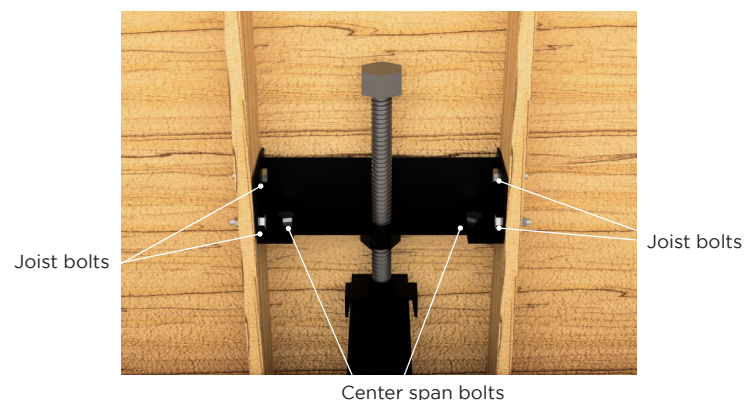
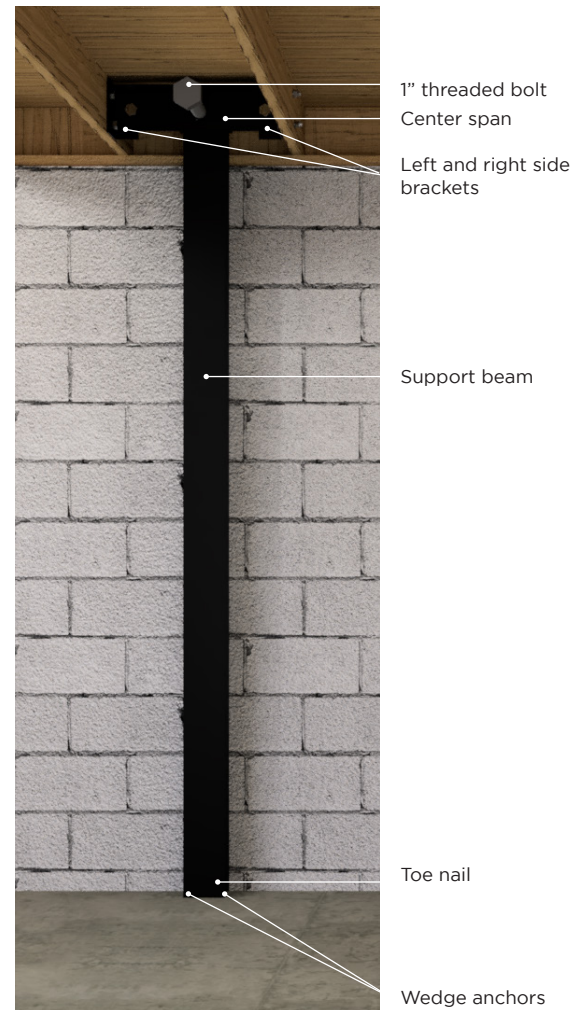


### Perpendicular Joist System (FA-PERP-P)

1. Measure the height of the wall from the concrete slab to the top of the floor joist.
2. Cut the S4x7.7 support beam to length, leaving approximately 2" of clearance to the top of the joist.
3. Mark locations for installation centered between the joists. Spacing will be dependent on the type of wall and the height of the backfill.
4. Place the toe nail bracket and support beam against the wall at marked location. The toe nail should be placed such that the wedge anchors will be on either side of the web with the support beam resting on it.
5. Loosely bolt together the left and right brackets to the center span so it can be used as a template for drilling. Ensure the left and right side brackets are on the correct side.
6. Screw the system to the joists using the wood screw holes, aligning the bottom edge with the bottom of the joist, ensuring the system is square with the wall. Allow minimum 2" clearance behind the welded nut of the bracket and the beam.
7. With the brackets temporarily screwed in place, drill 5/8" diameter holes in floor joists and fix the brackets to the joists with the provided 5/8" hardware.
8. Drill 5/8" holes in the concrete and use the provided 5/8" concrete wedge anchors to fix the toe nail in place.
9. Tighten the two 5/8" bolts that hold the center span together, ensuring the system is centered over the beam. The slots allow for minor adjustments.
10. With all brackets fully tightened, thread in the 1" bolt into the welded nut and place the top beam connection in place when the bolt extends through.
11. Torque the 1" bolt to 50 ft-lb.



### Parallel Joist System (FA-PAR-P)

1. Measure the height of the wall from the concrete slab to the top of the floor joist.
2. Cut the S4x7.7 support beam to length, leaving approximately 2" of clearance to the top of the joist.
3. Mark locations for installation. Spacing will be dependent on the type of wall and the height of the backfill.
4. Place the toe nail bracket and support beam against the wall at marked location. The toe nail should be placed such that the wedge anchors will be on either side of the web with the support beam resting on it.
5. Install lumber blocking similar in size to the floor joists used in tandem (2 joist width), with a minimum of 4 joist spans from the joist closest to the wall.
6. Place the top bracket as close to the wall as possible with the bracket fully seated against the blocking and screw into place with wood screws.
7. With the bracket temporarily screwed in place, drill the 5/8" diameter holes through the blocking and fix the top bracket in place using provided 5/8" hardware.
8. Butt the blocking reinforcement brace against the top bracket and use the provided wood screws to fix in place.
9. Drill 5/8" holes in the concrete and use the provided 5/8" concrete wedge anchors to fix the toe nail in place.
10. Thread in the 1" bolt into the welded nut and place the top beam connection in place when the bolt extends through.
11. Torque the 1" bolt to 50 ft-lb.

