



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

PREFCO DAMPER MODELS:
5600 & 5660 - 78 1/2 SQ. IN. MAX.
5610 & 5680 - 201 SQ. IN. MAX.

"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.)"

Installation Instructions For Lay-In Diffuser Insulation Using:

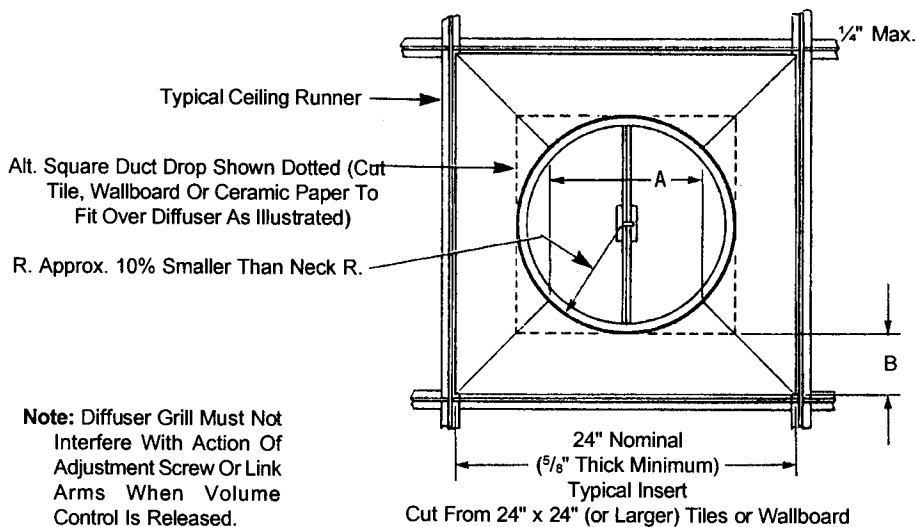
- 1/4" 8 Lb. Density Ceramic Blanket*
- 1/8" 10-12 Lb. Density Ceramic Paper*
- 1/2" Gypsum Wallboard
- 5/8" UL Classified Ceiling Tiles

For Use In Any Fire-Resistive Floor or Roof-Ceiling Design With A Restrained Or Unrestrained Assembly Rating Of 3 Hr. or Less.

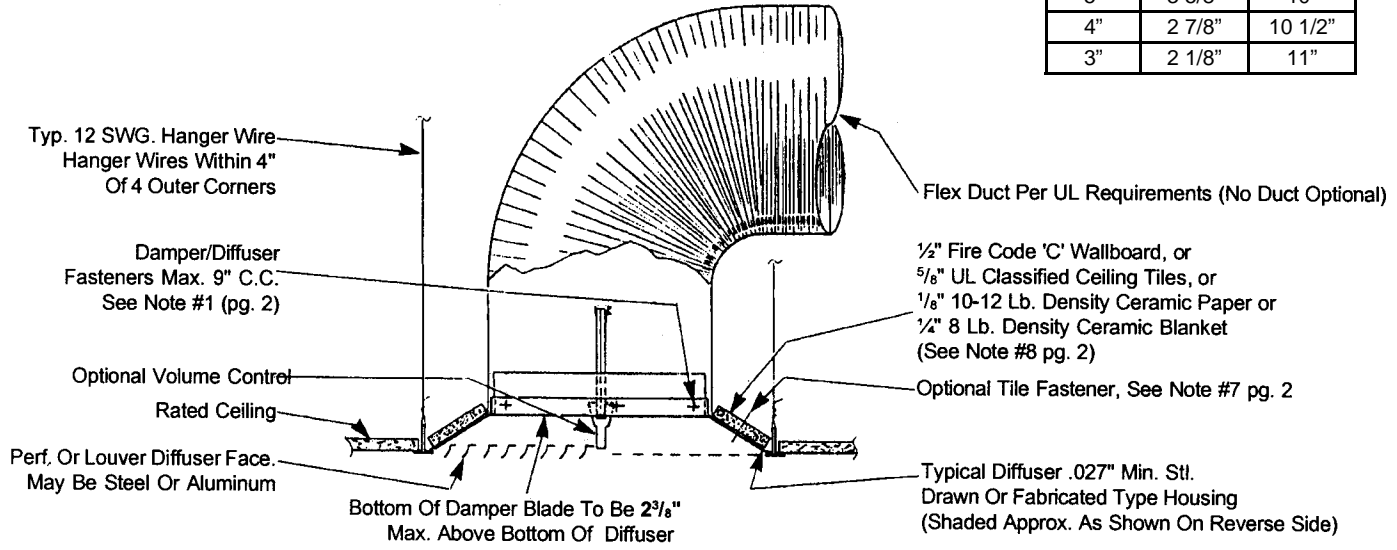
One of the above damper assemblies may be substituted for each sheet metal damper over a 113 sq. in. or larger duct outlet specified in the design. Dampers must be installed in accordance with accompanying installation instructions.

*Ceramic insulation marked "Assembly ceramic insulation, designated Type" (Damper model# - damper diameter, in.) for use with Model 5600, 5610, 5660 and 5680 Classified ceiling dampers installed with a lay-in air diffuser per installation instructions.

Instructions for use with Ceramic Insulation, Wallboard or Ceiling Tiles on Diffusers where the bottom of the closed damper blades are 2 3/8" max. above the bottom face of the ceiling.



INSERT DIMENSIONS Could Vary With Different Diffuser Shapes		
Diff. Collar Size	A	B
15"	10 5/8"	5 1/8"
14"	10"	5 5/8"
13"	9 1/4"	6 1/8"
12"	8 1/2"	6 1/2"
11"	7 7/8"	7 1/8"
10"	7 1/8"	7 3/4"
9"	6 3/8"	8 1/8"
8"	5 3/4"	8 5/8"
7"	5"	9"
6"	4 1/4"	9 1/2"
5"	3 5/8"	10"
4"	2 7/8"	10 1/2"
3"	2 1/8"	11"



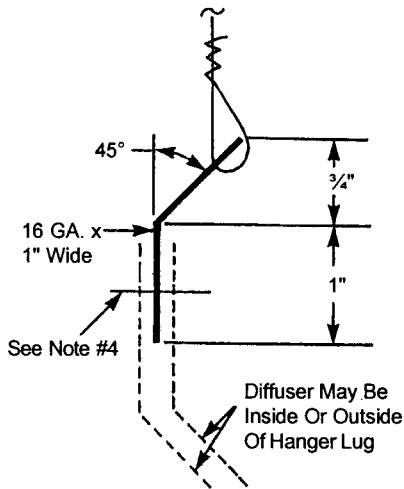
REPRESENTED BY

MANUFACTURED BY
PERFECT AIR CONTROL, INC.
 1310 N. HERCULES AVE. CLEARWATER, FL 33765
 CUSTOMER SERVICE (800) 437-6653 * ORDER ENTRY FAX (727) 431-6074

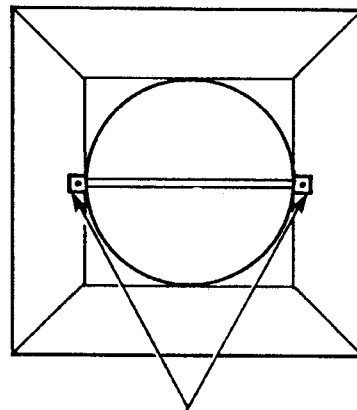
PREFCO

INSTALLATION INSTRUCTIONS

1. Install damper into diffuser collar using 1/8" or 3/16" dia. steel rivets, #8 bolts, #8 sheet metal screws or spot welds, min. 1 fastener per side on rectangular units or 3 fastener min. on round units. Fastener spacing 9" C-C Max. Fasteners may be used through damper, diffuser and duct drop. If not, use them separately for damper/diffuser and diffuser/duct drop connections.
2. Use 23 3/4" x 23 3/4" lay-in diffuser, made from .027" min. steel. Maximum collar size shall be 15" dia. ("5610" damper), or 14" square ("5680" damper). The collar attachment to diffuser face shall have spot welds on 5" C-C max.; if not, continuously lock crimp around the full circumference.
3. The four intersections of the cross tees and main runners, or cross tees and cross tees at the corners of the grid module containing the diffuser shall be supported directly from the structural members of the floor or roof by vertical (not diagonal) hanger wires, 12 SWG. minimum.
4. Caution: Be sure that fasteners do not interfere with damper blade operation or with ducting.
5. A short 24 Ga. sleeve (1/3 dia. Min.) may be required for damper clearance when flex duct has an immediate sharp turn.
6. Cut two inserts per table and sketch. Install opposite each other into the assembly; then check and obtain final dimensions for the remaining two inserts. Tight fitting pieces are required.
7. For optional tile fastener, drill appropriate size hole for #8 bolt or sheet metal screw. Do not damage tile.
8. Ceramic Insulation may be installed as 4 pieces (cut like wallboard or ceiling tile) or 1 piece.

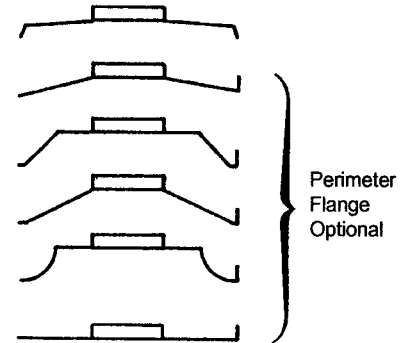


Hanger Lugs Are Not Required When Using Ceramic Insulation



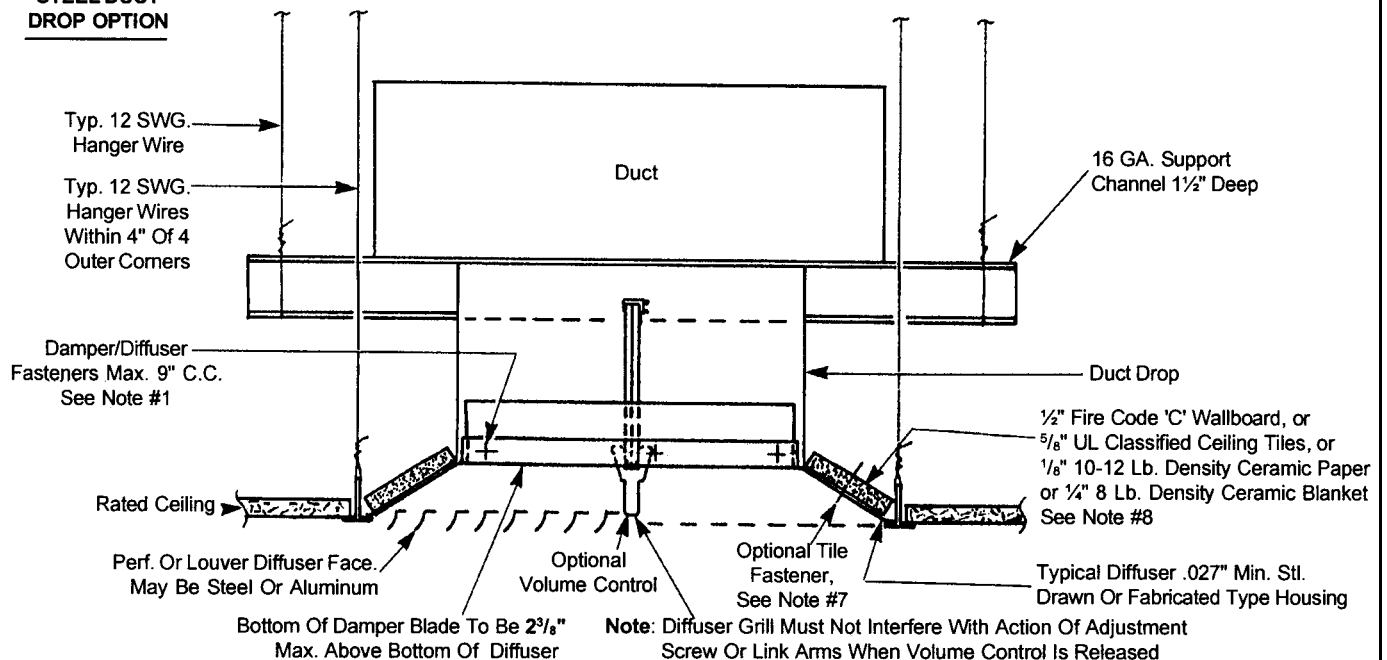
Lugs Located 180° Apart

TYPICAL DIFFUSER SHAPES



Other Shapes May Be Acceptable If Examined By UL

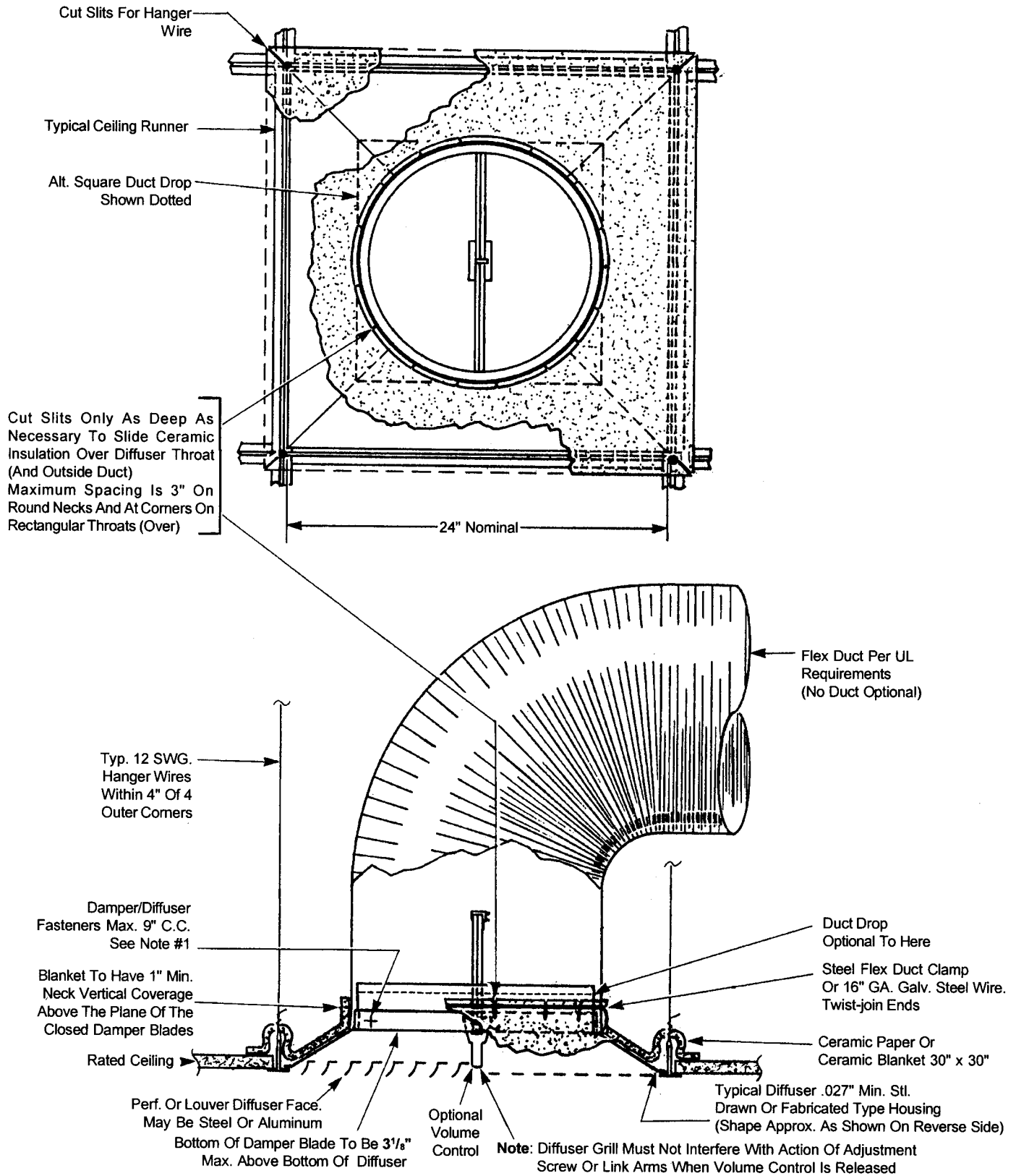
STEEL DUCT DROP OPTION



PREFCO

*Ceramic insulation marked "Assembly ceramic insulation, designated Type" (Damper model# - damper diameter, in.) for use with Model 5600, 5610, 5660 and 5680 Classified ceiling dampers installed with a lay-in air diffuser per installation instructions.

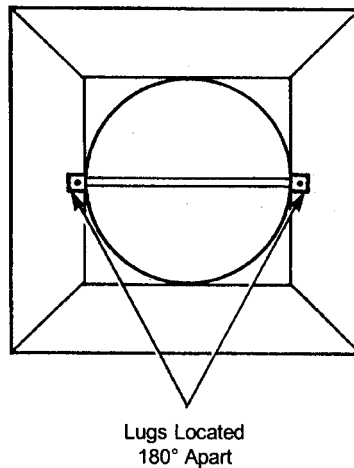
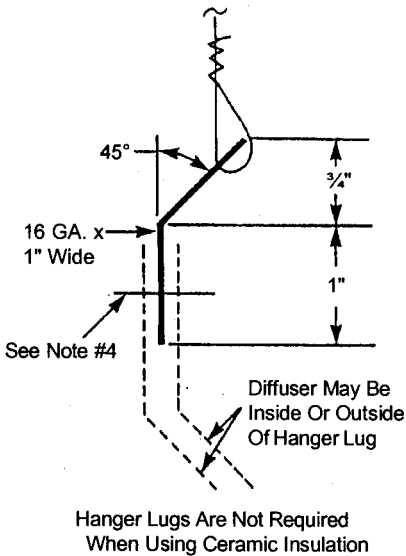
INSTRUCTIONS FOR USE WITH 30" X 30" CERAMIC INSULATION OR CERAMIC PAPER ON DIFFUSERS WHERE THE BOTTOM OF THE CLOSED DAMPER BLADES ARE 3 1/8" MAX. ABOVE THE BOTTOM FACE OF THE CEILING.



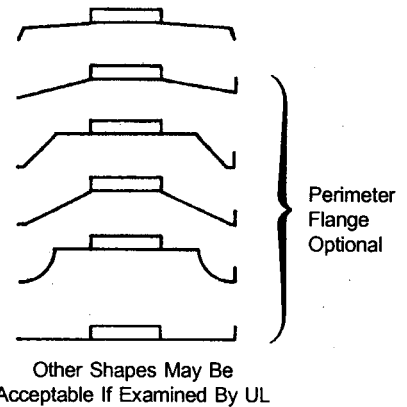
PREFCO

INSTALLATION INSTRUCTIONS

1. Install damper into diffuser collar using 1/8" or 3/16" dia. steel rivets, #8 bolts, #8 sheet metal screws or spot welds, min. 1 fastener per side on rectangular units or 3 fastener min. on round units. Fastener spacing 9" C-C Max. Fasteners may be used through damper, diffuser and duct drop. If not, use them separately for damper/diffuser and diffuser/duct drop connections.
2. Use 23 3/4" x 23 3/4" lay-in diffuser, made from .027" min. steel. Maximum collar size shall be 15" dia. ("5610" damper), or 14" square ("5680" damper). The collar attachment to diffuser face shall have spot welds on 5" C-C max.; if not, continuously lock crimp around the full circumference.
3. The four intersections of the cross tees and main runners, or cross tees and cross tees at the corners of the grid module containing the diffuser shall be supported directly from the structural members of the floor or roof by vertical (not diagonal) hanger wires, 12 SWG. minimum.
4. Caution: Be sure that fasteners do not interfere with damper blade operation or with ducting.
5. A short 24 Ga. sleeve (1/3 dia. Min.) may be required for damper clearance when flex duct has an immediate sharp turn.
6. Ceramic Insulation must cover entire back surface of diffuser and overlap adjacent suspension system members. *Caution* - Handle ceramic with care to avoid damaging it.



TYPICAL DIFFUSER SHAPES



STEEL DUCT DROP OPTION

