

TECH TALK

TT-17

August 2005



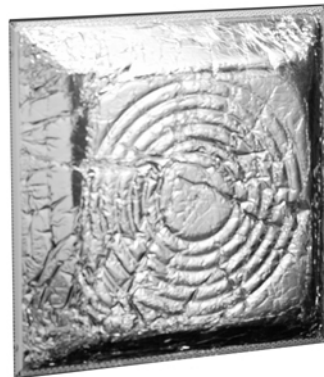
T-Bar Diffusers with Molded Fiberglass Back Panels

by Dave Fetters

Quite a few of the Hart & Cooley lay-in T-bar diffusers and return grilles use a molded fiberglass back panel or plenum. The molded fiberglass backs have some significant features.

- Bonded foil vapor barrier
- Prescored for different collar sizes
- UL 181 Erosion and Impact tested
- Meets ASTM E84 for 25/50 code compliance
- 4-inch deep cavity
- “R” values of 4.2 and 6
- Approved for the city of Los Angeles
- Labeled with code information

Fiberglass back panels allow for the use of various collar styles like spin-in, tab-in, or our own 5400 Series Collar Ring (6-inch through 18-inch diameters). The use of the 5400 collar allows for the installation of our 3800, T19, or RD round dampers, either at the time of installation or later.



Fiberglass Back Panel

NOTE: Attachment of molded fiberglass back and 5400 collar requires 5400PP (push pins).

The 5400 collar was originally designed for, and is still used on, our metal-backed T-bar products like the HVS/FPD and others. As such, it



5400 Collar

comes with four small plastic push pins that snap into the prepunched holes in the metal plenum. If one chooses to use the 5400 collar with the fiberglass back panel, a different but similar mounting system is employed.

If one chooses to use the 5400 collar with the fiberglass back panel, a different but similar mounting system is employed.

- Cut the four small plastic push pins off of the 5400 collar plate.
- Cut a hole in the fiberglass back panel to match the collar size.
- Lay the 5400 collar on the back panel.
- Punch holes in the back panel with a screwdriver or awl using the plate holes as a template.
- Push the 5400PP push pins up through the back panel holes from the inside and through the holes in the plate.

The large head on the black plastic push pins (5400PP part number 014525) should be snug against the fiberglass back on the inside, and the “Christmas tree” legs should grip the holes in the collar plate tightly.



5400PP Push Pin

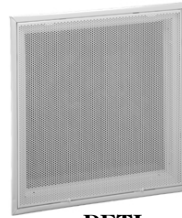
This collar attachment system works for the following products.



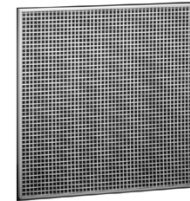
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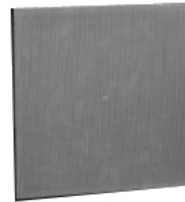
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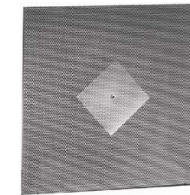
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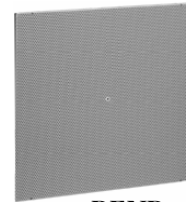
RE5TI



REN4



RENPS



RENP



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