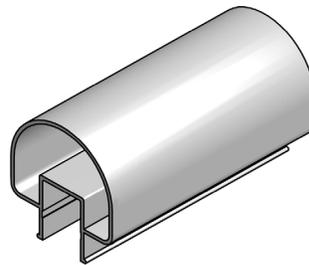


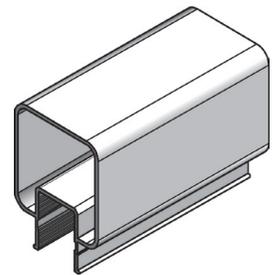


AS&DTM
AMERICAN
STRUCTURES & DESIGN

TR100/600 STAIRS
GLASS INFILL | PICKET INFILL | PERF PANEL INFILL



TR100 Rail



TR600 Rail



Picket Infill



Glass Infill



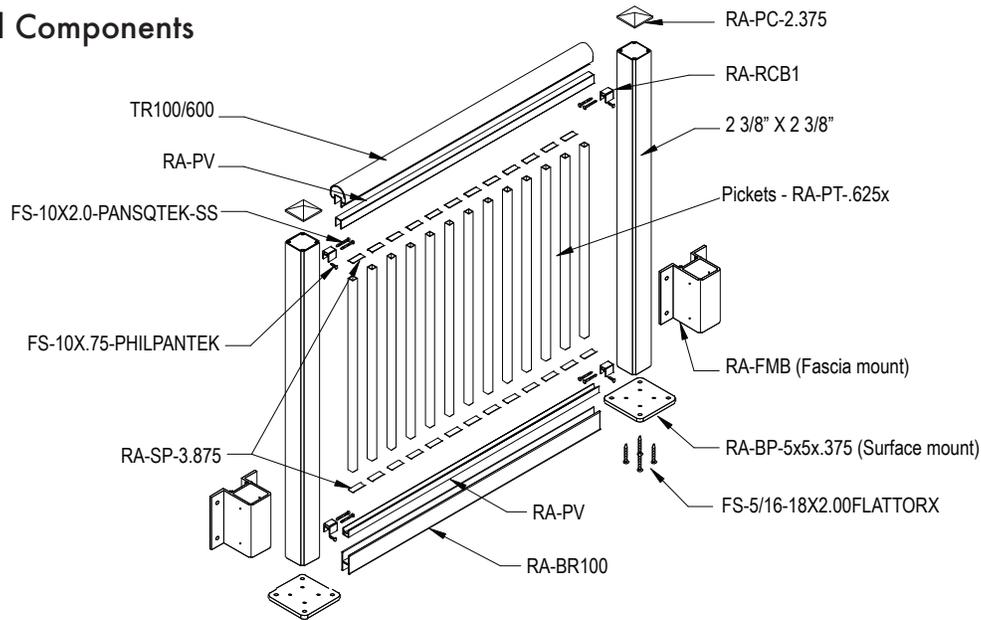
Perf Panel Infill

INSTALLATION INSTRUCTIONS
STAIRS

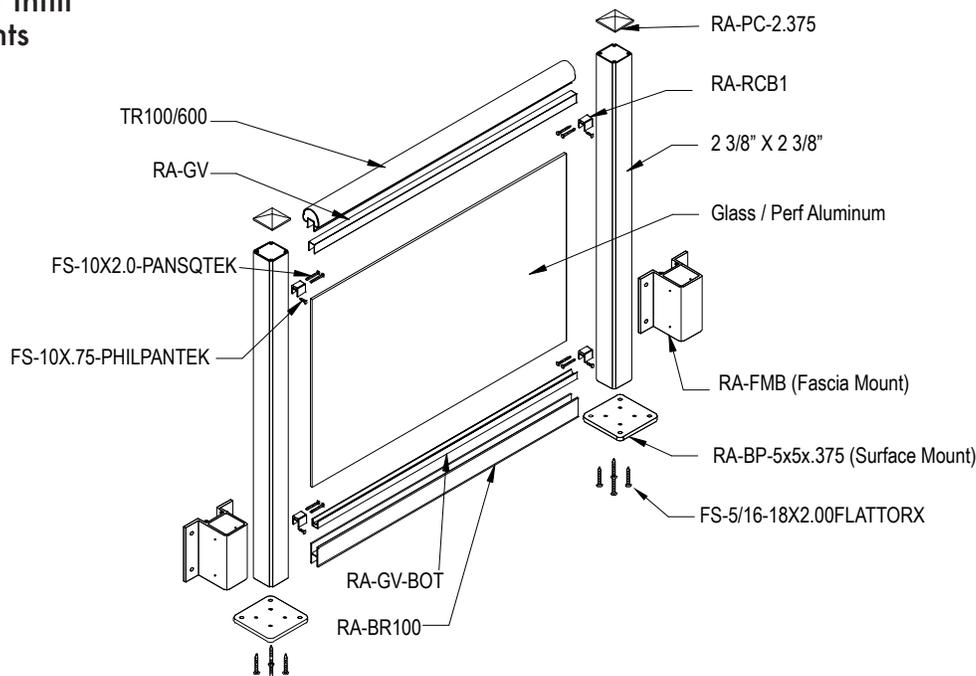
Recommended Tools

1. Pencil
2. Tape measure
3. Level
4. Square
5. String line
6. Rubber mallet
7. Drill/impact driver
8. Electric miter saw with a 10" carbide blade with minimum 65 teeth (improve performance with additional teeth, optimal blade has 100 teeth)
9. Drill bits = 7/16" (for flush mount)
10. Screw driver bits = #2 Phillips, 3/8" (pre-drilling for lags) and a T-40 Allen (socket) head bit
11. Screwdriver bit holder
12. Aviation Snips

Picket Infill Components



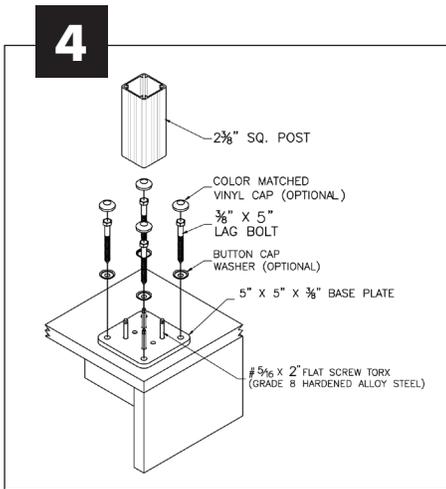
Glass/Perf Infill Components



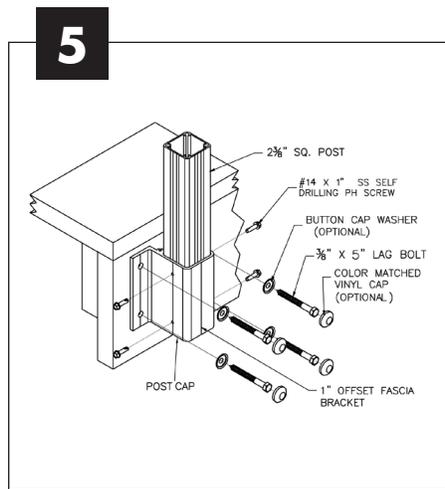
Preparation

- 1 Check materials** – Verify all parts have arrived, and match the packing slip.
- 2 Gather and identify all posts per your layout**
- 3 Layout posts** – Maximum spacing is 4'-6" to 5'-0" (Based on ASD Engineering) - Intermediate posts are spaced evenly between end and corner posts

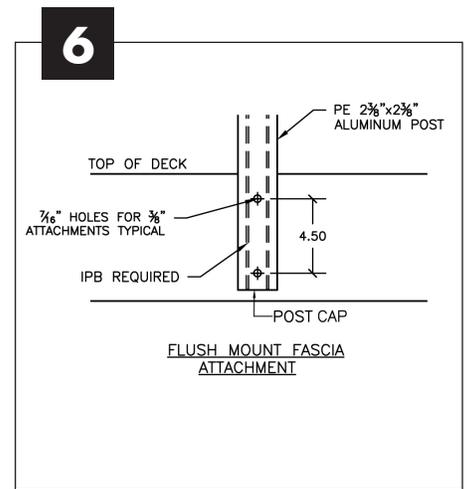
Anchor Posts



Surface mount – Anchor each post using (4 ea) $\frac{3}{8}$ " x 5" minimum lag bolts with washers and button caps.

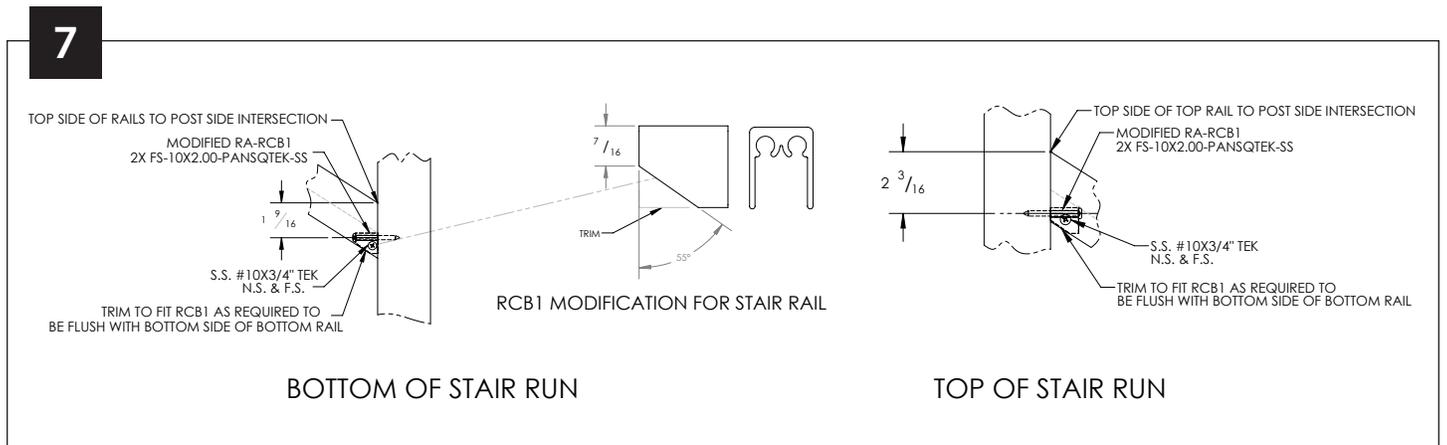


Fascia mount w/brackets – Anchor each fascia bracket using (4 ea) $\frac{3}{8}$ " x 5" minimum lag bolts with cap washer and button cap. Measure and cut each post to desired length. Secure the posts into the bracket using (2 ea side of fascia bracket) #14 x 1" tex screws. Cover the bottom of each post with a post cap and using (1 ea) $\frac{3}{4}$ " painted screw to secure the post cap in place.



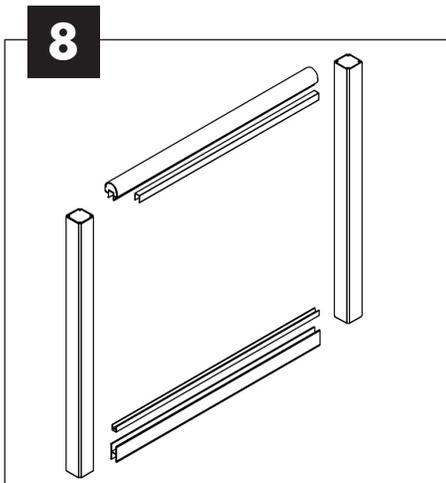
Fascia mount/flush – Measure and cut each post to desired length. Insert (2 ea) PIF into the bottom of each post. Cover the bottom of each post with a post cap and using (1 ea) $\frac{3}{4}$ " painted screw to secure post cap in place. Anchor each post using (2 ea) $\frac{3}{8}$ " x 7" minimum lag bolts with cap washer and button cap.

Connecting



Rail connecting blocks – Anchor block into post using #10 x 2" screws (2ea per RCB). Use (1 ea) RCB for the top rail and (1 ea) for the bottom rail.

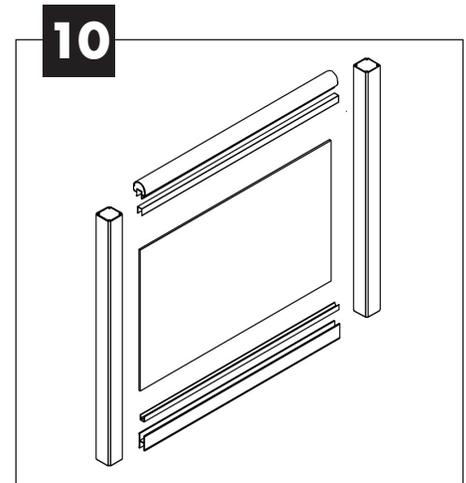
Top and bottom rail attachment – Measure inside-to-inside of posts and cut rails to fit in-between posts. Attach rails to the connecting blocks, screwing 1 ea, #10 x $\frac{3}{4}$ " painted screw to each side, $\frac{1}{2}$ " from each end of the rail. Install the bottom rail first ensuring that the ridged channel is facing upward. Install top rail second.



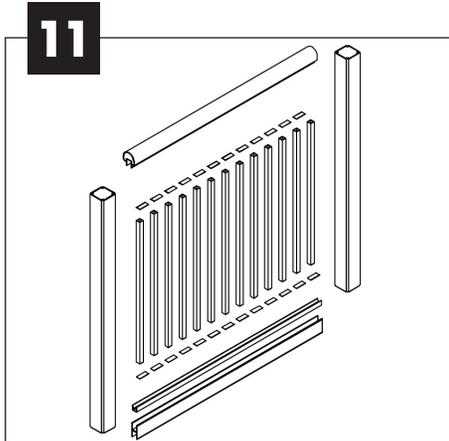
Measuring and installing picket or glass/perf vinyl – cut the top rail vinyl for the glass/picket 3” shorter than the top rail – cut the bottom rail vinyl to the length of the bottom rail. Install top and bottom vinyl inside top and bottom rail.



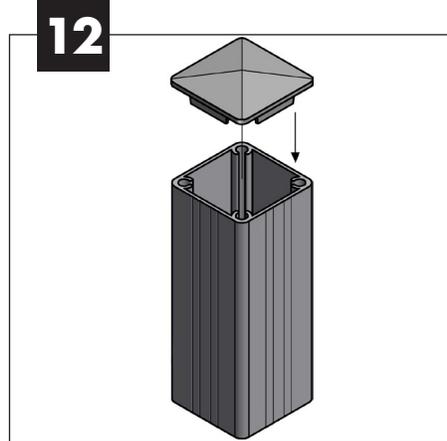
Measuring for glass/perf panel
– See page 4 for more information.



Installing glass/perf panel – Wet the top and bottom glass vinyl. Center the glass in the opening between the two posts. Insert the glass into the top vinyl by pushing upwards. Move the **bottom** of the glass **over the bottom rail** and lower into the bottom vinyl.

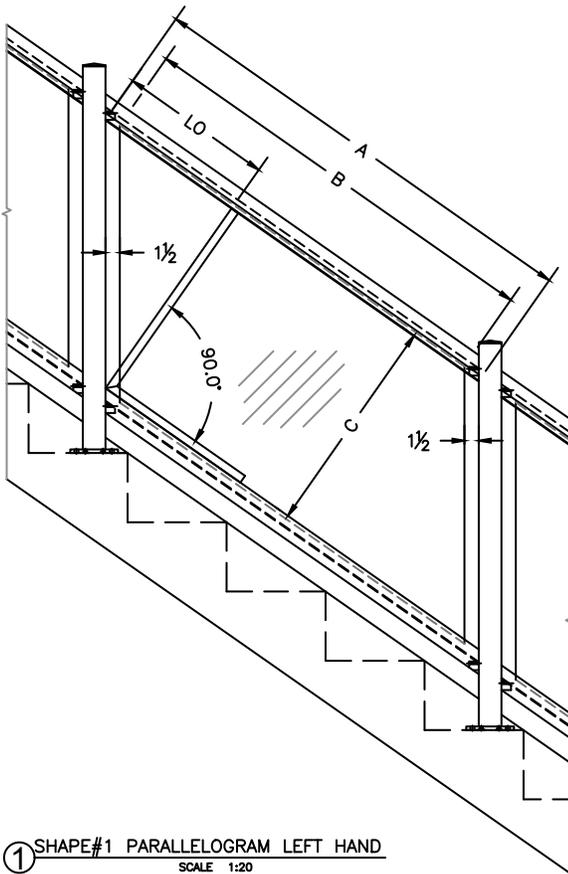


Installing pickets – Slide one end of the picket into the bottom rail and swing the other end into the top channel. Push the picket flush and snap on a spacer on each side of the picket. It is necessary to install the last three (3 ea) picket before the spacers. Shift the pickets to allow spacer installation, the last two (2 ea) spacers installed might need to be cut to custom lengths. If necessary, use a rubber mallet to snap spacers into place.

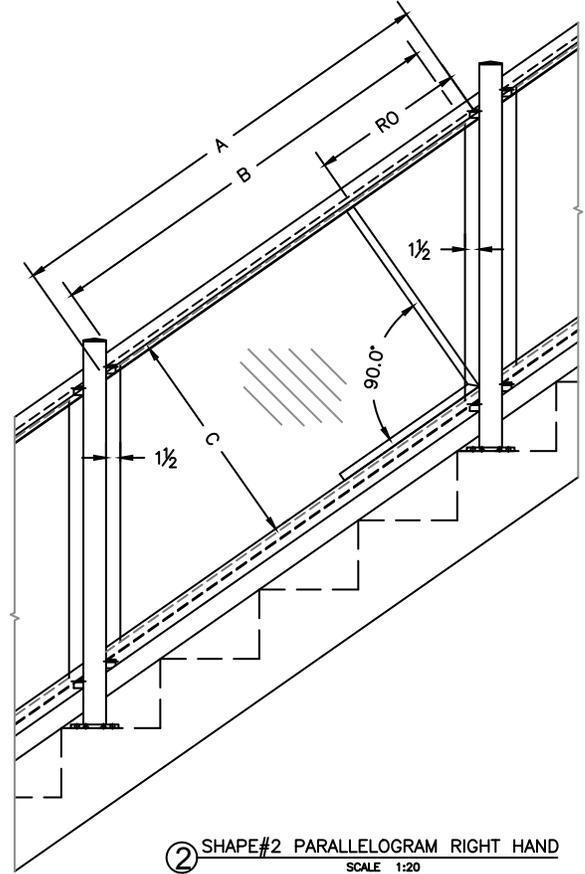


Install post cap- Insert post cap into post – secure with one (1 ea) 3/4” painted screw at the top of the post into the tab of the post cap or use silicone sealant.

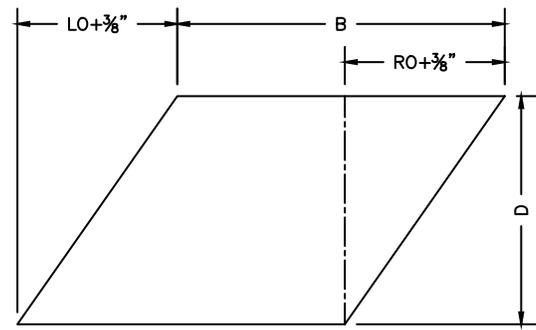
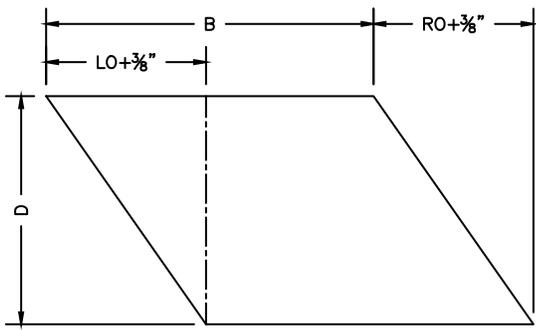
Glass Pattern



① SHAPE#1 PARALLELOGRAM LEFT HAND
SCALE 1:20



② SHAPE#2 PARALLELOGRAM RIGHT HAND
SCALE 1:20



NOTE:
 A = POST TO POST DIMENSION(DIAGONAL)
 C = DIMENSION FROM BOTTOM OF TOP RAIL TO TOP OF BOTTOM RAIL (WITHOUT VINYL)

ABBREVIATIONS:
 B - WIDTH OF GLASS
 D - HEIGHT OF GLASS
 LO - LEFT OFFSET
 RO - RIGHT OFFSET
 RH - RIGHT HAND
 RL - LEFT HAND

	SHAPE #1 LH	SHAPE #2 RH
1	A	
2	B=A-3.5"	
3	C	
4	D=C+3/4"	
5	LO+3/8" =	
6	RO+3/8" =	
7	THICKNESS (1/4" & 3/8")	
8	TYPE (TEMP. & TEMP. LAM.)	
9	EDGE DETAIL	