

JULIETTE RAILING INSTALLATION INSTRUCTIONS

INSTRUCTIONS

- Please read all instruction completely before starting any installation of our Juliette Rails
- Professional Installation companies with a diverse background in using aerial equipment, lifts and working from high locations must be sought out for proper installation.
- Juliette's come complete with Top/Bottom Rails with welded pickets, (1) left and (1) right side complete welded Franklin attachment arm and (4) ¼-13x1" self-drilling stainless steel screws for rail to rail connection.
- Attachment hardware to the building is NOT PROVIDED, please select the hardware length, type and style that suits your project correctly. Our Juliette rail is tested using an attachment with either (4) Fasten Master Headlok 4-1/2" Long (.174 in minor diameter, 0.194" shank diameter, 8 threads per inch) wood screws per bracket (16 required) OR (4) 3/8"-16 Grade 8 Bolts with nut and washers per bracket (16 required).
- Rail Sections are available for purchase in 4.5" increments, this is to insure that at NO TIME there will be more than 4.5" O.C. picket spacing (3-3/4" inside to inside spacing of pickets)
- Juliette railings should be installed using accepted building principles in accordance with Local Building codes and the installation guidelines.
- Juliette Railing installation is based on the tested hardware and wood blocking per the test, any deviations in mounting surface or structural components within the substrate should be evaluated by the building engineer.
- If you have any questions, please call YOUR distributor or check their website for more install details.
- **SAFETY:** Always be safe and follow all instructions when using power tools and always wear safety goggles!
- Any questions? Call 800-656-4420 and ask for your railing specialist.
- Visit our website for videos and other information: www.ultrarailing.com



IMPORTANT: Installation of Juliette Balconies must be fully secured to ensure all hardware is properly torqued per your supplied mounting fasteners recommendation!!



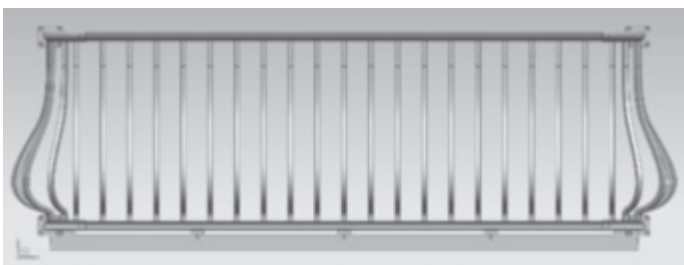
IMPORTANT: Consult your local building code official and check all Code Requirements



TESTED AND EVALUATED

RECOMMENDED TOOLS

- Manlift or similar aerial platform to access installation location. Instructions and use of this type of equipment must be used by a trained professional. NEVER use a manlift to lift materials in place.
- Cordless Drill with drill bits for predrilling hole locations for mounting
- Impact Driver with Bits for **Your Supplied** Installation Hardware
- #3 Phillips Driver Bit
- Level or Laser Line
- Measuring Tape
- Portable Band Saw or Hack Saw



ORDERING

1. A Juliette Balcony rails main purpose is act as a life safety fall protection barrier for any doorway or window that is capable of being opened. Always measure and remeasure when setting top of rail elevation to insure meeting the minimum railing height for fall protection.
2. Locate the balcony or window in which the railing is to be installed.
3. Measure the inside to inside dimensions of the door wall opening.
4. Juliette Balconies must span the entire opening plus allow for attachment into the substrates secured blocking or steel.
 - ▶ If the building is existing and being retrofitted, you must investigate the materials found under the siding or brick to determine its capable of supporting guardrail loads once the Juliette Balcony Rail is screwed in.
 - ▶ If the building is new or opened up, it is recommended the Juliette Balconies are flush against a secured substrate (like Brick Veneer or Exterior Sheathing) as to prevent pull in or flex and the screws go into the building walls 2x6 or 2x8 doubled up trimmer and king studs for the door.
 - ▶ **NEVER INSTALL INTO A DOOR JAMB OR BRICK MOULDING ONLY OR INTO UNKNOWN MATERIALS.**
5. Once you have measured the opening and to the outside edge of the king stud, compare the outside to outside and inside to inside dimensions available for the Juliette Rail System shown in Chart 1.
6. Should your opening require a distance not specific to the chart below, note that each rail size can be cut **down** 4.5" total in width if needed.
7. If opting for the optional skirt, this is a welded component that must be made specific to size. Please consult with your distributor or Ultra railing specialist about special requirements on using the optional skirt.

CHART 1: JULIETTE SPAN

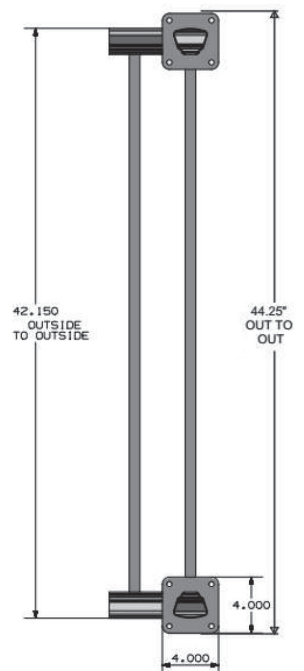
42" **	INSIDE Flange to Flange	OUTSIDE Flange to OUTSIDE Flange	Number of Balusters
4ft OPENING	48.95"	56.95"	13
4 + 1	53.45"	61.45"	14
4 + 2	57.95"	65.95"	15
5 FT OPENING	62.45"	70.45"	16
5 + 1	66.95"	74.95"	17
5 + 2	71.45"	79.45"	18
6 FT OPENING	75.95"	83.95"	19
6 + 1	80.45"	88.45"	20

42" **	INSIDE Flange to Flange	OUTSIDE Flange to OUTSIDE Flange	Number of Balusters
7 FT OPENING	84.95"	92.95"	21
7 + 1	89.45"	97.45"	22
7 + 2	93.95"	101.95"	23
8 FT OPENING	98.45"	106.45"	24
8 + 1	102.95"	110.95"	25
8 + 2	107.45"	115.45"	26
9 FT OPENING	111.95"	119.95"	27
9 + 1	116.45"	124.45"	28
10 FT OPENING	120.95"	128.95"	29

JULIETTE RAILING INSTALLATION

STEP 1 MEASURING AND TRIMMING

1. Find the center point of the opening for installation and measure to the left and the right equally to where the inside to inside flange is to be located per the ordered size.
2. Measure again to the outside flange to outside flange dimensions which is +8" to the inside flange to flange dimension and mark the outside dimension.
3. Should you need to trim the width of the middle span panel, this must be done equally to ensure picket spacing at the far left and far right look consistent.
4. Designate the minimum rail height location at the door or window opening. This should be measured from the walking or standing surface upward to 42". The distance from the bottom of the bottom rail to the top of the top rail on the franklin pre-welded left and right arm measures 42.15". The distance from the top edge to bottom edge of the flange plate is 44.25".
5. From the walking or standing surface, measure DOWN 1" to locate the bottom edge of the bottom flange plate. Repeat this step for the opposite side.



6. From the mark located 42" above the walking or standing surface, measure UP 1" to locate the top edge of the top flange plate. Repeat this step for the opposite side.
7. The bottom of the bottom rail MUST be level and in line with the walking or standing surface.
8. At this time, recheck your outside to outside and inside to inside flange measurements, trim the mid panel as needed. The mid panel must be able to slide inside the left and right arms at least 1" in both directions to ensure the self-drilling screw can be installed AFTER mounting.

STEP 2 ASSEMBLE

Slide the left and right franklin welded arms over the mid welded panel.



STEP 3 MOUNTING THE JULIETTE RAILING

1. With help, pick the entire assembly up and locate the bottom flange corners and top flange corners on your outside to outside flange marks from earlier. You may want to use a baker scaffold or other items to support holding the assembly while installing.
2. Predrill and mount your (16) screws through the finished wall face and into the secured trimmer and king studs beyond or steel structure. Ensure all 16 bolts are installed straight and torqued to spec.
3. Now center the mid panel, verify on each end there is no more than 3-3/4" gap between the mid span panel picket and the franklin left and right arms. Use of a precut block may help insure both ends are equal and do not shift during install of the self-drilling screws.
4. Install the (4) 1/4"-13 x 1" self-drilling screws into the countersunk holes in the left and right-side arms to secure the mid span panel.



STEP 4 CAULK & TOUCH UP

Perform any caulking around the flanges and touch up paint if needed.