



1400, 1400FR, 51400, M1400 & M51400
 These supply diffusers feature a round neck and four cones.



1400A & 51400A
 These supply diffusers feature a round neck, four cones, and adjustable pattern controllers.



1450, 51450, M1450, & M51450
 These supply diffusers feature a round neck and three cones.



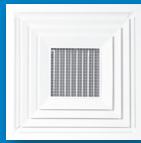
1450A & 51450A
 These supply diffusers feature a round neck, three cones, and adjustable pattern controllers.



SH, 5SH, SHFR, MSH, SHV, 5SHV, SHR, 5SHR, SHRV, 5SHRV, SHFB, & 5SHFB
 These supply diffusers feature a square neck, fixed louvered blades (1-way to 4-way), and removable core.



SHPC, 5SHPC, SHPCR, & 5SHPCR
 These supply diffusers feature a square neck, fixed louvered blades (1-way to 4-way), removable core, and adjustable pattern controllers.



5SH/CAD & 5SHR/CAD
 These supply diffusers feature fixed louvered blades with a center downblow.



SHRPLQ
 This supply diffuser features fixed louvered blades (1, 2, or 3 slots) with center plaque faceplate.



7000
 This combination supply/return diffuser features fixed louvered blades with removable egg-crate center frame.

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1450A

FEATURES

- Three cones for optimum airflow control.
- Adjustable airflow pattern controller for vertical throw.
- Great choice for variable air volume spaces.
- Cones feature a one-piece stamped construction without mitered joints.
- Round neck for easy connection to round duct.
- Anti-smudge design prevents smeared ceilings.
- Two earthquake tabs are standard.

ACCESSORIES

- Optional round damper.
- Optional insulated backpan (24"x24" only).

Introduction: 1450A Series

The 1450A series are square face, 3-cone, round neck ceiling diffusers with adjustable airflow pattern controllers between the cones that change the discharge pattern from horizontal to vertical. They are available in a variety of frame styles to help meet the architectural requirements of today's ceilings. The spacing of the inner cones in relation to the backpan result in a design possessing anti-smudge characteristics, preventing the buildup of particles on the ceiling, which is achieved by minimizing the low pressure region inherent to most 4-way directional blow diffusers. The 1450A is typically used for spot heating or cooling applications in which airflow needs to be directed vertically in order to satisfy a specific load. It can also be applied as a seasonal air outlet device; adjusting for horizontal throw for cooling in warmer months and vertical throw for heating in colder months.

MODELS

- 1450A - Steel Louvered Diffuser
- 51450A - Aluminum Louvered Diffuser

PANEL SIZES

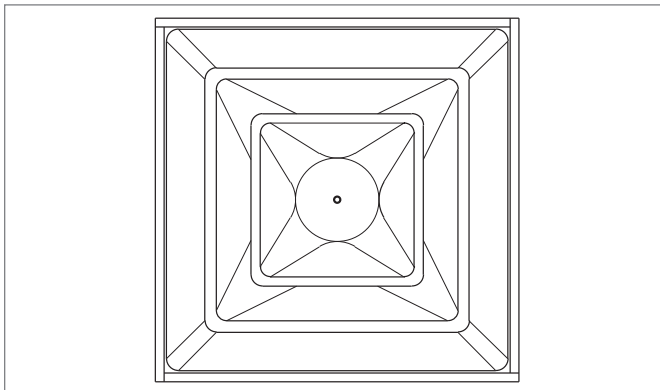
- 12"x12"
- 24"x24"

FINISHES

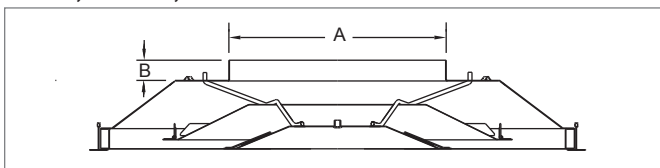
- Standard finish is #44 British White.
- Optional finishes available.

1450A, 51450A Dimensional Information

1450A, 51450A, FACE VIEW



1450A, 51450A, CROSS SECTION



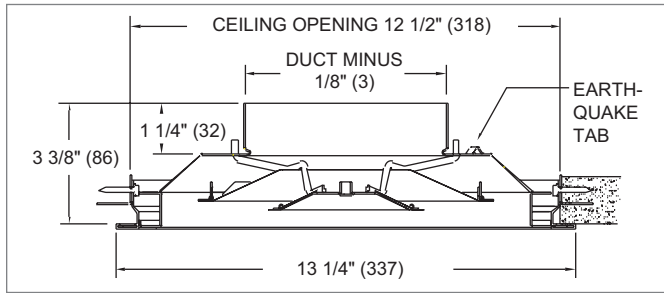
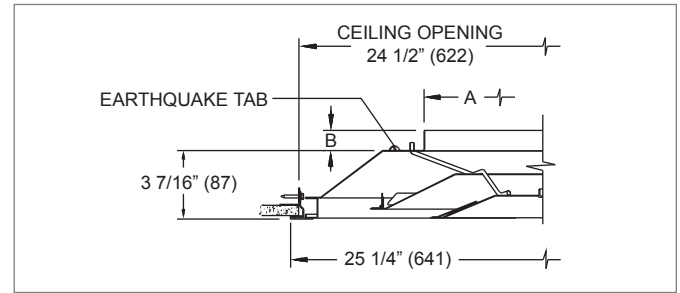
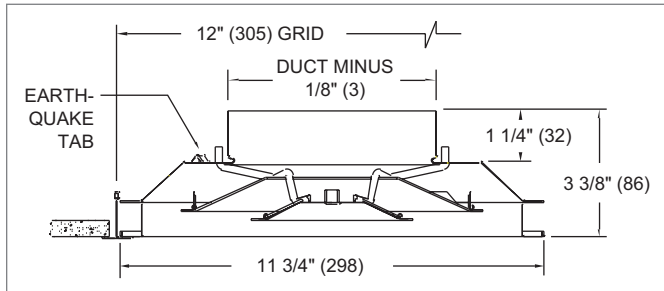
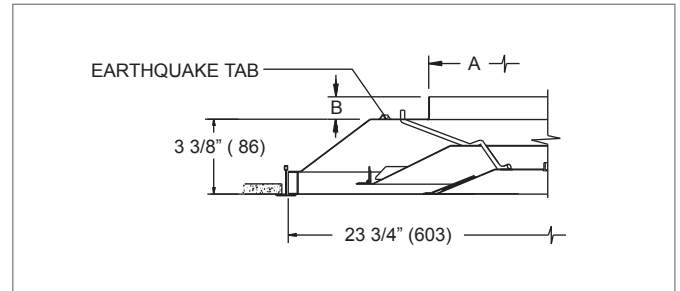
1450A, 51450A, 12"x12" PANEL DETAIL

Nominal Neck Size	Actual Neck Size	1450A	51450A
	A	B	B
06	5 7/8" (149)	1 1/4" (32)	1 1/4" (32)
08	7 7/8" (200)	1 1/4" (32)	1 1/4" (32)

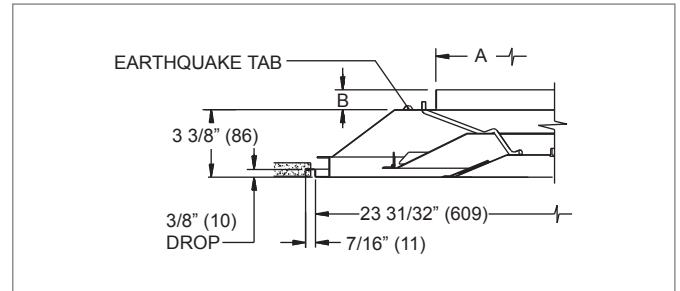
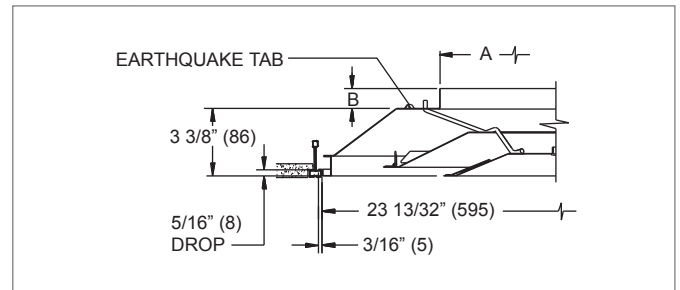
1450A, 51450A, 24"x24" PANEL DETAIL

Nominal Neck Size	Actual Neck Size	1450A	51450A
	A	B	B
06	5 7/8" (149)	1 1/4" (32)	1 1/4" (32)
08	7 7/8" (200)	1 1/4" (32)	1 1/4" (32)
10	9 7/8" (251)	1 1/2" (38)	1 1/2" (38)
12	11 7/8" (302)	1 1/2" (38)	1 1/2" (38)
14	13 7/8" (352)	1 1/2" (38)	1 1/2" (38)
15	14 7/8" (378)	1 1/2" (38)	1 1/2" (38)

NOTE: Dimensions in parentheses are mm.

1450A, 51450A Frame Styles
FRAME 22, SURFACE MOUNT, 12"x12" PANEL

FRAME 22, SURFACE MOUNT, 24"x24" PANEL

FRAME 23, LAY-IN T-BAR, 12"x12" PANEL

FRAME 23, LAY-IN T-BAR, 24"x24" PANEL


NOTES: Dimensions in parentheses are mm. For 'A' & 'B' dimensions, see page B1-32. Frame 22 includes separate surface mounting frame, as shown in the frame details on this page.

FRAME 27, SPLINE, 24"x24" PANEL

FRAME 98, NARROW-T, 24"x24" PANEL


1450A, 51450A Suggested Specification & Configuration

1450A, 51450A

The drop cone, square face diffuser shall be Krueger model 1450A (steel, adjustable) or 51450A (aluminum, adjustable). The 1450A and 51450A models shall be constructed of three precision die-stamped cones. The back cone shall have an integrally drawn neck for duct connections on 24"x24" and 24"x48" panel sized units. Fabricated collars are only acceptable on 12"x12" panel sized units. The inner cone assembly shall be welded to the back cone and have a hole with removable plug for easy optional damper adjustment. The inner cone assembly shall also include adjustable vanes to change the airflow from fully horizontal to fully vertical. The surface mount 1450A and 51450A shall ship with an auxiliary aluminum surface mounting frame for easy installation. Diffusers shall be constructed of 22 gage steel (1450A) or 0.040" aluminum (51450A) with integral earthquake tabs.

Optional round damper shall be constructed of heavy gage steel. Damper shall be operable from the face of the diffuser.

FINISH

The paint finish shall be #44 British White and be an anodic acrylic paint, baked at 315° for 30 minutes. The paint thickness shall be 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

- 1. SERIES: (XXXXXX)**
1450A - 3-Cone, Adjustable, Steel Ceiling Diffuser
51450A - 3-Cone, Adjustable, Aluminum Ceiling Diffuser
- 2. PATTERN: (XX)**
04 - 4-Way
- 3. ROUND NECK: (XX)**
6", 8", 10", 12", 14", or 15"
- 4. FRAME: (XXX)**
F22 - Surface Mount *
F23 - Lay-in T-Bar
F27 - Spline
F98 - Narrow-T
- 5. PANEL: (XX)x(XX)**
12"x12" **
24"x24"
- 6. ACCESSORIES: (XX)**
00 - No Accessories
IB - Insulated Blanket
R6 - Molded Insulation
- 7. FINISH: (XX)**
01 - Mill
10 - Alumican
35 - Black
44 - British White

*Round damper not included in configuration code.
* Frame 22 includes separate aluminum plaster frame shipped loose for field installation.
** Available in Frame 22 and 23 only.*

LOUVERED FACE DIFFUSERS

1
4
5
0
A
-
5
1
4
5
0
A

SAMPLE CONFIGURATION: 1450A - 04 - 12 - F23 - 24x24 - 44