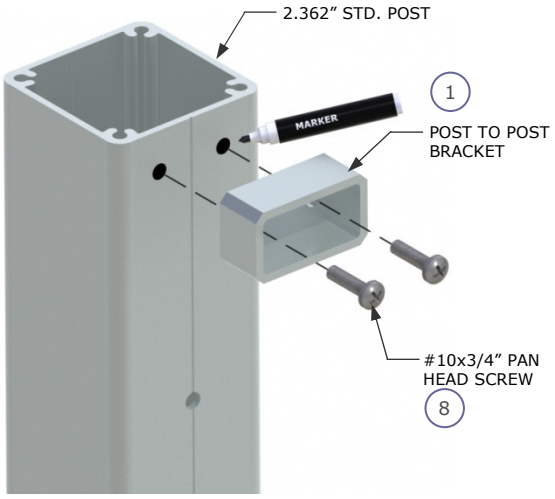
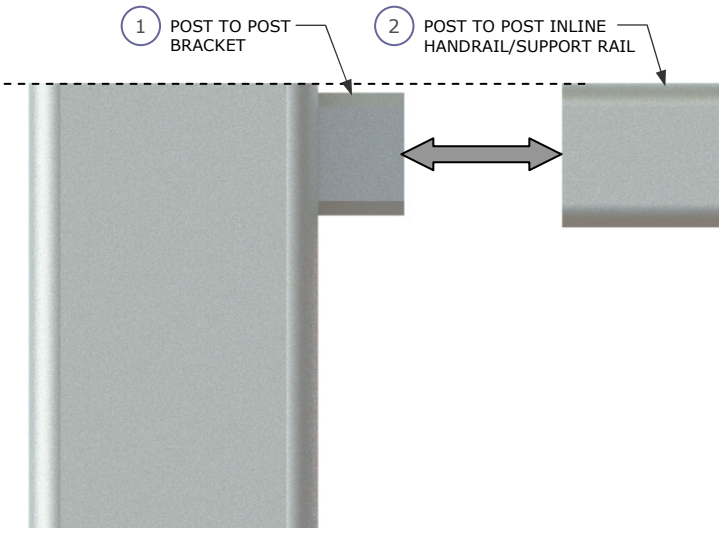


Fig 22: Post to Post Rail Installation



7A-1 Must be installed sequentially starting from the first terminal post. Hold the mounting bracket centered against the inside face of the post, and 1/16" from to the top of the post (Fig 22). Mark with a felt tipped pen the two holes (Fig 21). Center punch the marked holes and drill pilot holes into post to accept x2 #10x3/4" Phillips Panhead Tek 410 SS Screw (included). Using these screws, attach mounting bracket to post (Fig 21). Repeat procedure for the next post. With the chop saw, cut the **POST TO POST RAIL** to length. At this time, loosen or remove anchors to allow the **POST TO POST RAIL** to be inserted over the brackets. Re-tighten the posts.

Fig 23

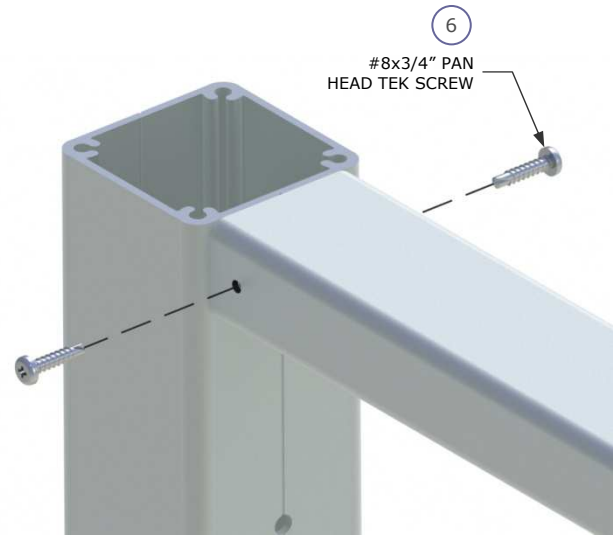
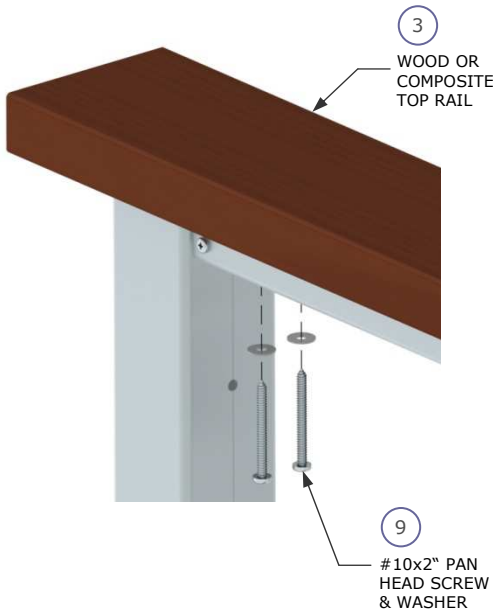


Fig 24



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7A-2 The **POST TO POST RAIL** is then screwed into place by pre-drilling 9/64" pilot holes through the rail into the bracket and securing with x2 #8x3/4" Phillips Panhead Tek 410 SS Screw (Fig 23). A variety of customer supplied top rail wood works well in this application. Usually drilling up from the bottom through the POST TO POST RAIL and screwing into the wood works the best (Fig 24).

7A-3 90 DEGREE POST-TO-POST INSTRUCTIONS

Determine the proper placement of the plastic bracket vertically on the post. This is based on where you plan to attach the Post-To-Post rail.

Insert 2 # 8 x 1 ¼ Tech Screws, hold in position, pushing hard on the corner of the bracket (Fig 25).

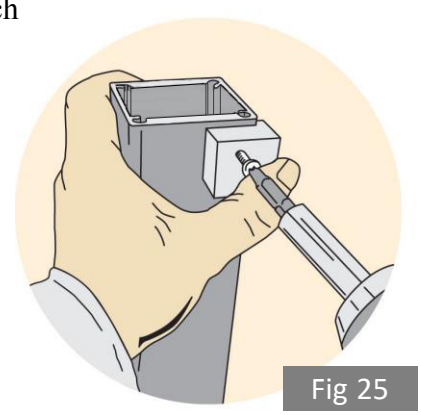

Fig 25

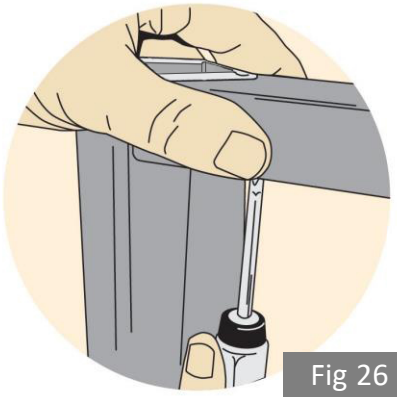

Fig 26

For Intermediate Posts:

Using the proper size Philip driver, power turn each screw until it drills into the post and tightens. (Note: If it proves difficult to drill with the Tech Screws, turn them a few times to mark the locations and drill with 1/8" drill bit.)

For Terminal Posts:

Mark the locations and drill with a 5/32 drill bit. Install custom milled P2P by securing with 1 #8 x 3/4" screw.

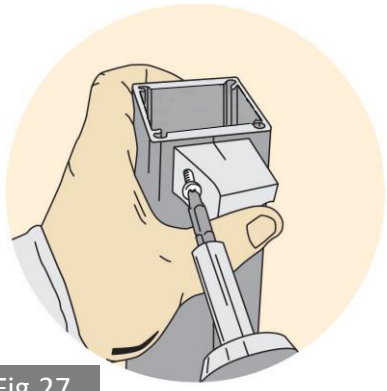

Fig 27

7A-4 135 DEGREE POST-TO-POST INSTRUCTIONS

Determine proper placement of plastic bracket vertically on the post.

Line up the black line on the bracket with the scribe line on the post (Fig 27).

Insert a # 8 x ¾ Tech Screw in the hole on the short side of the bracket and a # 8 1 ¼ Tech Screw in the hole on the long side of the bracket. Turn each a few times to mark the location on the post.

Use 1/8” drill bit to drill through the side of the post at those marks.

Attach bracket with screws using a long Phillips driver.

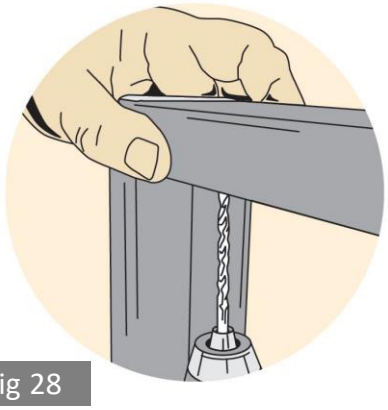

Fig 28

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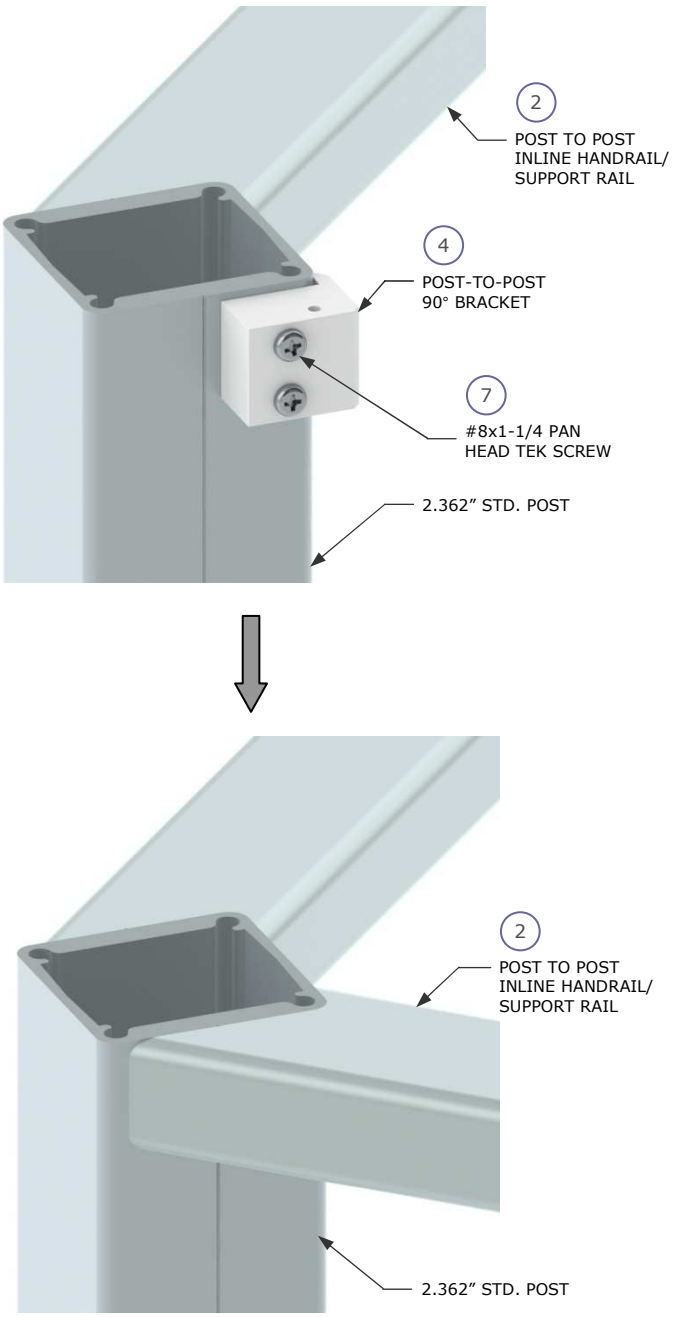
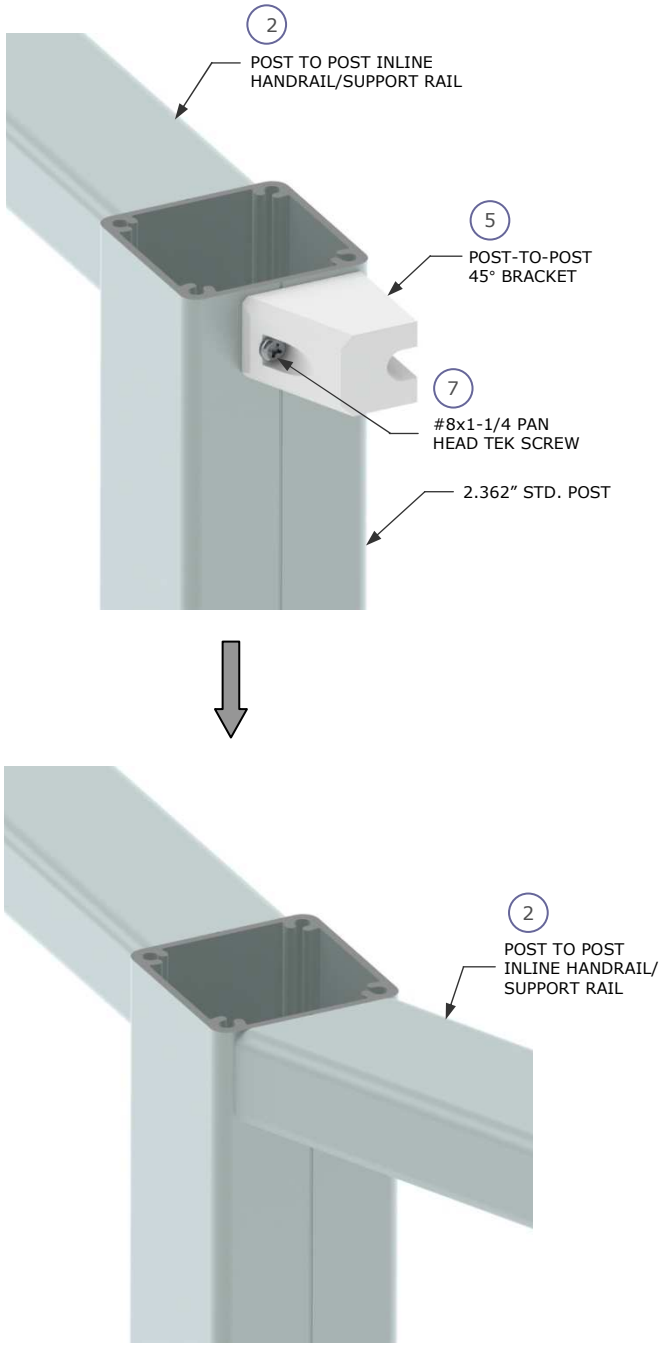
90° POST-TO-POST INSTRUCTIONS



135° POST-TO-POST INSTRUCTIONS



Install corner Post-To-Post piece (cut at proper angle and length) over bracket. Line up rail so it is flush with sides of post.

On the underside of the corner piece, drill through the METAL ONLY with an 11/64" drill bit, exposing the plastic bracket inside (Fig 28).

Drill a 3/4" deep pilot hole into the plastic bracket with a 1/8" drill bit.

Using a Phillips screwdriver, hand screw in # 8 x 3/4" screw.

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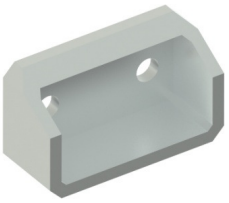
7B. STAIR RAIL

1 **Post-to-Post Inline Handrail/Support Rail**
ITEM# 03-010-01

2 **Hand Rail Saddle Bracket**

3 **Post Cap**
ITEM# 983359

4 **Post-to-Post Bracket**
ITEM# 984929



5 **Wood or Composite Top Rail**

6 **#10x3/4" Pan Head Tek Screw**

7 **#8x3/4 Pan Head Tek Screw**

7B-1 Install top and bottom stair posts first.

Before cutting stair posts to length, keep the following in mind:

- Post-To-Post stair handrail must run continuously between the posts at the head and base of the stairs.
- Posts at the top and bottom of the stairs will be longer than the intermediate posts.
- Finished handrail height must be between 36" (max) and 34" (min).

Fig 29

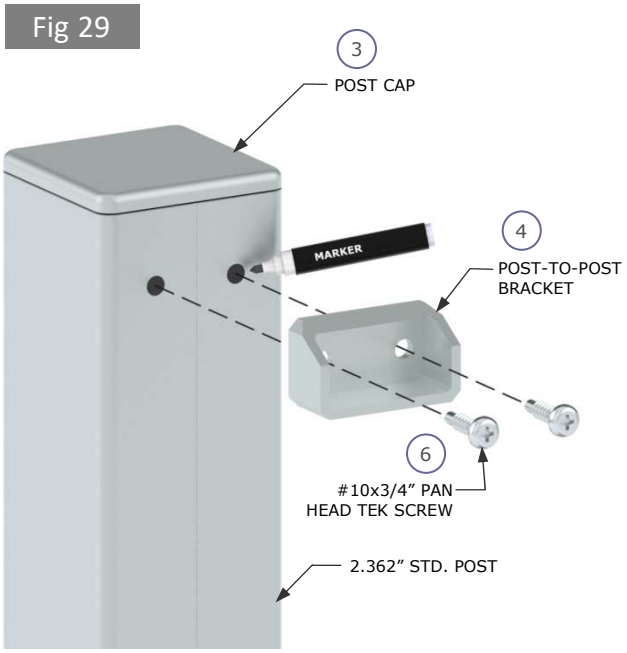
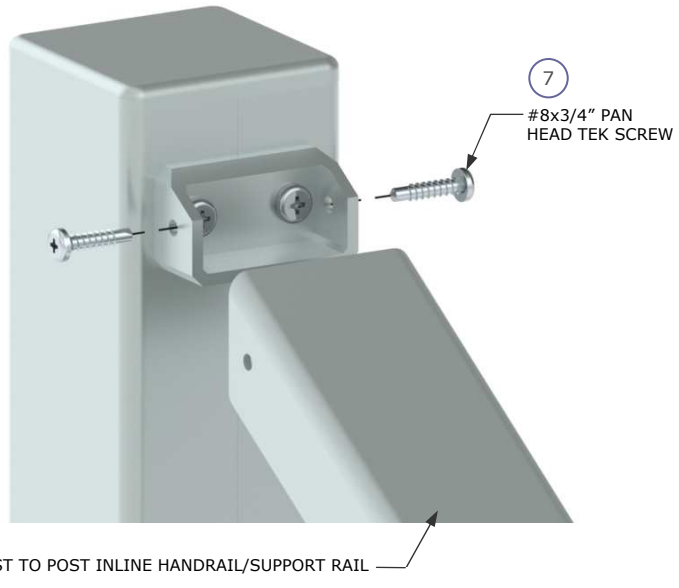


Fig 30



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- Post-To-Post hand rail is often used as a standalone stair hand rail (Fig 31).
- Post-To-Post hand rail can also be combined with a wood top rail (Fig 32).

Fig 31: Post-to-Post Inline Handrail

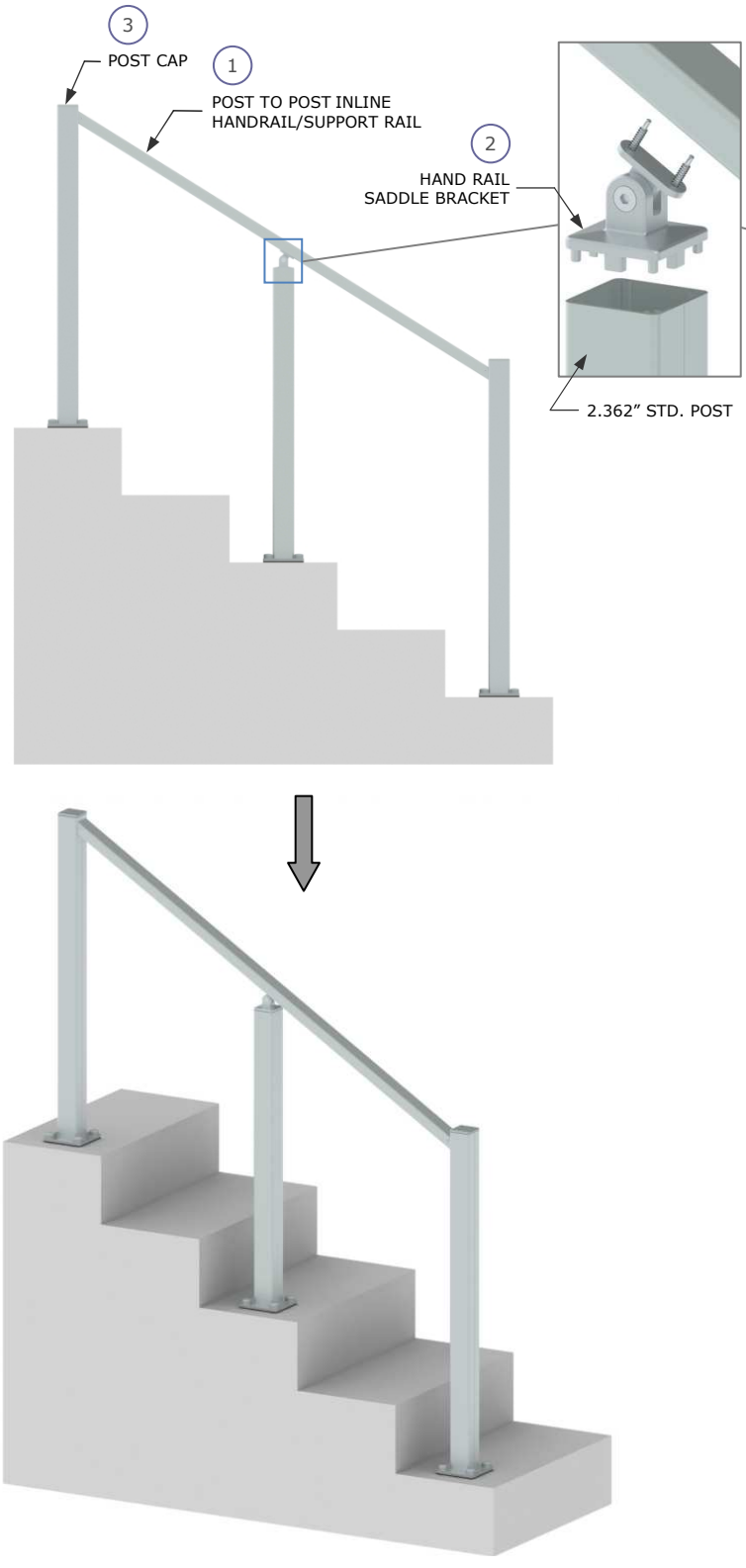
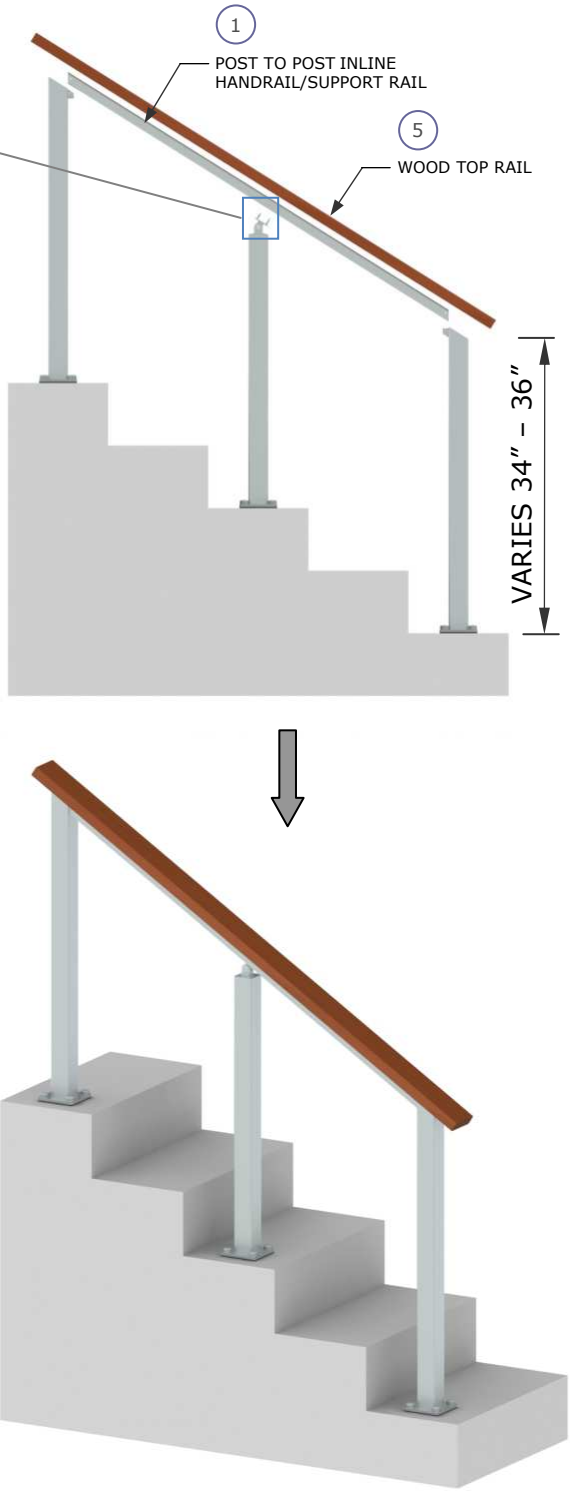


Fig 32: Post-to-Post Support Rail



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7B-2 Determine mounting position for the Stair-Mounting Bracket which will be influenced by stair pitch and the desired position of the Post-To-Post rail (Fig 29).

7B-3 Using the procedure previously described, secure bracket onto post using the supplied screws.

7B-4 Install Post Caps with epoxy applied to the inside cavity of the post, if using a standard handrail (Fig. 30).

NOTE: Use a mallet or dead blow hammer to install the Handrail Saddle Bracket.

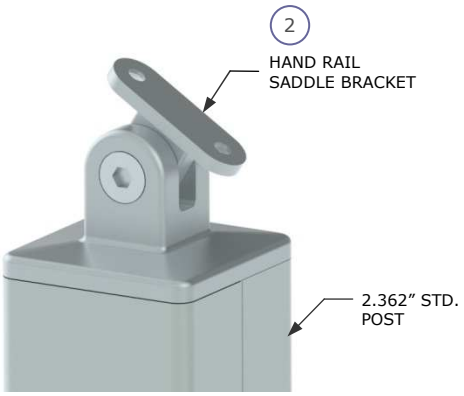

Fig 33

7B-5 Secure each Handrail Saddle Bracket onto each intermediate post and hold in position to mark the holes that will connect the bracket to the underside of the Post-To-Post (Fig 33-34). Unscrew and disassemble the upper portion of the bracket to make it easier to mark and drill holes. Drill 9/64" pilot holes in marked locations. Using the two screws that are provided, screw the bracket into place (Fig 34). Reassemble to finish (Fig 31).

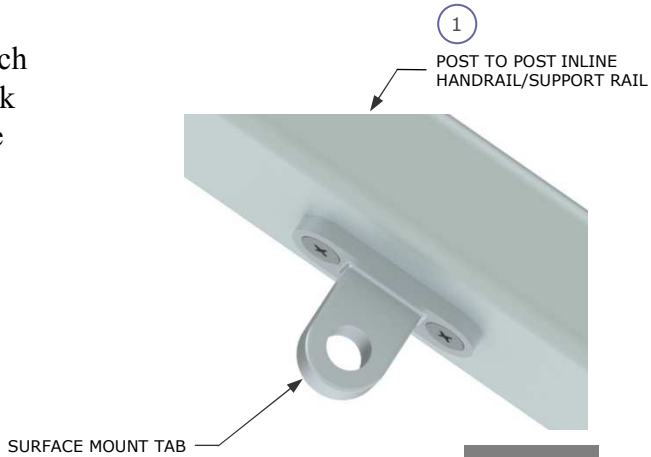

Fig 34

7C. STAND-ALONE HANDRAIL

Use this handrail along walls or attach to your posts as a separate graspable handrail to increase guided support.

Each handrail Assembly includes:

- 1ea Post-to-Post (length varies)
- 2ea Handrail Wall Returns
- Handrail Brackets (quantity varies) w/ Epoxy

1 **POST TO POST HAND RAIL**
ITEM# 03-010-01

2 **HAND RAIL WALL RETURN**

3 **Handrail Bracket**

4 **1/4x1" Flat Head Tek Screw**

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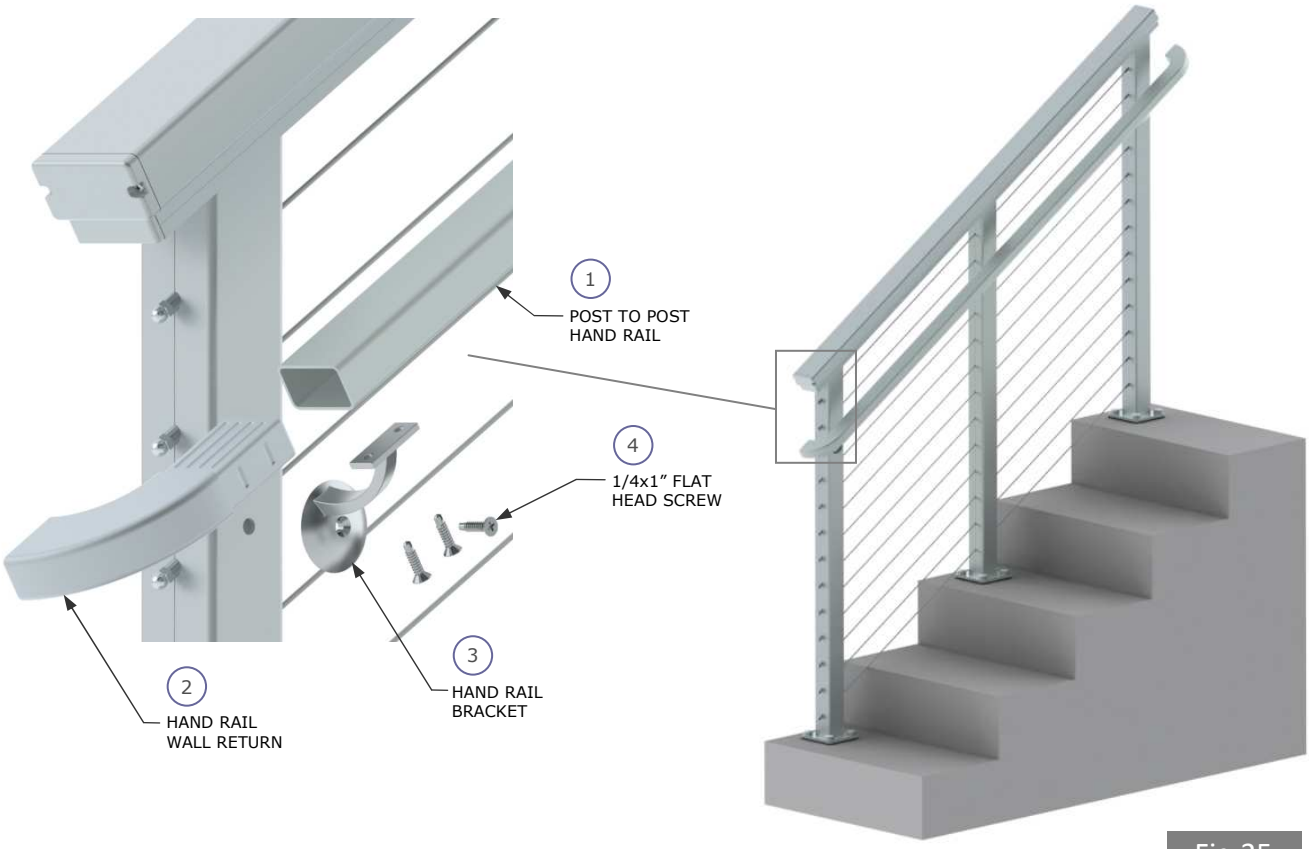

Fig 35

7D. STAND-ALONE TOP RAIL

Use saddle brackets with or without P2P to create a seamless top rail.

Fig 36: Stand-Alone Top Rail with P2P

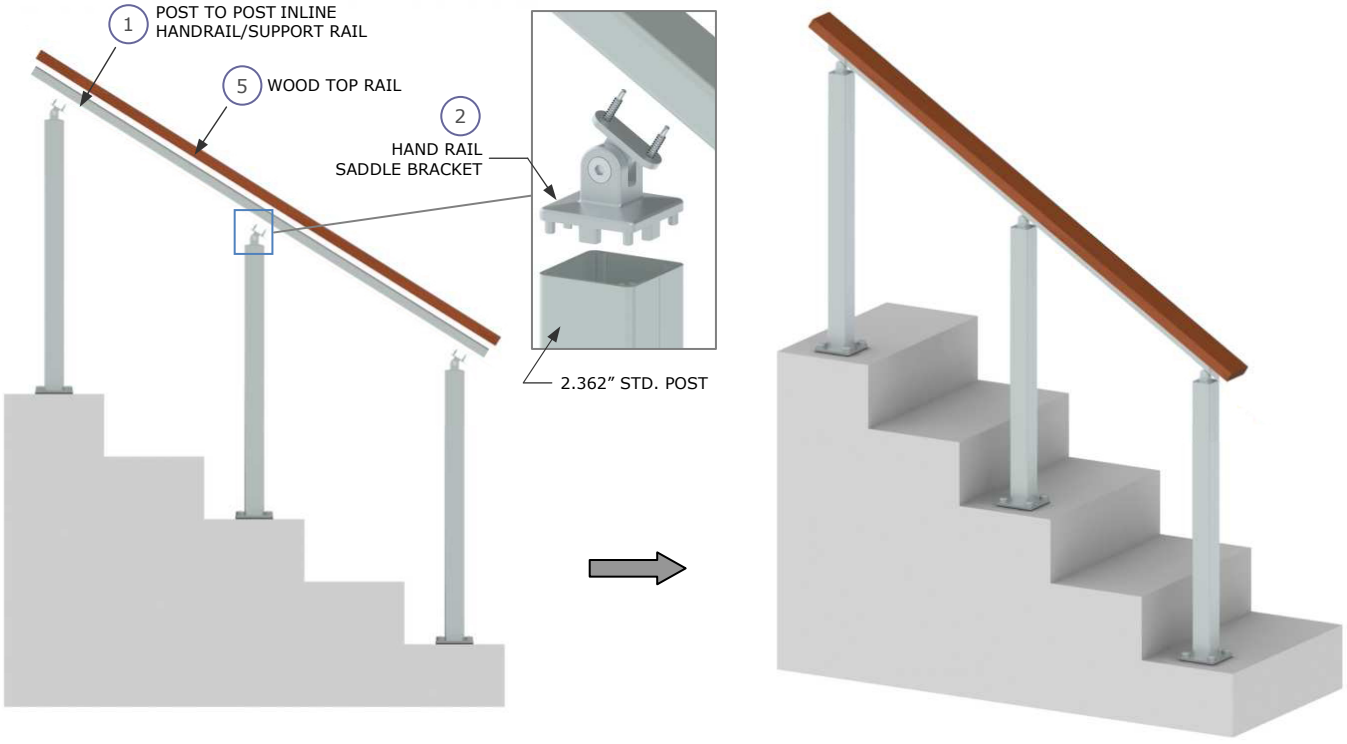

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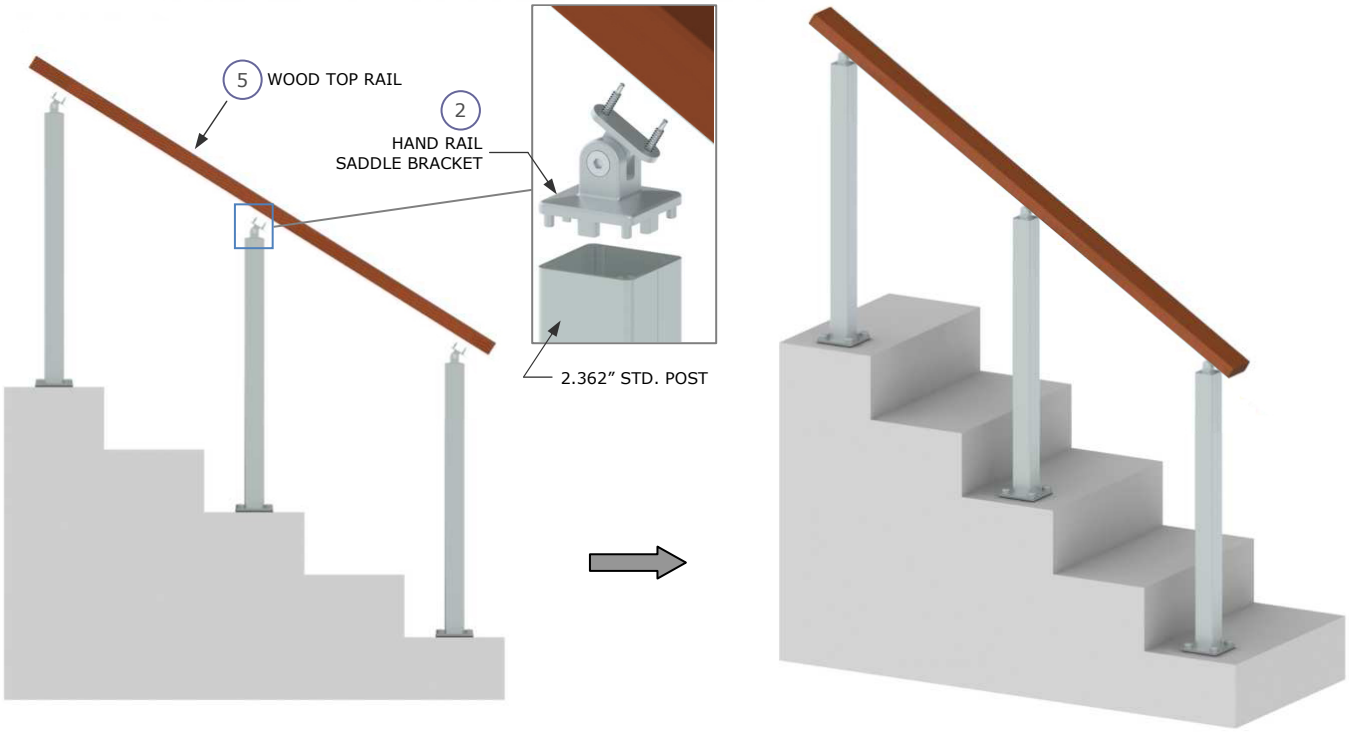
Fig 37: Stand-Alone Top Rail



8. READY FOR CABLES

NOTES:

IF DRILLING YOUR OWN HOLES:
We recommend using the appropriate touch-up paint (Fig 38; sold separately) to coat the fresh-cut edges of the holes ***before*** **installing grommets or cables.** This will help protect against potential corrosion.

Fig 38

IF USING GROMMETS AND/OR PVC SLEEVES:
Follow the steps in our "Grommet & PVC Sleeve Instructions" ***before*** **installing your cable**.

When installing your cables and fittings, refer to the respective instructions for each cablerail assembly (included with your shipment).

Need Assistance?
Call 1-888-686-7245 (RAIL)

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Marine Grade Stainless Steel Maintenance and Cleaning Procedures

Stainless Cable & Railing Inc. offers Marine-Grade Stainless Steel railing frames and cable infill that boast high resilience with little maintenance. The material is in and of itself corrosion resistant thanks to a thin “passive layer” of alloying elements that forms on the surface of stainless steel. While this protective layer is strong enough to withstand typical wear and tear, it's not impervious.

We want our customers to get the most out of their cable railing and encourage periodic maintenance to keep cable infill clean, beautiful, and strong for years to come. This is especially important for exterior applications, particularly those in harsh outdoor environments exposed to salt water, industrial pollutants, de-icing salt spray, atmospheric dirt, traffic film, etc.

Perform the following procedures to keep your railing clean and preserve your warranty. You can purchase the necessary supplies through our store individually or together in a kit. Make sure to read the “WARNINGS & TIPS” on the second page.

Initial / Periodic Cleaning:

Follow this procedure immediately after installing your railing.

1. Spray CitriSurf® onto your frames and/or cables and wipe down using a clean, soft cloth.
2. Once all stainless surfaces have been cleaned and passivated using the CitriSurf® prepare Rust Rescue 200 by shaking or stirring the mixture.
3. Using a clean, soft cloth, sprayer, brush, or roller, apply Rust Rescue to your stainless steel frame and/or cables. Wear gloves while handling Rust Rescue (during steps 3-4), as it can cause skin irritation for some people.
4. Wait 2-3 minutes, then wipe off excess.
5. Allow the remaining solution to dry completely. A hot air oven, hair dryer, or other drying medium may be used to accelerate this process.

Repeat this procedure on a regular basis as needed to keep your stainless steel bright and shiny. For coastal applications, we recommend this be done every 2-3 months or so, depending on necessity.

General Cleaning:

Remove finger prints and other marks generated from daily use as needed. Apply mild soap and water or glass cleaner to area using a clean cotton cloth or chamois. Rinse clean with water and dry completely.

Oil, Grease, and Residue Cleaning:

Remove oil, grease, or residue left from other cleaning materials (such as floor cleaner or polishing detergents) as soon as possible. Apply alcohol-based products (including methylated spirit and isopropyl alcohol) or other solvents (such as acetone) several times using a clean, non-scratching cotton cloth until all traces have been removed. Use Aluminum Oxide Scotch Brite if necessary. Rinse clean with water and dry completely.

Paint and Graffiti Cleaning:

Remove as needed using proprietary alkaline or solvent-based paint strippers. Apply chosen cleaning solvent several times with a clean, non-scratching cotton cloth until all traces of paint have been removed. Use Scotch Brite if necessary. Rinse clean with water and dry completely.

Salt Film and Environmental Deposit Cleaning:

Perform cleaning regularly in consideration of environmental conditions and the rate of deposit build up. Use a clean cotton cloth with CitriSurf® solution (available in our store) to remove contamination. Apply cleaner evenly across cables to avoid a patchy appearance. Rinse clean with water and dry completely. Follow up with the Rust Rescue application procedure detailed in "Initial / Periodic Cleaning" on the previous page. Use Aluminum Oxide Scotch Brite if necessary.

WARNINGS & TIPS

- Avoid use of the following products, as they will harm your cables:
  - Chloride-containing cleansers
  - Hypochlorite bleaches. Should accidental contact occur, rinse off immediately with copious amounts of fresh water.
  - Muriatic acid (commonly used to clean up tile/concrete installations)
  - Silver-cleaners
  - Scouring powders
  - Hard scrapers or knives
  - Non-stainless steel-based scouring pads, cleaning wool, or wire brushes
  - Any cleaning utensils that have been used on “ordinary” (carbon) steel, as this may result in iron particle “cross-contamination”

- Do not leave stainless cables or fittings in contact with steel, iron, or any other metals, as this will cause rusting due to free-iron transfer. If your frame is made of a material other than stainless steel, use protective grommets or sleeves (which can be found in our store) to keep the metals from coming into contact.

Please follow these procedures to get the most out of your stainless steel frames and cable infill by Stainless Cable & Railing Inc.

If you have any questions, call us any time at 1-888-686-7245.

CitriSurf is a registered trademark of Stellar Solutions, Inc., McHenry, IL US