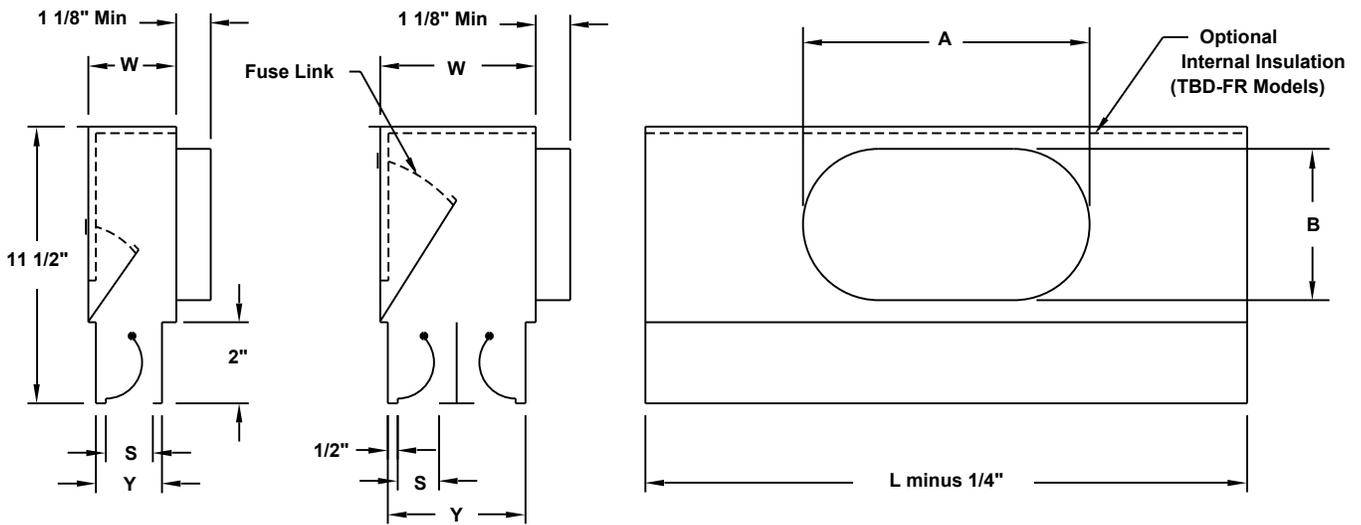


# Plenum Slot Diffuser Fixed Blade • Fire Rated

Model TBD-FR • 1 or 2 Slots

TBDI-FR • 1 or 2 Slots • Internal Installation

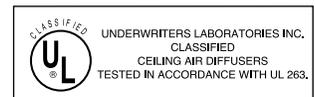


| Available Inlet Sizes | A      | B     |
|-----------------------|--------|-------|
| 5 Round               | 4 7/8  | —     |
| 6 Round               | 5 7/8  | —     |
| 7 Round               | 6 7/8  | —     |
| 8 Round               | 7 7/8  | —     |
| 10 Oval               | 12 1/2 | 5 1/4 |
| 12 Oval               | 14 1/8 | 7 7/8 |

| Model   | Number of Slots | Slot Width S | W       | Y       |
|---------|-----------------|--------------|---------|---------|
| TBD-FR  | 1               | 3/4          | 2 3/4   | 1 3/4   |
| TBD-FR  | 2               | 3/4          | 4 1/2   | 3 1/2   |
| TBD-FR  | 1               | 1            | 3       | 2       |
| TBD-FR  | 2               | 1            | 4 15/16 | 3 15/16 |
| TBD-FR  | 1               | 1 1/2        | 3 1/2   | 2 1/2   |
| *TBD-FR | 2               | 1 1/2        | 6 1/4   | 5 1/4   |

| Available Lengths L | Available Inlet Sizes |
|---------------------|-----------------------|
| 24                  | 5, 6, 7, 8, 10        |
| 30                  | 5, 6, 7, 8, 10        |
| 48                  | 6, 7, 8, 10, 12       |

\* Note: The 2-slot, 1 1/2" slot width diffusers are not UL classified.



## Other Accessories (Optional)

Check  if provided

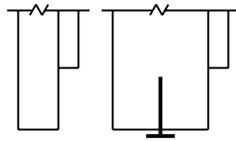
Fusible Link 165° F (212° F is standard)

## Accessories (Optional)

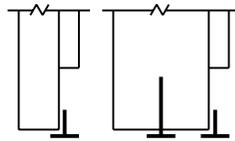
Check  if provided

Internal Insulation (TBDI-FR)

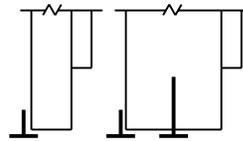
### Optional Factory-Furnished T-Bars



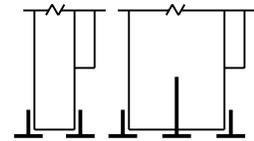
0  
 No Outside T-Bars



1  
 One Outside T-Bar,  
Inlet Side



1L  
 One Outside T-Bar,  
Side Opposite Inlet



2  
 Two Outside T-Bars,  
One Each Side

Note: Factory supplied outside T-bars are 1" wide. Center T-bars on 2-slot units are furnished by TITUS.

## Standard Finish:

#84 Black on pattern controllers and exposed surfaces

#26 White on center T-bars and optional side T-Bars

## General Description

Model TBD-FR is a fire rated plenum slot diffuser. The design meets UL time-vs-temperature test criteria, also NFPA 90A requirements.

With its aerodynamically curved blade design, the TBD-FR projects a tight blanket of air across the ceiling, from minimum to maximum flow.

This blanketing effect makes the TBD-FR an excellent choice for variable air volume operation, and has the extra advantage of minimizing smudges on ceiling.

The pattern controller blades are installed at the factory for a fixed air flow direction as shown in the dimension drawing. The air flow direction of each blade can be changed in the field.

When you specify TITUS Model TBD-FR diffusers, you get these features:

- Damper with fuse link.
- Design qualified by UL for use with hard or flex duct, also for ductless applications.

- For use in 3-hour, or less, fire rated exposed grid, suspended ceilings\*.
  - Choice of 3/4", 1" or 1 1/2" slot width, 1 or 2 parallel slots\*.
  - Available in 24", 36", 48" nominal lengths.
  - Optional internal insulation.
  - Material is steel.
  - Must be installed according to installation instructions for UL classification.
- \* Note: The 2-slot, 1 1/2" slot width diffusers are not UL classified.



Note: This submittal is meant to demonstrate general dimensions of this product. The drawings on this submittal are not meant to detail every aspect of the product with exactness. Drawings are not to scale. TITUS reserves the right to make changes without written notice.

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