

PERFORATED CEILING DIFFUSERS

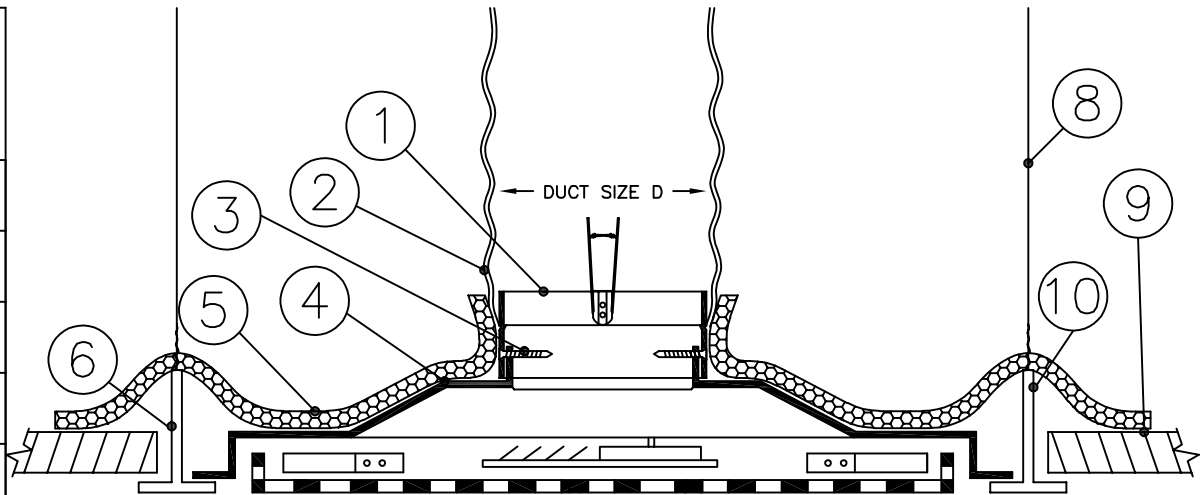
STEEL. FIRE RATED DAMPER (UL R.10967). LAY-IN FACE.



UNDERWRITERS LABORATORIES INC.
CLASSIFIED
CEILING RADIATION DAMPER
TESTED IN ACCORDANCE WITH UL 263

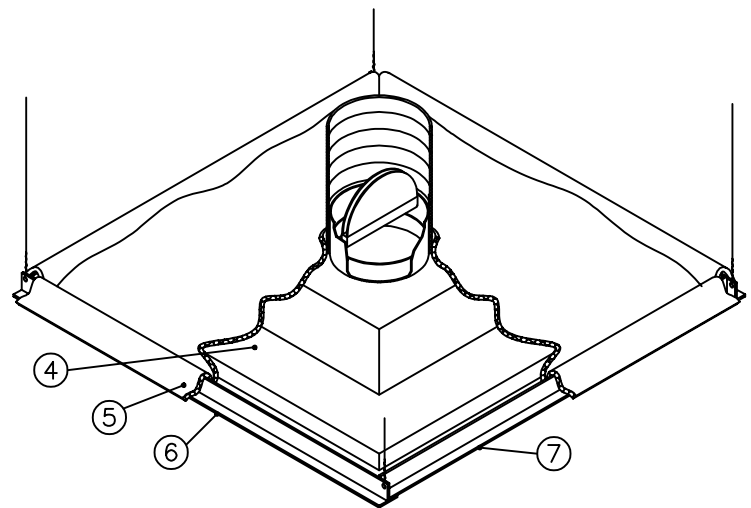
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24"X24" SUPPLY/RETURN CEILING MODULE
DUCT SIZE D
6" DIA / 6" DIA
8" DIA / 8" DIA
10" DIA / 10" DIA
12" DIA / 12" DIA
14" DIA / 14" DIA



PARTS:

1. MODEL 616 (ROUND) CEILING DAMPER (UL R.10967)
2. FLEXIBLE DUCT (CLASS 1)
3. MOUNTING SCREWS
4. LAY-IN TYPE STEEL DIFFUSER (0.027" MIN. THICKNESS) WITH ROUND NECK OR SQUARE TO ROUND ADAPTER
5. 30" X 30" CERAMIC FIBER BLANKET (1/2" THICK, 4 PCF)
6. 4'-0" SUSPENSION CROSS TEE OF GRID MODULE
7. 2'-0" SUSPENSION CROSS TEE OF GRID MODULE
8. 12 SWG HANGER WIRES (4 REQUIRED)
9. LAY-IN TYPE ACOUSTICAL PANEL (BEARING THE UL CLASSIFICATION MARKING)
10. MAIN T-BAR RUNNER



NOTES:

1. BEFORE INSTALLING DAMPER (MODEL 616) OPEN BLADES AND HOOK FUSIBLE LINK OVER CATCH ON OPPOSITE BLADE. BEND DOWN LINK CATCH TO SECURE LINK IN POSITION.
2. THE END TABS OF THE 2'-0" CROSS TEE FORMING THE GRID MODULE FOR THE INSTALLATION OF THE ASSEMBLY SHALL BE BENT BACK AGAINST THE WEB OF THE 4'-0" CROSS TEES. THE 4'-0" CROSS TEES MUST HAVE A SLOT AT MID-LENGTH OF THE WEB FOR CONNECTION OF THE 2'-0" CROSS TEES.
3. USE 12 SWG STEEL HANGER WIRES AT THE CORNERS OF THE GRID MODULES CONTAINING THE ASSEMBLY TO SUPPORT THE ASSEMBLY FROM THE JOISTS OR BEAMS OF THE FLOOR OR ROOF ABOVE. WIRES MUST HANG VERTICALLY, NOT DIAGONALLY.
4. MAXIMUM NECK SIZE OF THE CEILING DIFFUSER IS 14" DIAMETER.
5. THE FLEXIBLE DUCT SHALL BE CLASS 1 BEARING THE UL CLASSIFICATION MARKING. NO PORTION OF THE DUCT SHALL REST ON THE BACK SURFACE OF THE CEILING PANEL AND A MINIMUM OF 4" CLEARANCE MUST BE MAINTAINED. WHERE THE DUCT IS SUPPORTED USE 12 SWG STEEL HANGER WIRES. CAUTION SHOULD BE OBSERVED SO THAT THE DUCT DOES NOT INTERFERE WITH OPERATION OF THE CEILING DAMPER.
6. NO DIFFUSER SHALL BE LOCATED IN AN ADJACENT 24" X 48" CEILING GRID MODULE.
7. SLIP THE DAMPER OVER THE NECK OF THE DIFFUSER AND INSTALL NO.8 X 1/2" SHEET METAL SCREWS. 3 SCREWS ARE REQUIRED FOR 10" DIA. OR LESS. 4 SCREWS REQUIRED FOR LARGER DIAMETERS, EQUALLY SPACED.
8. PLACE CERAMIC BLANKET OVER CEILING DAMPER AND DIFFUSER NECK AND SET SQUARE WITH CEILING GRID. CUT CORNERS OF BLANKET TO CLEAR HANGER WIRES.
9. FOR DUCT CONNECTION, FOLD BACK CERAMIC BLANKET TO ALLOW FOR 1" VERTICAL COVERAGE ABOVE THE NECK OF THE DIFFUSER. SLIP FLEXIBLE DUCT OVER THE DIFFUSER NECK AND FASTEN WITH STEEL DUCT CLAMP OR 16-GAUGE GALVANIZED STEEL WIRE (TWISTING THE ENDS TO JOIN).

PB616, PBR616, PR615, SCF616

CEILING DIFFUSER TO FLEXIBLE DUCT
INSTALLATION INSTRUCTIONS

NOTE: ALL DRAWINGS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



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PERFORATED CEILING DIFFUSERS

STEEL. FIRE RATED DAMPER (UL R.10967). LAY-IN FACE.



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CEILING GRID LAYOUT:

1. NO DIFFUSER SHALL BE LOCATED IN AN ADJACENT 24" X 48" CEILING GRID MODULE.
2. CUT BACK CORNERS OF THERMAL BLANKETS TO ALLOW CLEARANCE FOR HANGER WIRES.

INSTALLATION INSTRUCTIONS

STEP 1:
FOLD BACK NECK FLAPS OF THERMAL BLANKET (A). SLIP FLEXIBLE DUCT OVER THE NECK OF THE DIFFUSER (B).

STEP 2:
FOLD THE NECK FLAPS OF THE THERMAL BLANKET BACK OVER THE FLEXIBLE DUCT (C) AND FASTEN USING 16 SWG STEEL WIRE OR A STEEL CLAMP (D). DO NOT USE BOLTS, SCREWS OR RIVETS.

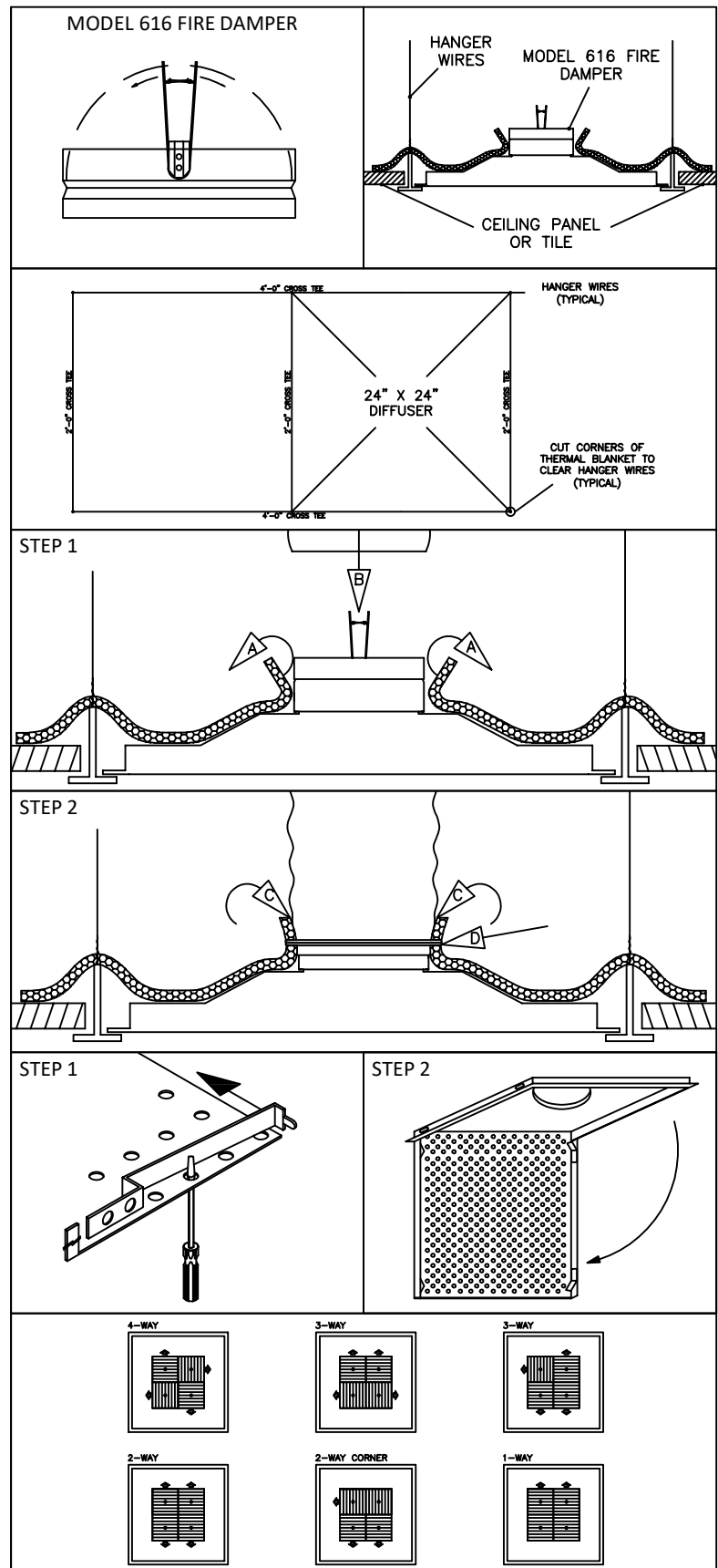
REMOVING PERFORATED FACE

STEP 1:
USE A SMALL SCREWDRIVER OR OTHER INSTRUMENT TO PUSH LATCH INWARD FROM BORDER. REPEAT ON OPPOSITE SIDE.

STEP 2:
FACE WILL SWING DOWN WITH THE TWO REMAINING LATCHES ACTING AS HINGES. FOR COMPLETE REMOVAL, RELEASE 2 REMAINING LATCHES.

ADJUSTING PATTERN CONTROLLERS

ALL DIFFUSERS ARE SHIPPED WITH A 4-WAY SETTING. PATTERNS CAN BE ADJUSTED BEFORE OR AFTER INSTALLATION



PB616, PBR616, PR615, SCF616

CEILING DIFFUSER TO FLEXIBLE DUCT
INSTALLATION INSTRUCTIONS

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