Assembly Instructions

Ceiling Bracing for Architectural Walls

Seismic Bracing - Kicker Assembly

Note: Steel tracks and anchor bolts are not supplied.

1. Determine a suitable location to install the seismic bracket (50.1793) to the top of the ceiling rail. The bracket will install directly below the top structure that steel track #2 will attach to above. When locating the seismic bracket, also account for where steel track #1 can attach to appropriate structure off at an angle from the bracket. Secure the seismic bracket (50.1793) to the top of the ceiling rail as illustrated using six #10-16 x 1/8" self-drilling screws (49.0460) (Figure 1 & Detail A).

2. Next, create both #1 and #2 steel tracks. Take an appropriate length steel track section for each (final length will be trimmed precisely in step 3) and measure a 2 1/2" minimum length back from one end, snip the flange at both sides, then bend the minimum end sections of each as illustrated (one up to 45° and one at 90°), allowing the flanges to fold over (Figure 1 & Detail A).

3. With the assistance of a second person, dry-fit both steel track sections, from the top structure mounting location to the installed seismic bracket (50.1793) and trim tracks to length for correct fitment. Steel track #1 will meet inside the seismic bracket at an angle, while steel track #2 will mount vertical between the top structure and the seismic bracket (Figure 1 & Detail A).

4. Once both tracks are pre-fit between the upper structure and seismic bracket, attach each steel track to the upper structure (concrete/metal/wood) using appropriate hardware. Four anchors must be used for track to metal/wood structure and one anchor/hardware is required for concrete. All hardware must be installed 1/8" away from the bend as illustrated. Follow anchor bolt manufacturers instructions (Figure 1 & Detail A).

5. Make final alignment of #1 and #2 lower steel track ends to the appropriate mounting holes in the seismic bracket on the ceiling rail. Use six #10-16 x 1/8" self-drilling screws (31.12.9081) to attach steel track #2 and two screws to attach steel track #1 to the seismic bracket as illustrated (Figure 1 & Detail A).

6. At the top bend of both steel tracks, where the flanges overlap, install one #10-16 x 1/8" self-drilling screw (31.12.9081) into each overlapping pair of flanges to secure (Figure 1 & Detail A).

7. Repeat the procedures above to install remaining seismic bracing kicker assemblies as required and remove seismic ceiling clips as required by local codes.

Assembly 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.

Figure 1 - Seismic Bracing - Kicker Assembly

Detail A

Note: This instruction applies to Genius and Evoke architectural walls.

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Ceiling 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.

Off-Center Seismic Bracing - Kicker Assembly

Note: Steel tracks and anchor bolts are not supplied.

1. Determine a suitable location to install the seismic bracket (50.1793) to the top of the ceiling rail. The seismic bracket should be positioned to allow steel track #3 to reach a suitable structure directly above itself when mounted to steel track #1 which is mounted off the seismic bracket (see Figure 4 for assembly reference). When locating the seismic bracket for installation, also account for where steel track #2 can attach from track #1 and reach up to appropriate structure at an angle (see Figure 4 for assembly reference). Secure the seismic bracket (50.1793) to the top of the ceiling rail as illustrated using six #10-16 x 3/4" self-drilling screws (49.0460) (Figure 2).

2. Create steel track #1 length first to reach from the installed seismic bracket, over to a location where steel track #3 can reach vertically up to structure above (see Figure 4 for assembly reference). Steel track #1 will be made of two identically cut lengths of track fastened together and will not require any cuts for a bend (Detail B). It must extend horizontally from the seismic bracket to the location where steel track #2 can attach to it. Take into account that steel track #2 will bend up at an angle to the appropriate structure above (see Figure 4 for assembly reference). Once the length is determined for steel track #1, cut two pieces of the track material to equal size and nest them together. The open "channel" sides should be facing each other and will fit together with their side flanges offset from each other (Detail B).

Secure both tracks together at the side flanges with #10-16 x 1/2" self-drilling screws (31.12.9081) (Figure 3). Note: Screw quantity will be determined by length of track and site conditions.

3. Install steel track #1 to the seismic bracket by placing one end inside the installed seismic bracket such that the side flanges of the tracks mate inside the bracket at the top four mounting holes on each side. This allows for maximum room to re-install ceiling tiles. Secure steel track #1 to the seismic bracket with eight #10-16 x 1/2" self-drilling screws (49.0460) as illustrated (Figure 3 & Detail C).

Figure 2 - Off-Center Seismic Bracing - Seismic Bracket Assembly

Detail B - Steel Track #1 Assembly

Figure 3 - Off-Center Seismic Bracing - Steel Track #1 to Seismic Bracket
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.

4. Next, create both steel tracks #2 and #3 to mount between structure above and to the installed steel track #1. To create each, take an appropriate length steel track section (final length will be trimmed precisely in step 7) and measure a 2½" minimum length back from one end, snip the flange at both sides, then bend the minimum end sections of each as illustrated (one up to 45° and one at 90°), allowing the flanges to fold over (Figure 4 & Detail C).

5. With the assistance of a second person, perform a dry-fit of steel track #3 from top structure mounting location, down to the installed steel track #1 and trim steel track #3 to length as necessary for correct fitment (Figure 4).

6. Next, align steel track #2 to the top structure it will mount to, and align the opposite end of track to the exposed end of the previously mounted steel track #1. Trim to size, but allow enough material to make an attachment flange for attaching track #2 to #1. Once cut to size, create the attachment flange by cutting into the end that will mate with steel track #1 about 1" at each side flange crease and bend up. Steel track #2 attachment flange will now meet on top of the horizontally mounted steel track #1 at an angle, while steel track #3 will mount vertically, from top structure straight down to steel track #1 (Figure 4 & Detail C).

7. Once tracks #2 and #3 are pre-fitted between the upper structure and steel track #1, first attach each steel track to the upper structure (concrete/metal/wood) using appropriate hardware. Four anchors must be used for track to metal/wood structure and one anchor/hardware is required for concrete. All hardware must be installed ¾" away from the bend as illustrated. Follow anchor bolt manufacturers instructions (Figure 4 & Detail C).

8. Make final alignment of both lower steel track ends #2 and #3 to the appropriate mounting locations on the steel track #1. Use four #10-16 x ½" self-drilling screws (31.12.9081) to attach both steel track #3 and steel track #2 to the horizontally mounted steel track #1 as illustrated (Figure 4 & Detail C).

9. At the top bends of the structure mounted ends of steel tracks #2 and #3, where the flanges overlap, install one #10-16 x ½" self-drilling screw (31.12.9081) into each overlapping pair of flanges to secure (Figure 4 & Detail C).

10. Repeat the procedures above to install remaining seismic bracing kicker assemblies as required and remove seismic ceiling clips as required by local codes.

Figure 4 - Off-Center Seismic Bracing - Kicker Assembly

Detail C