



Brightshelf[®] Installation Instructions

INSTALLATION INSTRUCTIONS

Note: Before starting installation please read entire document

Brightshelf[®] : MEASURING

Materials needed for measuring:

- Measuring tape
- Pencil / Marker
- Scissors
- Clear tape
- Brightshelf[®] measuring template (with mounting holes punched or scribed out)
- Ladder (if necessary)

STEP# 1: Determine mounting height of Brightshelf[®]

Using the graphic below, determine the proper mounting height for the Brightshelf[®] as it relates to the building latitude. If a window has an intermediate horizontal mullion, the Brightshelf[®] may be installed at intersection of the two mullions to allow for a more visually appealing installation (the provided template will assist in centering bracket at the intersection of the two mullions).

STEP# 2: Attach template

For face mounted applications, attach the provided measuring template with clear tape to the face of the mullions. Be sure to line up the mullion to the appropriate lines on template. For jamb installations, templates can be cut along the side of bracket, height of bracket should be marked on wall and bracket is to be mounted flush to the wall. See below illustrations.

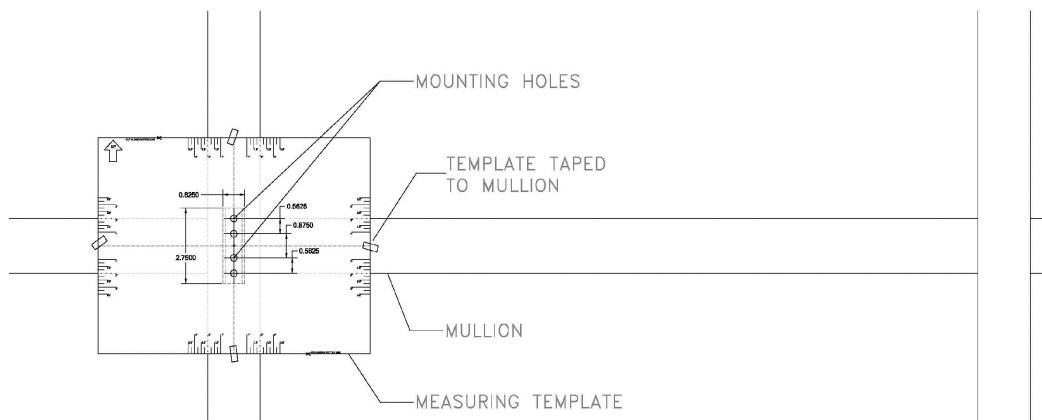


Fig. 1

- Measuring / Installation template to be taped to mullion
- Using hole in template, mark the mullion for mounting holes
- Repeat for all mullions at centerline
- Measure from centerline to centerline for ordering width of Brightshelf[®]

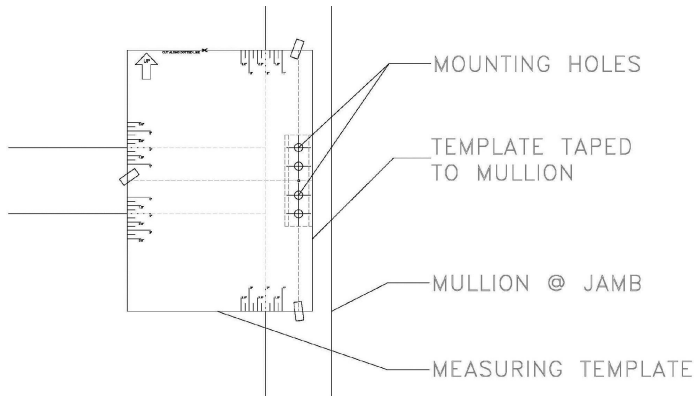


Fig. 2

- Measuring / Installation template to be taped to mullion @ jamb
- Using holes in template, mark the mullion for mounting holes
- Repeat for all mullions at jamb
- Measure from centerline to centerline for ordering width of BrightShelf®

STEP# 3: Mark holes

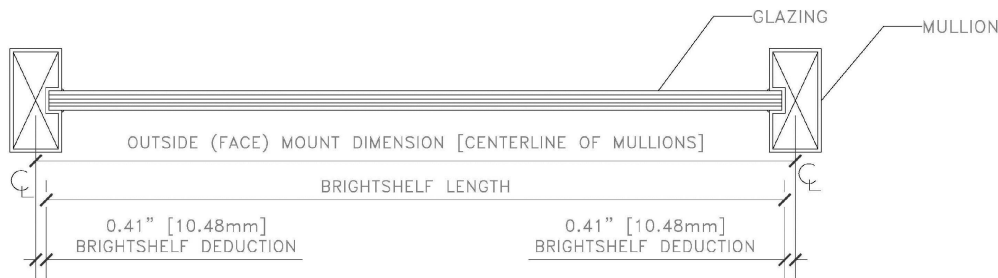
Ensure each side of template is taped to the mullion for accuracy. Mark the mullion through the holes in the template.

STEP# 4: Remove Template

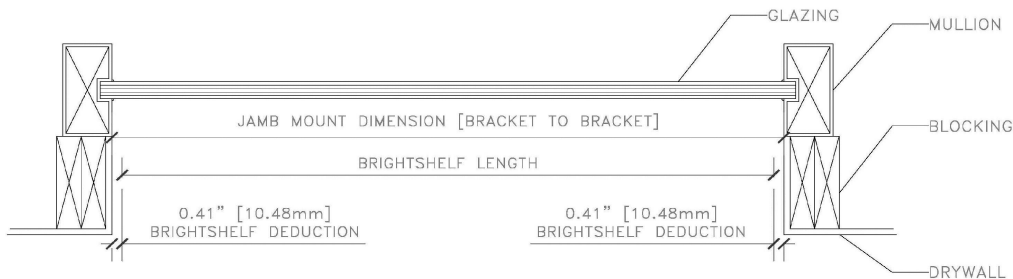
Remove the template and move to next mullion; repeat steps one (1) and two (2).

STEP# 5: Measure

Using the newly marked centerlines on the mullions; measure from the first vertical mullion to the second (see below).



In a jamb mounted installation, instead of using the provided template, the measurements will be taken from the finished mounting height and across from jamb to jamb. See below for illustration.



This measurement can be submitted to H&H Enterprises, Inc. for quoting and/or production. Please contact customer service if additional assistance is required.

Brightshelf® : MOUNTING SHELF

Tools/Items required for Installation:

- **Power Drill**
- **Extension bit (varies depending on hardware)**
- **Fasteners (not supplied by H&H Enterprises, Inc.) See shop drawings for appropriate size and locations.**

STEP #1: Verify site is ready for installation

Brightshelf® is a finish product; therefore it should be one of the final elements of the interior finish of a room. Improper scheduling practices are the cause of most damage to light shelves. Ensure that all electrical, HVAC, fire sprinkler, glazing, ceiling, and painting work have been completed prior to the light shelf installation (carpet and flooring installation may occur, and is suggested, afterward if desired).

In some cases the contractor may want to install the attachment clips and field verify center-center dimensions prior to the fabrication of the shades and/or shelves. In this case, the clips may be installed at any time after the substrate is in.

STEP #2: Unpacking the crate

Prior to starting any installation of Brightshelf® it is imperative that you have all the right pieces for the job. Ensure that the contents of the crate match the shipping papers and the drawings. Each crate contains boxes of Brightshelf® sections that are clearly labeled with job name, room location mark, and shelf section mark. Each crate shall be numbered and corresponding contents listed on the shipping manifest.

Care should be taken when opening the outer crate to avoid damage to the boxes packed within. Brightshelf® boxes are stacked vertically during shipment to reduce shipping damage and care should be taken to ensure that boxes do not spill sideways once the initial crate is broken open.

STEP #3: Open the Brightshelf® boxes

To prevent any accidental damage to your Brightshelf® carefully cut only the strapped portions of the boxes open.

DO NOT CUT OR SLICE THE CARDBOARD PORTION AS YOU MAY INADVERTANTLY SCRATCH THE BRIGHTSHELF®

Once the straps are all cut the box should easily open allowing access to the shelf. Carefully remove the shelf and recycle cardboard packaging. Do not remove the protective films on either the top or bottom sheet at this time.

STEP #4: Install the Brightshelf®

Holding the Brightshelf® at approximately 30 degrees from vertical, match the angled plane of the two installed shoulder bolts on the shelf to the clip initial track opening. Slip the shelf pins into the track until they set firmly into the clip.

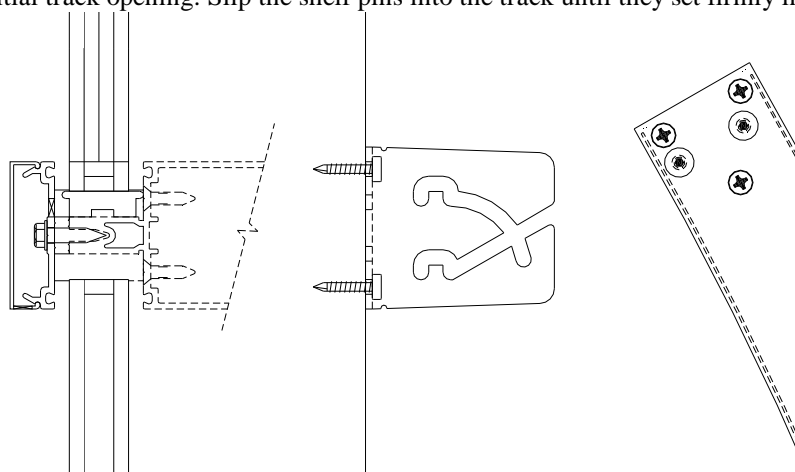


Fig. 1: Illustrates the angle of the Brightshelf® to be held for install, approx. 30 degrees from vertical

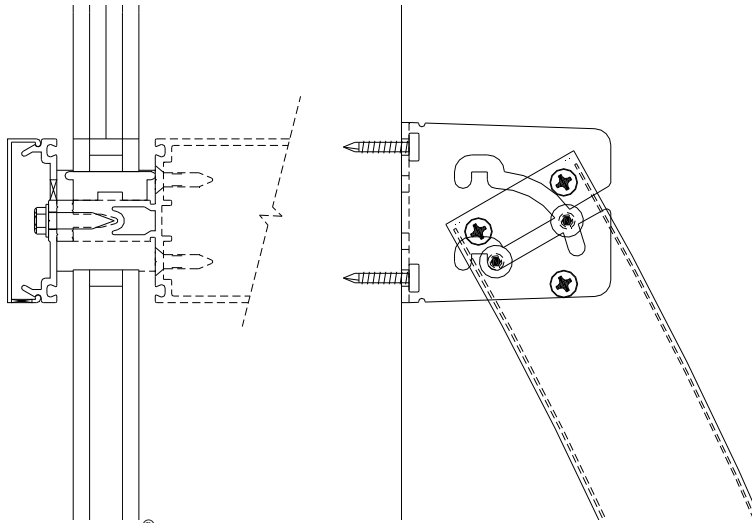


Fig. 2: Illustrates Brightshelf[®] shoulder bolt pins inserted within the clip system.

STEP #5: Rotate the Brightshelf[®] Down & Clean

Once the shelf stops the back pin should be rested in a groove that will allow the other pin to fall into the lower groove of the clip. Once the shelf is resting in its downward position, remove the protective film off the upper sheet. Pull the film off in a parallel direction with the width of the shelf. If peel coating is removed perpendicular to the shelf, the inadvertent damage may be cause to the sheet or the sheet may disengage from the frame. Take care not to impose any undue load on the shelf system in this position as this may damage the shelf, the clip, or the substrate (See Figure 4 below). Once the protective film is removed, clean the surface free of any dirt, debris, or fingerprints according to practices stated in the Maintenance & Care Guide.

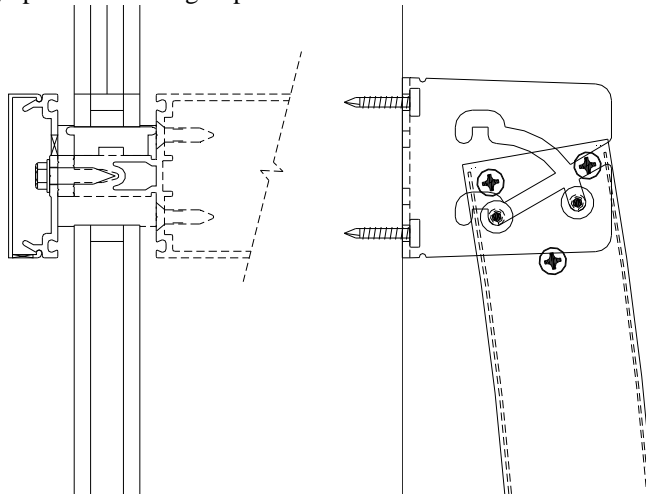


Fig. 3 Illustrates the rotated down position for maintenance (the shelf will not slide out in this position)

STEP #6: Rotate the Brightshelf® upward into fixed position

Placing one hand on the center of the front extrusion, and the other hand on the center of the back extrusion, rotate the shelf to its horizontal position. Once the shelf stops, while maintaining a horizontal shelf position, a slight upward, then inward, then downward movement will lock the shelf into its final fixed position.

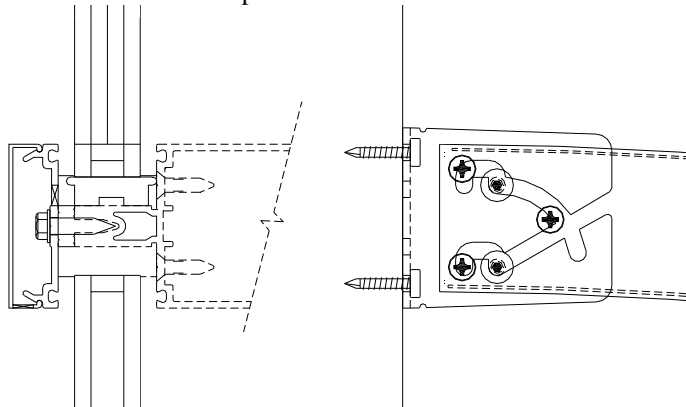


Fig. 4: Illustrates the shelf in the horizontal position, but not positively engaged and locked into bracket

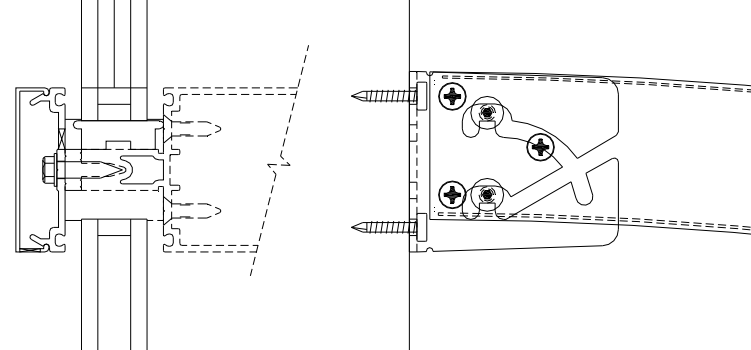


Fig. 5: Illustrates an upward then inward motion of the self-locking shelf from further rotation up and down

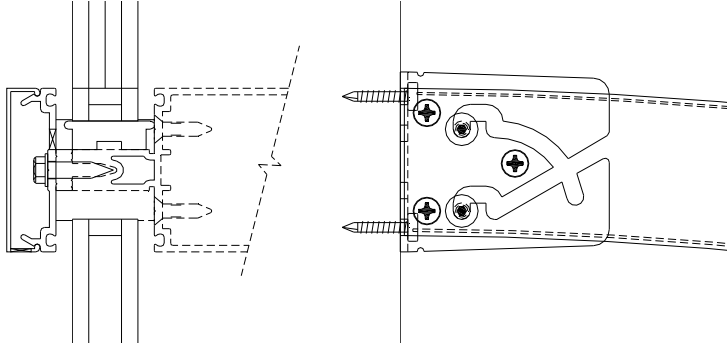


Fig. 6: Illustrates the shelf in serviceable fixed normal position. This is the normal position of the shelf.

STEP #7: Align Brightshelf® units

Minor adjustments in levelness may need to be made once installed. If the shelves do not align properly the shelf may need to be removed and racked (twisted) slightly. To do this, remove the shelf that is in need of adjustment from the clips and apply opposite rotational pressure to each end cap in a torsional movement. This is easily done by holding one end cap still while applying opposite rotational pressure on the opposite end cap. Do not apply pressure to the sheeting material as this may dent the shelf. This will allow the extrusions to rotate slightly on the end caps resulting in changing the hanging position of the shelf. Reinstall the shelf to check if further corrective action is necessary, if so repeat until units align as desired.

STEP #8: Install the plastic clip cap

Plastic clip caps are easily installed by placing the cap over the ears of the clip and pressing until the clip snaps into the grooves on the ears of the clips. Be careful to ensure that the caps are fully engaged in the grooves as these caps ensure the shelf will not inadvertently exit the clip, causing the shelf to fall.

STEP #9: Remove Protective Film and Final Clean

Remove the protective film carefully from the underside sheet by pulling horizontally at a sharp angle to the shelf surface. Pulling downward may cause the shelf to pop out of shape and dent or damage the bottom sheet. The sideways pull of the protective coating removal will most likely cause the shelf to move to the extreme side of one of the clips, this is normal and once the coating is removed the shelf can be centered by simply sliding back the shelf into the center of the clips opening. Perform a final clean in accordance to the Maintenance & Care Guide on the rest of the shelf system. Note that the protective film can remain in place for up to two weeks or until all site debris has been cleared.

For additional information and introduction video, please visit www.Brightshelf.com

CONTACT INFORMATION

H&H Enterprises, Inc.- Architectural Metals
12520 Grant Drive #100
Thornton, CO 80241
info@Brightshelf.com
303-429-4847
303-429-0826 fax



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U.S. Patent 8,027,092B1