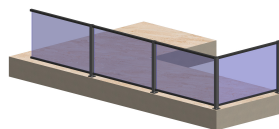


Installation Instructions For eGlass® Element™

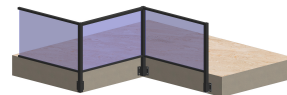
Assembly & Installation Steps:

1. Installation Preparation (p.2-3)
2. Review Railing Components (p.4-6)
3. Review the Drill Guide (p.7)
4. Install Deck Mount Posts (p.7-8)
5. Install Fascia Mount Posts (p.9-11)
6. Cut RCBs for Stairs (p.12)
7. Mark RCB Locations (p.12)
8. Attach RCBs to Posts (p.13)
9. Measure & Cut Rails (p.14)
10. Install Bottom Rail (p.14)
11. Install Top Rail (p.14)
12. Insert Glass Vinyls (p.15)
13. Install Underside Cover (p.15)
14. Insert Glass Panels (p.16)
15. Insert Glass Stoppers (p.16-17)
16. Drill Weep Holes (p.17)
17. Install Post Caps (p.17)
18. Care & Maintenance (p.17)

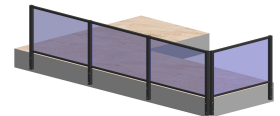
eGlass® Element™ Mounting Options



Deck Mount

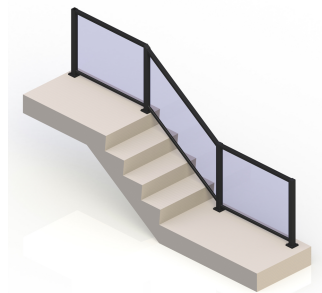


Fascia Mount

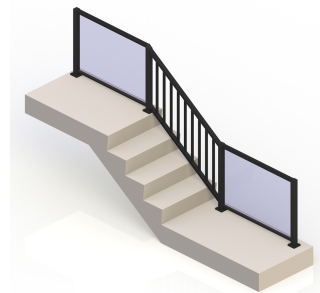


Fascia Mount w/o Brackets

eGlass® Element™ Stair Options



Stair Transition with Glass



Stair Transition with Pickets

Purchaser has the full responsibility to comply with local, national, and international building codes. Purchaser shall comply in all respects with all applicable legal requirements governing the duties, obligations, and business practices of their localities and shall obtain any permits or licenses necessary for their operations. In no event shall eGlass LLC be liable for any direct, indirect, punitive, incidental, special, or consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products. Purchaser shall not take any action in violation of any applicable legal requirement that could result in liability being imposed on eGlass LLC. Any liability imposed by eGlass LLC shall be limited to the amount of insurance carried by eGlass LLC that may be applicable to such claims as may arise.

eGlass railing system components meet all building guidelines for structural strength and usability and can easily be assembled on-site. The railing system components are made of aluminum, providing a long-term low maintenance system.

Installation Instructions For eGlass® Element™

It is the responsibility of the installer to meet and/or exceed all code and safety requirements and to obtain all required building permits. The deck and railing installer should determine and implement appropriate installation techniques for each installation.

Refer to www.eglassrailing.com to ensure that you are viewing the most recent installation instructions.

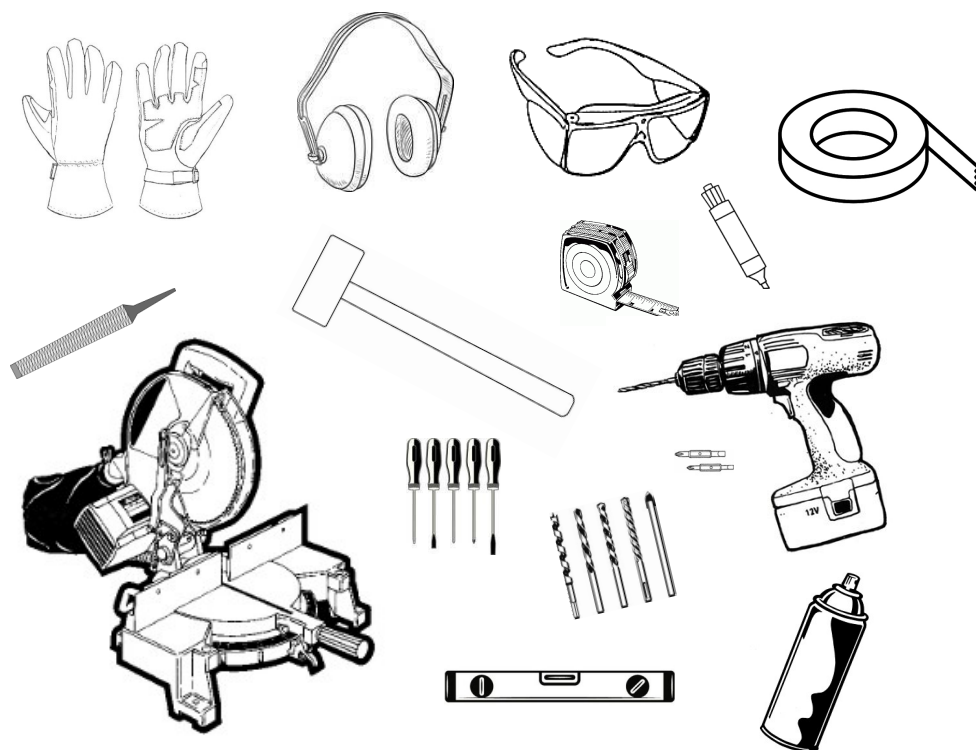
Step 1: Installation Preparation

- Match all components to the packing slip and inspect to ensure none are missing or damaged.
- Gather recommended tools and supplies.
- Measure twice before cutting any component.

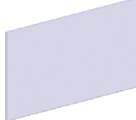
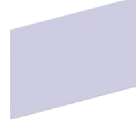







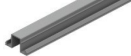













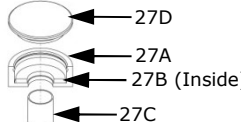
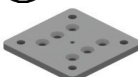





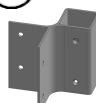
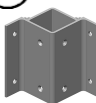
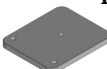
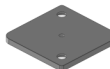
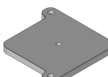








Tools Needed

- Safety glasses
- Ear protection
- Gloves
- Measuring tape
- Felt tip marker
- Chop saw
- Level
- Small file
- Electric drill
- Drive bits
- Drill bits
- Dead blow hammer
- Painter's tape
- Screw driver kit
- Foam glass cleaner
- Touch up paint

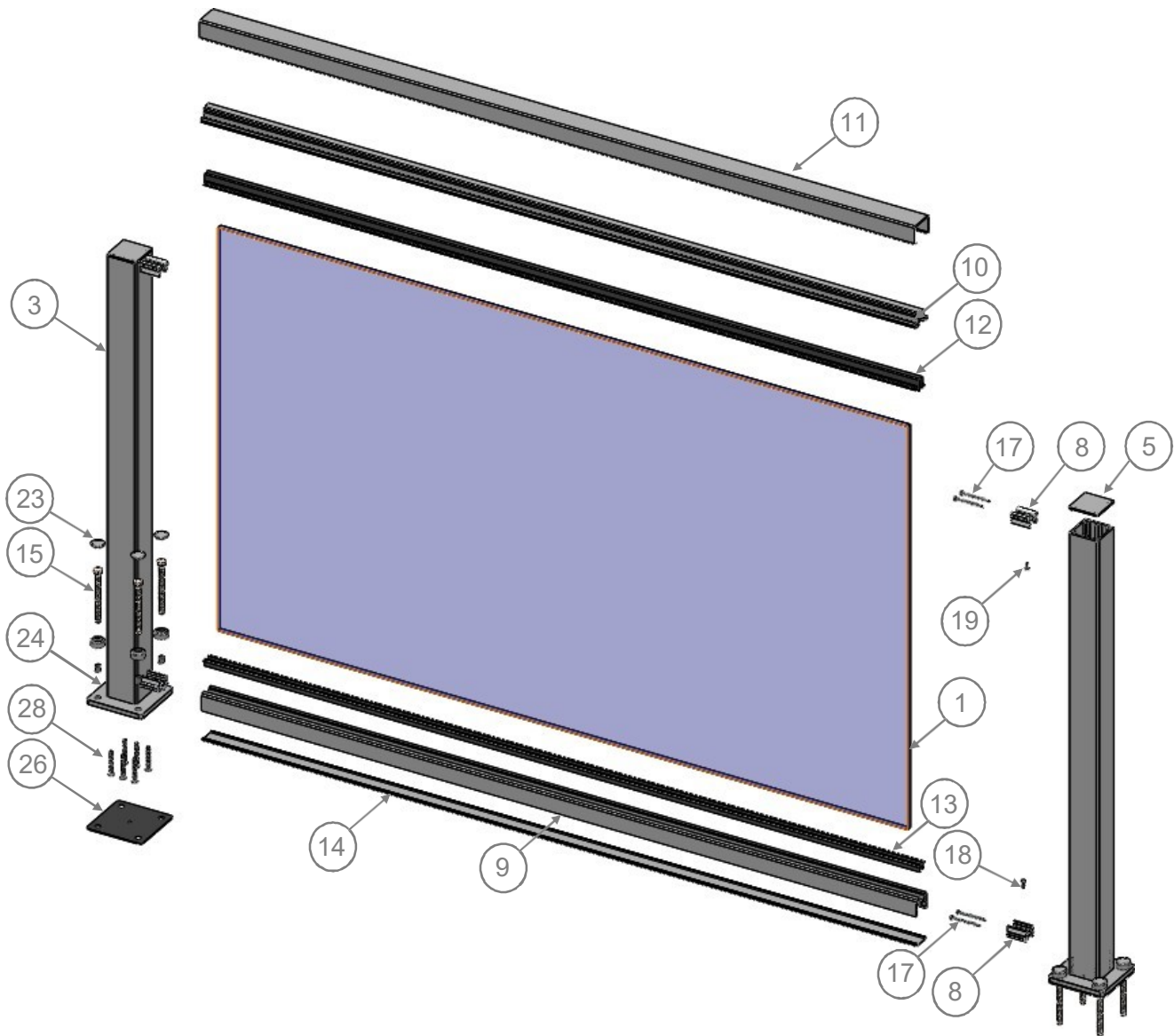


Installation Instructions For eGlass® Element™

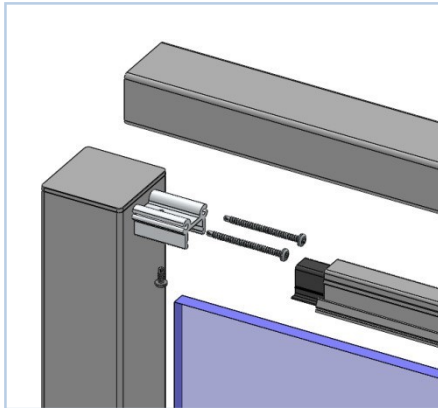
<div></div> <div><div>①</div><div>3/8" Tempered Glass Panels</div><div>(3/8" Glass Thk.)</div></div> <div><div>32.5" Height</div><table><thead><tr><th>Width</th><th>ITEM 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		<div></div> <div><div>④</div><div>135-Deg Post</div></div> <div><div>ITEM No.</div><div>AADF-AP-36</div><div>AADF-AP-48</div><div>AAAA-AP-56</div></div> <div><div>Trim as needed</div></div>	<div></div> <div><div>⑤</div><div>Post Cap</div></div> <div><div>ITEM No.</div><div>AAAA-PC-01</div></div>																																																																																																																																																									
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<div></div> <div><div>⑪</div><div>Top Rail</div></div> <div><div>ITEM No.</div><div>800S-TR-01</div></div> <div><div>Trim as needed</div></div>	<div></div> <div><div>⑫</div><div>Top Rail Glass Vinyl</div></div> <div><div>ITEM No.</div><div>AAAA-TV-31</div><div>AAAA-TV-01</div></div> <div><div>Trim as needed</div></div>	<div></div> <div><div>⑬</div><div>Bottom Rail Glass Vinyl</div></div> <div><div>ITEM No.</div><div>AAAA-BV-31</div><div>AAAA-BV-01</div></div> <div><div>Trim as needed</div></div>	<div></div> <div><div>⑭</div><div>Underside Cover</div></div> <div><div>ITEM No.</div><div>AAAA-UC-01</div></div> <div><div>Trim as needed</div></div>	<div></div> <div><div>⑮</div><div>3/8" Thru Bolt</div></div> <div><div>ITEM No.</div><div>STD-HB-375</div><div>STD-HBME-375</div></div>																																																																																																																																																								
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Installation Instructions For eGlass® Element™

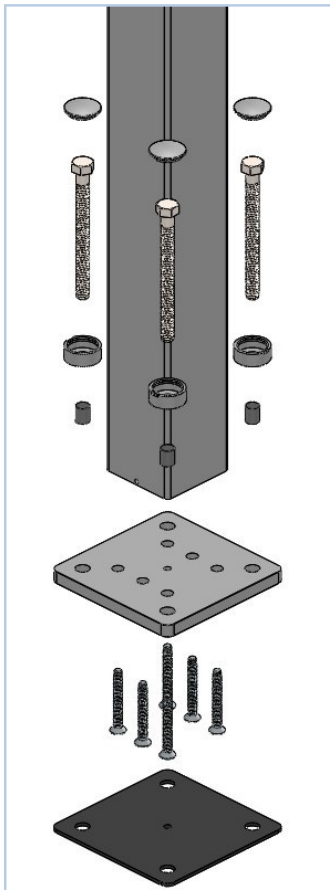
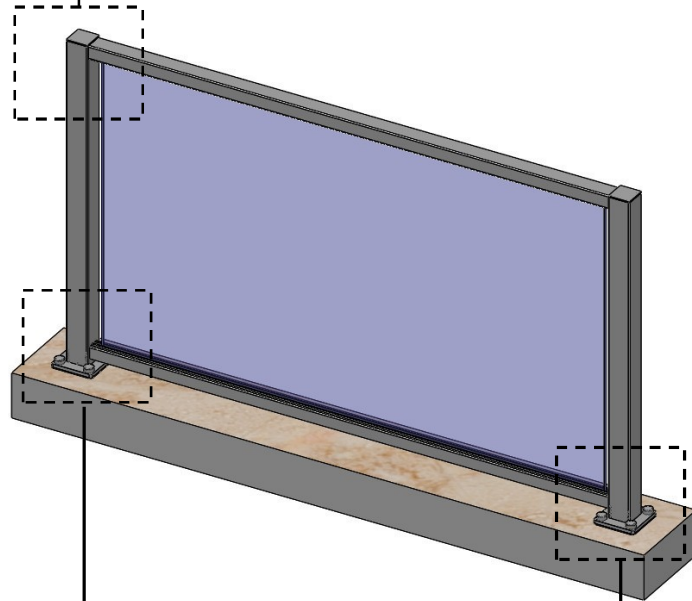
Step 2: Review Railing Components



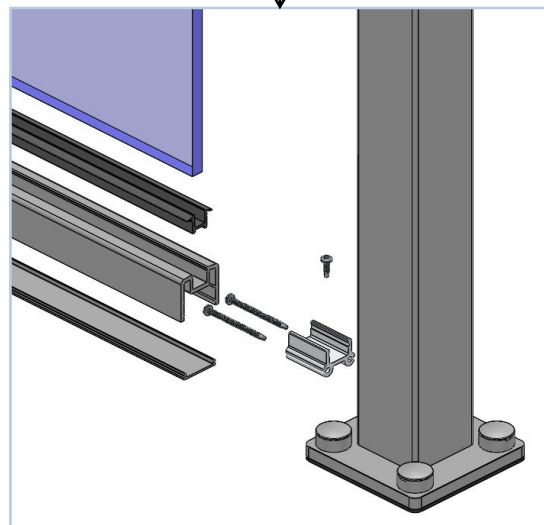
Installation Instructions For eGlass® Element™



Top Rail Connection

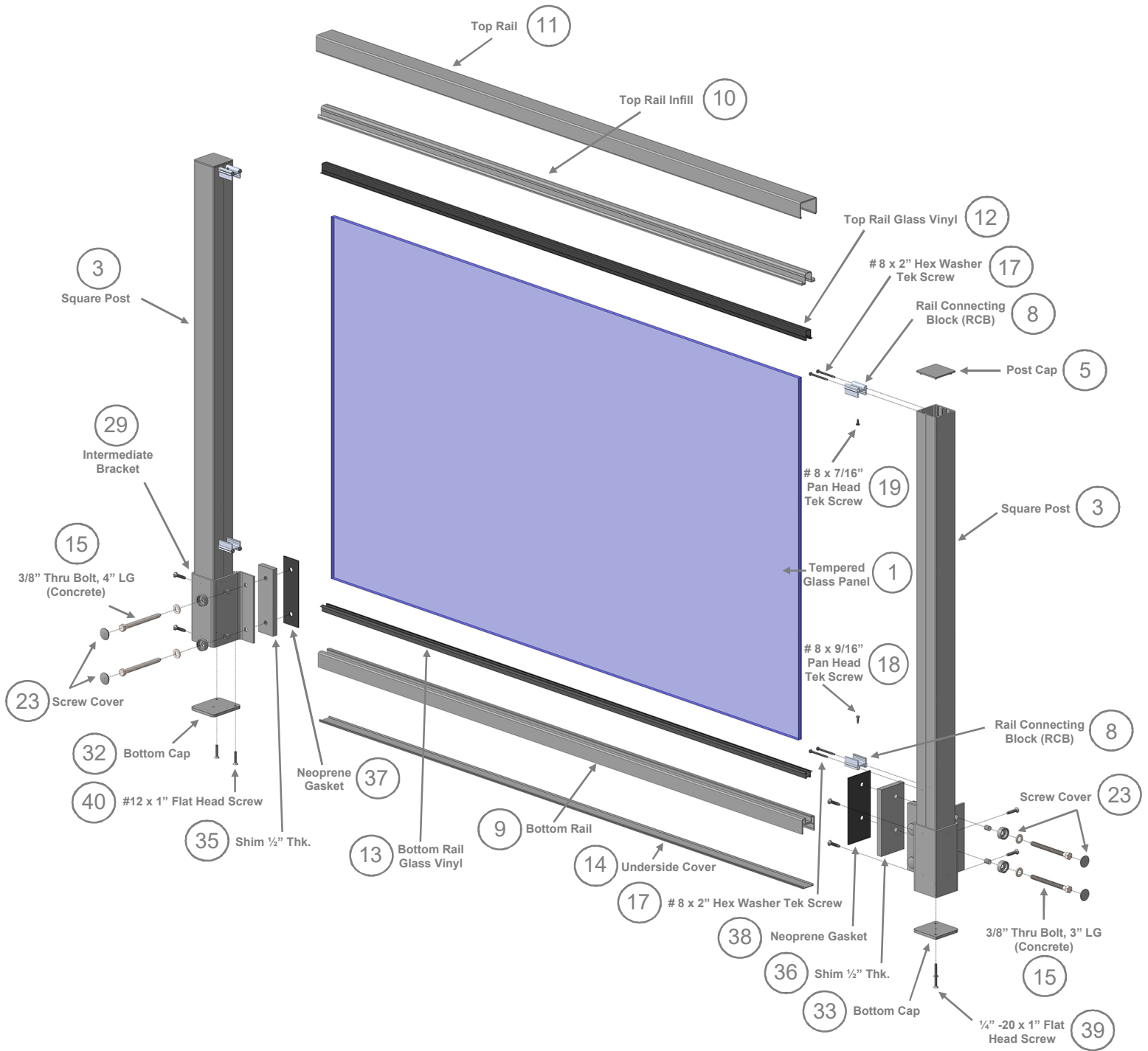


Deck Mounting Connection



Bottom Rail Connection

Installation Instructions For eGlass® Element™



Installation Instructions For eGlass® Element™

Step 3: Review the Drill Guide

Drill Guides (21) are meant to be used with all inline eGlass Railing™ Systems, therefore it is very important to pay attention to the notations on the drill guide to ensure you are cutting and drilling correctly.

NOTE: Deck Mount cutting notations are in **Blue**. Fascia Mount cutting notations are in **Red**.

The notched numbers on one end of the Drill Guide are color-coded depending on railing system and mounting style.

NOTE: The numbers are NOT in numerical Order.

NOTE: Do NOT use drill guides on stairs. Instead refer to your Customer Detail Form.

Step 4: Install Deck Mount Posts(SKIP IF SYSTEM IS FASCIA ONLY)

4A. Review Layout & Mark Deck

- Review your eGlass Installation Layout Detail to verify exact post placement for your project.
- Note the locations of deck ends and corners, as well as any other critical locations. Begin with the furthest corner from the house.
- Some shimming, additional framing, or blocking may be necessary to securely attach base plates or fascia brackets.
- Make sure to maintain a gap of not more than 4" anywhere in the railing.

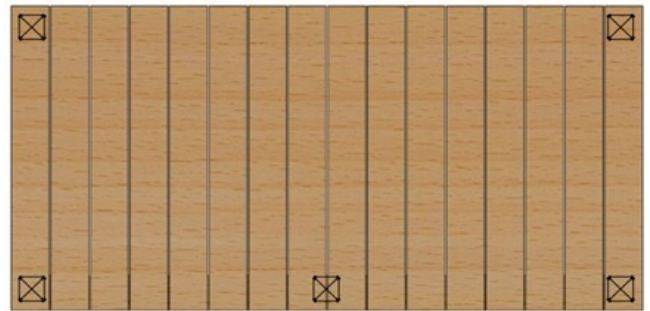


Fig 1

4B. Measure & Cut Deck Mount Posts

- Select a post blank (3) and identify the post type. If the post is for an inline run, select the appropriate Drill Guide (22) and follow the steps below. If the post is for a stair run, reference your Customer Detail Form instead to determine final cut height, then follow the steps below regarding post cutting and touch-up advice.
- Place the Drill Guide (21) on the post, as shown in Figure 2. Tape the Drill Guide to the post using painter's tape.

NOTE: Always use painter's tape. Other tapes may damage powder coat and/or leave sticky residue.

- Only use the Drill Guide on the scribe side of the post according to Figure 2.
- Use the drill guide instructions to mark the required height of the post.
Example: Drill Guide 3 represents post height for eGlass Element™ (Deck Mount).

- Cut the post according to the marking using a miter saw.

NOTE: We recommend a carbide-tipped blade with 60 teeth or more.

- Make sure your saw is set properly to ensure your cut is square.
- File cut end. Then use touch-up paint to protect the cut end from corrosion.

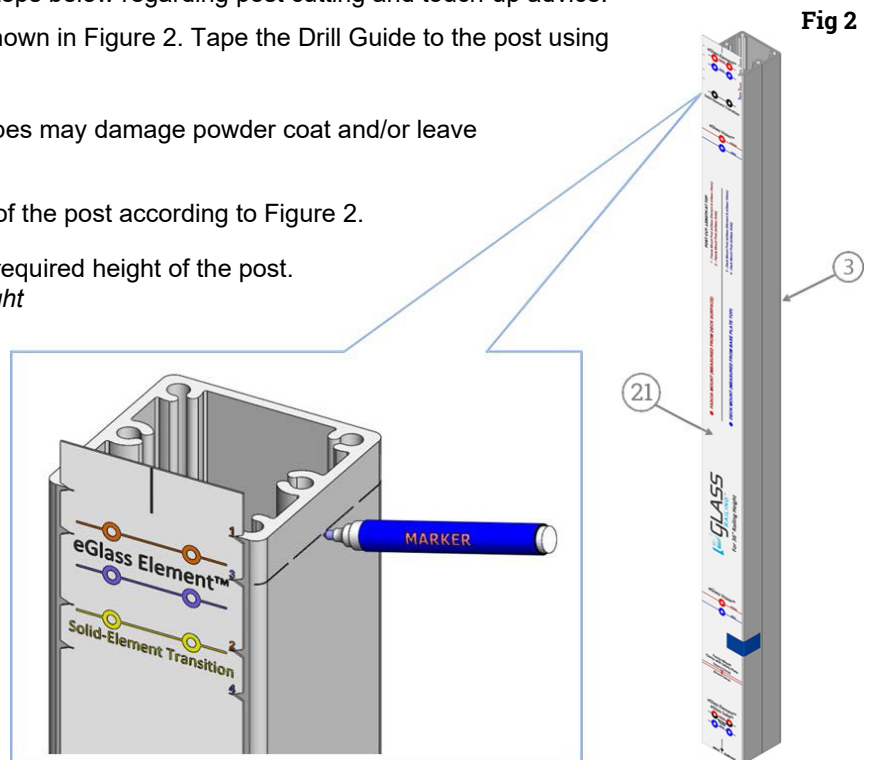


Fig 2

Installation Instructions For eGlass® Element™

4C. Attach Base Plate to Post

- Turn the post (3) upside down on a hard surface and attach the base plate (24) to the post using six 1/4"-20 x 1.75" Flat Head TF Screws (28).
- Tighten the base plate firmly onto the post.

NOTE: An impact driver is recommended for this step.

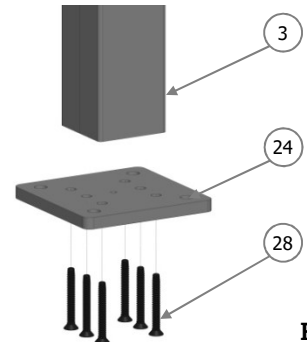


Fig 3

4D. Attach Post Assembly to Deck

NOTE: Only install enough posts to install one glass panel at a time. This will ensure spacing between posts is correct for each pane of glass.

- Scribe line of post should always face inside.
- Make sure the six screw chase slots on each post are lined up parallel to the deck
- Square up the post with the deck surface and mark all four base plate holes with a marker.

NOTE: The outside mounting screws for the post base plates must be able to screw into the perimeter deck joist. Position post base plates far enough from the edge of the deck to enable this. Failure to screw into the deck joist will weaken the installation.

- Using the marks as a guide, pre-drill four holes for the anchor hardware (Refer to Fig 5 to ensure correct drill is used).
- Remove the backing from the base plate pad (26) and attach the pad to the base plate.

NOTE: Use painter's tape around the base of the post to protect it while using the drill.

- Place washer (23B) into screwbase (23A)

NOTE: Ensure that screw base slot faces outward so that caps can be removed.

- Place sleeve (23C) onto anchor hardware (15 or 16).
- Fasten the base plate to the deck using chosen hardware (15 or 16).
- Shim your post using base plate shim kit (20) as needed to ensure the post is plumb.

NOTE: Bolt torque can be varied in order to plumb post.

- Continue tightening the anchor bolt until the bead is firmly seated against the post base plate. Do not overtighten.

NOTE: Do not install screw cap covers (23D) until the rest of the railing install has been completed.

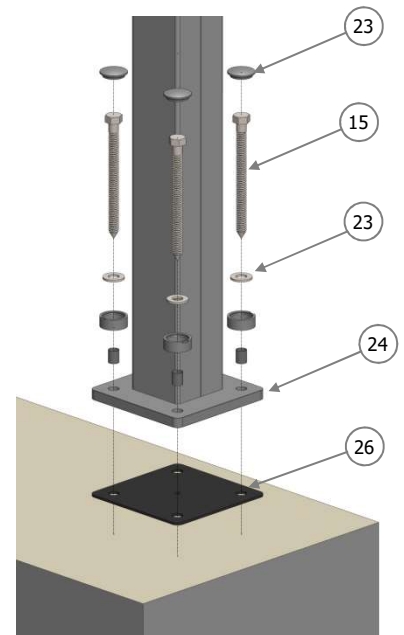


Fig 4

Repeat Step 4 for the entire deck.

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"

Fig 5

Installation Instructions For eGlass® Element™

Step 5: Install Fascia Mount Posts (SKIP IF SYSTEM IS DECK MOUNT ONLY)

5A. Review Layout & Mark Deck

Review the project layout drawings and note the locations of deck ends and corners as well as any other critical locations.

- Locate and mark center of an end post or corner post to start the railing installation.
- Make sure to maintain the gap not more than 4" between the post and wall.



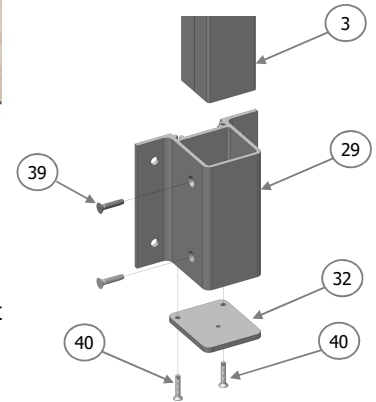
Fig 6

5B. Mount Fascia Brackets

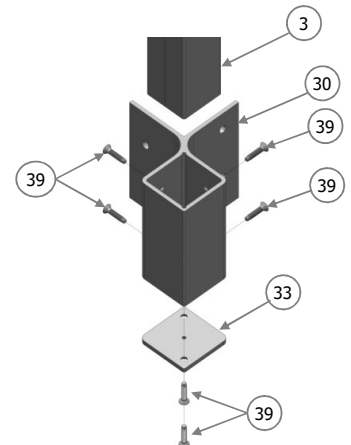
NOTE: Only install enough brackets to install one glass panel at a time. This will ensure spacing between posts is correct for each pane of glass.

- If you are not using fascia bracket shim stacks (35, 36), attach the rubber pads (38, 39) to your fascia brackets (29, 30, 31) prior to installation. If shim stacks are being used, attach the rubber pads to the shim stacks and place between the bracket and fascia board with the rubber pad facing the board.
- Prepare corner brackets (30, 31, 33, 34, 36, 38; if included). Place the bracket(s) at desired height (centered as typical) on fascia board and mark drill locations.
- Prepare inline brackets (29, 32, 35, 37):
 - Pre-mount post inside inline bracket using FH TF screws (39)
 - Place bracket at desired height (centered is typical) at the correct distance for correct post spacing. Mark one hole location, remove bracket, then drill hole.
 - See Fig 5 (previous page) for correct drill sizes.
 - Use mounting hardware to temporarily attach fascia bracket to deck through this hole. Using a level, rotate the bracket until the post is plumb. Mark drill locations for the other three holes.
 - Remove the bracket and drill pilot holes.
- Starting from corner or end of railing, mount fascia brackets according to the supplied customer installations layout.
 - Place the Shim Stacks (if used; 35, 36) and Neoprene Gaskets (37, 38) between the Fascia Brackets (29, 30, 31) and deck. Make sure you are using the right gaskets and shims for each fascia bracket type. Reference Fig 7 for assistance.
 - For inline brackets, place screw base (23A), washer (23B), sleeve (23C) before installing the mounting hardware (15, 16).
 - Continue tightening the anchor bolts until the heads are firmly seated against the bracket surface. Do not over tighten.

NOTE: Do not install bolt cover caps (23D) until the end of install. Bolt torque will be varied in a later step to further plumb posts.



Intermediate bracket



Outside Corner bracket

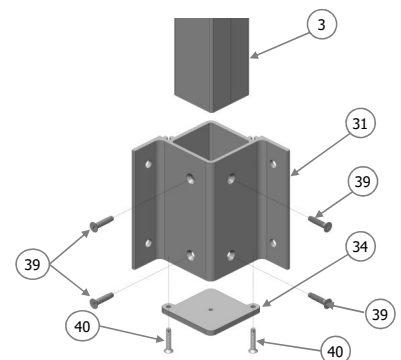
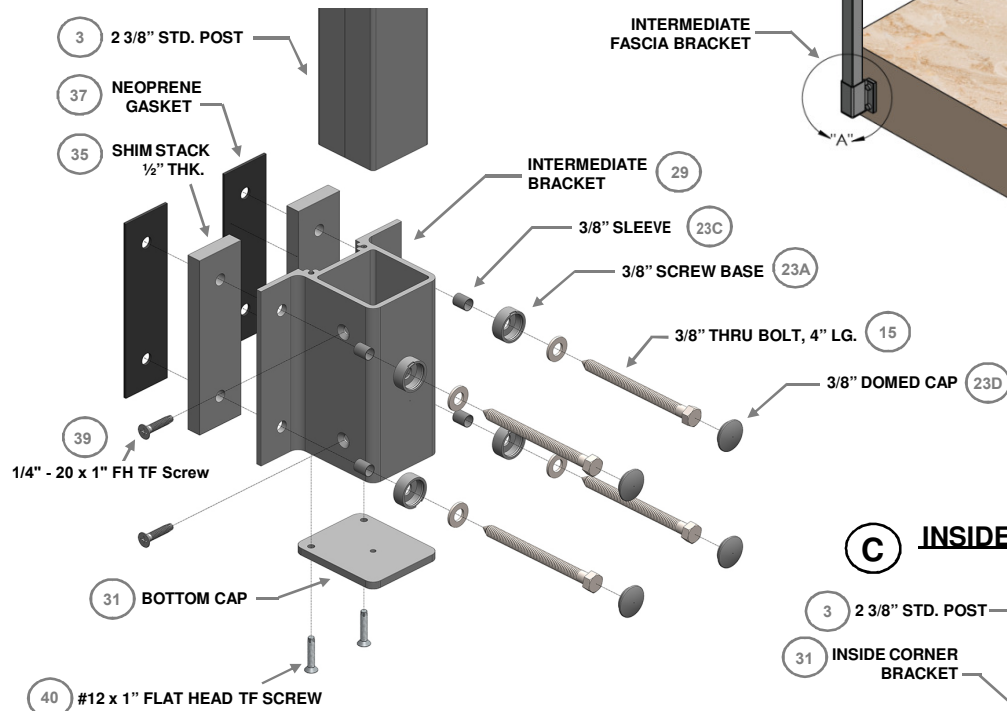


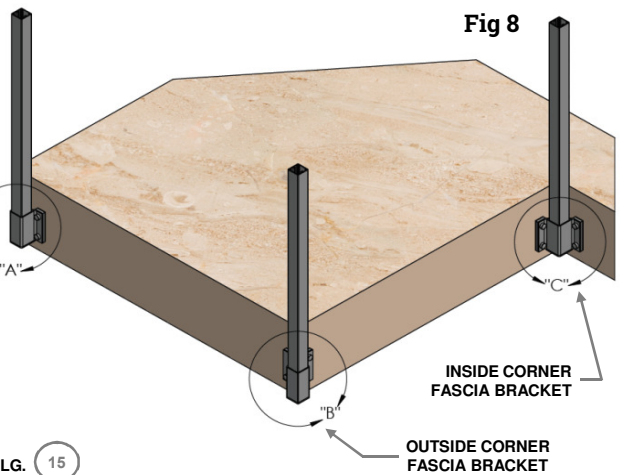
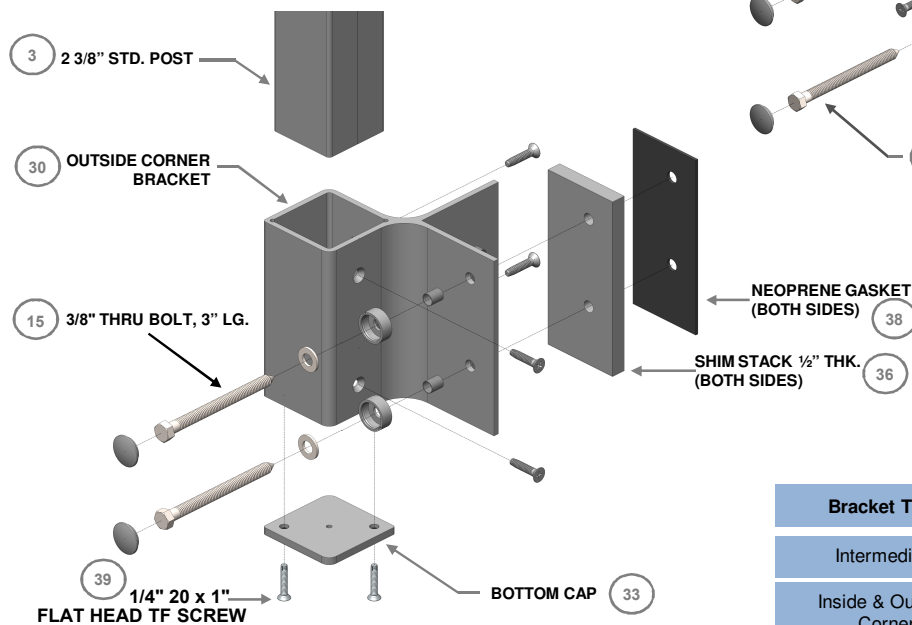
Fig 7 Inside Corner bracket

Installation Instructions For eGlass® Element™

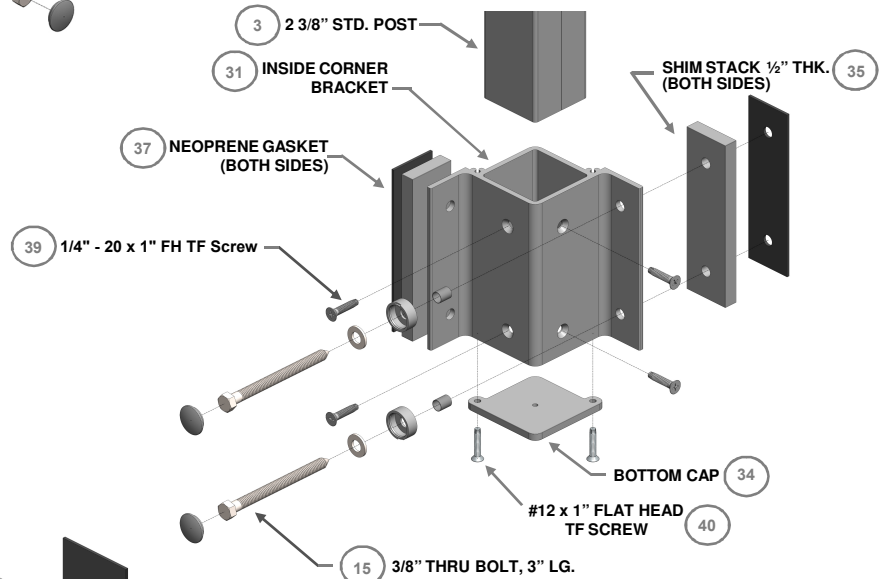
A INTERMEDIATE FASCIA BRACKET MOUNTING DETAIL



B OUTSIDE CORNER FASCIA BRACKET MOUNTING DETAIL



C INSIDE CORNER FASCIA BRACKET MOUNTING DETAIL

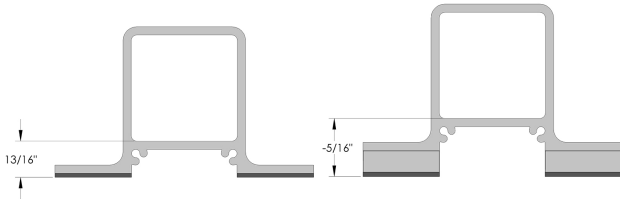


Mounting Bolts/Lag Screws

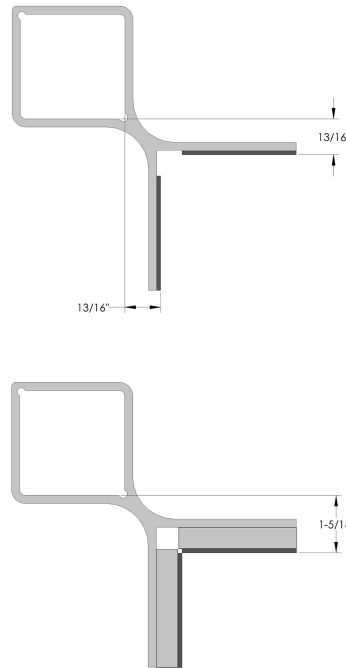
Bracket Type	Wood	Concrete
Intermediate	STD-AC-05	STD-AC-06
Inside & Outside Corner	STD-AC-08	STD-AC-07

Installation Instructions For eGlass® Element™

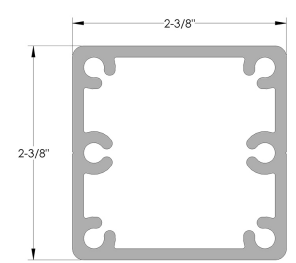
INTERMEDIATE FASCIA BRACKET



OUTSIDE CORNER FB



STANDARD SQUARE POST



INSIDE CORNER FASCIA BRACKET

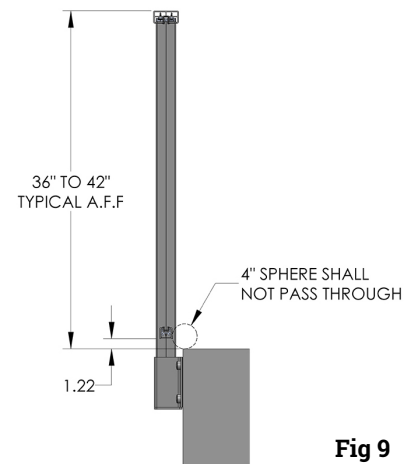
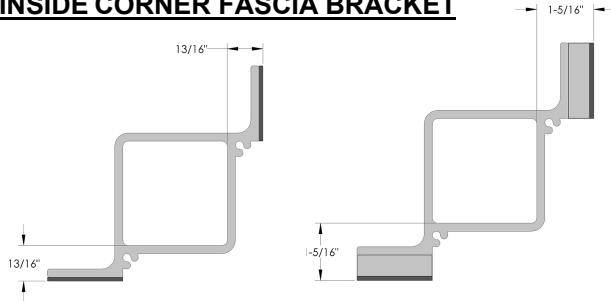


Fig 9

5C. Measure & Cut Posts

- Select a post blank (3) and insert into fascia bracket (Fig 7)
- Line up the bottom of the post with the bottom of the bracket.
- Secure flat head TF screws (39) through fascia bracket holes into post (Fig 7). Hold post plumb while screwing into place.
- Vary fascia bracket bolt torque to further plumb post.
- Use the fascia mount drill card (for inline posts) or reference your Customer Detail Form (for stair posts) to measure and mark a cut line towards the top of the post. (Fig 10)
- Remove post from bracket and cut according to marking.
- After cutting, measure the length of your post and cut all other posts to the same length.
- Use touch-up paint to coat exposed aluminum.

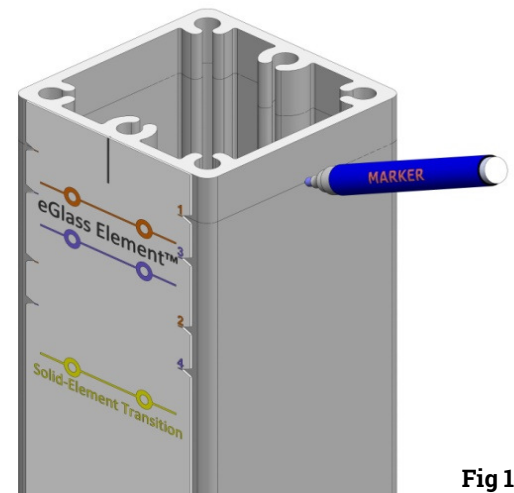


Fig 10

5D. Install Posts

- Install all posts into their brackets and secure them using the provided screws (39).
- Screw bottom plates (32, 33, 34) into post or fascia bracket (Fig 7) using the appropriate screws (39, 40).
- Plumb posts as needed by varying fascia bracket bolt torque. Make sure posts and brackets are fully plumb to ensure proper top rail installation.

Installation Instructions For eGlass® Element™

Step 6: Cut RCBs for Stairs

- For stair RCBs, cut your foot-long RCB (8) into 4 equal pieces.
- Cut through the middle of each of these 4 pieces at an angle that matches the pitch of your stairs. This will result in 8 total pieces (per foot-long RCB) with one angled end and one flat end on each. See Fig 11 below for an example.

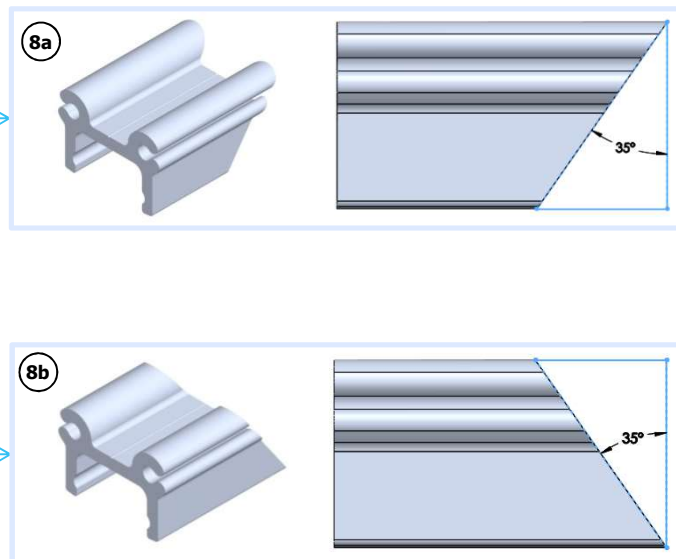
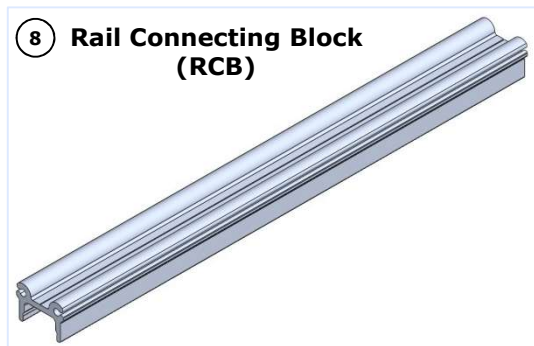


Fig 11

Step 7: Mark Rail Connecting Block (RCB) Locations

- Place the drill guide (21) on the post. Place the end that says "DECK SURFACE" as shown in Figure 12. Tape the Drill Guide to the post using painter's tape.
- Use the Drill Guide to ensure the RCB locations are lined up correctly on inline posts. For angled runs, reference your Customer Detail Form instead.
- Use the center punch to mark the RCB holes. Be sure to make a large mark to ensure the drill remains centered.

NOTE: Deck mount RCB drill hole locations are noted in **Blue**. Fascia Mount noted in **Red**.

- Pre-install RCB screws in RCB as per Figure 13 (1/8" past flush to avoid RCB spin during install).
- Install to posts using a non-impact driver.

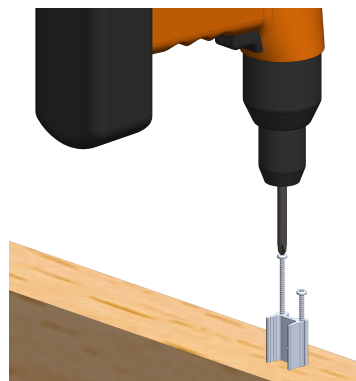


Fig 13

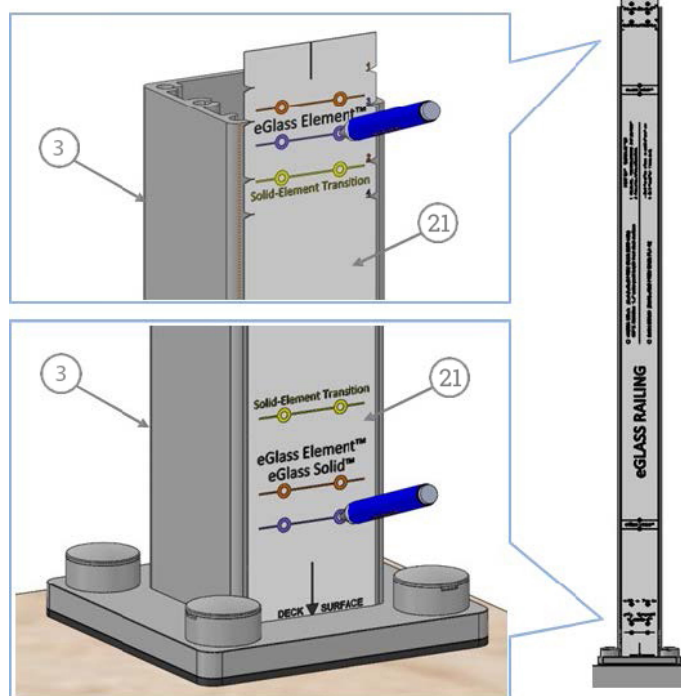


Fig 12

Installation Instructions For eGlass® Element™

Step 8: Attach RCBs to Posts

- Using a 1/8" drill bit (7), pre-drilled pilot holes in the post (3) for the top and bottom RCBs (8) as indicated by the markings made in the previous step. Use touch-up paint to coat exposed aluminum inside the drilled holes and protect from corrosion.
- Mount the bottom rail RCB (8) to the post as shown in Figure 14B and fasten using #8 x 2" Hex Washer Tek Screw (17). Do not overtighten.
- Mount the top rail RCB (8) to the post as shown in Figure 14A and fasten using #8 x 2" Hex Washer Tek Screw (17). Do not overtighten.

Note: Maintain a gap of not more than 4" between the deck and bottom rail.

Top Rail RCB

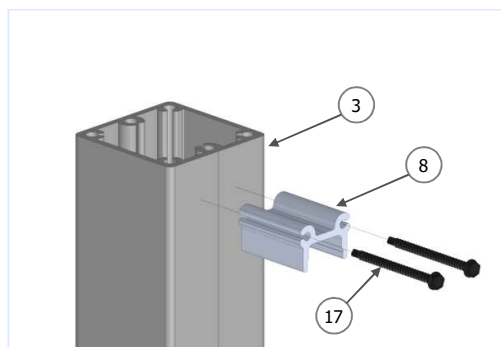


Fig 14A

Bottom Rail RCB

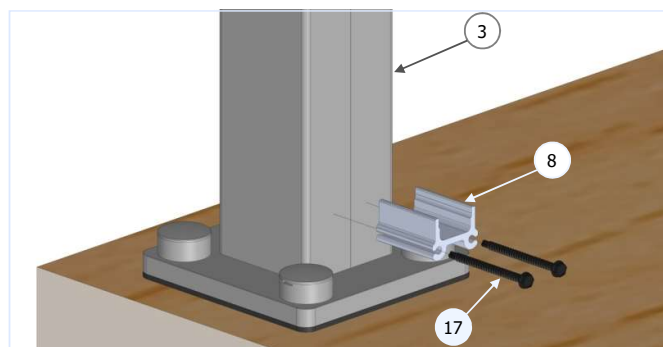


Fig 14B

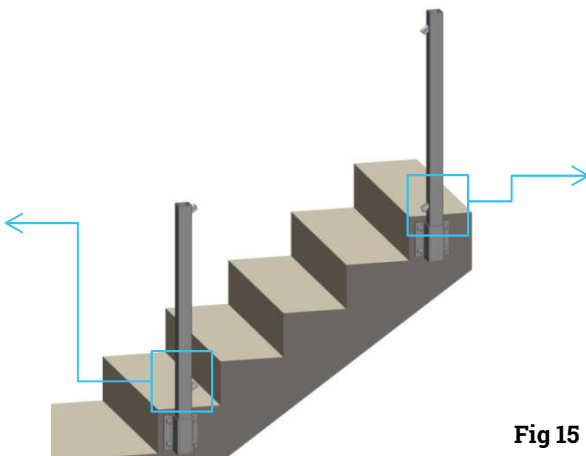
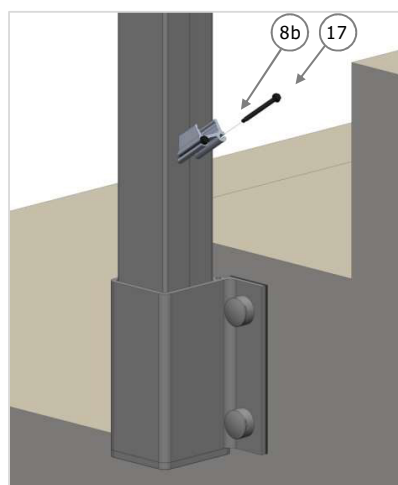
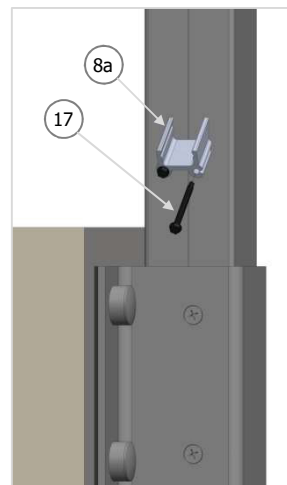


Fig 15



Repeat Steps 7-8 for all posts

Installation Instructions For eGlass® Element™

Step 9: Measure & Cut Rails

- With posts bolted and perfectly plumb, measure between consecutive posts to determine cut lengths.

NOTE: All bottom rails and 800 Series top rails that are being used on stairs must be cut at an angle to match the pitch of the stairs.

- Cut the bottom rail (9) 1/16" shorter than the post spacing.
- Cut the top rail (11) and infill (10) according to your measurements as well. Infill should be cut 1/16" shorter than final measurement.
- File cut ends. Then use touch-up paint to protect the cut ends from corrosion.

Step 10: Install Bottom Rail

- Drill 2 clearance holes in the bottom rail (9), 1.25" from both ends with a 5/32" drill bit.

NOTE: Clearance holes always go into rails, pilot holes always goes into RCBs.

- Identify the two posts you plan to put the bottom rail between. Loosen the bolts or lags (15 or 16) which secure them to the deck enough that you can slightly pull the posts away from each other. This will allow you to lower the bottom rail between the posts and onto the RCBs without possibly scratching the posts.
- Press the bottom rail (9) onto the lower RCBs (8).
- Re-tighten all bolts or lags (15 or 16) that were loosened earlier in this step.
- Using the bottom rail clearance holes as a guide, drill 1/8" pilot hole in RCB, below the bottom rail.
- Screw bottom rail to lower RCB (8) with screw #8 x 9/16" Pan Head Tek Screw (18).
- Use the level gauge to ensure the bottom rail is level.
- Make sure the bottom rail is supported firmly by both RCBs. Do not overtighten.

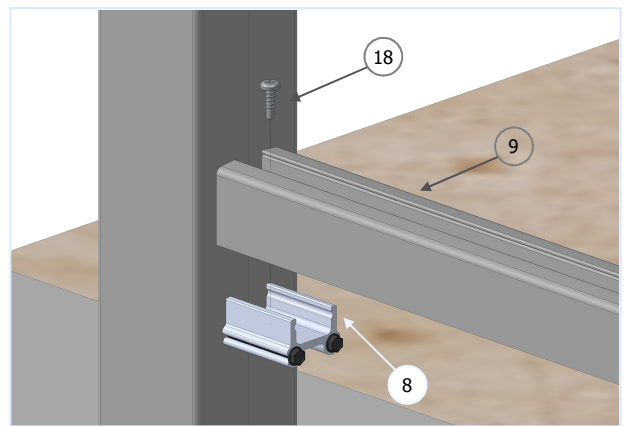


Fig 16

Step 11: Install Top Rail

- Drill 2 clearance holes in the upper infill (10) 1.25" from both ends with a 5/32" drill bit.

NOTE: Clearance holes always go into rails, pilot holes always goes into RCBs.

- Pull adjacent post away to prevent scratching (as done in the previous step) and insert the upper infill into the pre-installed RCBs.
- Using Upper Infill clearance holes as a guide, drill 1/8" pilot hole in RCB, above the upper infill.
- Install #8 x 7/16" Pan Head Sheet Metal Screw (20) from upper infill to RCB.
- Hand press the top rail (11) onto the top rail glass infill (10) until it snaps, with the etched mark on the lower right side shown in Figure 16.

Installation Instructions For eGlass® Element™

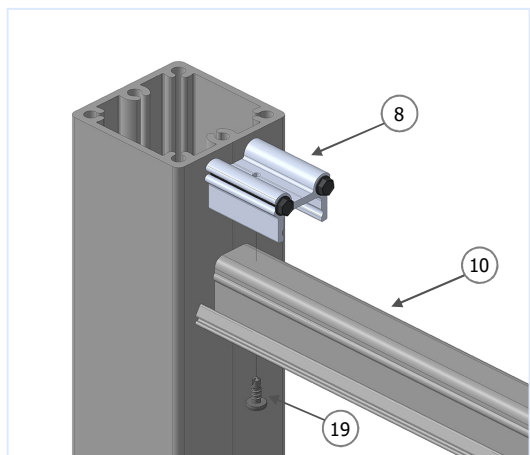


Fig 17

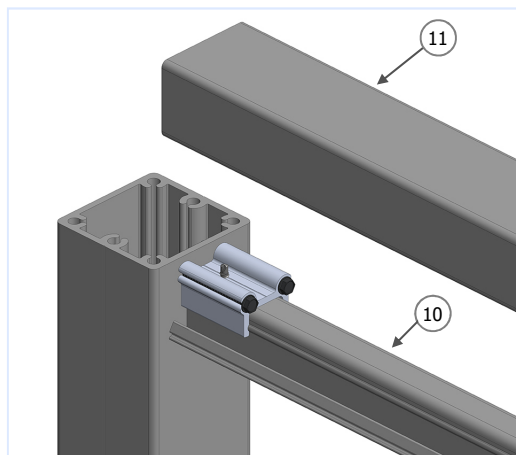


Fig 18

Step 12: Insert Glass Vinyls

- Measure between consecutive posts. Cut the top rail glass vinyl (12) and the bottom rail glass vinyl (13) to the required length.
- Insert the top rail glass vinyl (12) into the top rail glass infill (10) from the underside.
- Blow chips out of the bottom rail (9) and insert the bottom rail glass vinyl (13).

Top Rail Glass Vinyl

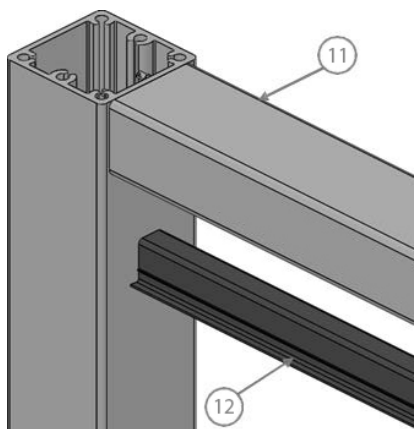


Fig 19

Bottom Rail Glass Vinyl

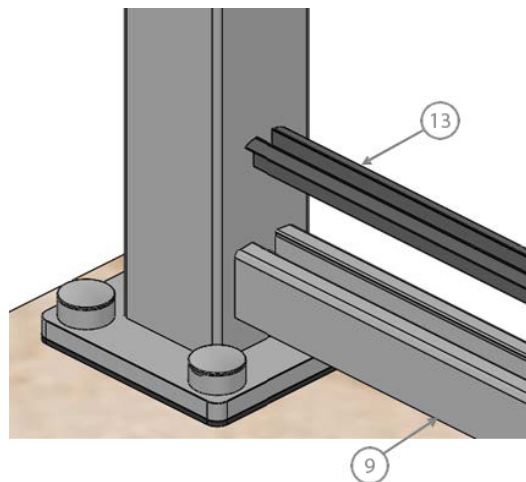


Fig 20

Step 13: Install Underside Cover

- Measure between consecutive posts. Cut the underside cover (14) to the required length. Use touch-up paint to paint the cut end to protect from corrosion.
- Press the underside cover (14) onto the underside of the bottom rail (9) until it snaps into place.

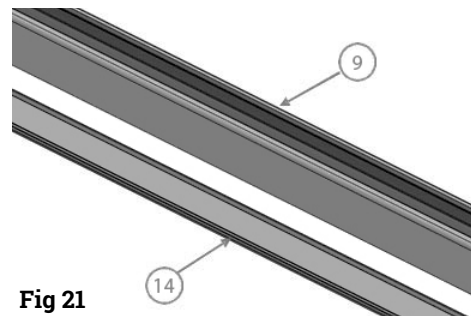


Fig 21

Repeat Steps 9-13 for entire deck

Installation Instructions For eGlass® Element™

Step 14: Insert Glass Panels

- Select the correct size glass panel (1) for the railing section.
- Generously apply foaming dish soap to the top and bottom glass vinyl inserts to allow for easier insertion of the glass panel.
- Make sure that the glass panel (1) is centered. It is extremely difficult to move the glass once it is inserted.
- Insert the glass panel (1) into the top rail vinyl at an angle as shown in Sequence-01, then move the glass up smoothly as shown in Sequence-02 until it is fully seated into the top rail glass vinyl as shown in Sequence-03.
- Pull the glass to move it into the bottom rail vinyl as shown in Sequence-04.
- Double check the bottom rail to ensure the glass panel is fully engaged in the glass vinyl insert.

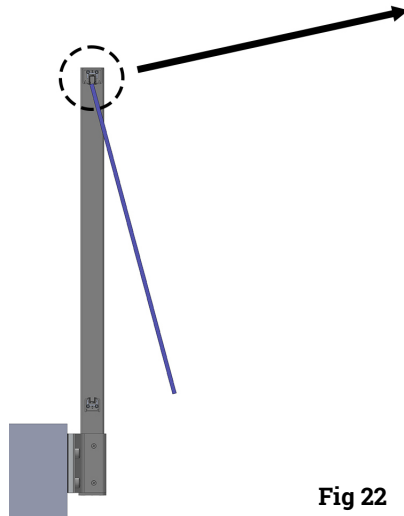


Fig 22

CAUTION

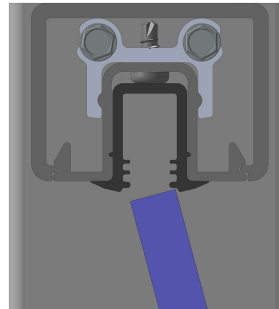
Always use 2 people to lift large glass panels.

Always lift glass panels by the sides.

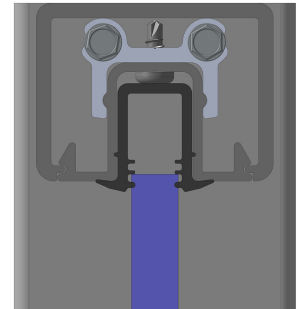
Tempered glass panels are extremely fragile.

Do not bump edges.

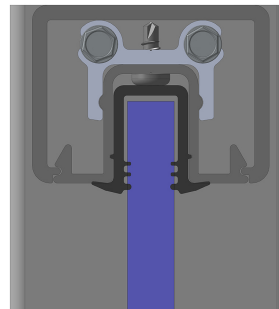
Sequence-01



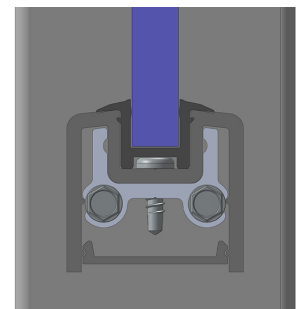
Sequence-02



Sequence-03



Sequence-04



Step 15: Insert Glass Stoppers for Stairs

- Select the appropriate glass stoppers to lock the glass panel movement.
- Insert stoppers into glass vinyl on each side of the glass panel. Reference the below sequences.

DECK MOUNT

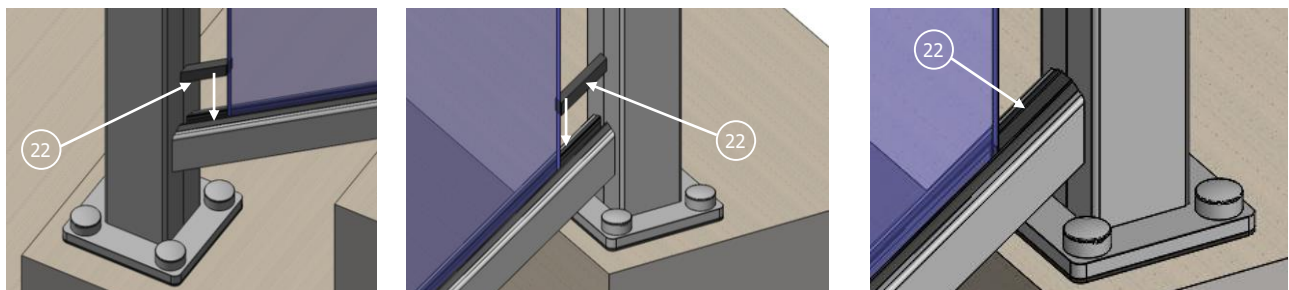


Fig 23

Installation Instructions For eGlass® Element™

FASCIA MOUNT

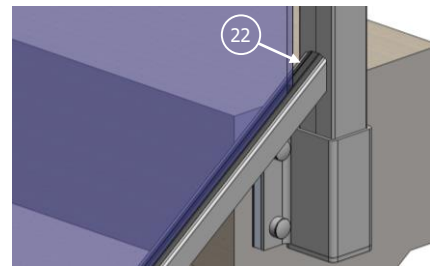
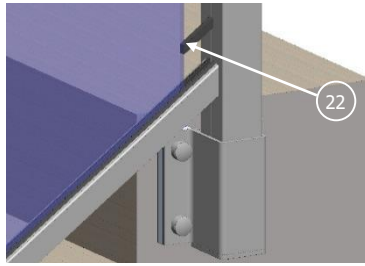
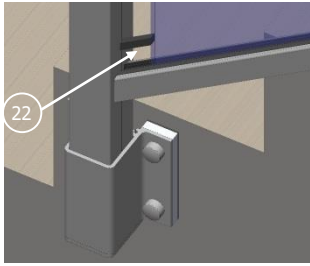


Fig 24

Repeat Steps 14-15 for entire deck

Step 16: Drill Weep Holes For Deck Mount Posts (SKIP IF SYSTEM IS FASCIA ONLY)

- Make a mark for the weep hole at the deck side center of post.
- Drill weep hole.
- Use touch-up paint to paint the weep hole to protect from corrosion.

Repeat Step 16 for all posts

Weep Hole

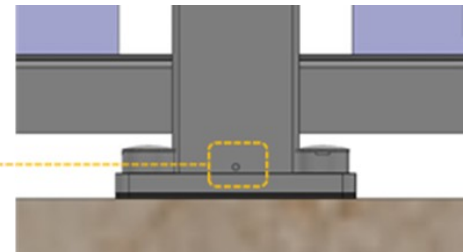


Fig 25

Step 17: Install Post Caps

- Line up post cap (5) on post (3), then press cap onto post.
- Snap on bolt caps (23D).
- If cap does not fully seat, place a clean cloth over the cap and tap into place with a dead blow hammer.

Repeat Step 17 for all posts

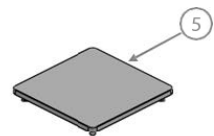
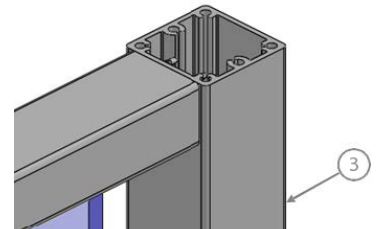


Fig 26



Step 18: Care & Maintenance

- Gently wash with a clean, microfiber (lint free) cloth and a mild detergent (like dish soap) followed by a clear water rinse. Glass can be wiped with a squeegee, if necessary.
- Avoid contact with nail polish remover, paint or lacquer thinner, motor oils, transmission and brake fluids or other solvent-based cleaning fluids. If any of these products contacts the powder coated surface, immediately wipe the area with a soft, clean cloth, and wash as described above.

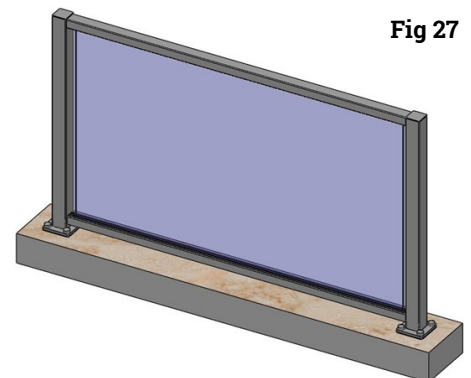


Fig 27