

THERMAL PRODUCTS CORPORATION

Architectural Series Diffuser Ceiling Tile Instructions

The appearance panel of the VFS24 "D" or the SAS24 "D" architectural series diffusers is designed to accept a ceiling tile. The tile will mount in the hinged appearance panel frame. The diffusers are shipped with the appearance panel attached to the diffuser.

To insert a ceiling tile into the panel, the panel should be removed from the diffuser. Removal of the appearance panel frame is most easily accomplished when the unit is installed in the ceiling grid. It may be removed prior to installation in the grid with some additional care to avoid scratching the paint.

The panel is hinged at the end opposite of the induction inlet. It is held closed with quick release latches located at the induction inlet end on the far right and left back side of the panel. To access the quick release latches, face the induction end of the diffuser placing the palms of your hands on the right and left sides of the panel at the induction end. Reach over the edge with your fingers to turn the latches from the closed position to the open position (*See Illustration #1 below*).

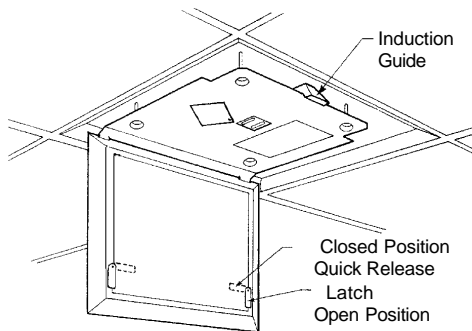


Illustration #1

In the open position the latches will be turned toward the induction edge of the panel. When disengaged, the panel will drop on the palms of your hands. It is important to position your hands so that the panel will not drop and swing freely.

Once the panel is unlatched, the panel will be supported by the hinges and will hang in the open position (perpendicular to the ceiling). This will allow access to the controls. To remove the panel from the diffuser, continue to swing the panel back past the open position until it is almost parallel to the ceiling and lift the panel off the hinges.

The appearance panel frame consists of a back pan and four flanged side plates with mitered corners. The side plates are held together with corner chevrons that are pressed into the flange. (*See Illustration #2 below*). To remove the

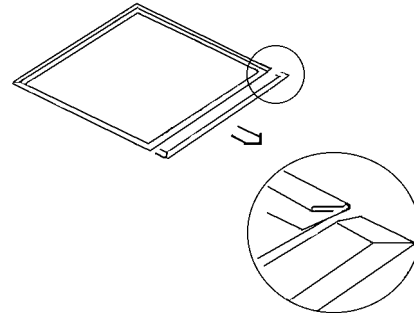


Illustration #2

flanged side plates, place the panel face up on a flat surface. Hold the panel with one hand while pulling one of the side plates (parallel with the table top) with the other. The side plate will slide off the panel with the chevrons attached. The remaining three side plates will slide off the panel as a "U" shaped assembly.

The ceiling tiles that may be used on the VFS24 "D" or SAS24 "D" architectural series diffusers are only limited by the tile thickness. The maximum thickness is 3/4" for a standard ceiling tile without having to use a router to make a 1/2" wide recess around the perimeter of the tile face for the flanged side plates. Sculptured tiles and tiles used in a recessed grid should be measured for thickness from the recess to the back of the tile for a maximum thickness for 3/4 inch.

Trimming the tile for a proper fit in the appearance panel frame is most easily done with a router and jig or a table saw. Trimmed tile dimensions for a recessed or tiles used in a recessed grid should be measured for thickness from the recess to the back of the tile for a maximum thickness for 3/4 inch.

Trimming the tile for a proper fit in the appearance panel frame is most easily done with a router and jig or a table saw. Trimmed tile dimensions for a recessed or sculptured tile are shown in Illustration #3. (See below)

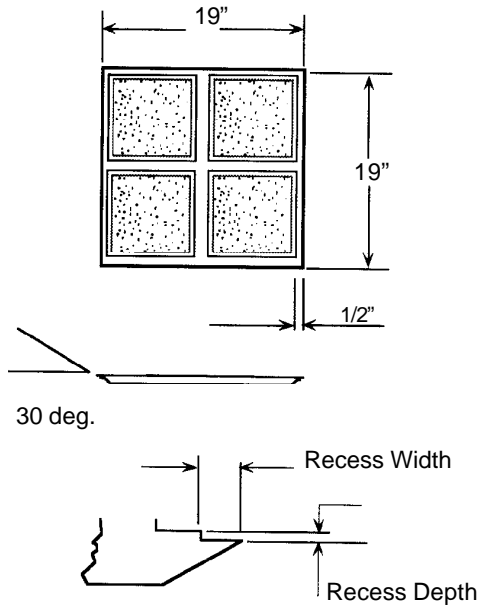


Illustration #3

To trim the tile, the following steps should be taken :

STEP 1

Trim the tile to the proper blank size (19" x 19"). If the tile has a repeating pattern, set the jig for one half of the total amount to be removed and trim all four sides of the 24" x 24" blank. This will insure that the diffuser will align with the pattern on the tiles in the grid

STEP 2

Trim the edges of the tile on a 30 degree angle. For sculptured or recessed grid tiles, trim the recess into the edge of the tile. The recess depth should be the same as the recess of that particular tile and the recess width 1/2 inch.

STEP 3

The trimmed tile is inserted into the appearance panel back pan. Adhesive may be used to secure the tile to the back pan but may not be necessary depending on the tile being used. The "U" shaped assembly of flanged side plates is slid over the tile and back pan. Holding the base and the "U" shaped assembly of flanged side plates with one hand, insert the chevrons of the remaining side plate into the flange of the "U" shaped assembly (**See Illustration #2**). Push the chevrons into the assembly until the miters meet. Some resistance should be felt, and it may be necessary to stand the panel on end to tap the flanges together.

STEP 4

Install the tile on the diffuser. Insert the hinge pins on the diffuser into the hinge holes on the appearance panel frame. Swing the panel down to the open or closed position. To secure the panel in the closed position, turn the latches to the closed position over the base plate.