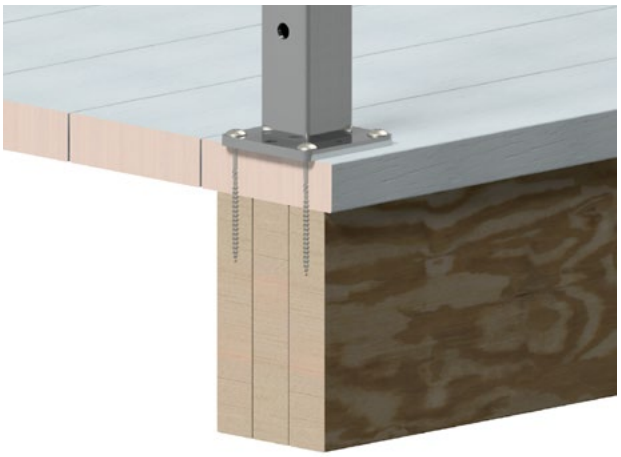
# Post Blocking Instructions

## Surface Mounted Posts



When mounting a post down to a wood surface, it is important to have at least 4” of proper blocking. Proper blocking is solid wooden material that is firmly attached to the structure of the surrounding framing. Improper blocking could result in difficulties leveling the post, a weakened railing system, or product defect.

Surface mounted posts will be fastened to the structure using four 5/16” x 4” lags.

***This blocking will work for glass systems such as: Base Rail, Surface Talons, or Ascend Talons***

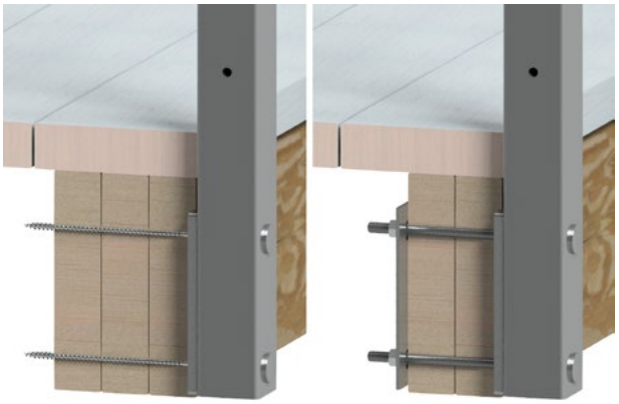
## Side Mounted Posts

When mounting a post to the side, or fascia, of a deck or balcony there are two mounting hardware options: wood lags or through-bolts.

If you are using lags to attach your post to the fascia, you must have the equivalent of triple 2”x8” or greater. Side mounted posts will be fastened with four 5/16” x 6” lags.

If you are using through bolts to attach your post to the fascia, you must have the equivalent of a double 2”x8”. These posts will be fastened with four 5/16” x 6” bolts. The bolts will go through the mounting plate, through the 2x8’s, through the two metal backing plates, through the 5/16” Stainless Steel Washer, and tightened with the 5/16” Stainless Steel Hex Nuts.

## Slim Side Mounted Posts

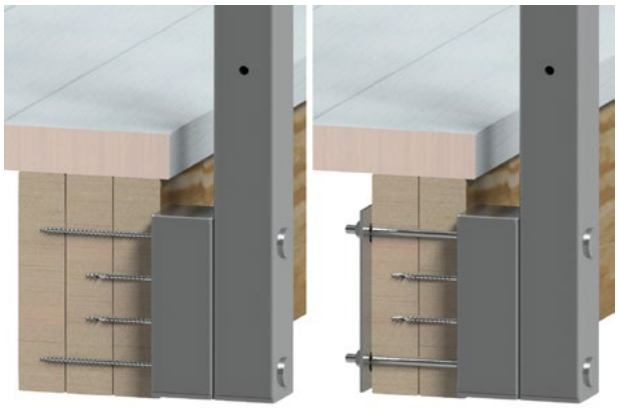


When mounting a post to the side, or fascia, of a deck or balcony there are two mounting hardware options: wood lags or through-bolts.

If you are using lags to attach your post to the fascia, you must have the equivalent of triple 2”x8” or greater. Side mounted posts will be fastened with four 5/16” x 6” lags.

If you are using through bolts to attach your post to the fascia, you must have the equivalent of a double 2”x8”. These posts will be fastened with two 5/16” x 6” bolts. The bolts will go through the 3/8” Flat Washer Nylon, through the post, through the 2x8’s, through the metal backing plate, through the 5/16” Stainless Steel Washer, and tightened with the 5/16” Stainless Steel Hex Nuts.

## Slim Side Mount Bump Out Posts



When mounting a post to the side, or fascia, of a deck or balcony there are two mounting hardware options: wood lags or through-bolts.

If you are using lags to attach your Bump Out Post to the fascia, you must have the equivalent of triple 2”x8” or greater. Slim Side Mounted Bump Out posts will have an additional 2”x2”x6” addition. This will be fastened to the fascia first with two 21/2” screws. The post body will mount against this bump out using 5/16” x 6” lags.

If you are using through bolts to attach your post to the fascia, you must have the equivalent of a double 2”x8”. Slim Side Mounted Bump Out posts will have an additional 2”x2”x6” addition. This will be fastened to the fascia first with two 2-1/2” screws. The post body will be fastened against the bump out with two 5/16” x 6” bolts. The bolts will go through the 3/8” Flat Washer Nylon, through the post and bump out, through the 2x8’s, through the metal backing plate, through the 5/16” Stainless Steel Washer, and tightened with the 5/16” Stainless Steel Hex Nuts.

## Angle Knee Wall Posts

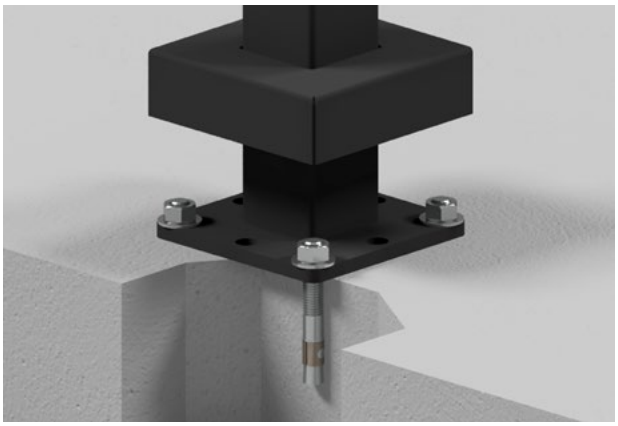
When mounting a post down to a wood surface, it is important to have at least 4” of proper blocking. Proper blocking is solid wooden material that is firmly attached to the structure of the surrounding framing. Without proper blocking, the posts will be difficult to level, not support the proper amount of weight, or even cause product defects.

Angle Knee Wall posts will be fastened to the angled structure using four 5/16” x 4” lags.

## Special Application Posts

The user may choose other methods based upon their research and experience. Load calculations are based upon uncracked 3000 PSI concrete. Wedge Anchors have ICC-ES approvals for use in uncracked concrete (ICC-ES ESR-2251). If your concrete is different, please consult the tables at itwredhead.com for ratings.

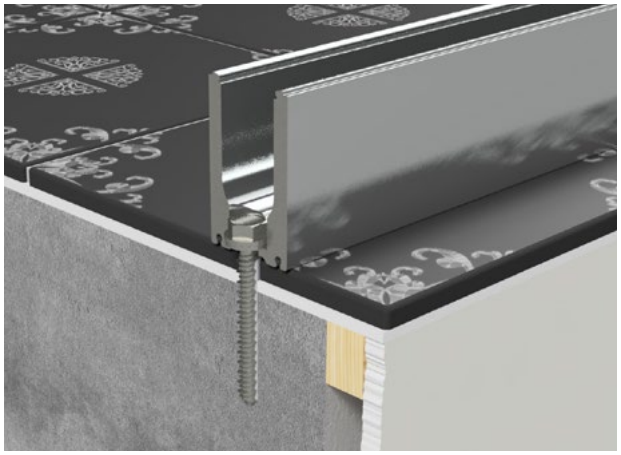
Posts will utilize a 4-1/2” square mounting plate and will be fastened with 3/8” x 3-3/4" concrete wedge anchors.



# Glass Blocking Examples

## Base Rail - Wood

- 1/2" x 4" Hex Head Lag Screw
- .521″ x .934″ x .100″ Washer
- Minimum of 4" of structural blocking



## Base Rail - Concrete

- 1/2" x 4" Hex Head Concrete Anchor
- Minimum of 4" of structural blocking

## Glass Pins - Wood

- 3/8" x 6" Hex Head Lag Screw
- 3/8″ Flat Washer
- Minimum of 4" of structural blocking

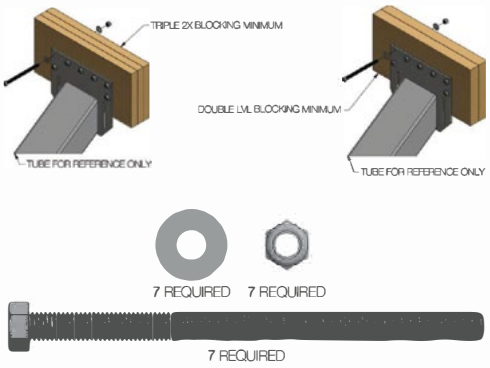
## Glass Pins - Concrete

- 3/8" x 6" Hex Head Concrete Anchor
- 3/8″ Flat Washer
- Minimum of 4" of structural blocking

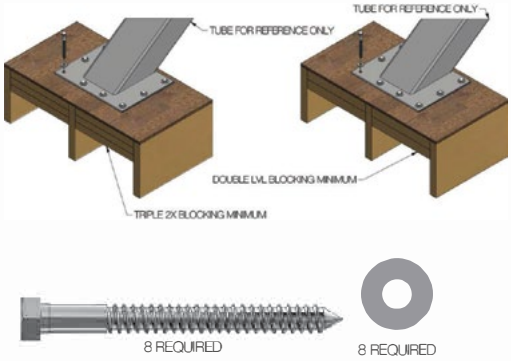
# Site Connections Details

## STRINGER- SITE CONNECTIONS

### VERTICAL PLATE TO WALL
### WOOD FRAMING CONNECTION DETAIL

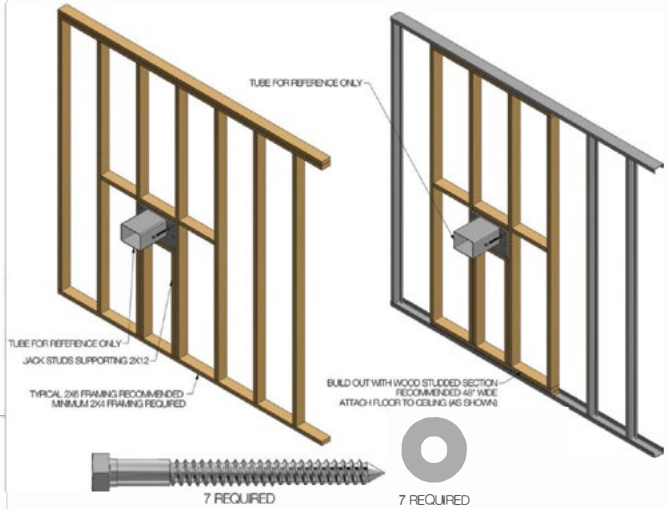



### FOOT PLATE TO FLOOR
### WOOD FRAMING CONNECTION DETAIL




## CONNECTION DETAILS WOOD FRAMING

### LOWER STRINGER PLATE TO WALL
### WOOD / METAL FRAMING CONNECTION DETAIL




**GENERAL**

- CUSTOMER IS RESPONSIBLE FOR ENSURING THEIR FRAMING / STRUCTURE CAN BEAR THE LOAD OF THE VIEWRAIL FLIGHT SYSTEM.
- YOUR TECHNICAL DRAWINGS WILL PROVIDE INFORMATION USED TO LOCATE THE REQUIRED BLOCKING. STANDARD CONSTRUCTION METHODS FOR ADDING BLOCKING SHOULD BE FOLLOWED. IF THERE IS NO ACCESS TO AREAS REQUIRING BLOCKING, FLOOR/WALL BOARD SHOULD BE REMOVED TO GAIN ACCESS
- ALL HOLES IN MOUNTING PLATES MUST BE POPULATED WITH APPROPRIATE HARDWARE
- FOR WALL CONNECTIONS, CUT OUT WALL BOARD. HEADER PLATE MUST SIT DIRECTLY AGAINST BLOCKING TO AVOID CRUSHING WALL BOARD AND COMPROMISING STRENGTH
- FOR FOOT CONNECTIONS, REMOVE COMPRESSIBLE (CARPET) / BREAKABLE (TILE) MATERIALS AND MOUNT DIRECTLY TO SUB-FLOOR (UNLESS MOUNTING DIRECTLY TO FINISHED FLOOR SUCH AS HARDWOOD).
- HEADER PLATE MUST SIT DIRECTLY AGAINST BLOCKING TO AVOID CRUSHING WALL BOARD AND COMPROMISING STRENGTH

**WOOD OR METAL FRAMED WALL / FLOOR CONNECTION NOTES**

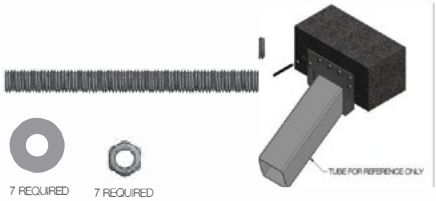
- BLOCKING / LVL MUST BE A MINIMUM OF EITHER DOUBLE STACKED LVL or TRIPLE STACKED DIMENSIONAL LUMBER (2X10, ETC)
- STEEL STUDS ALONE ARE NOT ADEQUATE TO SUPPORT FLIGHT SYSTEMS. SUITABLE WOOD FRAMED SECTIONS MUST BE FRAMED IN AND ATTACHED TO FLOOR / CEILING. (RECOMMENDED 48" WIDE)

**CONCRETE WALL / FLOOR CONNECTION NOTES**

- FOR MOUNTING PLATES TO CONCRETE MINIMUM 4" OF CONCRETE REQUIRED (NOT SUITABLE FOR LIGHTWEIGHT MASONRY SUCH AS BLOCK OR BRICK)
- HIGH STRENGTH, TWO PART STRUCTURAL EPOXY FOR VERTICAL AND HORIZONTAL APPLICATIONS IN CONCRETE AND MASONRY SUBSTRATES IS REQUIRED

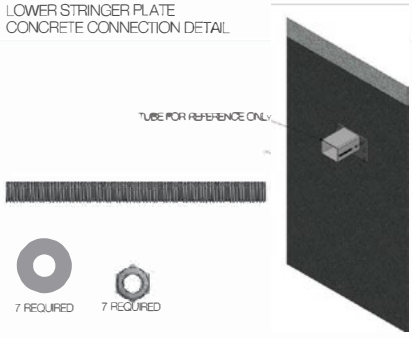
## MOUNTING TO CONCRETE
## CONNECTION DETAILS

### VERTICAL PLATE TO WALL
### CONCRETE CONNECTION DETAIL




### FOOT PLATE TO FLOOR
### CONCRETE CONNECTION DETAIL


### LOWER STRINGER PLATE
### CONCRETE CONNECTION DETAIL




VIEWRAIL
INSTALLATIONS