

Pro-Alumarail

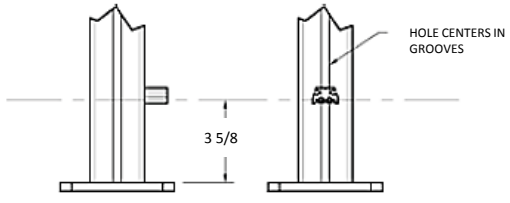
Railing Installation Instructions Series 200 & Series 999

Recommended Materials

- | | |
|---------------------|---|
| 1. Pencil | 10. Impact driver |
| 2. Tape measure | 11. Electric miter saw with a 10" carbide blade specifically for cutting aluminum |
| 3. Level | 12. Drill bits = 9/64", 11/64", 1/4", 3/8" |
| 4. Square | 13. Screw driver bits = #2 Phillips & a T-30 Allen (socket) head bit |
| 5. Speed square | 14. Screwdriver bit holder |
| 6. String line | |
| 7. Dead blow hammer | |
| 8. Rubber mallet | |
| 9. Drill | |

1 Rail Connecting Blocks (RCB)

1. Drill 11/64" pilot holes or use #16 drill along index lines.
2. Anchor block into post with #10 x 1 1/2 stainless steel screws.
3. RCB guide available upon request.



2 Post Layout

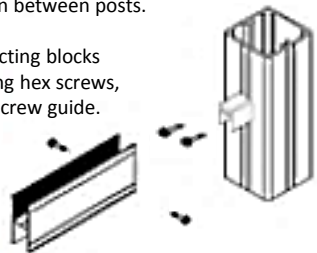
- Maximum spacing between posts
 6' – with picket infill
 5' – with cable infill (with intermediate picket)
 5' – with glass infill
1. Intermediate posts are spaced evenly between end and corner posts. 135° corner posts are available.
 2. Anchor posts with 3/8" stainless steel lag screws (lag screws not included). Screws must anchor into 4" of solid wood.
 3. When installing 3/8" lag screw into baseplate, insert through 3/8" s-s washer, for nylon cap to snap over bolt head.



3 Bottom Rail Attachment

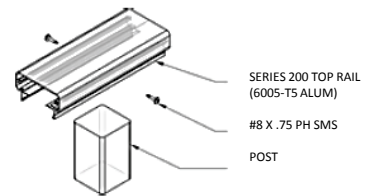
Note: Install posts before cutting bottom rails

1. Measure and cut rails to fit in between posts.
2. Attach rails to the rail connecting blocks using two #10 x 1/2" self drilling hex screws, using bottom v-groove as a screw guide.
3. Install bottom rail FIRST insuring that the ridged channel is facing upward.

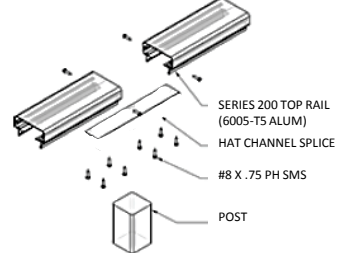


4 Top Rail Attachment

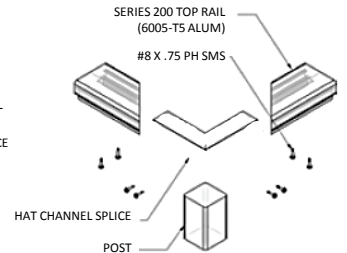
1. Top rail is used in longest lengths practical, longer rails will capture more posts and add strength to the system.



2. To join a straight connection, butt joint over the center of a post. Reinforce the joint with 8 - #10 x 1/4" screws, fastened through pre-drilled holes, to a splice centered between the rails. Attach top rail to the post with 4 - #8 x 1/2" screws.

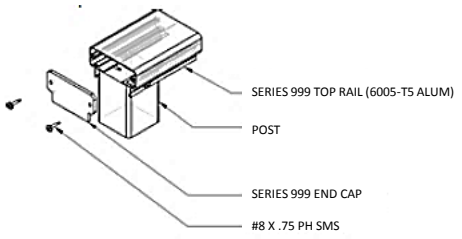


3. At corners, top rail can be mitered, or welded corners can be used and butt jointed to the top rail on each side of corner. 90° and 135° welded corners are in stock.



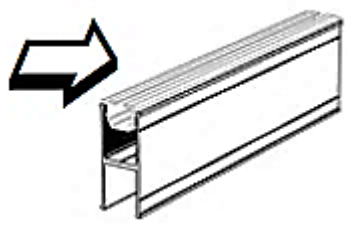
5 Top Rail End Plate

1. Top rail can be anchored to structures with an extended end plate.
2. When terminating top rail at a post, cap the end of the rail with an end plate.



6 Installing Glass Vinyl

1. Cut the top vinyl for the glass 3" shorter than the top rail for the rail connecting blocks.
2. Install top vinyl and bottom vinyl.



7 Pickets & Spacers (see image on adjacent page)

1. Insert Picket Vinyl into Vinyl channel in both bottom and top rails.
2. Picket spacers are used to evenly space the pickets. For proper balance between posts, make any necessary length adjustments to the first and last picket spacers. If necessary, use a rubber mallet to snap spacers into place.
3. Install pickets by snapping the two adjusted length picket spacers flush with the post on the top and bottom rails.
4. Slide one end of a picket into the bottom rail and swing the other end into the top rail channel. Push the picket flush and snap on two spacers.
5. It is necessary to install the last three pickets before the spacers. Shift the pickets around to allow spacer installation, the last two spacers installed will be the other two custom length spacers.



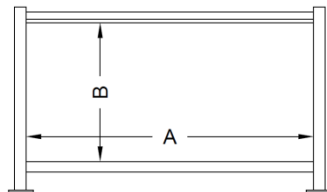
Space in between pickets cannot exceed 4".

8 Measuring Glass

- (A) Glass Width = Measure from the inside of each post. Then deduct 3" total from your measurement. This will allow for 1 1/2" between posts and the glass. This is necessary for wind to pass through your system.
- (B) Glass Height = Measure from the inside of the top rail to the inside of the bottom rail. Then add 3/4" to your measurement. This addition will allow the glass to sit in the glass vinyl.

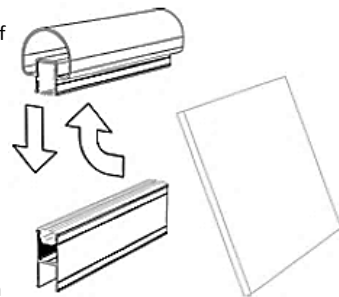
WIDTH
Actual Measurement - 3"

HEIGHT
Actual Measurement + 3/4"



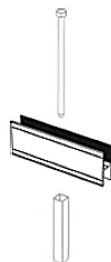
9 Installing Glass

1. Wet the flexible surface of the top and bottom vinyl.
2. Center the glass in the opening.
3. Insert the glass into the top vinyl.
4. Move the bottom edge of the glass over the bottom rail and lower into bottom vinyl.

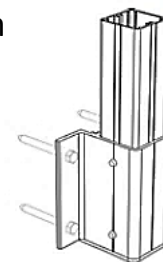


9 Intermediate Bottom Support

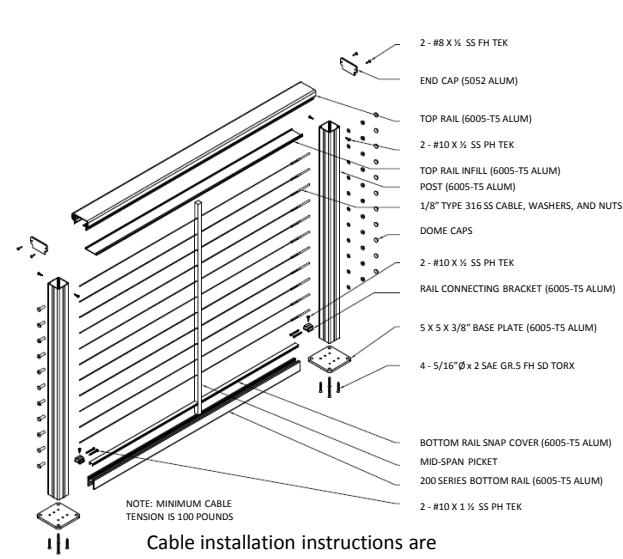
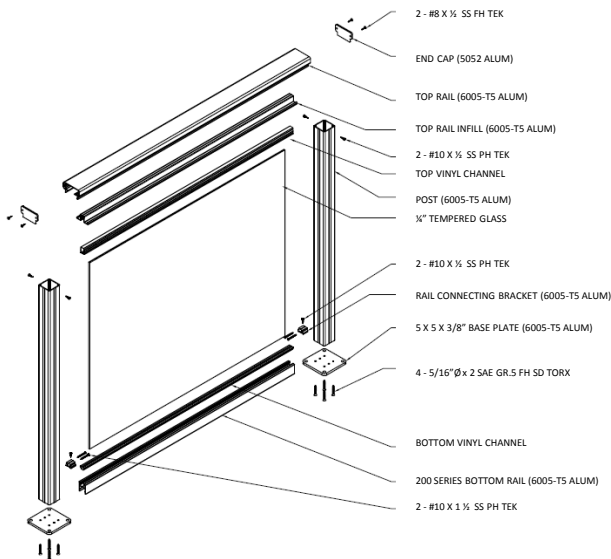
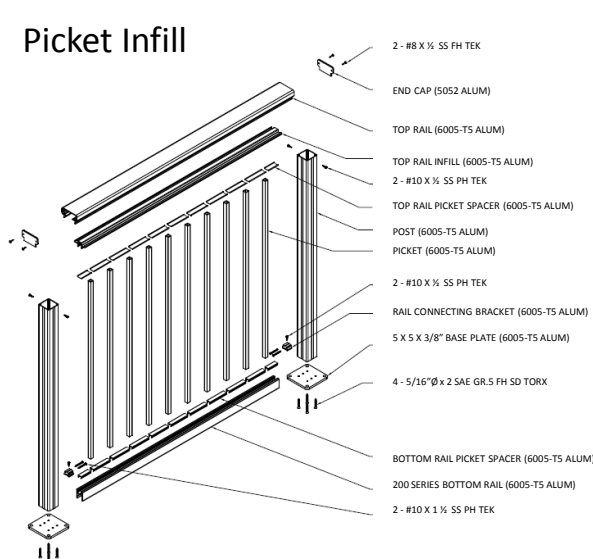
1. Drill a 5/16" hole in the web of the bottom rail.
2. Insert the intermediate bottom rail support into the bottom channel of the bottom rail.
3. Secure lag screw through the drilled 5/16" hole and center of the intermediate bottom support.



Fascia Mount Diagram



Picket Infill



Cable installation instructions are included with the cable materials.