

TAD, TADSS Suggested Specification & Configuration

TAD, TADSS

The non-aspirating, radial displacement diffuser shall be a Krueger model TAD (aluminum) or TADSS (stainless steel) of the sizes shown on the plans or outlet schedule. The unit shall be configured to allow one of two means for providing uniform discharge flow over the face of the unit. These shall be either a factory backpan or a customer supplied HEPA filter.

The diffuser shall be capable of increasing the space particle removal rate, three times over laminar flow diffusers without increasing the supply air quantity, as determined by tests using laser particle count technology.

Provide for each diffuser, where required, a distribution plenum with internal spreading means and an inlet collar.

The diffuser shall have a flow measuring tap for ease of balancing.

The face of the diffuser shall have a free area not exceeding 15% to ensure true non-aspirating flow.

PERFORMANCE

The diffuser shall meet the following performance criteria: The air diffuser shall be tested for sound generation and pressure drop in accordance with the ANSI/ASHRAE 70. Room air velocities shall be determined in accordance with ASHRAE Standard 113.

STANDARD FINISH

The paint finish shall be #44 British White, powder coat paint, baked at 425°F. The paint thickness shall be 2.0 – 3.0 mils, gloss at 60° per ASTM D523-89 of 60 – 70%, pencil hardness per ASTM D3363-92A of H – 2H, crosshatch adhesion per ASTM D3359-83 of 5B, salt spray per ASTM B117-9048 of 1000 hours, humidity per ASTM D2247-92 of 1000 hours and conical mandrel per ASTM D522 of 1/8" conical bend, no cracking shows.

ANTIMICROBIAL FINISH

The paint finish shall be powder coat paint, baked at 425°F. The paint thickness shall be 2.0 – 3.0 mils, gloss at 60° per ASTM D523-89 of 55 – 65%, pencil hardness per ASTM D3363-92A of H – 2H, crosshatch adhesion per ASTM D3359-83 of 5B, salt spray per ASTM B117-9048 of 1000 hours, humidity per ASTM D2247-92 of 1000 hours and conical mandrel per ASTM D522 of 1/8" conical bend, no cracking shows.

- 1. SERIES: (XXXXX)**
TAD - Aluminum Total Air Diffuser
TADSS - Stainless Steel Total Air Diffuser
- 2. DISCHARGE AIR PATTERN: (X)**
1 - 1-Way
2 - 2-Way
- 3. PANEL: (XX)x(XX)**
12"x48" *
24"x24"
24"x48"
- 4. FINISH: (XX)**
01 - Mill
10 - Alumican
35 - Black
44 - British White

Backpan is not included with models TAD and TADSS; it must be ordered separately.

** Only available on 1-way discharge air pattern.*

CRITICAL ROOM PRODUCTS

T
A
D

SAMPLE CONFIGURATION: TAD - 2 - 24x48 - 44