

Strong-Frame[®] Moment Frame Installation Instructions

Strong Frame Installation

T-Stub Yield-Link[®] Installation

Each Simpson Strong-Tie[®] Strong Frame includes all of the hardware necessary for assembly. Listed below are the necessary parts provided for each beam.

Bag A: Anchor bolt nuts

- (8) Heavy hex nuts A563DH
- (8) Hardened washers F436

Note: Anchor bolt quantity and diameter may vary by design.

Bag B: Beam web to shear tab

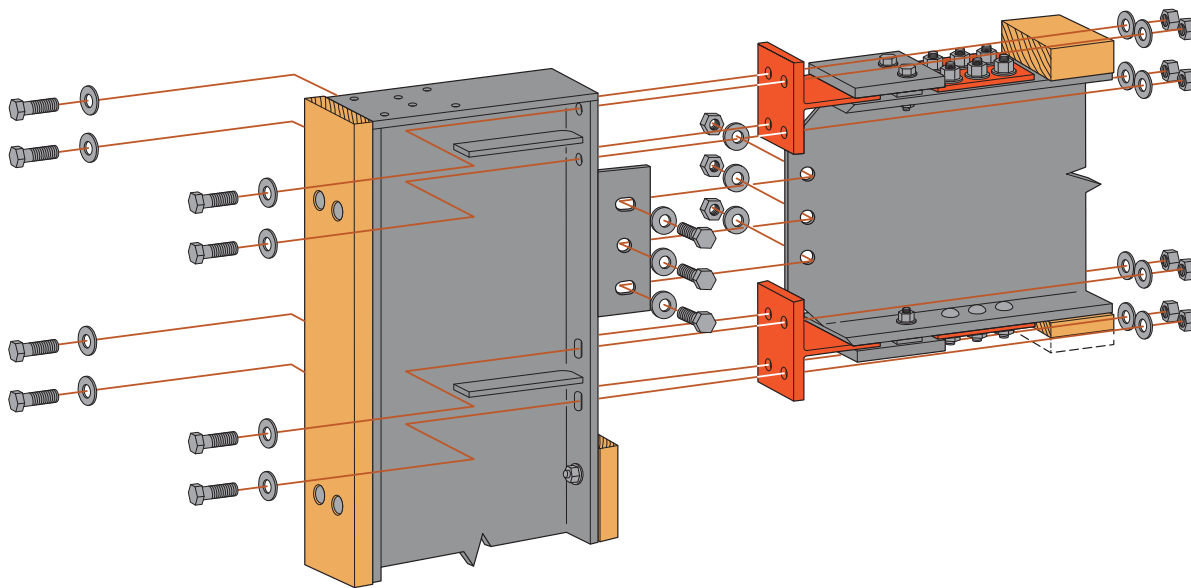
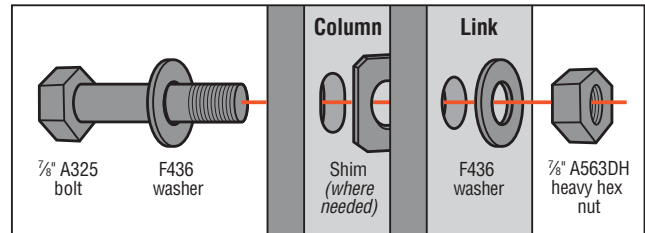
- (6) High-strength bolts A325 type 1
- (6) Heavy hex nuts A563DH
- (12) Hardened washers F436

Note: Shear tab bolt quantity and diameter may vary by design.

Bag C: Column flange to Yield-Link

- (16) High-strength bolts A325 type 1
- (16) Heavy hex nuts A563DH
- (32) Hardened washers F436

Note: Bolt diameter and quantity will vary with MF6-X links.



T-Stub Yield-Link

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Strong Frame Installation (cont.)

Suggested Installation Instructions

1. Install center $\frac{7}{8}$ " bolt through shear tab to the web of the beam on both ends. Finger-tighten only at this time.
2. Install four top $\frac{7}{8}$ " A325 structural bolts and washers (see illustration) through column flange to the top holes on the top-of-beam Yield-Link® structural fuse. Finger-tighten only at this time. Repeat on opposite side.
3. Using proper equipment, raise the frame assembly and place over the previously installed anchor bolts and onto the eight leveling nuts that have been installed about 1" above concrete.
4. Brace the frame temporarily using standard methods that comply with OSHA and local jurisdictional safety practices.
5. Using the leveling nuts, adjust the height of the frame so it ties into the surrounding wall framing and until the steel beam is level. Then plumb the columns in the perpendicular direction and then brace to hold in place. This bracing will be removed once the frame is completely installed and tied in.
6. Install the eight heavy hex nuts and washers on the anchor bolts and finger-tighten. Then add $\frac{1}{2}$ turn using a wrench.
7. Next, install the lower $\frac{7}{8}$ " A325 bolt and washers through the column into the bottom-of-beam flange of the Yield-Link structural fuse that is diagonally opposite of the first nut bolt installed in the top-of-beam Yield-Link fuse. Install $\frac{7}{8}$ " nut and finger-tighten.
8. Install the remaining $\frac{7}{8}$ " bolts through the column to the Yield-Link fuse and finger-tighten only.
9. Install the four remaining $\frac{7}{8}$ " bolts through the shear tab to the beam flanges, install nut, and tighten.
10. Utilizing a criss-cross pattern, tighten all $\frac{7}{8}$ " A325 bolts until snug tight.*
11. Place the two infill blocks provided on top of the Yield-Link structural fuse and nail through the top plate using eight 0.148" x 3" nails or as specified by the designer.
12. Lace the 2x top plate from adjoining walls over the factory installed Yield-Link structural fuse attached to the top of the steel beam where applicable. Install fasteners to the top plate-to-nailer connection as specified by the designer.
13. Remove temporary bracing.
14. Place nonshrink grout under base plate.
15. Install provided Strong-Drive® SDS screws to blocking or framing above as applicable or as specified by the designer.

(2) additional nuts and (4) additional washers may be required and provided for job specific designs. All holes in shear tab must be filled.

* A snug-tightened bolted connection is defined in the RCSC *Specification for Structural Joints Using High-Strength Bolts*. The definition is the tightness attained with a few impacts of an impact wrench or the full effort of an ironworker using an ordinary spud wrench to bring the plies into firm contact. All field-installed bolts in the Simpson Strong-Tie® Strong Frame require snug-tight bolted connections only.

