ALUMINUM RAILING INSTALLATION INSTRUCTIONS V2012

Vertical Cable Systems

design-R/ Important Note: These instructions are for a standardized frame system with posts on 5-1/2 foot centers. Bay infills may vary depending on your distance between posts. Infill rails should be cut so the space between pickets, cables and posts should all appear to be consistent. For systems with 400 Cap Rail, see alternative instructions. 1) Check Contents Of Packages: Verify that all parts have arrived and that they match the packing list. 2) Gather and Identify All Posts: Use the rail connecting block HH Сар 3/8" Lag Bolt (*RCB*) holes on each *post* to identify the post type: • End posts – RCB holes on one side only. EE Washer • Intermediate posts – *RCB* holes on opposite sides. EE Washer • Single corner posts – RCB holes on adjacent sides. 3/8" Lag Bolt 2) Anchor Posts: Position all main posts. Space posts a maximum of 0.0 5-1/2 ft. on center for residential applications (5 ft. commercial Surface , HH Cap Mounting applications). Remember, you must have a minimum of 3" of thread H Screw penetration into solid wood for proper attachment; additional wood Post Cap blocking and/or longer bolts may be required. Fascia Mounting • Surface mounting: anchor each post using provided hardware (see detailed bolt number & pattern varies, depending on sheet included in your order) with retaining washers and large plastic caps. your system • Fascia mounting: anchor each post using provided hardware with retaining washers and large plastic caps. Finish with an internal post *cap* by pre-drilling post & screwing a *H* screw through the side of the post and cap flange to secure cap. • If you are mounting posts using the stanchion mount Butt Splice or fascia bracket mount methods, please call for 90° additional installation details. 90 3) Cut & Snap Cap Rails: Cut the cap rail (Series 0 Splice Plate 200, 300 & 350 only) to length and then snap it H Screws into position on top of the *posts*. Be sure to attach decorative end plates to any ends that butt-up against a Double Corner wall face or that have limited access. Post Miter • Butt splices: always cut the cap rail at 90 degrees and 45 45 \bigcirc center the joint over a *post*. Use a rectangular splice plate H Screws with four *H* screws to secure this joint. Splice Plate • *Mitered joints with double corner posts:* the *cap rail* will extend past each of the corner posts and the actual miter H Screws joint will be unsupported. Remember to cut each cap rail miter at 1/2 the total corner angle (i.e. if the corner angle is 90 degrees, cut each miter at 45 degrees). Add one *splice plate* to 45 45 \bigcirc connect and stabilize the miter oint. Insert the plate before setting the two rail sections down of top of the posts; use eight (8) *H* screws to secure the splice plate to the rails. Splice Plate • *Mitered joints with single corner posts:* cut each *cap rail* miter at Single Corner 1/2 the total corner angle (i.e. if the corner angle is 90 degrees, cut each miter Post Miter at 45 degrees) Center the joint over the corner post. Add one splice plate to connect and stabilize the miter

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joint. Insert the plate before setting the two rail sections down of top of the *post*; use eight (8) *H* screws to secure the *splice plate* to the *rails*. Also, on each side of the miter cut, screw a *H* screw through the *cap rail* flange and into the *post* face.

4) Fasten *Cap Rails*: Secure the *cap rail* to each *post* using two *H screws* (four screws for butt splices); screws should run through the *cap rail* flange and into the center of the *post* face. Attach screws to both the front and back of each post.

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Cap Infil

Cap Infill

Threaded

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5) Attach *Decorative End Caps*: Attach the *decorative end caps* to all of the exposed *cap rail* ends using two *A screws*. This applies to 200, 300, and 350 Cap Rail options.

6) Attach *RCB***s**: For the *foot rail*, locate the *rail connecting block* (*RCB*) holes on each *post* (these are pre-drilled) except on stair rail *posts* where all the holes must be drilled in the field). Attach the *RCBs* to the posts using two *K* screws. The *RCBs* should be mounted wings up for frames using *vertical cable systems*.

7) Cut *Cap Infill Channels*: Measure between each set of *posts* just below the *cap rail*. Cut the *cap infill channel* for each section to -1/16" of your corresponding measurement. Do not attach the *cap infill channels* to the *cap rail* at this time. The distance between *post* and *cable* holes should be between 1-1/2" and 3 inches and equal on both ends. Standard configurations have 6 cables between *posts* and *pickets*. Number of cables and pickets may vary due to panel size. Consult your layout sheet.

8) Cut *Foot Rails*: Measure between each set of *posts* just above the *RCBs*. Cut the *foot rail* for each section to -1/16" of your corresponding measurement. Make sure the holes in the foot rail are in similar placement to the *cap infill channel* so the cables run plumb vertically. Do not attach the *foot rails* to the frame at this time.

9) Cut *Snap Caps*: Measure distance between posts and pickets, cut *snap caps* to -1/16" length. Standard infill bays will have 20 1/4" length of *snap cap* to use between the two installed *pickets*. End *snap cap* sections will vary depending on size of bay.

10) Cut & Install *Pickets:* Pickets should come cut to length for level railing installations, if not, call for measurements for your particular installation (residential or commercial). Pickets slip in slots in *cap infill channel* and *foot rail* and are secured with *H screws* through <u>side</u> of channels (see illustration).

11) Assemble Panels: Thread center cables through center holes on the *cap infill channel*. The *threaded terminal* of the *cable* feeds through first, to eventually lace through the foot rail channel. Position the 20-1/4" section of *snap cap* over the *foot rail* in between the *two pickets*. Thread the cable through the *snap cap* and continue through the holes in the *footrail*. Hold *snap cap* up at this time. Attach *washers* and *nuts* on the protruding *threaded terminals*. Drop the remaining *(ontinued on next page)*

cable assemblies through the remaining holes in the *cap rail channel* and thread through *snap caps* and *foot rail*. Attach remaining *washers* and *nuts*.

12) Install Panels: Place the assembled panel between *posts* and lift up into opening of the underside of the cap rail. Make sure the RCBs fit into the upper channel of the foot rail below the snap cap. Snap the cap infill channel into the cap rail once the infill is aligned. 13) Secure Panels: Screw the *cap infill channel* into the *cap* rail from underneath with 6 "I" screws per panel. 2 on each end, 2 in center. Install foot rails to RCBs with H screws. Cap Rail C 14) Tension Cables: Tension cables by spinning nuts concealed under *foot rail*. Hold the threaded terminal Cap Infill Channel I Screw above the *foot rail* with vise-grip pliers while tightening the nut with a socket below. Tension evenly until taught. -Picke Threaded 15) Fasten Snap Caps: Fasten snap caps to top of foot rail after Termina tensioning cables. Push down and snap into place. Snap Cap RCB H Screw Foot Rail Post



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