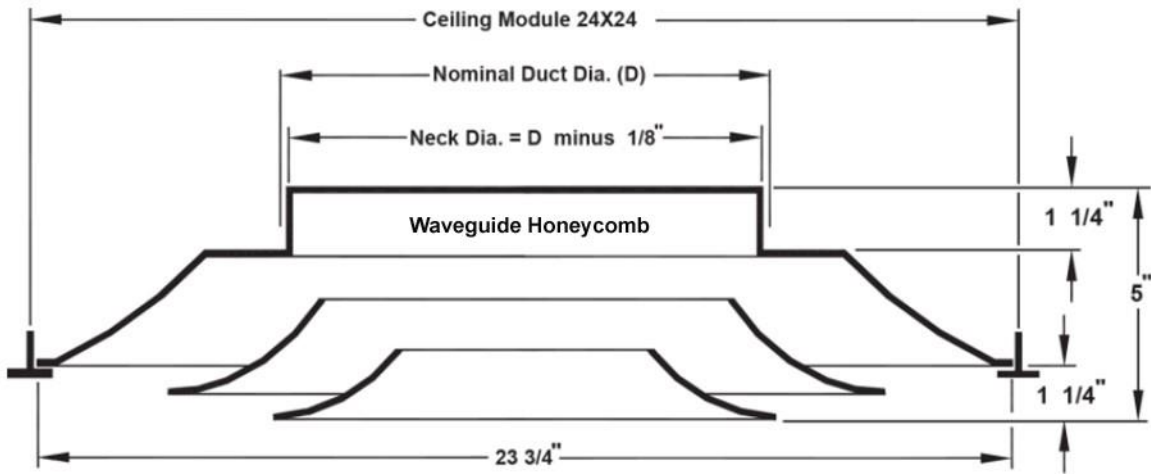# TECHNICAL DATA

Xalon RF Shielded Suspended Ceiling Air Vent Diffusers

Product Description (Supply Air Diffuser XAD-S)

• XAD-S delivers supply air in a true 360º pattern. Designed to protect ceiling from streaking and smudging.

• Excellent for variable volume systems. The uniform, nearly horizontal jet from the outer cone maintains effective room air distribution even when air volume varies over a considerable range.

• The XAD-S consists of 3 concentric cones in all sizes. This uniformity of design enhances appearance in installations where more than one size is involved.

• All cones are die-stamped one piece construction with smooth, clean surfaces and no corner joints.

• Material is heavy gauge aluminum with steel bar webbing.

• Designed to lay-in to RF sealed ceiling grid with fingerstock installed.

• Outer perimeter, top to bottom, has copper foil applied.

• Duct neck has 3/16" x 1", galvanized steel, waveguide honeycomb installed.

• Waveguide honeycomb shielding effectiveness: 100dB from 14KHz to >10GHz.

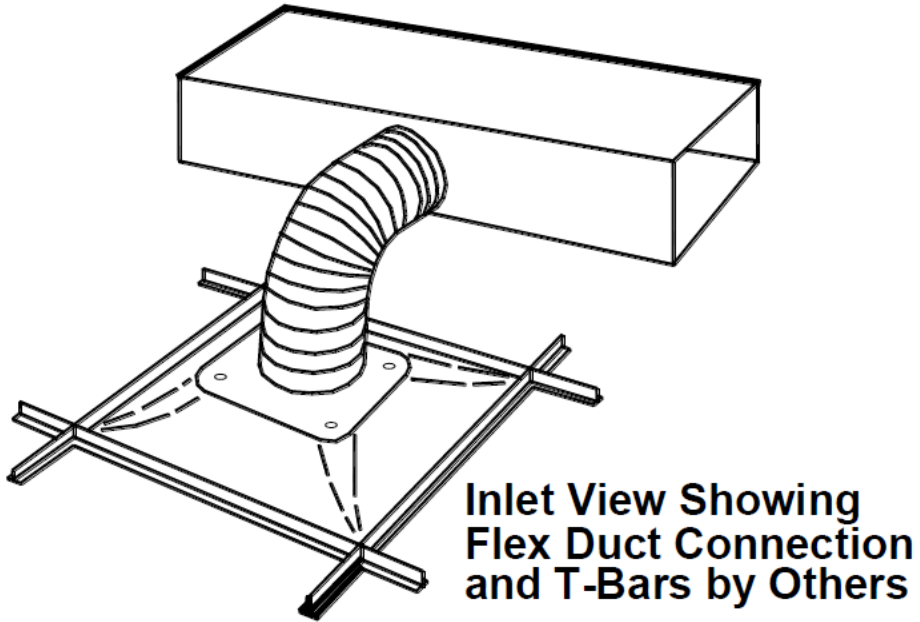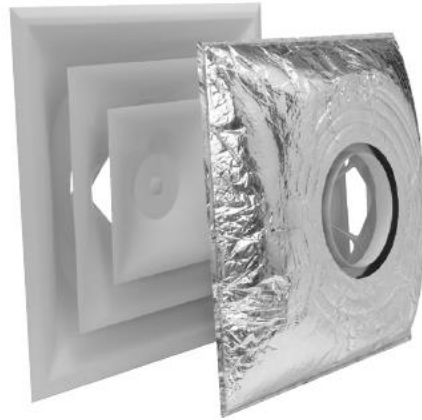• XAD-S shielding effectiveness: 60dB from 100MHz to 10GHz.

Ceiling Module 24X24

Nominal Duct Dia. (D)

Neck Dia. = D minus 1/8"

Waveguide Honeycomb

1 1/4"

5"

1 1/4"

23 3/4"

Available in these sizes:

Ceiling Module A	Nominal Round Duct Size B	C	D	E
24 x 24	6, 8	1 1/4	5	1 1/4
24 x 24	10, 12, 14, 15	1 3/8	5 1/8	1 1/4

Examples: XAD-S-8 (8" Inlet) XAD-S-12 (12" Inlet)

Inlet View Showing
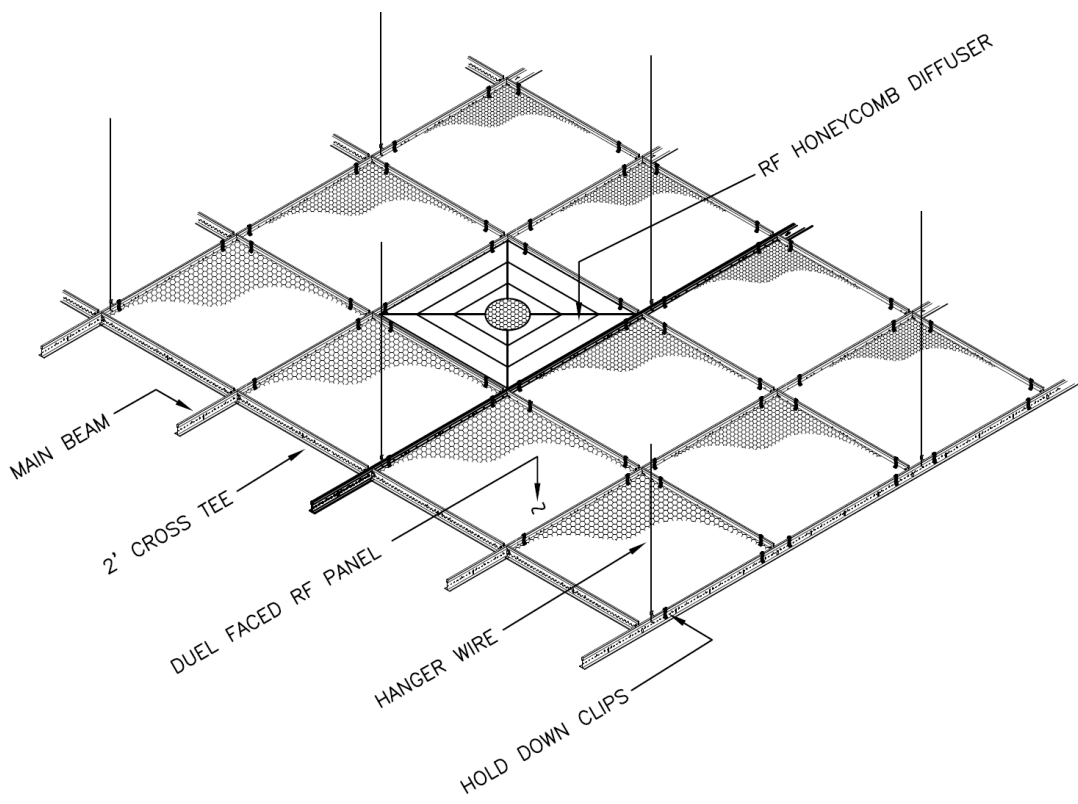Flex Duct Connection
and T-Bars by Others

Optional Molded Insulation Blanket

Insulation is R-6 where blanket has the most depth. One" clearance on each side of neck is left for insulated duct connection. 24 x 24" full face models only.

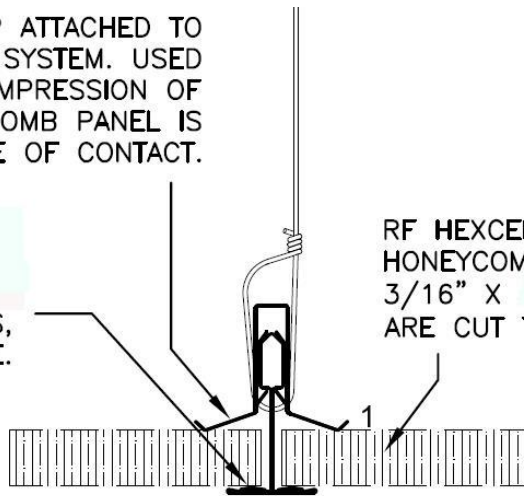**Product Description (Return Air Diffuser XAD-R)**
• 3/16" x 1", galvanized steel, waveguide honeycomb
• Nominal 24" x 24", is the only size available.
• Designed to lay-in to RF sealed ceiling grid with fingerstock installed.
• Waveguide honeycomb shielding effectiveness: 100dB from 14KHz to >10GHz
• XAD-R shielding effectiveness: 60dB from 100MHz to 10GHz

RF HONEYCOMB DIFFUSER

MAIN BEAM

2' CROSS TEE

DUEL FACED RF PANEL

HANGER WIRE

HOLD DOWN CLIPS

UNIVERSAL HOLD DOWN CLIP ATTACHED TO
TOP BULB OF SUSPENSION SYSTEM. USED
TO ENSURE THAT PROPER COMPRESSION OF
THE DROP—IN HONEYCOMB PANEL IS
ACHIEVED AT THE RF LINE OF CONTACT.

FINGERSTOCK
APPLIED AT MAIN BEAMS,
CROSS TEES & WALL ANGLE.

RF HEXCELL STEEL
HONEYCOMB WAVEGUIDE,
3/16" X 1". PANELS
ARE CUT TO FIT.

Product Description (Waveguide Honeycomb Common to Both Air Diffusers)
• Lead Free 3/16" x 1", galvanized steel, waveguide honeycomb
• Alternate Style may use Lead Free 3/16" x 3/4", galvanized steel, waveguide honeycomb
   • Still meets 60dB at 10GHz

'HONEYCOMB PERFORMANCE DATA'