

TECHZONE™ Ceiling System Chilled Beams

TROX® TECHNIK

Armstrong® TechZone™ Compatible

TROX DID301-US-TZ & DID302-US-TZ Series Active Chilled Beams

Compared to all-air systems, chilled beams can considerably reduce system operating and maintenance costs and can effectively integrate into high-performance HVAC operational plans designed to enhance a project's LEED™ rating.

A chilled beam does the majority of its cooling with chilled water, which has a significantly higher heat exchange than air alone, therefore the amount of chilled water and conditioned air is reduced, saving energy. Because the same amount of cooling can be delivered via a 1" diameter water pipe as that delivered by an 18" air duct, it is easy to see the space benefits of a chilled beam system.

With both a cooling and cooling/heating option, chilled beams can be easily incorporated into the Armstrong® TechZone™ Ceilings, providing architects and engineers the ultimate in design flexibility in renovations, retrofits and new construction.



12" X 96" Chilled Beam

TROX® TECHNIK

The art of handling air

TROX USA Technical Support

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Catalog Numbers

- DID301-TZ or 302-US-TZ 9/16" AND 15/16" Lay-In
- DID301-TZ or 302-US-TZ 15/16" Tegalur
- DID 301-TZ or 302-US-TZ 9/16" Tegalur

Beam Description

The TROX DID301-US-TZ and 302-US-TZ Series active chilled beams are provided in two standard lengths, a full-length 8-foot beam and a 4-foot half-beam, both with perforated induced air grille and a circular side-inlet for the connection of the conditioned primary air. The DID301-US-TZ (1-way discharge) and the DID302-US-TZ (2-way discharge) models are vertically mounted heat exchangers with condensate drip trays for low chilled water flow temperatures. There are two types of heat exchangers – a two-pipe system for cooling or heating and a four-pipe system that allows any room to be cooled or heated independently of other rooms. Three nozzle sizes are available to optimize induction.

Beams are provided with four or six sliding hanging brackets for on-site installation. The brackets provide adjustability within the ceiling grid system and can be mechanically locked into position. To gain access to the heat exchanger coils, the induction grille can be removed completely by releasing all four of the grille fixing bolts. Safety wires attached to the induction grille provide additional support.

The specially designed TROX DID301-US-TZ and DID302-US-TZ are the only chilled beams to be developed specifically to integrate into Armstrong TechZone ceilings. By combining two innovative technologies, architects and engineers now have a visually appealing, custom design-look with the flexibility of a modular ceiling system.

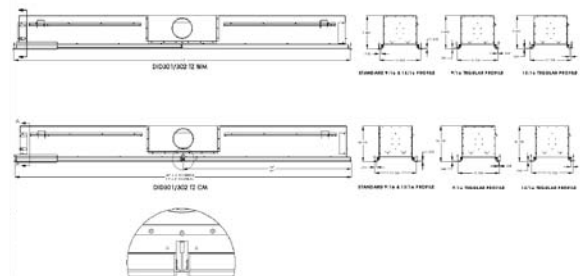
(Note: The DID301-US-TZ & DID302-US-TZ active chilled beams are also available in 3- to 10-foot lengths as a cost option)



12" X 96" Chilled Beam



12" X 96" Chilled Beam, notched at 48"



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