

**1450, 51450 Suggested Specification & Configuration**

- 1. SERIES: (XXXXX)**  
 1450 - 3-Cone, Steel Ceiling Diffuser  
 51450 - 3-Cone, Aluminum Ceiling Diffuser
- 2. PATTERN: (XX)**  
 04 - 4-Way
- 3. ROUND NECK: (XX)**  
 6", 8", 10", 12", 14", or 15"
- 4. FRAME: (XXX)**  
 F12 - 12" Module in 24" F23 Panel \*  
 F22 - Surface Mount \*\*  
 F23 - Lay-in T-Bar  
 F27 - Spline  
 F98 - Narrow-T
- 5. PANEL: (XX)x(XX)**  
 12"x12"  
 20"x20" †  
 24"x24"  
 24"x48"
- 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 12 (F12) available with 6" and 8" neck dimensions only.*

\*\* *Frame 22 (F22) includes separate aluminum plaster frame shipped loose for field installation.*

\*\*\* *Frame 23 (F23), 24" x 24" panel and 6", 8", 10", and 12" neck dimensions only.*

† *20"x20" panel only available with 1450.*

**1450, 51450**

The drop cone, square face diffuser shall be Krueger model 1450 (steel) or 51450 (aluminum). The 51450 shall be constructed of 100% aluminum. The 1450 and 51450 models shall be constructed of three precision die-stamped cones. The back cone shall have an integrally drawn neck for duct connections on 20"x20", 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 surface mount 1450 and 51450 shall ship with an auxiliary aluminum surface mounting frame for easy installation. Diffusers shall be constructed of 22 gage steel (1450) or 0.040" aluminum (51450) with integral earthquake tabs.

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

**PERFORMANCE**

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

**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.