

MODELS:**H6Axx, H6JPx, H6JNx, H6TSx****General Notes**

1. These instructions are for Horizontal cantilever mounting only. For surface mounting in a vertical orientation, see supplemental instructions SL-2.
2. Maximum size is unlimited. However, sunshade louvers larger than the maximum single section size require field assembly from smaller louver sections to make the overall size.
3. Louvers are designed for 30 lbs per square foot wind loading. However, outriggers and louver frames require support from the building structure to provide the overall structural integrity. In some cases, support rigging is also required to meet wind load requirements.
4. Some structural members, mounting angles, clips, fasteners, and installation hardware may be required and supplied by the installing contractor. The details shown herewithin are recommendations only. Consult project submittal drawings for specific instructions about the installation for your project.
5. Read the entire installation instruction and review the submittal drawings prior to proceeding with installation.

General Installation Requirements

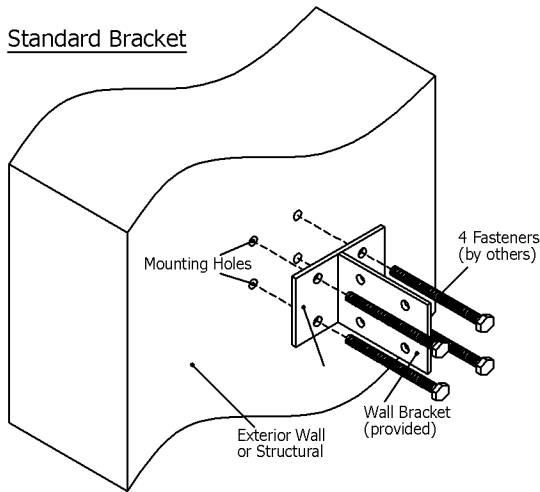
1. For wall bracket mounting instructions, refer to page 2. If a wall cladding is being applied to the building exterior, install extended wall brackets prior to the installation of any exterior wall cladding.
2. For multiple panel units, refer to submittal drawings for wall bracket locations and spacing. Refer to page 3 for additional information about spacing of the wall brackets.
3. Outriggers are mounted to the wall brackets prior to the installation of louvers. Refer to page 3 for outrigger mounting procedures. Refer to project shop drawings for any deviations or additional requirements for your project.
4. Louvers must slide freely between outriggers. Ensure that all outriggers are aligned and level. Make any adjustments prior to the insertion of the louvers.
5. 3 trim styles are available for the outside perimeter of our sun shading system. The details show our "tube trim" style but bullnose or tapered round may be provided and attached in the same manner as the tube trim.
6. Front and end trim are "snap fit" to the louver perimeter and end outriggers. Make sure all trim is properly seated after installation.

Wall Bracket Mounting Details

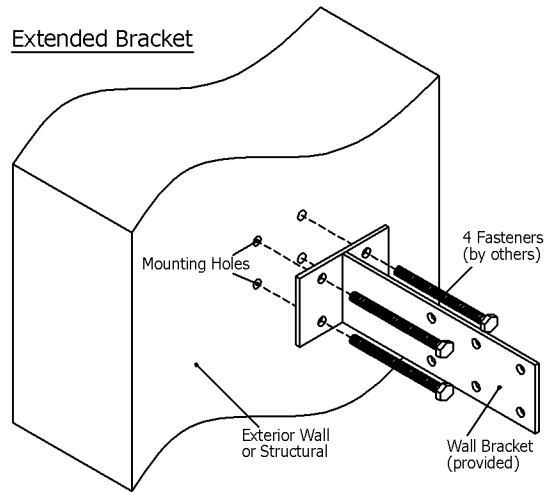
Surface Mounting to Wood, Steel, Masonry, or Concrete Walls

1. Wall surface must be flat and smooth. Level any surface irregularities prior to installation of wall brackets
2. For the appropriate wall substrate, select fasteners with 1/2" diameter and rated for a pull-out capacity in excess of the forces required to support the sunshade. The pull out forces will vary depending on the sunshade dimensions, mounting bracket spacing, and the local wind speeds.
3. Use the mounting bracket provided to mark the hole pattern at the desired location. Brackets may be standard length or extended for application of exterior cladding. Prepare mounting holes according to the instructions provided by the fastener manufacturer.
4. Mount the wall bracket with 4 fasteners through the pre-punched holes in the mounting bracket.

Standard Bracket



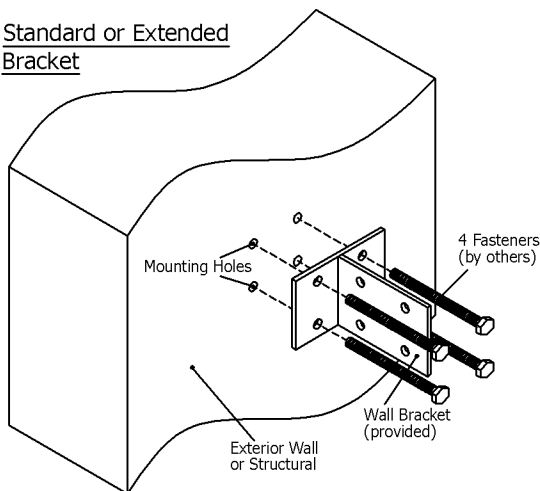
Extended Bracket



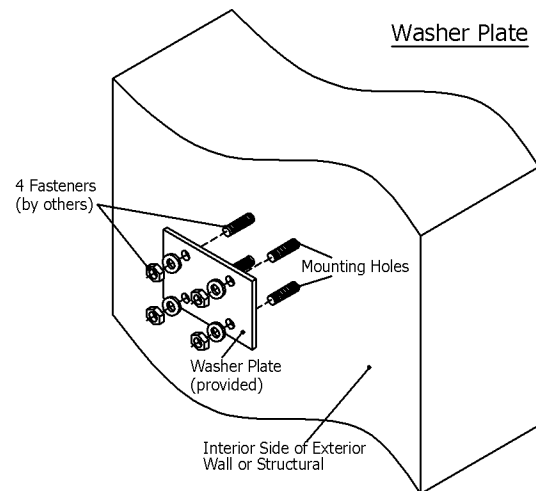
Through-Wall Mounting to Wood, Steel, Masonry, or Concrete Walls

1. Wall surface must be flat and smooth. Level any surface irregularities prior to installation of wall brackets
2. Select fasteners with a 1/2" diameter shaft and long enough to fasten through the wall thickness plus 1/2" (to accommodate the wall bracket and washer plate)
3. Use the mounting bracket provided to mark the hole pattern at the desired location. Brackets may be standard length or extended for application of exterior cladding. Prepare mounting holes according to the instructions provided by the fastener manufacturer.
4. Mount the wall bracket to the exterior side of the wall with 4 fasteners through the pre-punched holes in the mounting bracket. At the interior side of the wall, apply the washer plate over the 4 fasteners and secure the washer plate with lock washers and nuts.

Standard or Extended Bracket



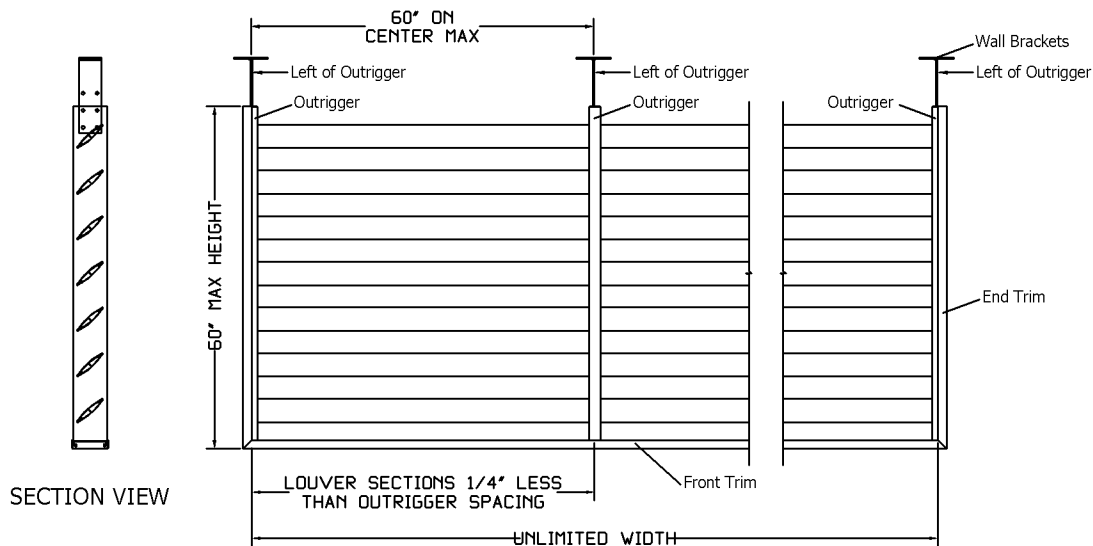
Washer Plate



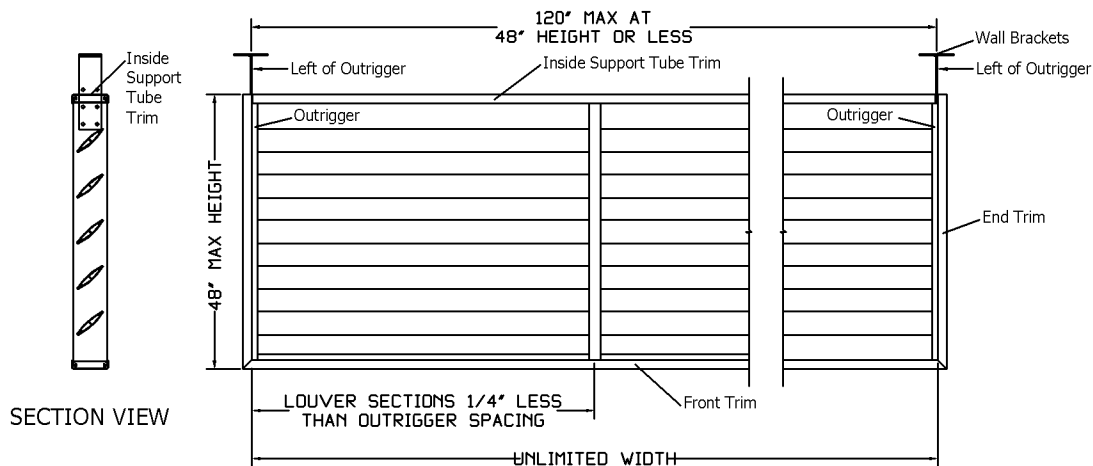
Wall Bracket Mounting Details

Spacing of Wall Brackets

1. Louvers fit into the outriggers provided with a minimal gap for louver expansion and contraction. Care must be taken in spacing the wall brackets to allow for proper system operation.
2. Space wall brackets according to the project shop drawings. Dimensions provided are on center (center to center of the wall bracket).
3. Mount all outriggers to the right side of each mounting bracket in a run. This will ensure proper gaps for installation of the louvered panels.
4. Ensure that all wall brackets are level for the entire run of brackets. Use a laser level or snap line to assist with proper leveling.
5. Measure each louver panel and determine locations. The wall brackets must be spaced 1/4" larger than the louver size for a proper fit (i.e. a louver with an outside width of 59-3/4" must have wall brackets spaced 60" on center). If the louvers are less than 48" high, the wall brackets may be spaced further with proper support. Consult project submittal drawings for more information.



TOP VIEW - SINGLE PANEL CONFIGURATION (1 LOUVER BETWEEN OUTRIGGER)



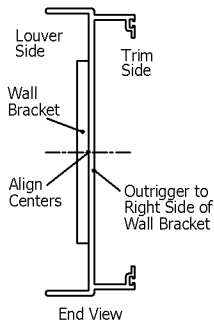
TOP VIEW - DOUBLE PANEL CONFIGURATION (2 LOUVERS BETWEEN OUTRIGGERS)

Outrigger Mounting Details

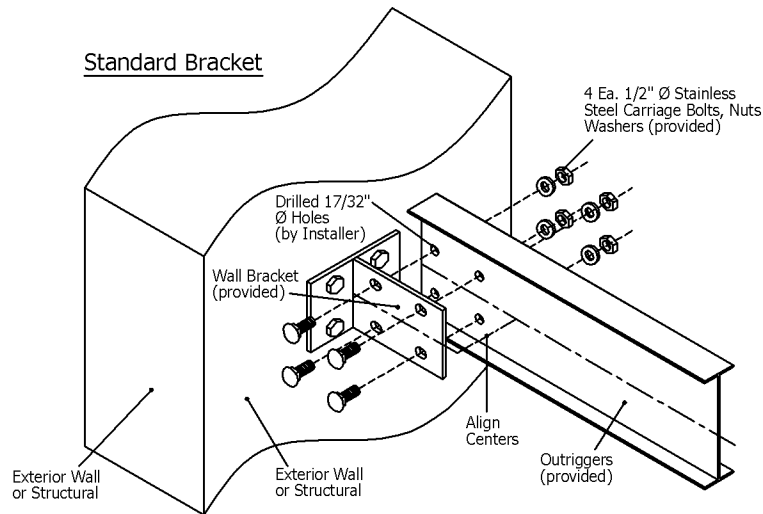
Mounting of Outriggers to Wall Brackets

1. Determine the locations for both Center Outriggers and End Outriggers and locate them accordingly.
2. Align each outrigger vertically on the center line of the wall mounting bracket. Outriggers install to the right of the mounting brackets at all locations.
3. Space the outrigger the desired distance from the exterior wall surface:
 - 1" if you DON'T have inner trim (single panel configurations only)
 - 2-1/2" if you have inner trim (possible with single or double panel configurations)
4. Level the outrigger with a Carpenter's Level or other leveling device. Use clamps or vice grips to assist with holding pressure.
5. Mark the hole locations in the outrigger using the existing holes in the wall mounting bracket. If the extended bracket is being used, any of the 4 holes will provide the necessary support.
6. Remove the outrigger and drill 17/32" \emptyset holes at the marked locations.
7. Mount the outrigger to the wall mounting bracket with 4 each 1/2" \emptyset bolts, nuts, and washers (provided). Again, check level of the outrigger and make adjustments as necessary.
8. If any penetrations through exterior cladding were made to accommodate the wall bracket, seal the penetrations with the proper trim and/or caulk. Care should be taken to allow for slight movement of the bracket during louver expansion and contraction.

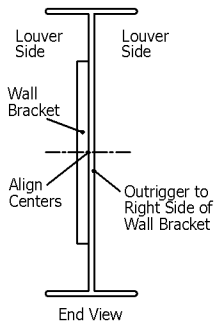
End Outrigger



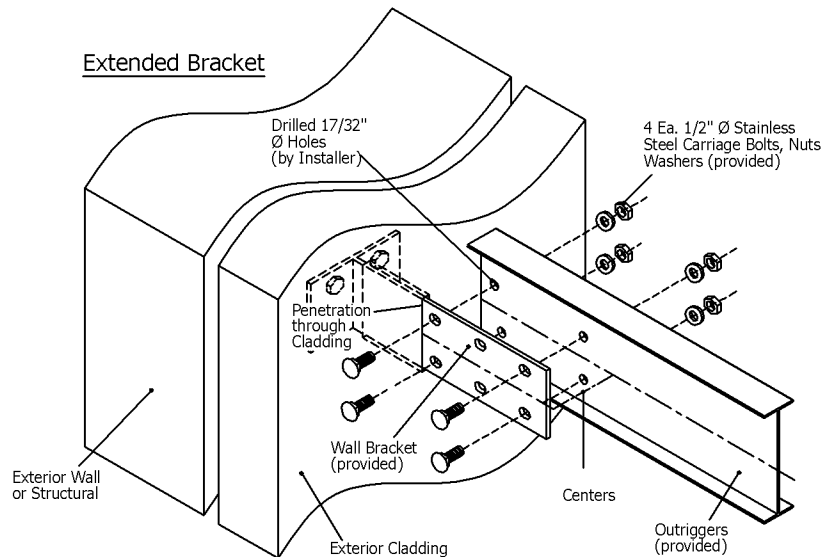
Standard Bracket



Center Outrigger



Extended Bracket

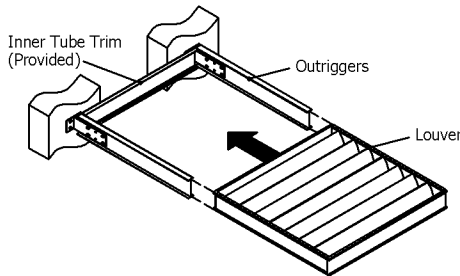


Louver Panel Mounting and Trim Attachment Details

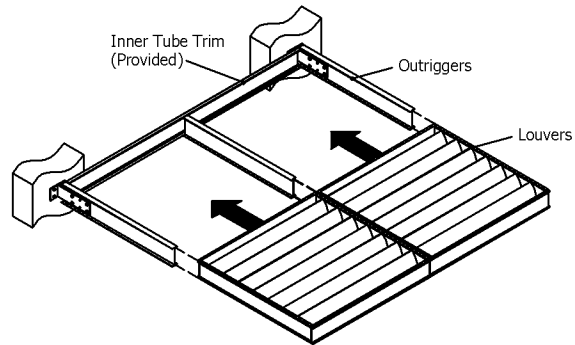
Mounting of Outriggers to Wall Brackets

1. Measure outrigger inside dimensions and match the proper louver(s) to the openings.
2. Orient the blades with the proper blade direction and angle to provide the intended shading. Refer to project shop drawings prior to insertion of the louvers.
3. If the double panel configuration is being utilized, locate the proper center mullion and rear tubing frame. Install these items as shown during the louver installation. The trim snaps onto the edge of the louver panels. Insure that the trim is properly seated onto the louver frames before continuing.
4. Slide the louvers between the outriggers, leaving 1" of the louver protruding from the end of the outrigger. A gap of 1/16" should exist between the louver frame and the outrigger (fig. 5.1)
5. Install the front trim onto the louver panels. End sections require a mitered corner front trim section. Center sections have straight cuts on both ends. The end of the trim must align with the center line of the outriggers. The trim snaps onto the edge of the louver panels. Insure that the trim is properly seated onto the louver frames before continuing.

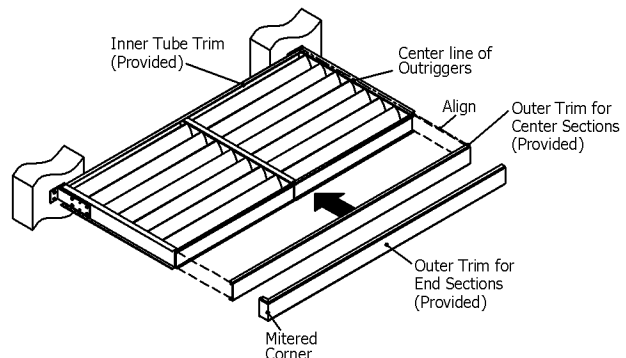
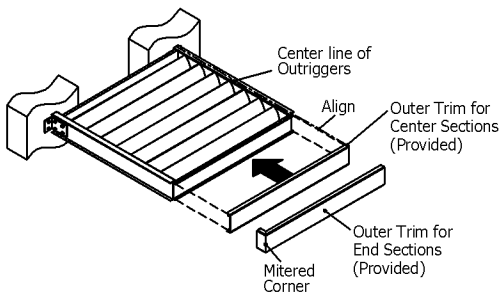
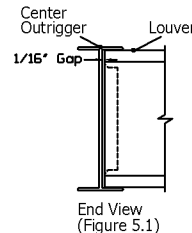
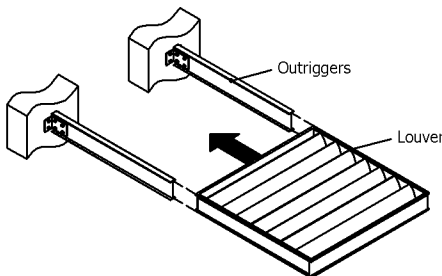
Single Panel Configuration
(with inner trim)



Double Panel Configuration
(includes inner trim)

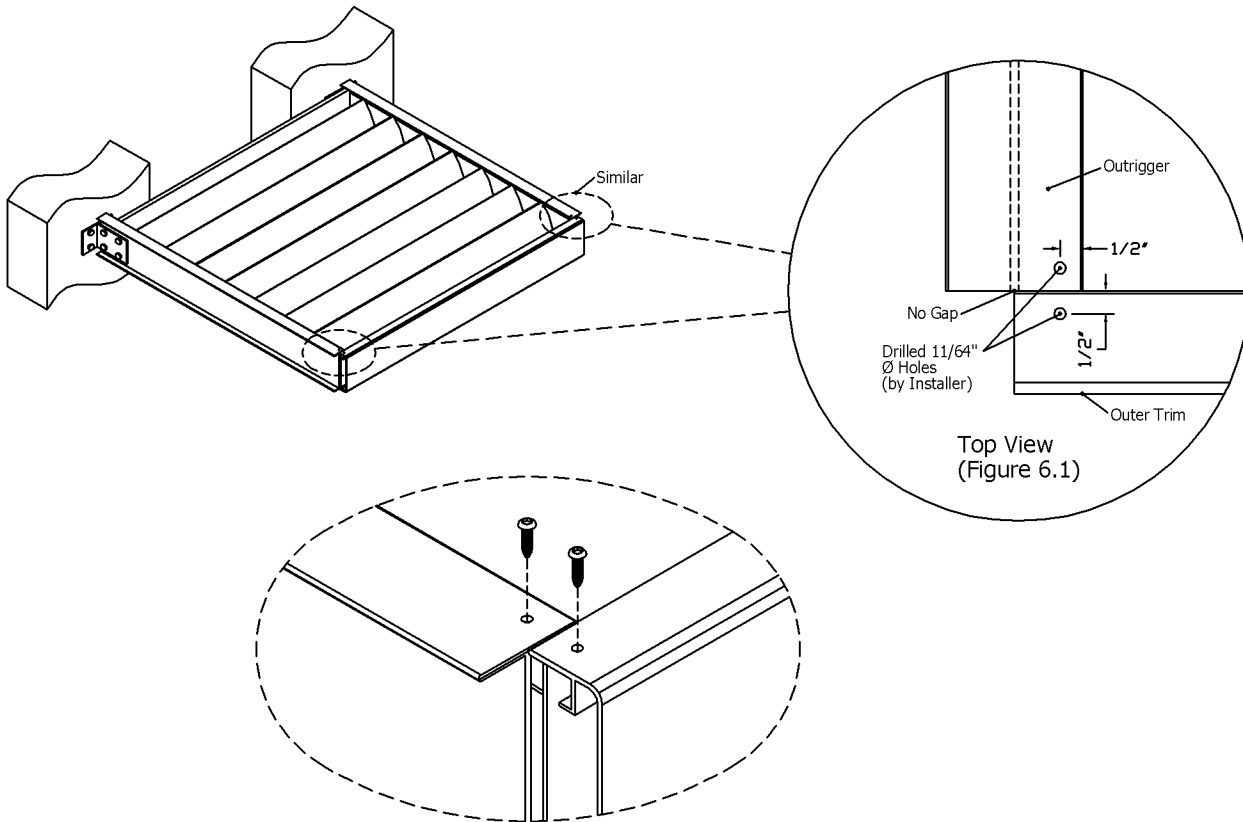


Single Panel Configuration
(no inner trim)



Alignment and Fastening Details

1. Apply pressure to the outer trim until the outer trim is flush with the end of the outriggers (all locations). Louvers should slide freely between the outriggers for easy in/out adjustment as required.
2. In the top side only, drill 2 holes 11/64" diameter as shown in figure 6.1. Holes should penetrate the outrigger/front trim and one layer of the louver frame material.
3. Drive #10 stainless steel screws into the holes. Carefully apply touch-up paint to the screw heads following installation.



End Trim Attachment Details

1. Align the end trim with the edge of the mitered corner trim. No gap should exist between trim parts. Install End trim onto the End Outriggers. The trim snaps onto the edge of the End Outriggers. Insure that the trim is properly seated and will not come loose when applying mild pressure.

