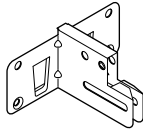


Seismic Clip Perimeter Interface

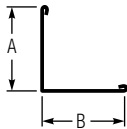
ACM7 Seismic Clip



USG® offers numerous perimeter options designed to accommodate Donn® suspension systems and the ACM7 Seismic Clip with USG acoustical ceiling panels in seismic design categories A-F.

USG teamed with the Pacific Earthquake Engineering Research Center (PEER) University of California, Berkeley to conduct full-scale dynamic seismic shake-table testing to evaluate and qualify the seismic performance of these perimeter assemblies. This testing proved that the assemblies offered are approved for use and provide a code-compliant solution meeting International Building Code (IBC) requirements, including installations in all seismic design categories. Use this selector as a guide to ensure that a perimeter molding meets your design criteria. For fire-rated applications, check the UL design for approved molding shapes and sizes. Because codes continue to evolve, check with a local official prior to designing and installing a ceiling system.*

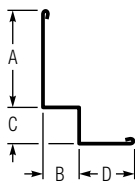
Wall Molding



	Shadowline edge at perimeter with Shadowline panel	Shadowline edge at perimeter with Square edge panel	Square edge at perimeter with Shadowline panel

	A	B
M7	7/8"	7/8"
M70L	7/8"	7/8"
M9	15/16"	9/16"
M20	1"	2"

Shadow Molding



	Shadowline edge at perimeter with Shadowline edge panel	Shadowline edge at perimeter with Square edge panel	Shadowline edge at perimeter with Fineline edge panel

	A	B	C	D
MS124	15/16"	1/4"	5/16"	15/16"
MS144	3/4"	3/8"	1/2"	3/4"
MS154	7/8"	13/16"	13/16"	7/8"
MS174	7/8"	3/8"	3/8"	9/16"
MS274	7/8"	3/4"	9/32"	1-1/4"

- Shadowline tapered panel will result in mouse hole at molding.
- Reveal depth will vary by product.
- Detail requires field cut and reveal of perimeter panels.

*See last page for Seismic Code Reference Standards.

Border Panels

Suspended ceilings are among the most widely used nonstructural components. Past earthquakes have demonstrated the susceptibility of suspended ceilings to failure during seismic events. To address this vulnerability, design codes have incorporated specific design and installation criteria for suspended ceilings.

The basic concerns for nonstructural system/component failure include:

- Direct threat to life
- Indirect threat to life (the inability of occupants to safely exit a building)
- Loss of building function (loss of revenue and service)
- Repair costs

The suspension system must accommodate or resist movement to keep the system and the items it supports in place, particularly around the border of a suspended ceiling. One installation standard is to cut the suspension system tee ends $3/4"$ on two adjacent floating sides for seismic design categories D-F or $3/8"$ for seismic design category C. This installation principle is for the suspension system tee ends and not for the border ceiling panels. Ceiling panels are manufactured in nominal dimensions so they can fit into suspended ceiling modules. As a result they are dimensionally smaller than the grid modules supporting them and as such are not considered to increase the rigidity of the ceiling suspension system or restrict it when movement is necessary. Border ceiling panels shall not be cut back $3/4"$ on the two adjacent floating sides for seismic design categories D-F or $3/8"$ for seismic design category C as this practice will make the border condition more susceptible to failure due to the decreased support of the border panel edge. Border ceiling panels, including reveal edge panels, shall be field cut to fit the border suspension system module without creating a $3/4"$ gap on the two adjacent floating sides for seismic design categories D-F or $3/8"$ for seismic design category C.

Testing

A complete range of all USG ceiling panels covering all sizes, edge details, thicknesses, and panel types were subjected to earthquake acceleration levels for the purpose of seismic certification by shake-table testing. The studies were performed at the Pacific Earthquake Engineering Research Center (PEER) University of California, Berkeley using an earthquake simulator. Full-scale seismic testing was performed to evaluate and qualify the seismic performance of all USG ceiling panels.

Border Panels

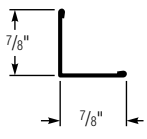
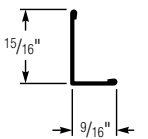
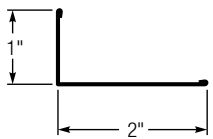
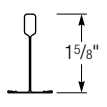
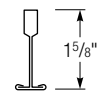
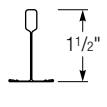
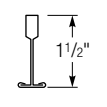
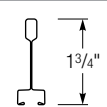
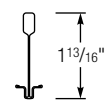
Construction Details

	Floating Wall	Tight Wall
Square edge at perimeter with square edge panel		
Shadowline edge at perimeter with shadowline panel		
Fineline edge at perimeter with Fineline panel		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Standard Wall Molding Selector

This selector lists the compatibility of the ACM7 seismic clip with the various wall moldings and the three different tee profile heights. Application details are found on the succeeding pages.

	M7	M9	M20
 <p>Details on page 3.</p>	 <p>Details on page 4.</p>	 <p>Details on page 5.</p>	
Grid Profiles			
1-5/8" Tee Height			
DX®  <p>DX/DXL24 DX/DXL26</p>	<p>Details on page 7</p>	<p>Not Recommended Detailed explanation on page 8</p>	<p>Details on page 9</p>
CENTRICITEE™  <p>DXT/DXLT26 DXCE24 DXLA26 DXLA24 ZLA24 DXLA26 ZLA26</p>			
1-1/2" Tee Height			
DX  <p>DX/DXL24 (Canada) DX422 DX/DXL424 DX/DXL426 DX/DXL524</p>	<p>Details on page 7</p>	<p>Not Recommended Detailed explanation on page 8</p>	<p>Details on page 9</p>
CENTRICITEE  <p>DXT24 DXW26 DXLT24 DXWCE424 DXT422 DXCE424 DXT424 DXLA424 DXLT424 ZLA424 DXT524</p>			
1-3/4" Tee Height			
FINELINE®  <p>DXF/DXLF 1/8 DXFF DXF229 DXFF229 DXF429 DXFF429 DXF529</p>	<p>Details on page 7</p>	<p>Not Recommended Detailed explanation on page 8</p>	<p>Details on page 9</p>
1-13/16" Tee Height			
IDENTITEE™  <p>DXI24 HRC DXI424 HRC DXI26 HRC DXI524 HRC DXI224 HRC</p>	<p>Details on page 7</p>	<p>Not Recommended Detailed explanation on page 8</p>	<p>Details on page 9</p>

Shadow Molding Selector

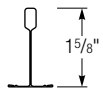
This selector lists the compatibility of the ACM7 seismic clip with the various wall moldings and the three difference tee profile heights. Application details are found on the succeeding pages.

	MS124		MS144		MS154	MS174	
Shadow Molding Attachment	Standard	Rotated	Standard	Rotated	Standard	Standard	Rotated
	Details on pages 10–13		Details on page 14–17		Details on page 18–19	Details on page 20–23	

Grid Profiles

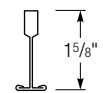
1-5/8" Tee Height

DX



DX/DXL24
DX/DXL26

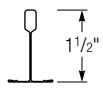
CENTRICITEE



DXT/DXLT26
DXCE24 ZOLA24
DXLA24 ZOLA26
DXLA26

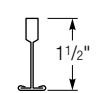
1-1/2" Tee Height

DX



DX/DXL24
(Canada)
DX422
DX/DXL424
DX/DXL426
DX/DXL524

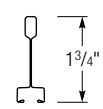
CENTRICITEE



DXT24 DXW26
DXLT24 DXWCE424
DXT422 DXCE424
DXT424 DXLA424
DXLT424 ZOLA424
DXT524

1-3/4" Tee Height

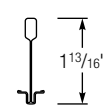
FINELINE



DXF/DXLF
1/8 DXFF
DXF229 DXFF229
DXF429 DXFF429
DXF529

1-13/16" Tee Height

IDENTITEE™



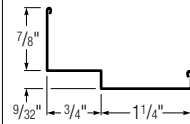
DXI24 HRC
DXI26 HRC
DXI224 HRC
DXI424 HRC
DXI524 HRC

Tee Alignment with Upper or Lower Leg of Shadow Molding

	MS124	MS144	MS154	MS174	MS124	MS144	MS154	MS174
Lower	Details on page 10	Details on page 12	Details on page 14	Details on page 16	Details on page 18	Details on page 20	Details on page 22	Details on page 22
Upper	Details on page 11	Details on page 13	Details on page 15	Details on page 17	Details on page 19	Details on page 21	Details on page 23	Details on page 23
Lower	Details on page 10	Details on page 12	Details on page 14	Details on page 16	Details on page 18	Details on page 20	Details on page 22	Details on page 22
Upper	Details on page 11	Details on page 13	Details on page 15	Details on page 17	Details on page 19	Details on page 21	Details on page 23	Details on page 23
Lower	Details on page 10	Details on page 12	Details on page 14	Details on page 16	Details on page 18	Details on page 20	Details on page 22	Details on page 22
Lower	Details on page 10	Details on page 12	Details on page 14	Details on page 16	Details on page 18	Details on page 20	Details on page 22	Details on page 22

This selector lists the compatibility of the ACM7 seismic clip with the 2" seismic shadow molding and the three different tee profile heights. Application details are found on the succeeding pages.

MS274



Details on page 24-25

Grid Profiles

1-5/8" Tee Height

	DX®	DX/DXL24 DX/DXL26	
	CENTRICITEE™	DXT/DXLT26	
		DXCE24	DXLA26
		DXLA24	ZXLA24
		DXLA26	ZXLA26

Details on
pages 24–25

1-1/2" Tee Height

	DX	DX/DXL24 (Canada) DX422 DX/DXL424 DX/DXL426 DX/DXL524	
	CENTRICITEE	DXT24	DXW26
		DXLT24	DXWCE424
		DXT422	DXCE424
		DXT424	DXLA424
		DXLT424	ZXLA424
		DXT524	

Details on
pages 24–25

1-3/4" Tee Height

	FINELINE®	DXF/DXLF 1/8 DXFF	
		DXF229	DXFF229
		DXF429	DXFF429
		DXF529	

Details on
pages 24–25

1-13/16" Tee Height

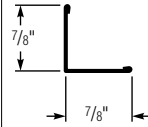
	IDENTITEE™	DXI24 HRC	DXI424 HRC
		DXI26 HRC	DXI524 HRC
		DXI224 HRC	

Details on
pages 24–25

Standard Wall Molding Details

M7

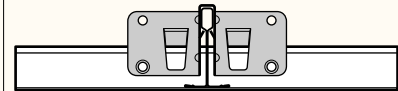
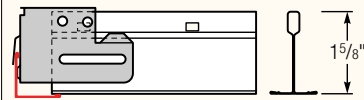
Standard



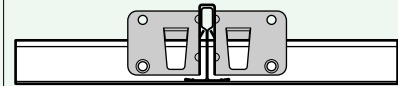
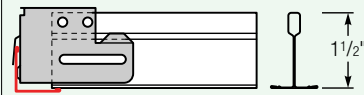
Side

Front

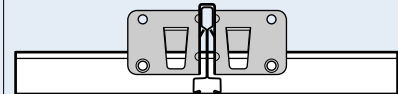
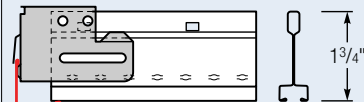
1-5/8" Tee Height



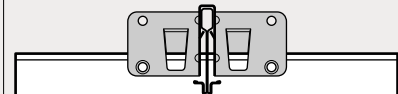
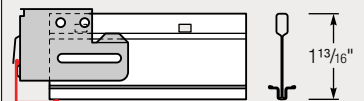
1-1/2" Tee Height



1-3/4" Tee Height



1-13/16" Tee Height

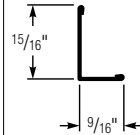


Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Standard Wall Molding Details

M9

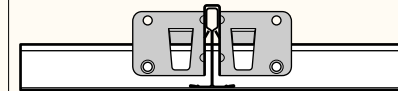
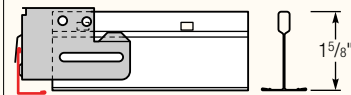
Standard



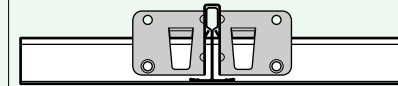
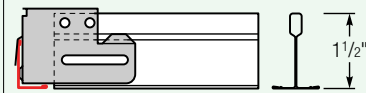
Side

Front

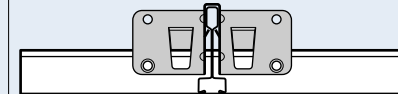
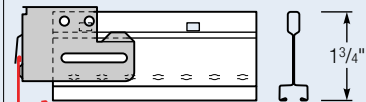
1-5/8" Tee Height



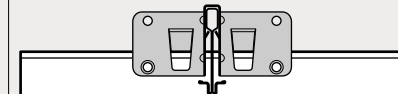
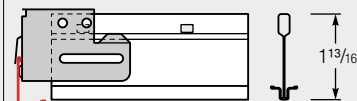
1-1/2" Tee Height



1-3/4" Tee Height



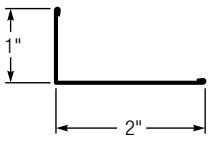
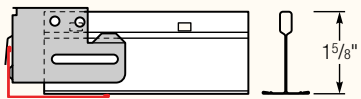
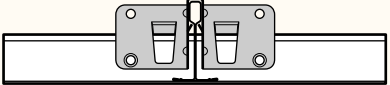
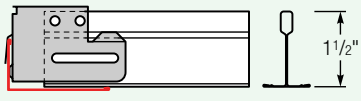
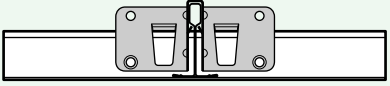
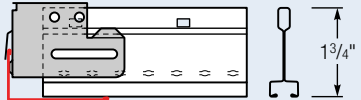
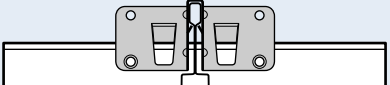
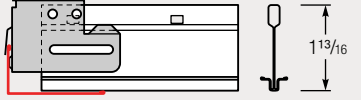
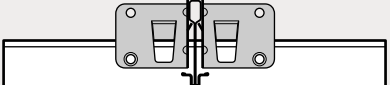
1-13/16" Tee Height



Note: USG M9 wall molding is commonly used with narrow 9/16" suspension system profiles such as CENTRICITEE™ DXT/DXLT, FINELINE® DXF/DXLF and FINELINE® 1/8 DXFF. When the USG ACM7 seismic clip is used with M9 wall molding in Seismic Design Categories D, E and F, a slight gap between the tee end and the wall molding leg will exist—where a 3/4" end wall clearance of the tee ends is required on two adjacent sides—as the horizontal leg of M9 is 9/16". Therefore it is recommended that M7 wall molding be used in lieu of M9 wall molding in these applications.

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Standard Wall Molding Details

M20	Standard	
	Side	Front
1-5/8" Tee Height	 	
1-1/2" Tee Height		
1-3/4" Tee Height		
1-13/16" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS124 Lower leg Installation		Standard	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXF	1-3/4" Tee Height		
	1-13/16" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS124 Upper leg Installation		Standard	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS124 Lower leg Installation		Rotated	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXF	1-3/4" Tee Height		
	1-13/16" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS124 Upper leg Installation		Rotated	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS144 Lower leg Installation		Standard	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/4" min.</p> <p>1 5/8"</p>	<p>attach screw through clip on either side, then through nom. 1/2" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 5/8"</p>
	1-1/2" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/4" min.</p> <p>1 1/2"</p>	<p>attach screw through clip on either side, then through nom. 1/2" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 1/2"</p>
DXT	1-5/8" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/4" min.</p> <p>1 5/8"</p>	<p>attach screw through clip on either side, then through nom. 1/2" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 5/8"</p>
	1-1/2" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/4" min.</p> <p>1 1/2"</p>	<p>attach screw through clip on either side, then through nom. 1/2" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 1/2"</p>
DXF	1-3/4" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/4" min.</p> <p>1 3/4"</p>	<p>attach screw through either top fastener opening</p> <p>tee end installed tight against the lower vertical leg of shadow molding</p> <p>1 3/4"</p>
	DXI	1-13/16" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/4" min.</p> <p>1 13/16"</p>

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS144 Upper leg Installation		Standard	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS144 Lower leg Installation		Rotated	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXF	1-3/4" Tee Height		
	DXI	1-13/16" Tee Height	

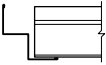
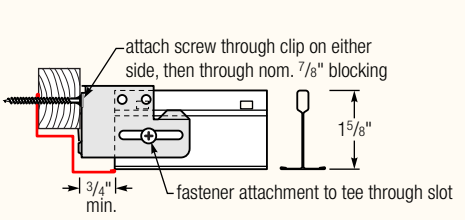
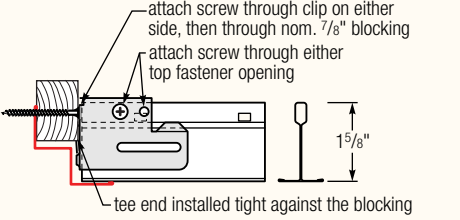
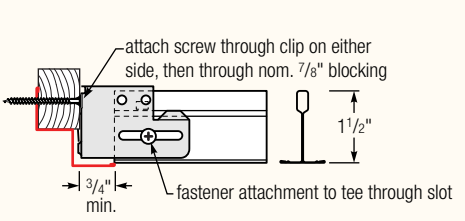
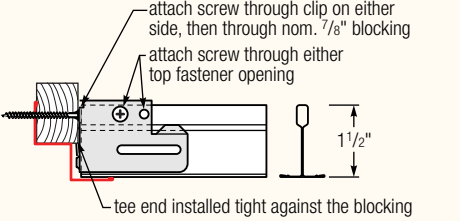
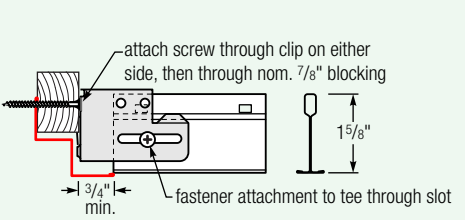
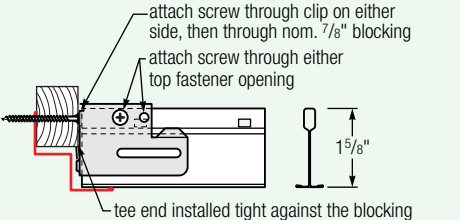
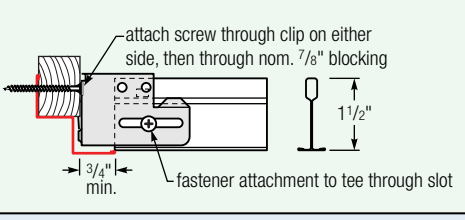
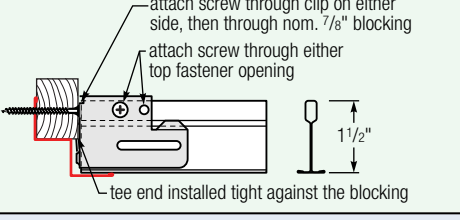
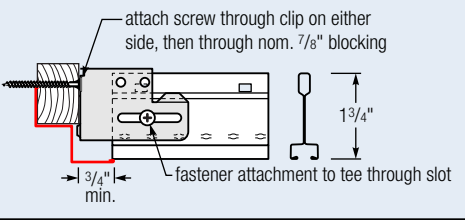
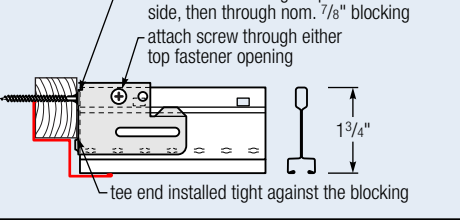
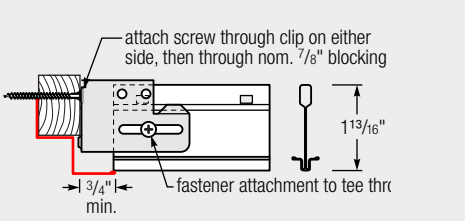
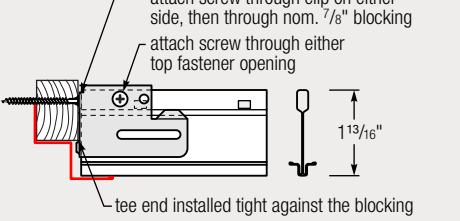
Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS144 Upper leg Installation		Rotated	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS154 Lower leg Installation 		Standard	
		Floating Wall	Fixed Wall
DX 1-5/8" Tee Height			
1-1/2" Tee Height			
DXT 1-5/8" Tee Height			
1-1/2" Tee Height			
DXF 1-3/4" Tee Height			
DXI 1-13/16" Tee Height			

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS154 Upper leg Installation		Standard	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

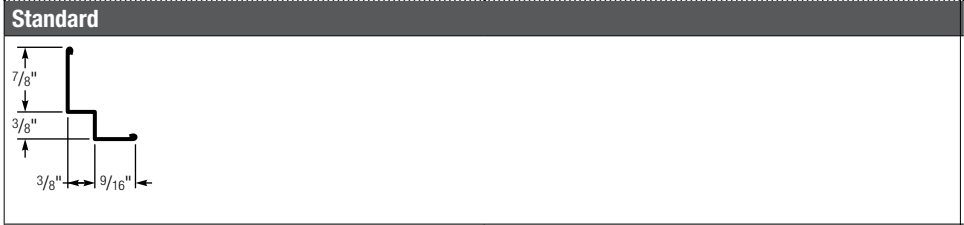
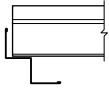
Shadow Molding Details

MS174 Lower leg Installation		Standard	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/8"</p> <p>3/8"</p> <p>9/16"</p> <p>3/4" min.</p> <p>1 5/8"</p>	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 5/8"</p>
	1-1/2" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/8"</p> <p>3/8"</p> <p>9/16"</p> <p>3/4" min.</p> <p>1 1/2"</p>	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 1/2"</p>
DXT	1-5/8" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/8"</p> <p>3/8"</p> <p>9/16"</p> <p>3/4" min.</p> <p>1 5/8"</p>	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 5/8"</p>
	1-1/2" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/8"</p> <p>3/8"</p> <p>9/16"</p> <p>3/4" min.</p> <p>1 1/2"</p>	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>attach screw through either top fastener opening</p> <p>tee end installed tight against the blocking</p> <p>1 1/2"</p>
DXF	1-3/4" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/8"</p> <p>3/8"</p> <p>9/16"</p> <p>3/4" min.</p> <p>1 3/4"</p>	<p>attach screw through either top fastener opening</p> <p>tee end installed tight against the lower vertical leg of shadow molding</p> <p>1 3/4"</p>
DXI	1-13/16" Tee Height	<p>attach screw through clip on either side, then through nom. 3/8" blocking</p> <p>fastener attachment to tee through slot</p> <p>3/8"</p> <p>3/8"</p> <p>9/16"</p> <p>3/4" min.</p> <p>1 13/16"</p>	<p>attach screw through either top fastener opening</p> <p>tee end installed tight against the lower vertical leg of shadow molding</p> <p>1 13/16"</p>

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

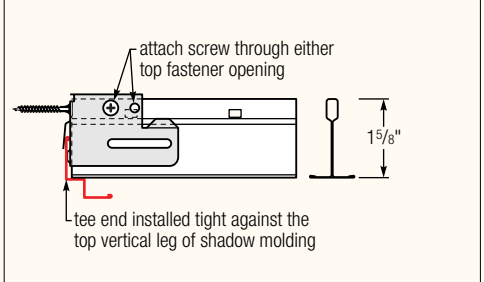
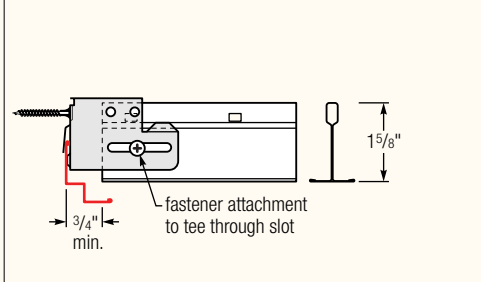
Shadow Molding Details

MS174 Upper leg
Installation

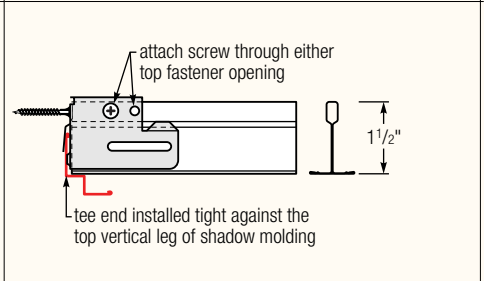
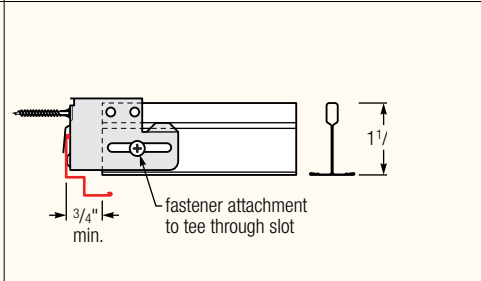


Floating Wall **Fixed Wall**

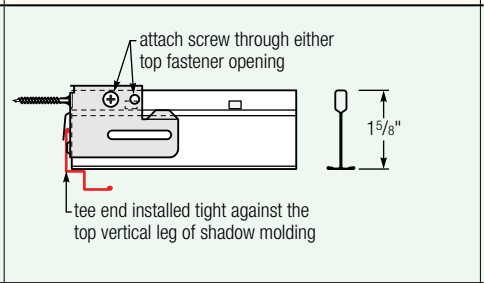
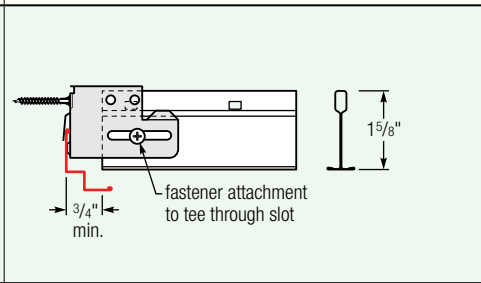
DX 1-5/8" Tee Height



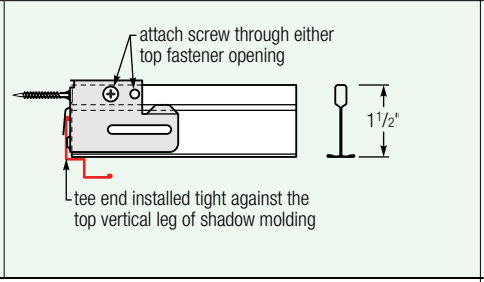
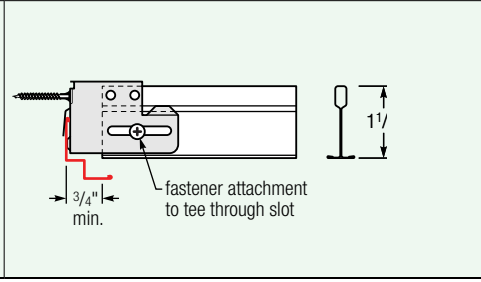
1-1/2" Tee Height



DXT 1-5/8" Tee Height



1-1/2" Tee Height



Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

MS174 Lower leg Installation		Rotated	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXF	1-3/4" Tee Height		
	DXI	1-13/16" Tee Height	

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Shadow Molding Details

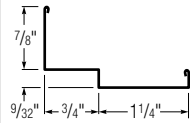
MS174 Upper leg Installation		Rotated	
		Floating Wall	Fixed Wall
DX	1-5/8" Tee Height		
	1-1/2" Tee Height		
DXT	1-5/8" Tee Height		
	1-1/2" Tee Height		

Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

2" Shadow Molding Details

MS274

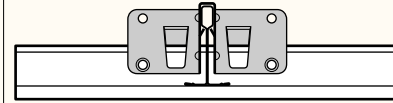
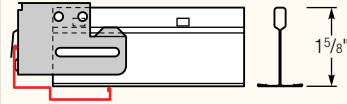
Standard



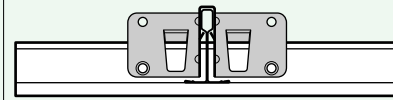
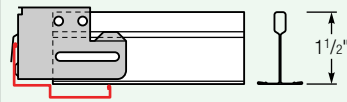
Side

Front

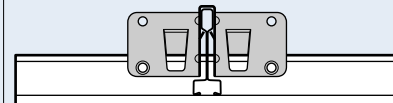
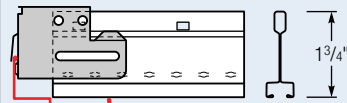
1-5/8" Tee Height



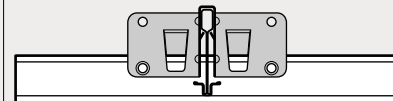
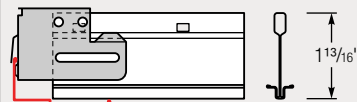
1-1/2" Tee Height



1-3/4" Tee Height



1-13/16" Tee Height

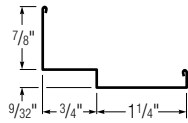


Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

2" Shadow Molding Details

MS274

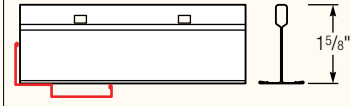
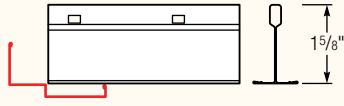
Standard



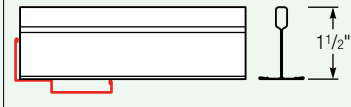
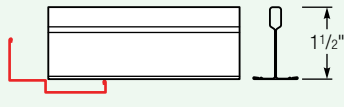
Floating Wall

Tight Wall

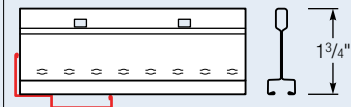
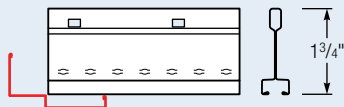
1-5/8" Tee Height



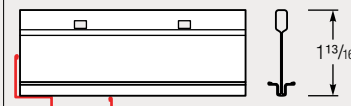
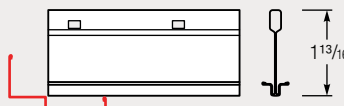
1-1/2" Tee Height



1-3/4" Tee Height



1-13/16" Tee Height



Note: 3/4" gap shown for typical seismic design categories D-F. 3/8" gap is typical for seismic design category C.

Seismic Code Reference Standards

Installation Guidelines for Suspended Ceilings				
International Building Code (IBC)	2003 IBC ↓	2006 IBC ↓	2009 IBC ↓	2012 IBC ↓
American Society of Civil Engineers (ASCE)	ASCE7-02 ↓	ASCE7-05 ↓	ASCE7-05 ↓	ASCE7-10 ↓
Ceilings Interior Systems Construction Association (CISCA) or ASTM International (ASTM)	CISCA Zones 0-2 CISCA Zones 3-4	CISCA Zones 0-2 CISCA Zones 3-4	CISCA Zones 0-2 CISCA Zones 3-4	ASTM E580

International Building Code (IBC) defines Seismic Design Categories A, B, C, D, E, and F.
www.iccsafe.org

ASCE/SEI 7 Minimum Design Loads for Buildings and Other Structures
American Society of Civil Engineers/Structural Engineer Institute (ASCE/SEI)
www.asce.org

**Guidelines for Seismic Restraint for Direct-hung Suspended Ceiling Assemblies (Zones 3-4)
Recommendations for Direct-hung Acoustical Tile and Lay-in Panel Ceilings (Zones 0-2)**
CISCA Ceilings & Interior Systems Construction Association (CISCA)
www.cisca.org

ASTM International E580/E580M Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions.
ASTM International (formerly American Society for Testing and Materials)
www.astm.org

Further References

USG Seismic Ceiling Resource Center
Seismic Technical Guides
seismicceilings.com

Product Information
See usg.com for the most up-to-date 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 ESR-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.

Notice
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.

