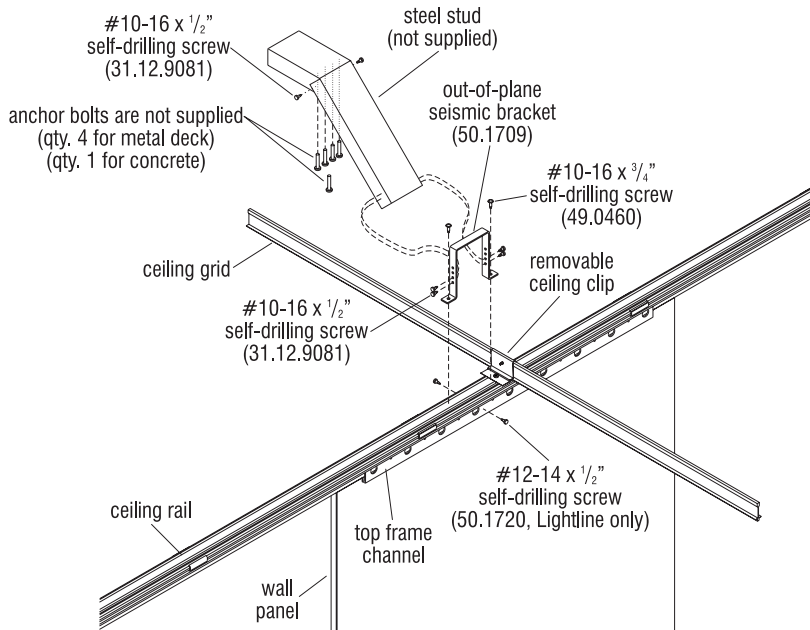


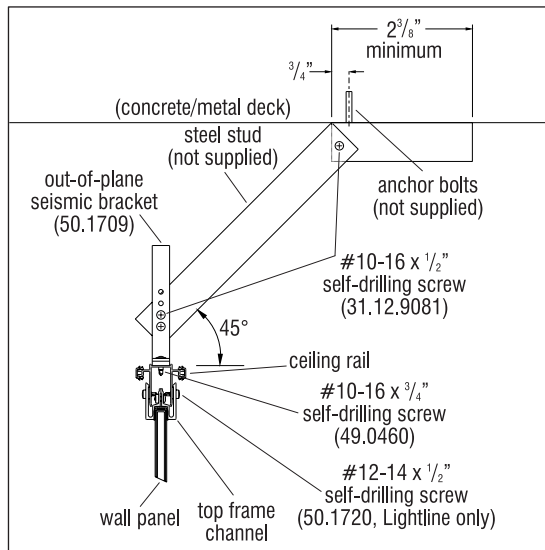
# Assembly Instructions ■

## Seismic Bracing for Architectural Walls

March 2017



**Figure 1 - Out-Of-Plane Seismic Bracing Assembly**



**Detail A**



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Lightline is shown in this instruction, but this also applies to Genius and Evoke architectural walls.

### Out-of-Plane Seismic Bracing

**Note:** Steel studs and anchor bolts are not supplied.

1. Take an appropriate length (final length will be trimmed down precisely in step 3) steel stud section in hand, measure a  $2\frac{3}{8}$ " minimum length off one end, snip the flange at both sides, then bend the stud section, hinging it inward as illustrated, allowing the flanges to fold over (Figure 1 & Detail A).
2. With the assistance of a second person, align and install the steel stud to the underside of the concrete or metal deck ceiling using appropriate anchoring hardware. Four anchors (metal deck) or one anchor (concrete) should be installed  $\frac{3}{4}$ " back from the bend, following manufacturer's installation instructions (Figure 1 & Detail A).
3. Perform a dry-fit of the ceiling installed steel stud section, bent down to the location of the out-of-plane seismic bracket (50.1709) held in position on the panel ceiling rail. The steel stud must meet the out-of-plane seismic bracket to be at a  $45^\circ$  angle off the ceiling rail as illustrated. Trim the steel stud to size and trim corners from the flanges near the ceiling rail as required for correct fitment (Figure 1 & Detail A).
4. Secure the out-of-plane seismic bracket to the top of the panel ceiling rail using two #10-16 x  $\frac{3}{4}$ " self-drilling screws (49.0460) (Figure 1 & Detail A).
5. Make final alignment of steel stud end to mounted out-of-plane seismic bracket and secure stud to bracket using four #10-16 x  $\frac{1}{2}$ " self-drilling screws (31.12.9081) (Figure 1 & Detail A).
6. At the top bend of the steel stud, install two #10-16 x  $\frac{1}{2}$ " self-drilling screws (31.12.9081) into the overlapping flanges to secure as illustrated (Figure 1 & Detail A).
7. For Lightline panels only, install two #12-14 x  $\frac{1}{2}$ " self-drilling screws (50.1720) directly under each out-of-plane seismic bracket to secure the top frame channel of the panel frame to the ceiling rail (Figure 1 & Detail A).
8. Repeat the procedures above to install the remaining out-of-plane seismic brackets.
9. Remove seismic ceiling clips as required by local codes (Figure 1).



## ■ Seismic Bracing For Architectural Walls

### Assembly Instructions

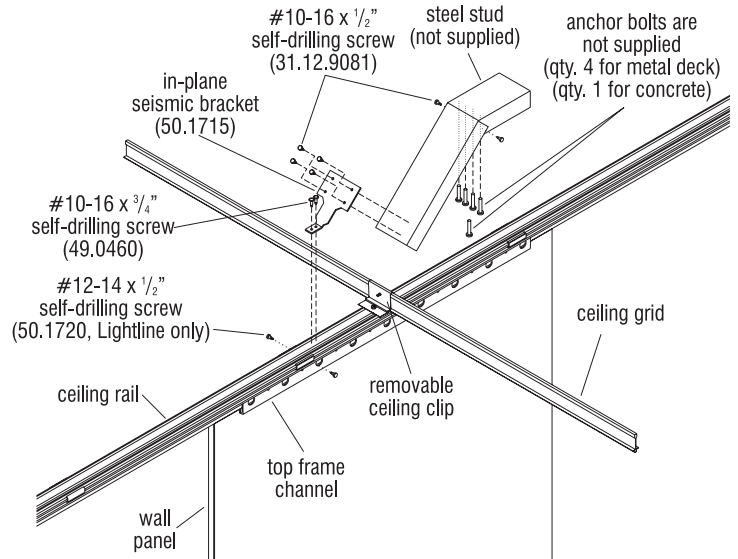


Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

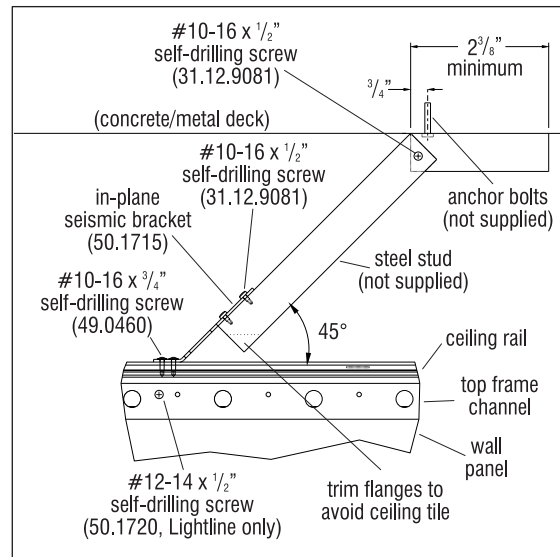
#### In-Plane Seismic Bracing

**Note:** Steel studs and anchor bolts are not supplied.

1. Take an appropriate length (final length will be trimmed down precisely in step 3) steel stud section in hand, measure a  $2\frac{3}{8}$ " minimum length off one end, snip the flange at both sides, then bend the stud section, hinging it inward as illustrated, allowing the flanges to fold over (Figure 2 & Detail B).
2. With the assistance of a second person, align and install the steel stud to the underside of the concrete or metal deck ceiling using appropriate anchoring hardware. Four anchors (metal stud) or one anchor (concrete) should be installed  $\frac{3}{4}$ " back from the bend, following manufacturer's installation instructions (Figure 2 & Detail B).
3. Perform a dry-fit of the ceiling installed steel stud section, bent down to the location of the in-plane seismic bracket (50.1715) held in position on the panel ceiling rail. The steel stud must meet the in-plane seismic bracket to be at a  $45^\circ$  angle off the ceiling rail as illustrated. Trim the steel stud to size and trim corners from the flanges near the ceiling rail as required for correct fitment (Figure 2 & Detail B).
4. Align the in-plane seismic bracket to the steel stud and secure the in-plane seismic bracket to the top of the panel ceiling rail using two #10-16 x  $\frac{3}{4}$ " self-drilling screws (46.0460) (Figure 2 & Detail B).
5. Position the hanging steel stud onto the mounted in-plane seismic bracket and secure stud to bracket using four #10-16 x  $\frac{1}{2}$ " self-drilling screws (31.12.9081) (Figure 2 & Detail B).
6. At the top bend of the steel stud, install two #10-16 x  $\frac{1}{2}$ " self-drilling screws (31.12.9081) into the overlapping flanges to secure as illustrated (Figure 2 & Detail B).
7. For Lightline panels only, install two #12-14 x  $\frac{1}{2}$ " self-drilling screws (50.1720) directly under each in-plane seismic bracket to secure the top frame channel of the panel frame to the ceiling rail (Figure 2 & Detail B).
8. Repeat the procedures above to install the remaining in-plane seismic brackets.
9. Remove seismic ceiling clips as required by local codes (Figure 2).



**Figure 2 - In-Plane Seismic Bracing Assembly**



**Detail B**

