Seismic Technical Guide

Perimeter Cross Tees with ACM7 Seismic Clip

ACM7 Seismic Clip



USG® offers numerous DONN® suspension systems cross tees designed to function with the USG ACM7 seismic clip in all seismic design categories A-F. Use this guide to ensure that the connection of the perimeter cross tees with the ACM7 seismic clip functions to meet the required seismic design criteria. Because codes continue to evolve, check with local officials prior to designing and installing a ceiling system.

The ACM7 seismic clip is designed to function with a variety of main tee and cross tee profiles and dimensions. It is common practice to install the clip with cross tees that have a profile height of 1-1/2 in. or greater, however 2 ft. cross tees are produced with a profile height of 1 in. In a 2 ft. x 2 ft. layout, the 4 ft. cross tees are typically utilized at the perimeter and cut to size to meet the perimeter wall. This is an economical method as both ends of the 4 ft. cross tee can be used for cuts smaller than 2 ft. and produces no additional waste versus cutting a 2 ft. cross tee. The following layouts illustrate these differences.



Standard Non-Seismic Tee Patterns



Standard Seismic Tee Patterns with USG ACM7 Seismic Clip



USG ACM7 Seismic Clip



Note: ¾ in. gap shown is typical for seismic design categories D-F. 3/8 in. gap is typical for seismic design category C.

USG ACM7 Seismic Clip

Perimeter Cross Tee Options

The ACM7 seismic clip is designed to function with a variety of main tee and cross tee profiles and dimensions. It is common practice to install the clip with cross tees that have a profile height of 1-1/2 in. or greater, however 2 ft. cross tees are produced with a profile height of 1 in. and in some instances 2 ft. cross tees are desired at the perimeter. For this application, the ACM7 seismic clip can function with 2 ft. cross tees that have a profile height of 1 in., however the connection is different versus tees that have a profile height of 1-1/2 in. or greater. Use the following guidelines to ensure that the connection of the 2 ft. perimeter cross tees with the ACM7 seismic clip functions to meet the required seismic design criteria.



Product Information

See usg.com for the most up-todate product information.

Installation

Must be installed in compliance with ASTM C636, ASTM E580, CISCA, and standard industry practices.

Code Compliance

The information presented is correct to the best of our knowledge at the date of issuance. Because codes continue to evolve, check with a local official prior to designing and installing a ceiling system. Other restrictions and exemptions may apply. This is only intended as a quick reference.

Purpose

This seismic technical guide (STG) is intended as a resource for design professionals, to promote more uniform criteria for plan review and jobsite inspection of projects. This STG indicates an acceptable method for achieving compliance with applicable codes and regulations, although other methods proposed by design professionals may be considered and adopted.

ICC Evaluation Service, Inc., Report Compliance

Suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in ICC-ES Evaluation Report 1222. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to usgdesignstudio.com or usg.com for current reports.

L.A. Research Report Compliance

Down brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in the following L.A. Research Report number: 25764.

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We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Safety First!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.



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