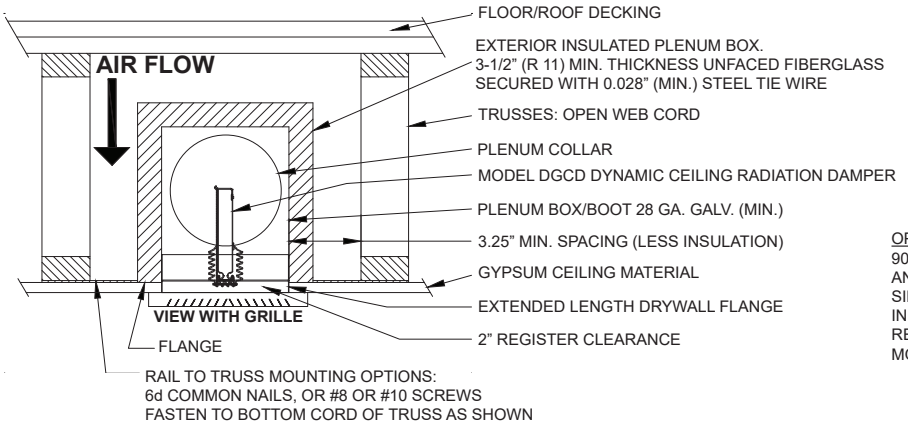
DYNAMIC CEILING RADIATION DAMPER ASSEMBLY WITH BOOT AND COLLAR

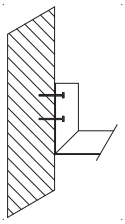
TRUSS / GYPSUM INSTALLATION INSTRUCTIONS

MODEL DGCD: RECTANGLE / ASSEMBLY FOR REGISTERS OR DROP DUCT

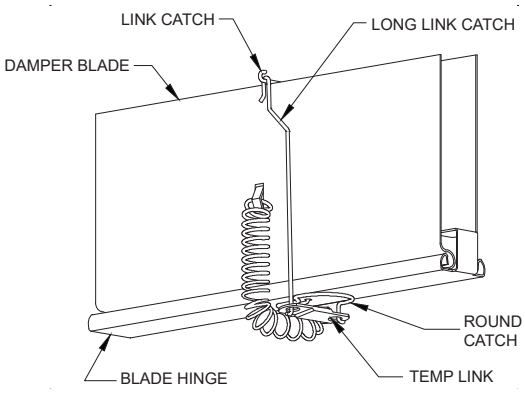
1-Hour Rated Register Grille Assembly CD/Plenum Box Assembly For Floor/Ceiling, Roof/Ceiling and Wood Truss Assemblies

UL DESIGN M557/P581

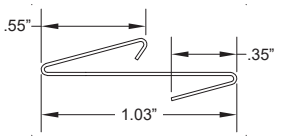




OPTIONAL
90° FORMED ANGLE ENDS FOR SIDE FASTENING IN TRUSSES (FOR RETAINING ANGLE MOUNT ONLY)



LINK INSTALL DETAIL



DIMENSIONING PER INDUSTRY STANDARD TOLERANCES

AS AN ALTERNATE TO HANGER ANGLES, TWO STANDARD 28 GA. MIN. BOOT RAILS SHOWN ABOVE ARE SNAPPED ONTO OPPOSITE SIDES OF DAMPER BOX FLANGE (SEE NOTES 2 & 4).

NOTE: *STEEL FRAMING MEMBERS SHALL BE INCLUDED TO CREATE SPACE BETWEEN WOOD JOIST AND GYPSUM BOARD CEILING TO ALLOW ROOM FOR BOOT RAILS SHOWN ABOVE.*

Notes:

1. Before installing the damper assembly DGCD, open the damper blades and hook the long fusible link catch over the link catch on the opposite blade. Secure the other end of the long wire link catch through the fuse link hole. The other end of the fuse link is to be secured to the round link catch located under the damper blade hinge. Carefully remove hand pressure that holds the damper blades together. The fuse link and wire catch will keep the damper blades open.
2. Orientation of damper blade hinge must be parallel to air flow direction through the plenum collar as shown in image above.
3. For Angle Mount Only: Measure the actual truss centers and add approx. 6" to determine the straight rail lengths, (2) required per box. When using the optional formed Boot Rail, allow for adequate flange length at each mounting and span the truss cavity to overlap face of truss bottom cords a minimum of 2 inches.
4. Establish the location of the gypsum flange and snap the (2) hanger rails to the plenum box.
5. Mounting rails are fastened to trusses with a minimum of two fasteners for each mounting point using 6d common nails or #8 or #10 wood screws.
6. The clearance between each side of the ceiling damper and the duct drop shall be 1/16 inch for a total of 1/8 inch maximum.
7. Steel grille to be attached to the ceiling damper using #8 by 2 inch long sheet metal screws at each end of the grille for a total of 2 (min.) screws.
8. Ceiling opening must be no larger than the inlet opening of the damper.
9. Connect (secure) ducting to plenum collar using 3 (min.) #10 sheet metal screws.
10. Plenum Box / Transition Boot to be constructed of 28 gauge (min.) galvanized steel mechanically fastened with spotwelds, rivets, screws or lock formed toggle locks (TALOC). Side outlet collar of 10 inch dia. or 78.5 sq.in. (max.) is allowed.

IMPORTANT: FASTENERS MUST NOT INTERFERE WITH THE DAMPER BLADE'S OPERATION

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