

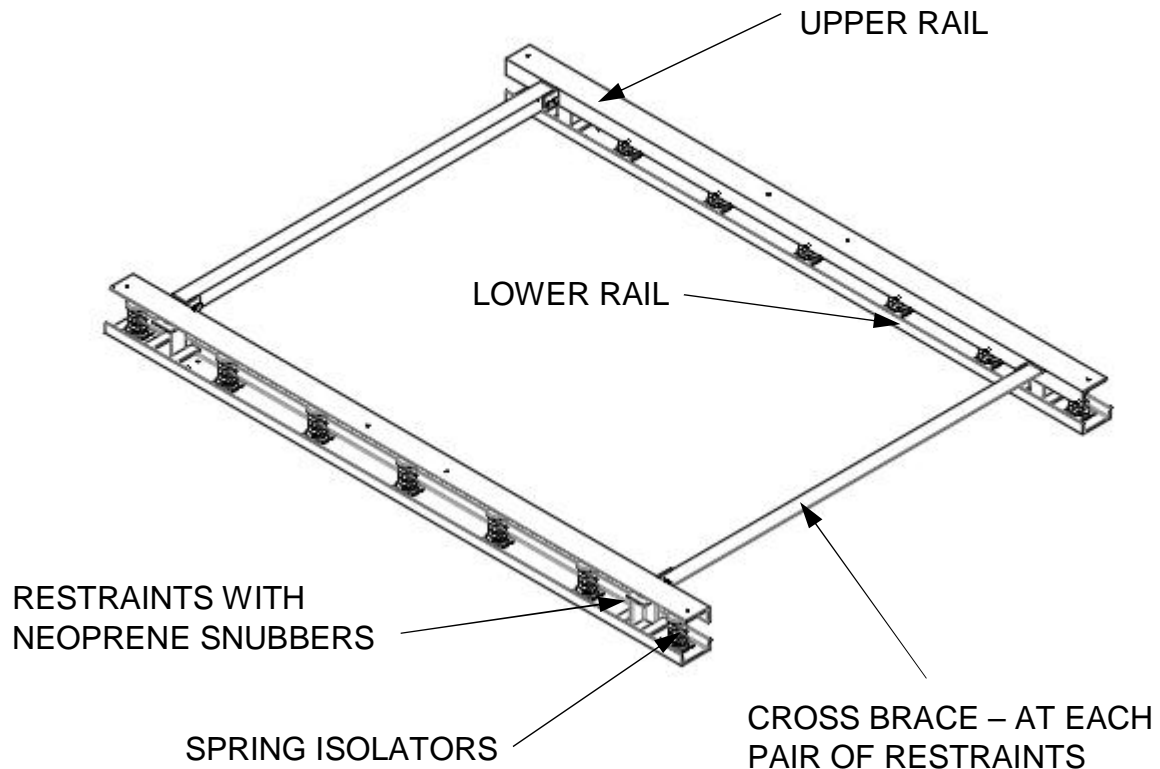
QuietRail™ STRUCTURAL FRAME BASE – INSTALLATION INSTRUCTIONS

11/26/18 PWN

Description

The QuietRail™ Structural Frame Base consists of Upper Rails for mounting the equipment being isolated, Lower Rails which are attached to the building support structure, and Spring Isolators which connect the Upper Rails and Lower Rails. Integral Restraints with Neoprene Snubbers provide wind or seismic restraint capability.

Refer to the QuietRail™ submittal information for mounting requirements, Spring Isolator identification, and Restraint capacities.

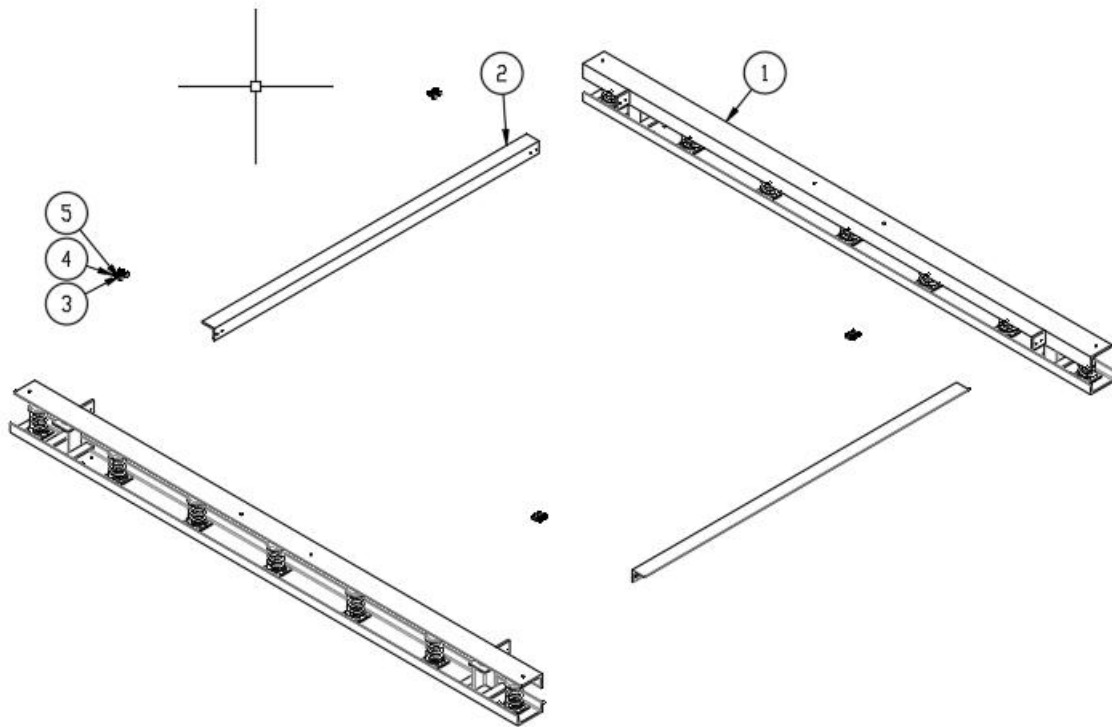


QuietRail™ - Unpacking Instructions

Carefully unpack the QuietRail™ and lay out the parts for identification. Promptly report any shipping damage to the carrier.

QuietRail™ - Standard Packing List

1. Side Rail assemblies consisting of Upper Rails, Spring Isolators, Restraints, and Lower Rails.
2. Cross Braces.
3. 4. and 5. Cross Brace attachment hardware.

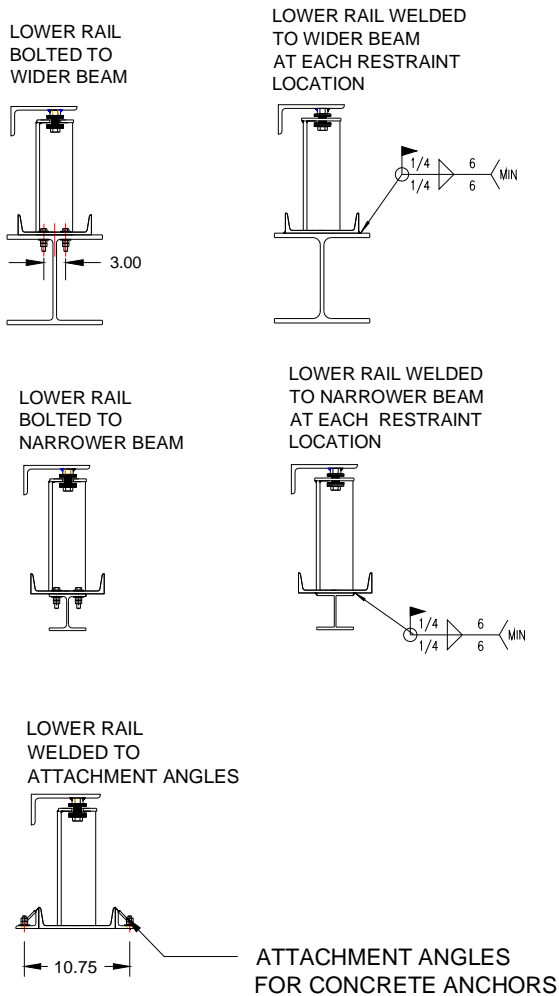


QuietRail™ - Attachment to Building Structure

The Lower Rails can be attached to the building support structure by welding, bolting, or concrete anchors with Attachment Angles welded to the Lower Rails (By Kinetics). The minimum allowable size for support beams is 5" wide.

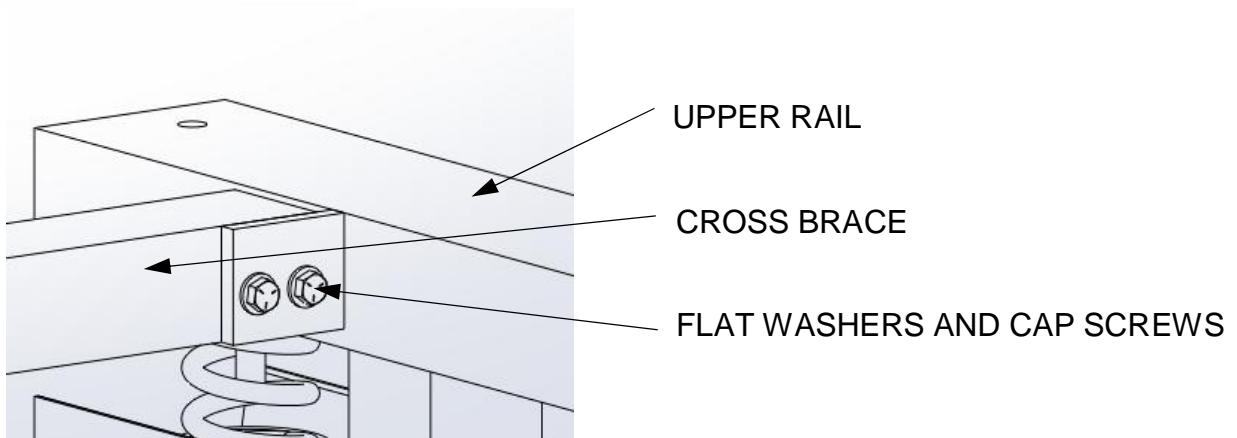
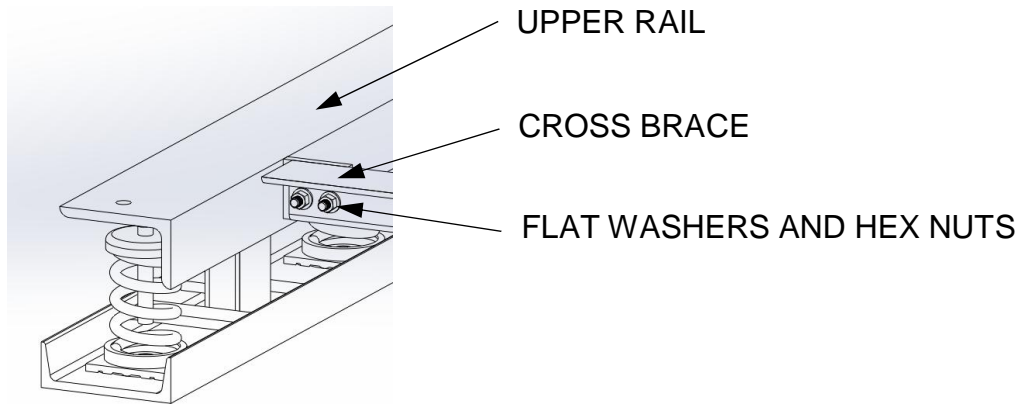
ATTACHMENT DATA

- TO ACHIEVE FULL RATING, WELD EACH LOWER RAIL TO STRUCTURAL STEEL ON BOTH SIDES, CENTERED ON EACH RESTRAINT LOCATION - (MIN) 0.25" FILLET WELDS 6" LONG.
- TO ACHIEVE FULL RATING, BOLT EACH LOWER RAIL TO STRUCTURAL STEEL USING 1/2" FASTENERS, ASTM A325 OR SAE GR. 5, IN ALL HOLES PROVIDED IN LOWER RAIL.
- CAPACITY MAY BE REDUCED WHEN USING CONCRETE ANCHORS WITH THE ATTACHMENT ANGLES.



QuietRail™ - Assembly and Mounting to Building Structure

1. Align the Lower Rails in the required location on the support structure. Loosely assemble the supplied fasteners and Cross Braces onto the tabs in the Upper Rails as shown below.



2. For bolted or concrete anchor attachment methods, assemble mounting bolts or anchor fasteners into the Lower Rails. For welded attachment, tack weld the Lower Rails in place.
3. Torque the supplied fasteners for the Cross Braces onto the tabs in the Upper Rails to 50-58 ft-lbs.
4. Torque the attachment fasteners to specifications or weld Lower Rails to structure as specified in above section *QuietRail™ Attachment to Building Structure*.

QuietRail™ - Setting Equipment

1. DO NOT remove the plastic spacers located between the underside of the Upper Rail and Restraints. These spacers support the equipment until the springs are adjusted.
2. Carefully align the supported equipment with the mounting holes provided in the Upper Rails.
3. Lower the equipment into place taking care to apply the load equally to both rails and evenly along the length of the rails. Do not slide the equipment when the full weight is on the rails.
4. Bolt the equipment to the Upper Rails using fasteners specified by the manufacturer in all holes provided in the Upper Rails.

QuietRail™ – Adjustment Procedure

1. Before adjusting the Spring Isolators, the supported equipment must be at its installed operating weight. If the equipment is to be filled with a fluid, add the fluid to the required operating level prior to adjustment of the Spring Isolators.
2. Apply grease with EP additives to the Leveling Bolts to reduce friction.
3. Begin at one end of one rail. Turn each Leveling Bolt 3-4 turns, continuing along the same rail, then repeating on the other side.
4. Continue in the same order, turning each Leveling Bolt 3-4 turns until the load is removed from all the White Plastic Spacers on the Restraints and the Upper Rails float off the White Plastic Spacers.
5. Completely remove all White Plastic Spacers by prying them apart with a screwdriver or chisel.
6. Confirm that all Neoprene Snubbing Elements in the Restraints are not contacting the stops on the Lower Rails. ($\frac{1}{4}$ " radial clearance to the holes and $\frac{1}{4}$ " vertical clearance)
7. Confirm that the supported equipment is level within the manufacturer's tolerances.
8. Adjust Leveling Bolts, if needed.

