

Pei Evaluation Service® is an accredited ISO Standard 17065 Product Certifier, accredited by the IAS. This **Product Evaluation Report** represents a product that **Pei ES** has Evaluated. This product has a Product Evaluation Service Agreement & Follow-up Inspection Service Agreement. This **Product Evaluation Report** in no way implies warranty for this product or relieves **USG Interiors, LLC** of their liability for this product. This **PER** is an official document if it is within one year of the initial or re-approval date.

Initial Approval
October, 2016

Re-Approved
October, 2020

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Report Owner

USG Interiors, LLC
550 West Adams Street
Chicago, Illinois 60661

Approved Manufacturing Locations

USG Interiors, LLC
Plant # 601
1000 Crocker Rd.
Westlake, OH 44145

Product

USG Donn® AdvanceSpan Suspension System

Evaluation Report Information

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General Details

This report covers the **USG Donn AdvanceSpan** Suspension System. **USG Interiors, LLC** has a Product Evaluation Service Agreement with **Pei Evaluation Service® (Pei ES)** and Follow-up Inspection Service Agreement with *Progressive Engineering Inc. (Pei)*. The manufacturing location shown in this **PER** has an approved Quality Control Manual and is audited Quarterly by *Pei*.

Product Description

The **Donn AdvanceSpan** Systems described in this report, are assemblies used in interior general-use areas only. The suspended ceiling systems consist of DXASHRC & DXTASHRC Main Tees, US44 Channel Molding with US44CC Channel Clips, ASMTSP Splice Plates, and ASCBC Cross Brace Clips. All steel framing members (Main Tees, Cross Tees, & Wall Molding) have a minimum Type G30 hot-dipped galvanized coating and are manufactured using ASTM A653 steel with a minimum yield strength of 30-ksi. US44CC Channel Clips and ASMTSP Splice Plates are manufactured from minimum 30-ksi steel conforming to ASTM A653 with a minimum G90 galvanized coating.

General Product Use

- Donn AdvanceSpan** Systems shall be installed in accordance with the *Donn AdvanceSpan Installation Guide (AC3325)* and are subject to the conditions of this **PER**. A copy of the installation guide shall be made easily available to the installer.
- Complies with ASTM C635 and must be installed in accordance with ASTM C636, ASTM E580, CISCA, and standard industry practices, within applicable code requirements.
- All construction, wood or steel framing, beams, joist, stringers and associated connections needed to support the **Donn® AdvanceSpan** Ceiling System are outside the scope of this **PER**. All construction shall follow applicable codes or be designed by a licensed Engineer.
- Finish is not UV-resistant. All **USG** Donn Brand Suspension Grid Systems shall not be installed where directly exposed to sun or weather.
- In Seismic design categories D, E, F this product shall be approved by a registered design professional.

Properties Evaluated

Donn AdvanceSpan Ceiling System shall be installed in accordance with the provisions of ASTM C636 and ASTM E580 unless otherwise qualified through testing. This suspension system has been uniform load tested in accordance with the methods outlined in ASTM C635 with modifications for longer spans.

Code Compliance Meets requirements for Suspended Ceilings in accordance with:

2012, 2015 & 2018 International Residential Code	2012, 2015 & 2018 International Building Code	
Section R104.11	Section 104.11	Section 808
	Section 1613	2506.2.1

Meets the requirements of ASTM C635 (modified) and installation requirements of ASTM C636 as required in the 2012, 2015 & 2018 IBC.
Meets the requirements of AC156 for Seismic Certification by Shake-table Testing of Non-Structural Components.

Seismic Classification

Table 1 - Seismic Design Classification

Seismic Design Category A, B	Seismic Design Category C	Seismic Design Category D, E, F
No Requirement	Intermediate Duty	Heavy Duty

Standard Load Ratings

Table 2 - Rated Loads⁵

Main Tee	Metal Thickness (in)	ASTM Class ⁴		Maximum Span		
		8' Max Span	7' Max Span ³	7' Max Span	8' Max Span	8.5' Max Span
DXASHRC	0.021	Intermediate Duty	Heavy Duty	16.0	12.0	5.0
DXTASHRC	0.021	Intermediate Duty	Heavy Duty	16.0	12.0	5.0

Notes:

1. ASTM Class is valid when the ceiling grid is installed in accordance with ASTM C636 and/or ASTM E580.
2. Rated loads are based upon the load at a deflection limit of L/360.
3. All spans of 7-feet or less meet the requirements of Heavy Duty in accordance with the ASTM C635.
4. ASTM C635 Class, Table 1: ≥ 5 lb/ft.; Light Duty Intermediate Duty ≥ 12 lb/ft; Heavy Duty ≥ 16 lb/ft
5. Refer to Table 3 for alternative system installations approved for use in Seismic Design Category C and/or D, E, & F when tested in accordance with AC156.

Shaketable Qualified Installations

Table 3 - USG Donn AdvanceSpan AC156 Seismic Qualified Installations

USG System ID	Passed AC156 @ Ss (g)	Approved Seismic Category ¹	Main Tee ³			Cross Tee ⁴		Wall Molding ³	Maximum System Weight ⁵ (psf)	Figures for Adjacent "Floating" Sides (Clearance)	Figures for Adjacent Fixed Sides ⁶
			USG Model	Unsupported Length ²	Spacing	USG Model Options	Maximum Spacing				
ASDX Suspension System	3.0	D, E, F	DXAS	8'-6"	2'-0"	DX216	4'-0"	US44	4.0	Figure 5 (3/4" Gap)	Figure 6
						DX424	4'-0"				
	3.0	D, E, F	DXAS	7'-0"	4'-0"	DX216	2'-0"	US44	4.0	Figure 5 (3/4" Gap)	Figure 6
						DX424	2'-0"				
	2.75	C	DXAS	8'-0"	4'-0"	DX216	2'-0"	US44	3.0	Figure 7 (3/8" Gap)	Figure 7 (3/8" Gap)
						DX424	2'-0"				
ASDXT Suspension System	3.0	D, E, F	DXTAS	8'-6"	2'-0"	DXT222	4'-0"	US44	4.0	Figure 5 (3/4" Gap)	Figure 6
						DXT424	4'-0"				
	3.0	D, E, F	DXTAS	7'-0"	4'-0"	DXT222	2'-0"	US44	4.0	Figure 5 (3/4" Gap)	Figure 6
						DXT424	2'-0"				
	2.75	C	DXTAS	8'-0"	4'-0"	DXT222	2'-0"	US44	3.0	Figure 7 (3/8" Gap)	Figure 7 (3/8" Gap)
						DXT424	2'-0"				

Notes:

1. All systems are approved for use in Seismic Design Category A, B, and C. Systems approved for Seismic Design Category C may be considered Intermediate Duty installations, and systems approved for Seismic Design Category D, E, & F may be considered Heavy Duty installations in accordance with the definition from ASTM C635.
2. Systems from Table 3 are limited to use with the maximum unsupported length shown. Unsupported length is maximum main tee span between wall molding supports without the use of hanger wires, perimeter wires, or splay wires.
3. See Figure 1 for main tee and wall molding details.
4. See Figure 4 for referenced cross tee details.
5. Maximum system weight was achieved by using two layers of Gypsum Lay-in Panels (GLIP) for Heavy Duty installations and one layer of GLIP with 1 layer of Radar panels for Intermediate Duty installations. Alternative lay-in panels of equivalent plan dimensions (2'x2' or 2'x4' as applicable) may be utilized as long as the system weight does not exceed that shown in Table 3 for the respective system.
6. Systems approved as Intermediate Duty (Seismic Design Category C) were tested with all sides "floating" and a 3/8" gap on all sides.
7. In Seismic design categories D, E, F this product shall be approved by a registered design professional.

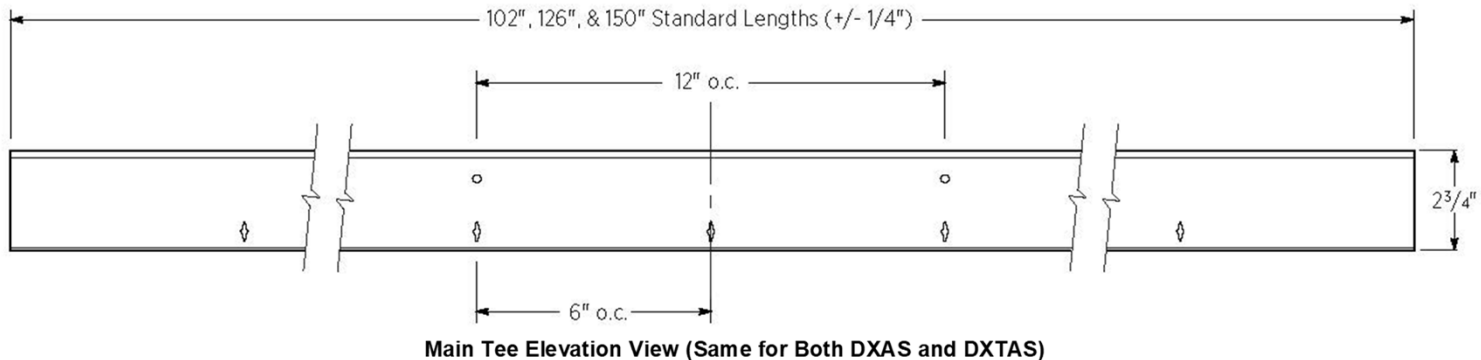
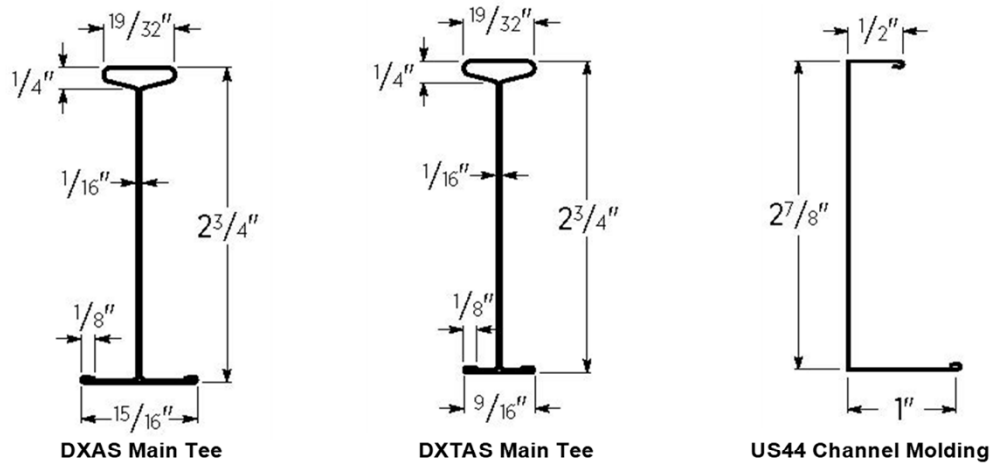


Figure 1 - Donn AdvanceSpan System Main Tee and Channel Molding Details

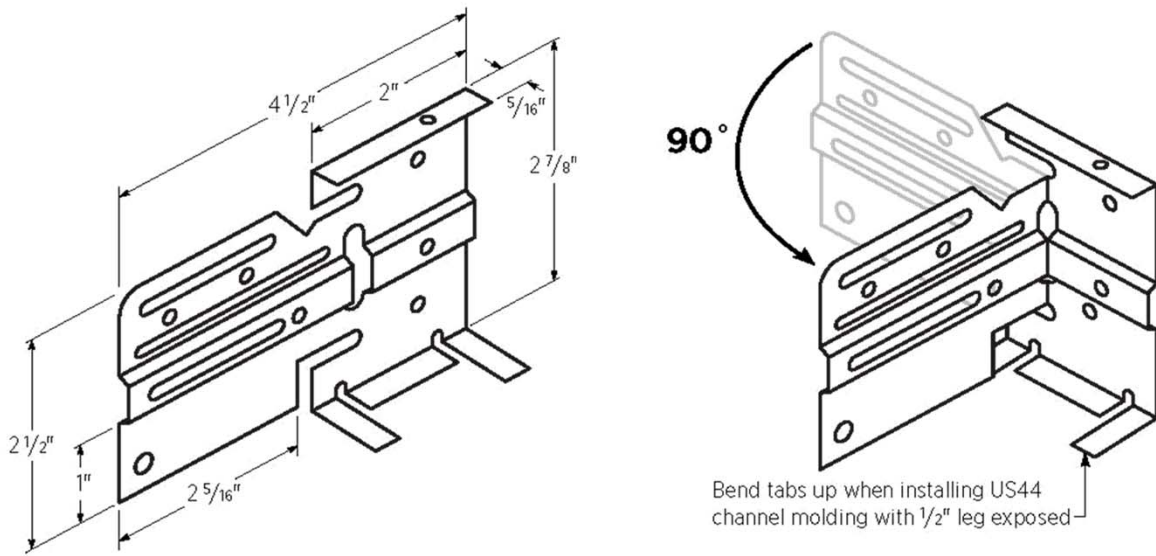


Figure 2 - AdvanceSpan Channel Clip (US44CC)

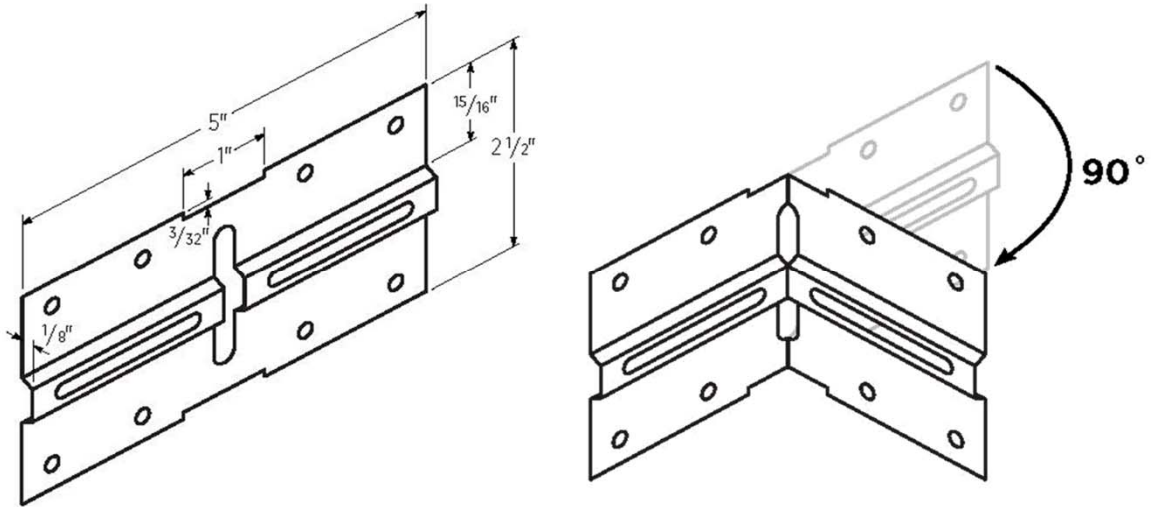


Figure 3 - AdvanceSpan Main Tee Splice Plate (ASMTSP)

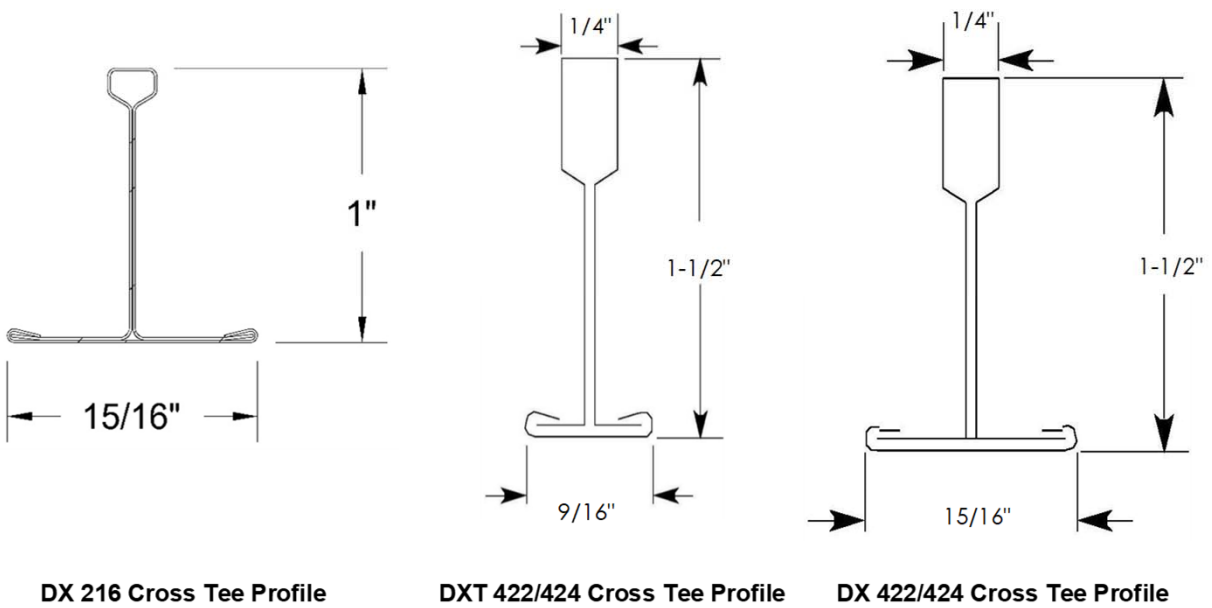


Figure 4 - Cross Tees Referenced in Table 3

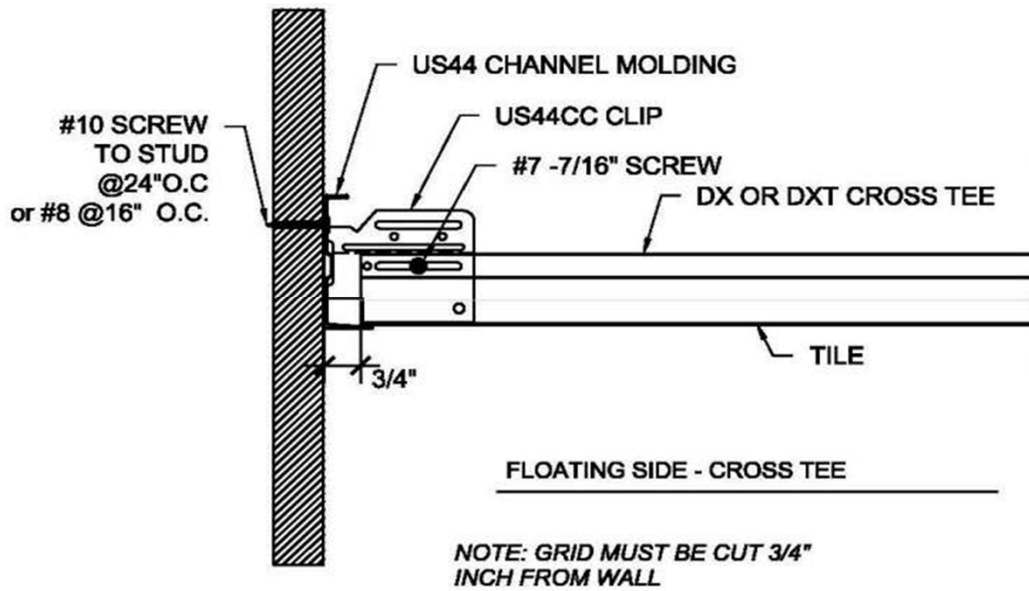
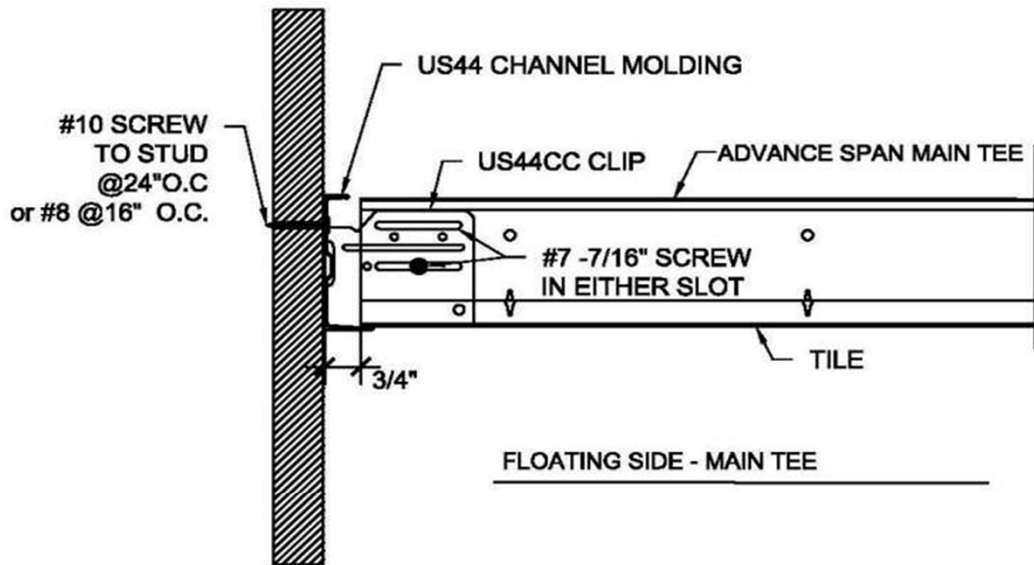


Figure 5 - Heavy Duty "Floating" Connection Details

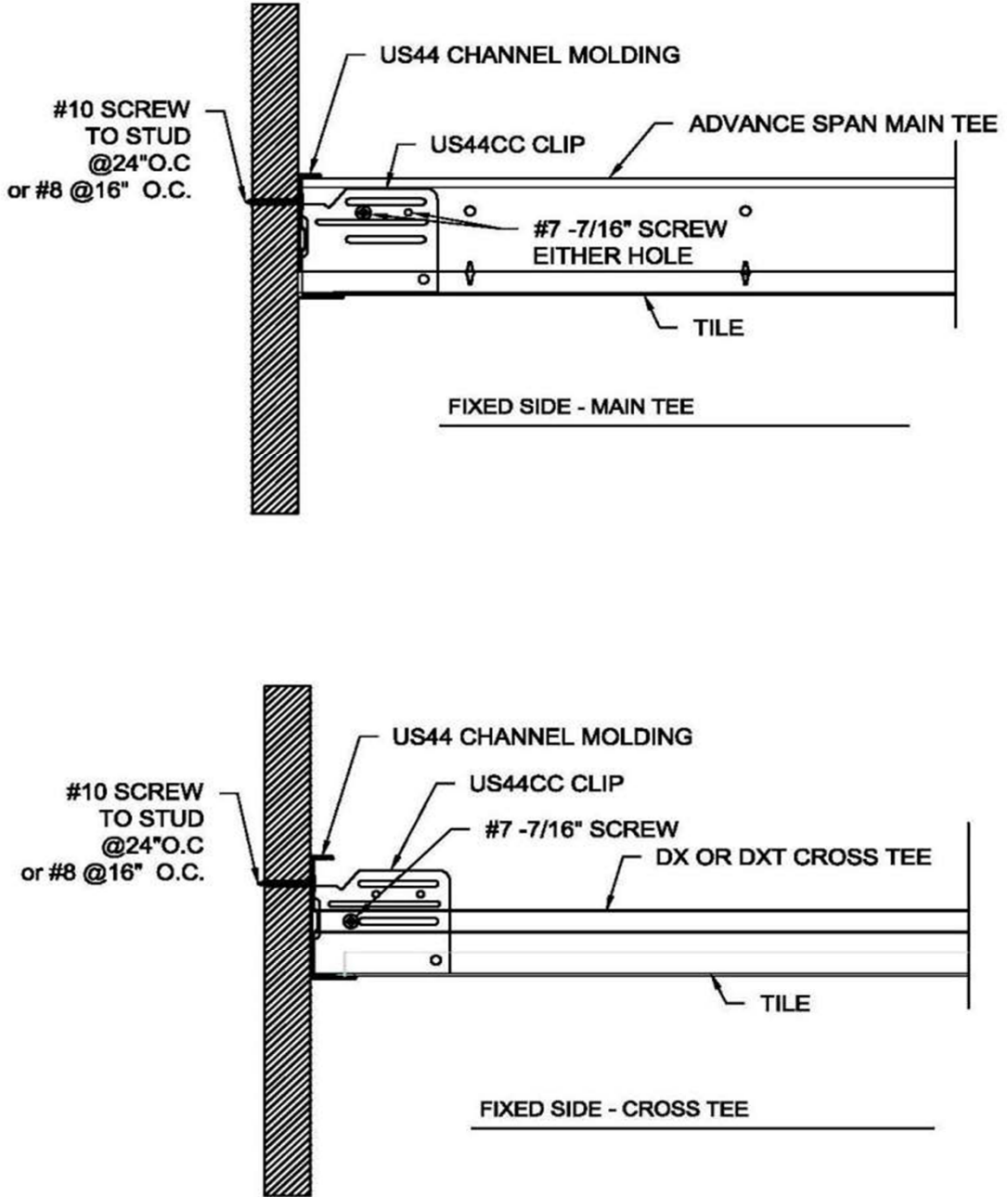


Figure 6 - Heavy Duty "Fixed" Connection Details

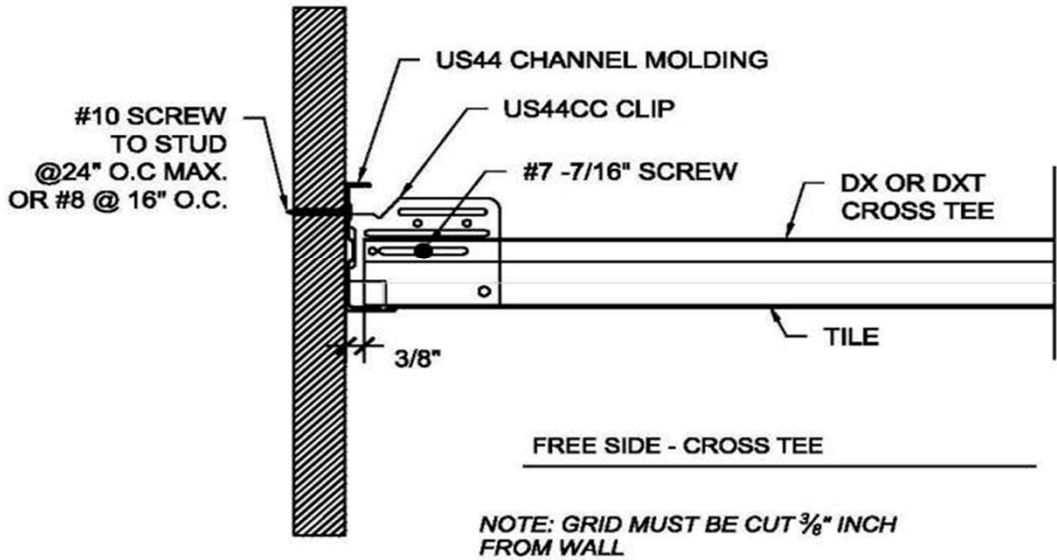
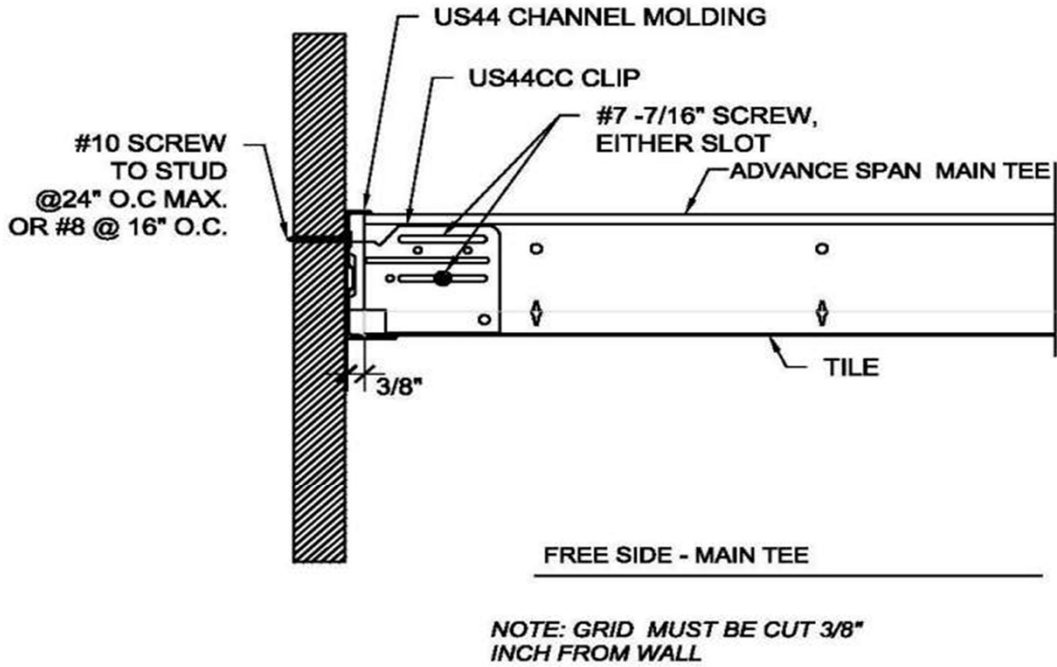


Figure 7 - Intermediate Duty "Floating" Connection Details

Product Labeling

Each Grid system shipment assembly, that is covered by this **Product Evaluation Report**, must have a label attached with at least the following information:

1. **USG Interior, LLC** Name and Address
2. Product name
3. Plant identifier & date code
4. **Pei ES** Information: "See **Pei** Evaluation Report at *p-e-i.com*"

Acceptable Evaluation Marks



Product Documentation

A Product Evaluation Service Agreement between **Pei Evaluation Service**® and **USG Interiors, LLC**.

A Follow-up Inspection Service Agreement between **Progressive Engineering Inc.** and **USG Interiors, LLC**.

USG Interiors, LLC Quality Control Manual for Donn Brand Suspension Systems and **USG** Drywall Suspension Systems - Dated: March 20, 2020

SDS for **USG** Donn® DX®/DXL™ Acoustical Suspension System - Version #3 - Dated: September 15, 2016

USG Donn AdvanceSpan Data Submittal Sheet (AC3324) - Dated: October, 2019

USG Donn AdvanceSpan Installation Guide (AC3325) - Dated: July, 2020