

- Ⓐ DAMPER ASSEMBLY
- Ⓑ ALUMINUM/STEEL GRILLE
- Ⓒ 1" X 1" X 26 ga
- Ⓓ 1"x1" x 26ga OR 2"x4" WOOD STUD SUPPORT.
- Ⓔ FLEX DUCT UL CLASSIFIED AIR DUCT (CLASS 0 OR 1)
- Ⓕ WOOD TRUSS (SEE UL DESIGN#L-521, L-546)
- Ⓖ 5/8" GYPSUM WALLBOARD (SEE UL DESIGN #L-521,L546)
- Ⓗ RC CHANNEL
- Ⓘ 1"x1"x22 ga RETAINING ANGLE.
- Ⓝ AIR DUCT

A. Ceiling penetrations should be located between adjacent trusses and between RC-channels without necessitating cuts in the RC-channel. If required, a maximum of one RC-channel may be cut to enable proper register box location and installation. The maximum clearance between the damper sleeve and the edges of the cutout in the ceiling material shall not exceed 1/8" (457) on any side.

B. The grille shall be fastened to the discharge frame using minimum No. 8 screws. This is typically accomplished by securing the face of the grille to the mounting flange provided by the register box, thus sandwiching the 5/8" (16) gypsum wallboard between the two. Use a minimum of two connections, one at each end. In place of a grille, an air duct may be connected to the bottom of the register box. In this case a minimum 1" X 1" X 22 ga. (25 X 25 X .85) angle shall be mechanically fastened to the air duct so as to sandwich the 5/8" (16) gypsum wallboard between the angle and the register box mounting flange.

C. The box shall be supported with a minimum 1" X 1" X 26 ga. Vertical angle or 18 swg vertical hanger wire, in two places minimum, on opposite sides of the register box. The vertical angle or wire shall in turn be supported by a minimum 1" X 1" X 26 ga. Horizontal angle or nominal 2" X 4" (51 X 102) wood support studs. The horizontal support angles or studs shall be fastened at each end to adjacent trusses with minimum 16 d nails, No. 8 screws or bolts. Only one connection per end required.

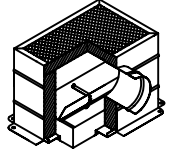
When the box is installed in a roof/ceiling, horizontal supports shall be installed so that the box can be properly secured. These horizontal supports can be 2" X 4" (51 X 102) wood studs or 1" X 1" X 26 ga. Steel angles. These supports are to be attached to adjacent truss members provided they are a minimum of 17 3/8" (441) above the underside of the ceiling. As an alternate, the horizontal members can be attached directly to the underside of the roof/truss provided that they are a minimum 17 3/8" (441) above the underside of the ceiling.

NOTE: The addition of the horizontal supports must not interfere nor shall they infringe upon the structural capabilities of the truss system.

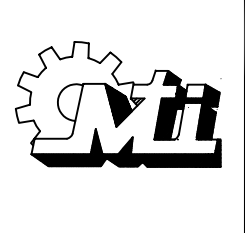
D. Flex duct shall be UL Classified Air Duct Class 0 or Class 1. In each case, a steel clamp, plastic strap or 18 swg minimum steel wire shall fasten the flex duct to the duct connection port of the box.

NOTE: Screws, bolts, rivets, etc., used to install the register box or grill MUST NOT INTERFERE WITH DAMPER BLADE OPERATION.

Model R4/6 521
 1 Hour rated.
 For use with floor-ceiling design # L-521, L-546.
 See ARL Product Listing Directory.
 Galvanized steel construction.
 Maximum Square is 18" X 18"(457 X 457).
 Maximum area of rectangular unit is 324 in. square (2,090 cm square).
 ARL File # 30123
 The product conforms to NFPA 90A and NFPA 92A.



NOTE: ALL DRAWINGS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



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CEILING RADIATION DAMPER BOX
MODEL #: R6/R4 521
INSTALLATION INSTRUCTIONS

DRAWN BY: CG	DATE: 03/30/00
REV. NO.: B	REV. DATE: 2/12/08
APPROVED BY: AV	DRAWING NO.: RDBINSTALL