

Installation Instructions

Joint System: 461, 471-A01

Note: Verify that the structural gap and blockout dimensions are in conformance with submittal data before beginning installation. If this is a Fire Rated Assembly, the fire barrier must be installed before the Architectural Joint System. Refer to the fire barrier instructions for specific system installation.

FIG. 1 (461-A01 New to Existing Floor to Floor shown)

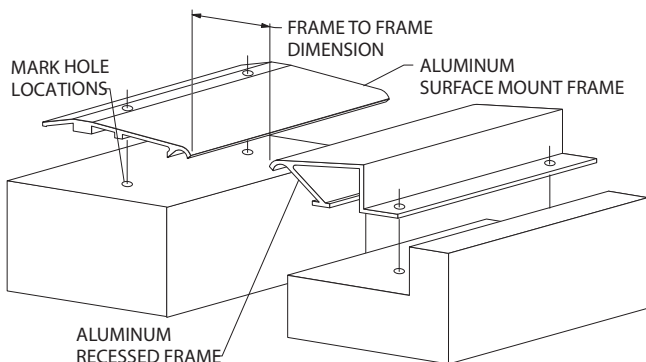


FIG. 1A (471-A01 Floor to Floor shown)

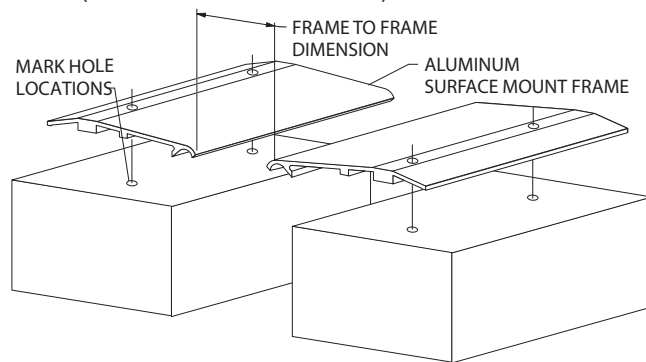
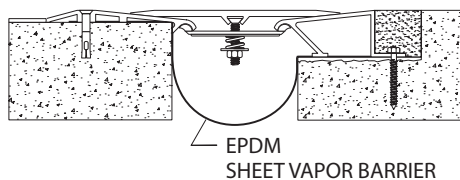


FIG. 1B



1. Install the architectural joint system on a level surface. To determine blockout depth for 461 system, deduct the thickness of the floor finish from the frame height. This may require adding leveling compound to raise or level the frames.

Figure 1

2. Cut the aluminum components to the desired length.
3. 3a. For 461 system, place the recessed frame in the blockout with the radius profile of the frame facing the structural gap. Place the opposing surface mount frame on the existing substrate with the radius profile facing the structural gap.
3b. For 471 system, place the surface mount frames on both sides of the structural gap with the radius profiles of the frames facing the structural gap (see Figure 1a).

To properly space frames for the 461 system, use the chart below to determine the distance between the opposing outside faces of the radius profiles on the frames:

Joint Width		Frame to Frame	
US	MM	US	MM
2"	50	1½"	38
3"	75	2"	51
4"	100	2½"	64
6"	150	3½"	89
8"	200	5⅛"	130

4. Mark the pre-drilled hole locations on the substrates and remove the frames.
5. 5a. For 461 system, drill holes in the blockout using a 3/16" (5mm) concrete drill bit to 15/8" (42mm) depth. Drill holes in the existing substrate using a 1/4" (6mm) concrete drill bit to 23/4" (70mm) depth.
5b. For 471 system, drill holes in the existing substrate using a 1/4" (6mm) concrete drill bit to 23/4" (70mm) depth.

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FIG. 2 (461-A01 Floor to Floor shown)

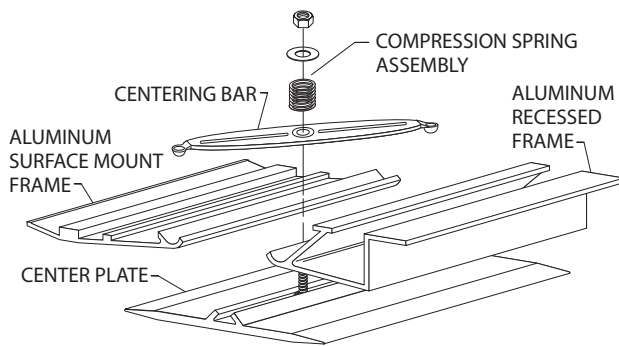


FIG. 3

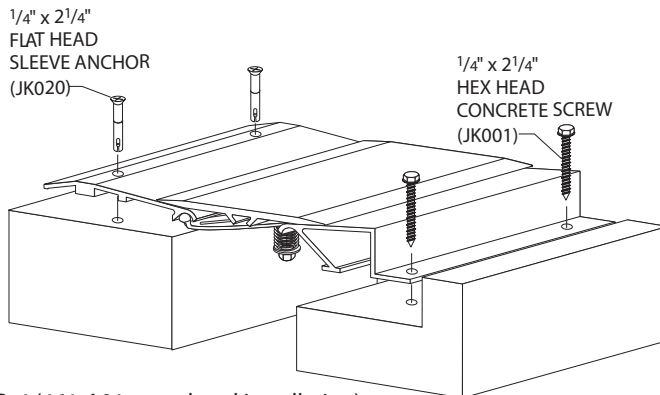
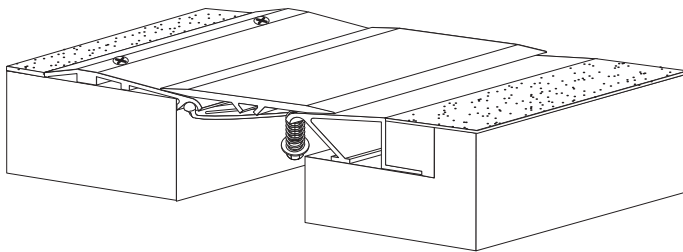
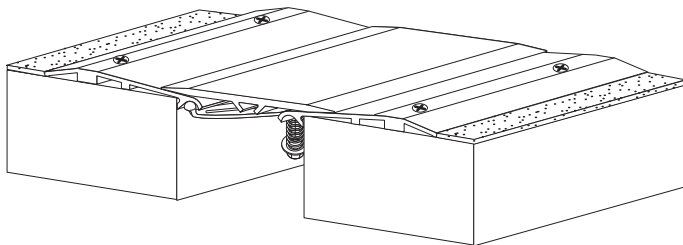


FIG. 4 (461-A01 completed installation)



(471-A01 completed installation)



5c. Optional EPDM Vapor Barrier: Lay continuous bead of butyl rubber caulk in the blockout and substrate. Starting at one end, place vapor barrier evenly in blockout and surface substrate allowing the excess material to drape into the structural gap. If necessary, vapor barrier may be fastened to substrate with masonry nails. Fold ends up (see Figure 1b).

Figure 2

6. Place the opposing aluminum frames upside down and spaced apart per the chart above, plus half the structural joint width (this is important to pretension the spring).
7. Slide the center plate beneath both frames with the screw slot facing upwards.
8. Slide the heads of the flat head machine screws (from the spring pack) down the slot of the center plate. Space screws approximately every 18" on center starting 6" from each end.
9. Place one centering bar on each screw with the rounded domes facing the center plate. Place one compression spring over each screw followed by the washer and nut. The centering bar domes should fit into the frame channels and be aligned diagonally and parallel with each other. Hand tighten each nut so that the spring is compressed approximately 20%.

Figure 3

10. Flip system upright and place in the blockout (461 system) or on the surface substrate (471 system) so that it is centered over the structural gap. Compress the frames together so that the pre-drilled frame holes are positioned over the drilled hole locations in the substrate.
11. To secure the recessed floor frame (461 system) in place, use JK001 1/4 x 2 1/4" hex head concrete screws. To secure the surface mount frames for both 461 and 471 systems, use JK020 1/4 x 2 1/4" flat head concrete sleeve anchors.

Figure 4

12. For 461 system, backfill the blockout of the recessed floor frame with high strength non-shrink epoxy grout (installer furnished). On both systems, install the floor finish level to the top or edge of the frames. Clean the exposed surfaces with a non-solvent cleaner, such as 409, as required.

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