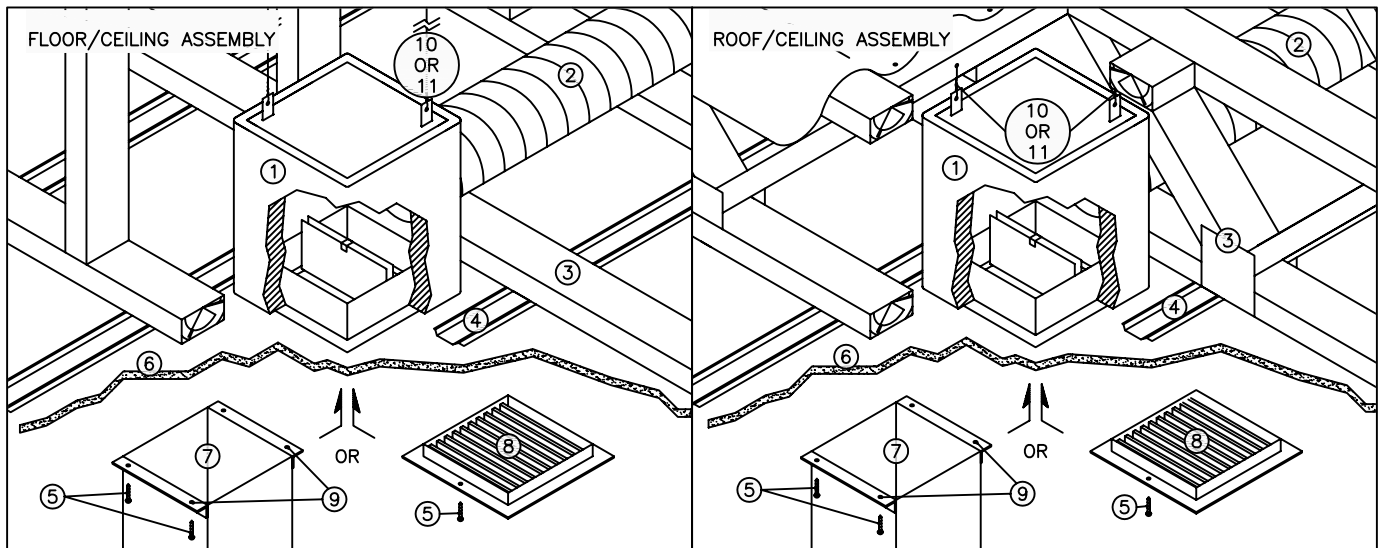


DUCTBOARD REGISTER BOX W/ MODEL 615 FIRE RADIATION DAMPER.

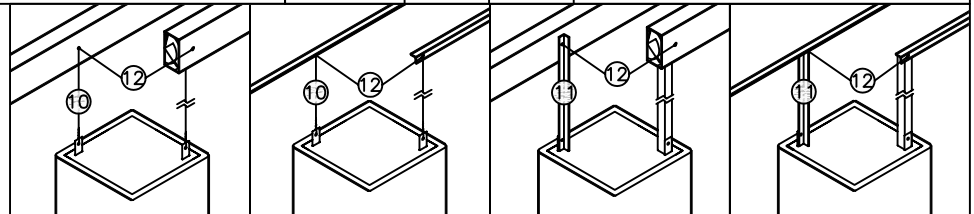
1 HOUR RATED CRD/REGISTER/GRILLE ASSEMBLY
CRD/REGISTER BOX ASSEMBLY FOR FLOOR/CEILING AND
ROOF/CEILING WOOD TRUSS ASSEMBLIES OF CONSTRUCTION
L-521, L-546, L-558, L-562, P-522, P-533, P-538 TYPES.

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1 OF 1



PARTS:

1. MODEL 521 ASSEMBLY
2. FLEXIBLE DUCT (CLASS 0 OR 1)
3. TRUSS
4. HIGH HAT/RC CHANNEL
5. NO. 8 MOUNTING SCREWS
6. 5/8" GYPSUM WALLBOARD
7. AIR DUCT
8. GRILLE
9. 22 GAUGE 1" X 1" ANGLE
10. 18 SWG HANGING WIRE
11. 24 GAUGE 1" X 1" ANGLE
12. 16 D NAILS OR NO. 8 SCREWS OR BOLTS



2" X 4" WOOD STUD
SUPPORT

1" X 1"
24 GAUGE SUPPORT

2" X 4" WOOD STUD
SUPPORT

1" X 1"
26 GAUGE SUPPORT

18 SWG STEEL WIRE
HANGER

18 SWG STEEL WIRE
HANGER

1" X 1"
24 GAUGE ANGLE
HANGER

1" X 1"
24 GAUGE ANGLE
HANGER

NOTES:

1. CEILING PENETRATIONS SHOULD BE LOCATED BETWEEN ADJACENT TRUSSES AND RC-CHANNELS WITHOUT NECESSITATING CUTS IN THE RC-CHANNEL. IF REQUIRED, A MAXIMUM OF ONE RC-CHANNEL MAY BE CUT TO ENABLE PROPER DAMPER 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" ON ANY SIDE.
2. THE GRILLE SHALL BE FASTENED TO THE DAMPER ASSEMBLY USING MINIMUM NO. 8 SCREWS. THIS IS TYPICALLY ACCOMPLISHED BY SECURING THE FACE OF THE GRILLE TO THE RECESSED PLASTER GROUND FLANGE OF THE DAMPER, THUS SANDWICHING THE 5/8" GYPSUM WALLBOARD BETWEEN THE TWO. USE A MINIMUM OF TWO CONNECTIONS, ONE AT EACH END.
3. IN PLACE OF A GRILLE, AN AIR DUCT MAY BE CONNECTED TO THE BOTTOM OF THE DAMPERS. IN THIS CASE, A MINIMUM 1" X 1" X 24 GAUGE ANGLE SHALL BE MECHANICALLY FASTENED TO THE AIR DUCT SO AS TO SANDWICH THE 5/8" GYPSUM WALLBOARD BETWEEN THE ANGLE AND THE PLASTER GROUND FLANGE.
4. THE DAMPER SHALL BE SUPPORTED WITH A MINIMUM 1" X 1" X 24 GAUGE VERTICAL ANGLE OR 18 SWG VERTICAL HANGER WIRE, IN TWO PLACES MINIMUM, ON OPPOSITE SIDES OF THE DAMPER. THE VERTICAL ANGLE OR WIRE SHALL IN TURN BE SUPPORTED BY A MINIMUM 1" X 1" X 24 GAUGE HORIZONTAL ANGLE OR BY NOMINAL 2" X 4" 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 IS REQUIRED.
5. WHEN A DAMPER IS INSTALLED IN A ROOF/CEILING, HORIZONTAL SUPPORTS SHALL BE INSTALLED SO THAT THE DAMPER CAN BE PROPERLY SECURED. THESE HORIZONTAL SUPPORTS CAN BE 2" X 4" WOOD STUDS OR 1" X 1" X 24 GAUGE STEEL ANGLES. THESE SUPPORTS ARE TO BE ATTACHED TO ADJACENT TRUSS MEMBERS PROVIDED THEY ARE A MINIMUM OF 17 3/8" ABOVE THE UNDERSIDE OF THE CEILING. AS AN ALTERNATE, THE HORIZONTAL MEMBERS CAN BE ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF OR ROOF/TRUSS PROVIDED THAT THEY ARE A MINIMUM OF 17 3/8" ABOVE THE UNDERSIDE OF THE CEILING.
6. THE ADDITION OF THE HORIZONTAL SUPPORTS MUST NOT INTERFERE NOR SHALL THEY INFRINGE UPON THE STRUCTURAL CAPABILITIES OF THE TRUSS SYSTEM.
7. FLEX DUCT SHALL BE UL CLASSIFIED AIR DUCT CLASS 0 OR CLASS 1. NO CONNECTION IS ALLOWED ON TOP OF THE DAMPER. IN EACH CASE, A STEEL CLAMP, PLASTIC STRAP, OR 18 SWG MINIMUM STEEL WIRE SHALL FASTEN THE FLEX DUCT TO THE DUCT CONNECTION PORTION OF THE DAMPER ASSEMBLY.
8. SCREWS, BOLTS, RIVETS, ETC., USED TO INSTALL THE DAMPER OR GRILLE MUST NOT INTERFERE WITH DAMPER BLADE OPERATION.
9. FOR INSTALLATION IN FLOOR/CEILING DESIGNS L-521, L-546, L-558, L-562. AND IN ROOF/CEILING DESIGNS P-522, P-533, P-538.

521FGB

R6 DUCT BOARD REGISTER BOX
W/ CEILING RADIATION DAMPER
INSTALLATION INSTRUCTIONS

NOTE: ALL DRAWINGS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



miami tech inc.

DRAWN BY: AF

DATE: 03/11/04

SCALE: NOT TO SCALE

DRAWING NO.

CHECKED BY: IG

DATE: 03/11/04

REVISION: 01

1521