

GridLock® Fiberglass Ceiling Suspension System

Description

GridLock Ceiling Suspension system is an aggregate of components made of polymer and/or fiberglass composite that form a rigid suspension grid system. The system is composed of main runners and cross members (2 and 4 feet long) in an inverted (T) tee configuration that are secured in place at their intersection with a series of locking clips. The locking intersections are generally centered at 2' x 2' or 2' x 4' but can be customized to accommodate occasional odd sizes. The grid can be fitted with a gasket to allow for a seal to appropriate panels and such panels can be locked in place from below; allowing for easy access to the interstitial space. The Gridlock installation is ideal for use in facilities where cleaning and disinfecting are critical. The surfaces are dense, stain resistant, chemical resistant and impervious to water. The system will not rust or deteriorate from continued exposure to water and chemicals.

GridLock Suspended Ceiling System is used in food service, animal holding rooms, utility corridors and clean room applications.

Properties:

Fire Rating: Class 1 ASTM E 84 (actual test flame spread of 5 and smoke developed of 65)

Beam Strength: 3-point bend test; failure @ 110 pounds in middle of 4' span.

Tensile Strength: Pull apart with riveted splice clips 670 pounds force with 5 degree deflection.

Compressive Strength: Main Runner Junction with Riveted splice clip; 3400 pounds
Cross tee junction; 1000 pounds

Deflection: ASTM C 635: .0133" for 9.1 pounds per linear foot

Pull Out Test: 0.15" hole, 0.58 from top of web, 45 degree angle pull; 350 pounds
0.125" hole, 0.875" from top of web, 45 degree angle pull; 580 pounds

Color: White

Finish: Flat

Cleaning: GridLock ceilings can withstand daily surface washing, wet wiping, dusting and vacuuming. When used in conjunction with GridLock Gasket and lockdown systems it can withstand high-pressure washing. The resin finish will not support the growth of bacteria or mold.

Components:

- 1) 12' polyester/fiberglass main runners
- 2) 2' and 4' cross tees made of polyester/fiberglass
- 3) 8' polyester/fiberglass wall angle
- 4) PVC clips including splice clips to connect main runners, cross tee clips to secure the configuration of cross tees to the main runner and wall clips to secure the main runner and tee assembly to the wall angle which locks the system in place.

Product Offering: The GridLock Suspended System is offered in two configurations; Selected Access (SA) and Drop In (DI). Each of these configurations is offered in either 2' x 2' or 2' x 4'. For the DI configuration panels are simply dropped into the grid space provided. In the SA design all grid openings are gasketed and 90% of the panels are installed with lock down clips from above while 10% are installed with accessible clips from below. In the A system all panels are accessible from below.

Installation: Prior to installation the area in consideration should be at operating conditions for temperature and relative humidity for at least 24 hours prior to and during installation to ensure proper fit and seal. Installation can be completed as Seismic rated. NOTE: Rail frame is NOT designed to carry weight of lights, diffusers or equipment. Such equipment must be supported independently.