

TECHNICAL BULLETIN

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A conventional lay-in diffuser will typically have overall dimensions that measure $\frac{1}{4}$ " under the nominal grid module size, e.g. a diffuser for a 24" x 24" module size will be 23- $\frac{3}{4}$ " x 23- $\frac{3}{4}$ ". A lay-in diffuser set into a conventional $\frac{15}{16}$ " inverted T-bar grid system fits with ample clearance and when everything is exactly centered, the T-bar supports the diffuser with $\frac{11}{32}$ " overlap around the entire perimeter of the diffuser. If the diffuser shifts entirely (about $\frac{1}{8}$ ") to one side of the module, there is still about $\frac{7}{32}$ " overlap to support the diffuser. The use of $\frac{9}{16}$ " inverted T-bar grid systems reduce this overlap to only $\frac{1}{32}$ " - and this is calculated at exacting dimensions! With the potential for ANY TYPE air device to fall from a ceiling grid system, the installer should follow accepted practices, codes, standards, and specifications to attach or support the device appropriately.

If the installer wishes to reduce the amount of potential shift of the device within the grid, $\frac{3}{32}$ " thick shims can be placed between the diffuser back pan and the grid. This effectively reduces the clearance and centers the diffuser in the module. Upon request, Anemostat can also provide spring clips that reduce the clearance between the air device and the grid member. The clips have barbs on them to bite into the diffuser. Typically, two clips per corner installed at two opposite corners will do the trick!

