

5PLQ, PLQLT, 5PLQLT Suggested Specification & Configuration

1. **SERIES: (XXXXX)**
 5PLQ - Square, Aluminum Plaque-Style Ceiling Diffuser
 PLQLT - Square Plaque-Style Ceiling Diffuser with R-6 Rigid Fiberglass Insulated Backpan and 3/8" Cellular Insulated Plaque Face
2. **NECK: (XX)**
 6"
 8"
 10"
 12"
 14"
 15"
3. **FRAME STYLE: (XXX)**
 F22 - Surface Mount
 F23 - Lay-in T-Bar
 F98 - Narrow-T
4. **PANEL: (XX)x(XX)**
 24"x24"
5. **DAMPER: (XX)**
 00 - No Damper
 03 - PR10
 04 - PRD10 *
 06 - PR12 *
 08 - PRN100
6. **ACCESSORIES: (XX)**
 00 - No Accessories
 IB - Insulated Blanket**
 R - Round Straightening Grid
 R6 - Molded Insulation**
7. **FINISH: (XX)**
 01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

* PR12 and PRD10 are provided with a black finish.
 ** 24" x 24" Panel with 6", 8", 10", or 12" neck dimensions only.

5PLQ

The Architectural square panel ceiling diffusers of the sizes and mounting types shown on the plans or outlet schedule shall be the Krueger model 5PLQ. The 5PLQ shall have a square face plaque not exceeding 18"x18" for 24"x24" panel. The panel shall be constructed of aluminum. The face plaque shall not extend below the ceiling more than 1/4" and shall be removable from the backpan for access to the optional damper. Diffusers must discharge in the horizontal plane of the room. The diffuser backpan shall be one piece stamped construction of .0253" thick aluminum and have an integrally drawn round neck. The construction shall be 100% aluminum for use in MRI rooms and high humidity environments.

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

Optional directional blow tabs shall be constructed of aluminum and offered to provide 1-way, 2-way and 3-way throw patterns.

PLQLT

The low temperature architectural square panel ceiling diffusers of the sizes and mounting types shown on the plans or outlet schedule shall be the Krueger model PLQLT. The PLQLT shall have a one piece square face plaque not exceeding 18"x18" for 24"x24" panel size and be constructed of 16 gage steel with rounded corners that have a minimum radius of 3/4". The face plaque shall have a backing of 3/8" closed-cell engineered polymer foam insulation meeting UL 181 and NFPA 90A. Face plaques that have a secondary wrapper or use fiberglass on the back side of the plaque are not acceptable. The face plaque shall not extend below the ceiling more than 3/8" and shall be removable from the backpan for access to the optional damper. The diffuser backpan shall be one piece stamped construction of 22 gage steel and have an integrally drawn round neck. An R-6 rigid foil faced fiberglass cover shall be used on the backpan for vapor barrier isolation.

Diffusers must discharge in the horizontal plane of the room.

Optional duct or neck mounted 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 performance data for the diffuser, including 2 thru 7 Octave Band data. 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°F 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.

ARCHITECTURAL & PLAQUE DIFFUSERS

P L Q

SAMPLE CONFIGURATION: 5PLQ – 12 – F23 – 24x24 – 08 – 00 – 44