



**PLENUM SLOT DIFFUSER**  
**SUPPLY • ADJUSTABLE "ICE TONG" DEFLECTORS**  
**ST STRADDLE MOUNT**  
**MODEL: 5850, 5875 AND 5810**

**DESCRIPTION:**

1. The 5800 Series Plenum Slot Ceiling Diffusers have been designed for standard lay-in T-Bar ceiling grid applications. They integrate and blend with the suspended grid, so offering an extremely unobtrusive method of air distribution.

2. The 5800 Series features the same 'ice-tong' pattern controller as used in the 5000 Series Linear Slot Diffuser, providing total flexibility in all applications. The direction of airflow is adjustable through a full 180° from the face of the diffuser and pattern controllers may also be adjusted for volume control. In the horizontal discharge setting, the coanda effect is maximized and a tight blanket of air is projected across the ceiling. The horizontal pattern is maintained throughout a wide range of cataloged air volumes from maximum to minimum flow. They offer the discerning engineer and architect premium quality construction and design features, making them an excellent choice for VAV applications. Factory furnished center tees are dropped below diffuser face to match the ceiling grid.

Standard nominal lengths: 20", 24", 30", 36", 48" and 60" to suit imperial ceiling grids. 500, 600, 750, 900, 1200 and 1500 mm to suit metric grids.

Slot width: Choice of 1/2", 3/4" and 1" (13, 19 and 25).

Number of slots: Choice of 2 or 4 slot configurations.

Standard inlet sizes: 6", 8", 10" and 12" (152, 203, 254 and 305). Other sizes are available.

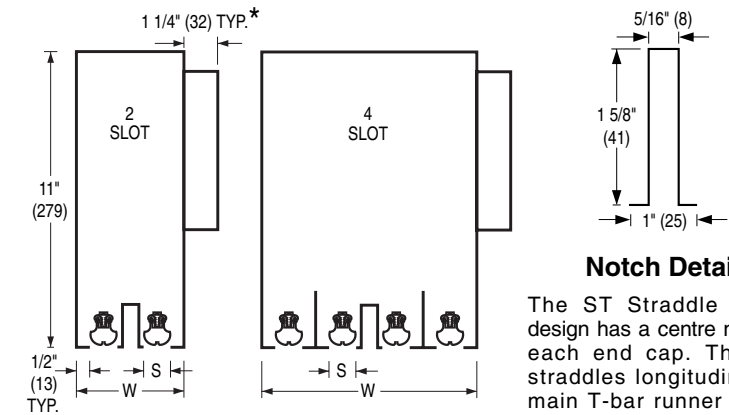
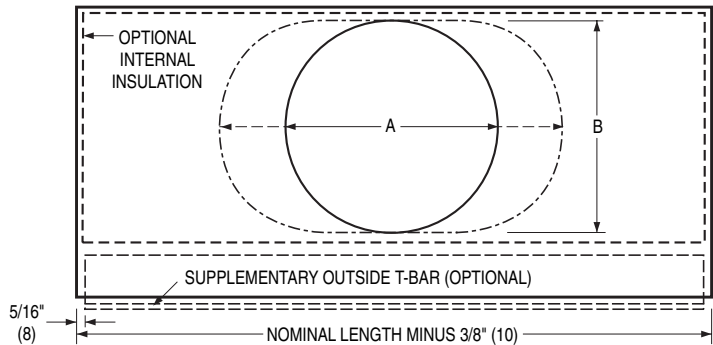
3. The pattern controller is split mid-way on units 48" (1219) long and over. This allows a 2-way opposite blow pattern from a single slot.

4. Material: Corrosion resistant steel for plenum, pattern controllers and center tees.

5. Standard Finish:  
 BK Black pattern controllers and exposed surfaces.  
 AW Appliance White on center T-bars.

**ACCESSORIES (OPTIONAL):**

1. Internal Insulation
  - Model 5850I
  - Model 5875I
  - Model 5810I
2.  ID Inlet Damper
3.  CN Cross Notch. Bisects diffuser length to allow a 48" (1200) unit to install in a 2' x 2' (600 x 600) grid.
4.  PF Plaster Frame
5. Supplementary T-Bars
  - T1 One (inlet side)
  - T0 One (opposite inlet side)
  - T2 Two (both sides)
6. Mounting Clips
  - M1 One side (2 opposite inlet side)
  - M2 Both sides (4)
7.  EX External Foil Back Insulation
8.  SP Special features \_\_\_\_\_ .



**Notch Detail**  
 The ST Straddle Mount design has a centre notch in each end cap. The unit straddles longitudinally a main T-bar runner on the existing ceiling grid.

- MODEL 5850**  
1/2" (13) Slot width
- MODEL 5875**  
3/4" (19) Slot width
- MODEL 5810**  
1" (25) Slot width

|       |        | S<br>Slot Width |            |         |
|-------|--------|-----------------|------------|---------|
|       |        | 1/2" (13)       | 3/4" (19)  | 1" (25) |
| Width | 2 Slot | 3 (76)          | 3 1/2 (89) | 4 (102) |
|       | 4 Slot | 6 (152)         | 7 (178)    | 8 (203) |

|   | Nominal Inlet Size |                  |                  |                  |
|---|--------------------|------------------|------------------|------------------|
|   | 6 (152)<br>Round   | 8 (203)<br>Round | 10 (254)<br>Oval | 12 (305)<br>Oval |
| A | 5 7/8 (149)        | 7 7/8 (200)      | 11 (279)         | 14 1/8 (378)     |
| B | -                  | -                | 7 7/8 (200)      | 7 7/8 (200)      |

\*4" (102) with optional ID Inlet Damper

|                       |             |                                |                   |                    |  |
|-----------------------|-------------|--------------------------------|-------------------|--------------------|--|
| <b>SCHEDULE TYPE:</b> |             | Dimensions are in inches (mm). |                   |                    |  |
| <b>PROJECT:</b>       |             |                                |                   |                    |  |
| <b>ENGINEER:</b>      | <b>DATE</b> | <b>B SERIES</b>                | <b>SUPERSEDES</b> | <b>DRAWING NO.</b> |  |
| <b>CONTRACTOR:</b>    | 11 - 2 - 07 | 5800                           | 12 - 7 - 00R      | 5800-3             |  |