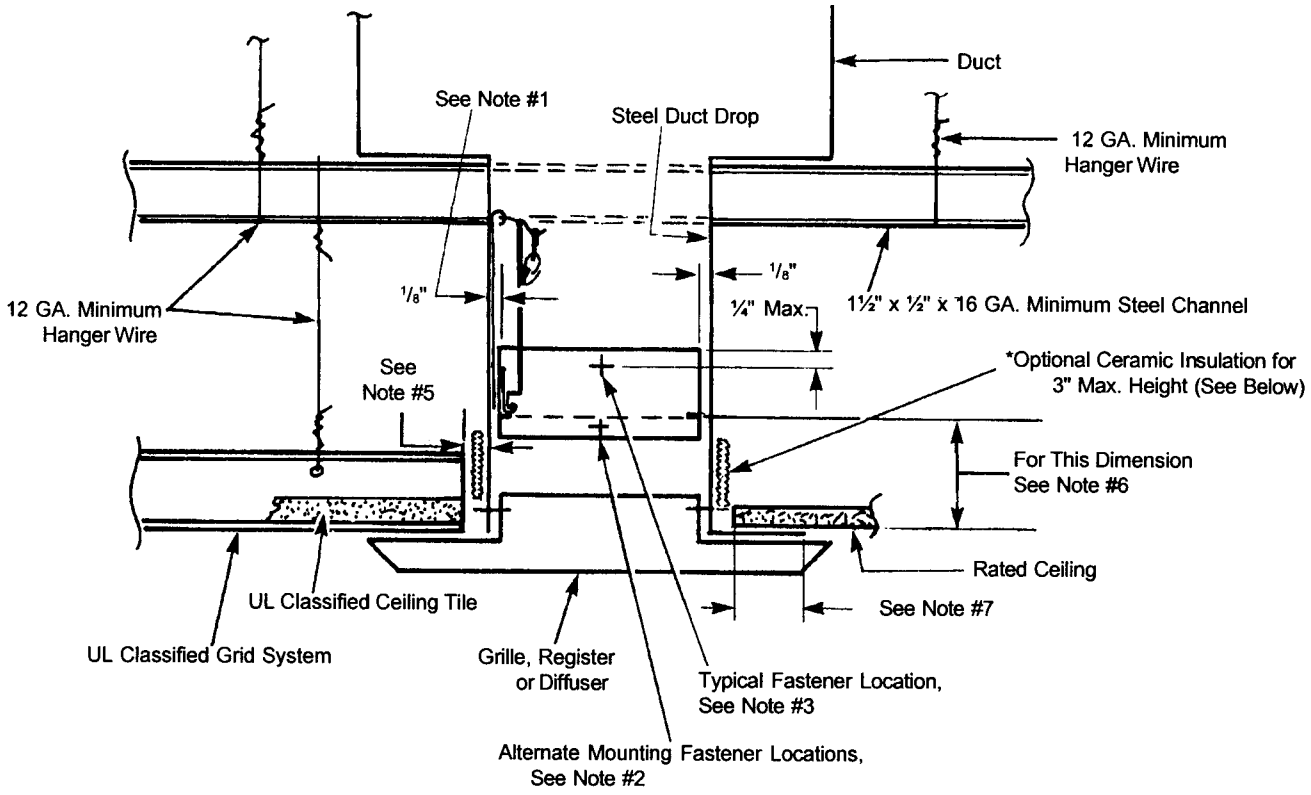
Installation Instructions For Models 5650 & 5673 Ceiling Radiation Dampers In Steel Duct Drops

Rated per UL555C, UL File R7365 for use in rated ceiling assemblies

"For use in lieu of the hinged-blade, sheet metal dampers in steel ducts as specified in the 'Design Information Section - General' and in the individual floor- or roof-ceiling design(s) being used, as illustrated and described in the current UL Fire Resistance Directory. (Ceiling and diffusers shown here for general information only.)"



NOTES:

1. Clearance between the duct drop and the ceiling radiation damper should be a maximum of 1/4" in each direction prior to securing the damper into the duct drop.
2. The damper frame may be fastened into the duct drop using any of the following: 1/8" or 3/16" steel rivets, #8 minimum sheet metal screws, #8 bolts & nuts, 1/2" long tack welds or spot welds spaced at a maximum of 8" center-to-center. A minimum of one fastener per side must be used.

   ✷CAUTION: Fasteners may be installed from either direction, but must not interfere with closure of damper blades.
3. Alternate fastener locations are noted on the drawing above. Only one row of fasteners is required.
4. Use a steel slot diffuser frame which provides support for ceiling or 1" wide flanges.
5. Maintain 1/2" clearance between cut end of runner and duct drop, and provide a vertical hanger wire near each cut runner end. Nor more than one main runner or cross tee may be cut when penetrating the ceiling membrane.
6. The model number and size of the ceiling damper determines the maximum allowable height above the lower face of the ceiling. See Chart.
7. For surface mount applications in hard ceilings, the duct drop must be flanged to overlap the ceiling opening by 1" minimum or the use of a steel framed diffuser fastened to the duct drop (per Note #2) may be used in lieu of the duct drop flange, provided the diffuser overlap the ceiling by 1" minimum.

Model	Damper Size Maximum	Maximum Height Dimensions
5650	108 Sq. In.	2"*
5673	6" Max. x 36" Max.	162 Divided by Damper Perimeter
5673	8" Max. x 48" Max.	234 Divided by Damper Perimeter

Above chart is a guideline. For exact height allowable for a particular size, refer to formula in Note #6.

* A maximum of 3" is allowed when using a steel frame volume control device, or insulation wrapped around duct drop from the ceiling to the bottom of the damper.

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