

USG DRYWALL SUSPENSION DIRECT MOUNT SYSTEM

INSTALLATION GUIDE



The Drywall Suspension Direct Mount System is designed for a fast install with shallow plenum or Wall-To-Wall applications.

The Close Mount Attachment Clip (CMAC-1) provides strong deck support connection without the use of hanger wires in tight plenum applications.

The Drywall Grid Locking Channel (DGLC-12) connects tees to the perimeter with an engineered locking pocket eliminating the need to fasten tees at the perimeter.

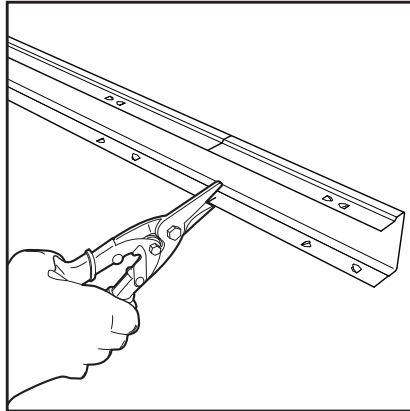
APPLICATIONS

- Hotels
- Dormitories
- Multi-Family
- Corridors
- Residential
- Offices
- Parking Garages

SAVE TIME AND LABOR
WITH THE SIMPLE
"LOCK AND GO" DRYWALL
DIRECT MOUNT SYSTEM

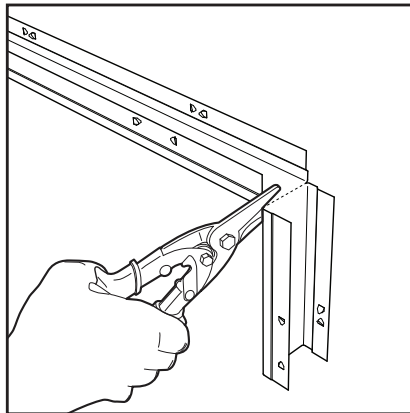
WALL-TO-WALL INSTALLATION STEPS

DRYWALL GRID LOCKING CHANNEL INSTALLATION



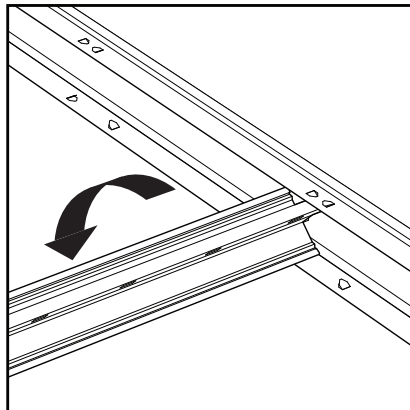
1. To cut channel, use tin snips to cut the upper leg, followed by the bottom leg.

Each locking pocket is spaced 8" on center within the channel. The ceiling layout may call for Wall-To-Wall Main Tees at 16" or 24" on center. Space channel appropriately along perimeter to account for required ceiling layout. Please see figure 8 for Wall-To-Wall membrane load requirements.

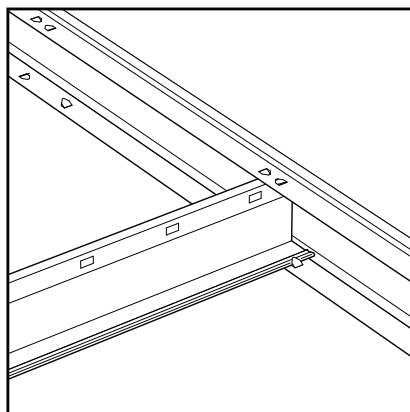


2. Then bend cut section back and cut the remaining section off.
3. Install at perimeter with fasteners every 24" on center along the DGLC-12.

INSTALL WALL-TO-WALL MAIN TEES (DGW26S)

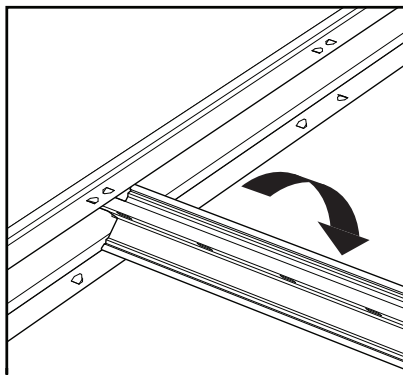


1. Insert Wall-To-Wall Main Tee on one side of the perimeter. Slide bulb of tee into upper leg bulb tabs, then rotate the bottom flange under the bottom leg tabs.



2. After rotation, Main Tee bulb should fit completely inside upper leg tabs and Main Tee flange should be secure under bottom leg pocket tabs.

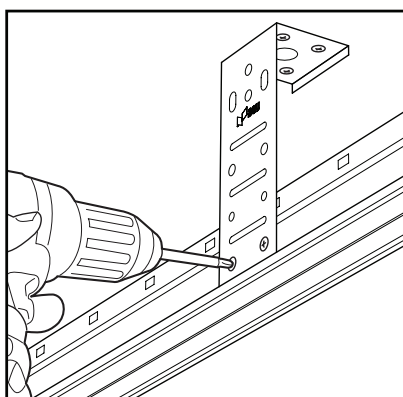
WALL-TO-WALL INSTALLATION (CONTINUED)



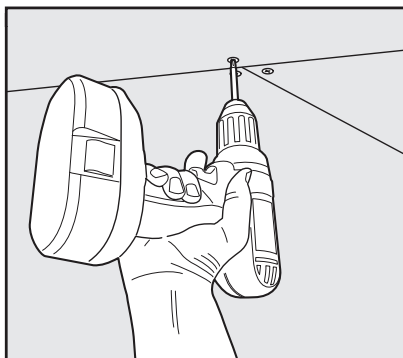
3. On opposing Main Tee side, follow same steps as above to secure main tee in locking pocket of channel

Inserting Wall-To-Wall Main tee into DGLC-12 may be done in one step depending on width of corridor

No screws are required to secure tees in the channel when using the Drywall Grid Locking Channel



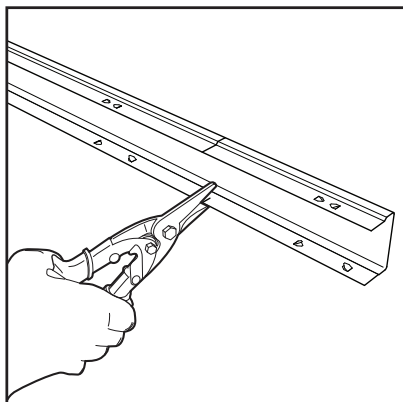
If mid-span support is required, CMAC-1 can be installed at midpoint on Wall-To-Wall Main Tees in substitute of the ISB109.



1. Once Wall-To-Wall Main Tees are connected to the perimeter, install drywall panels onto the system¹

INSTALLING
DRYWALL PANELS

FULL DIRECT MOUNT SYSTEM INSTALLATION STEPS



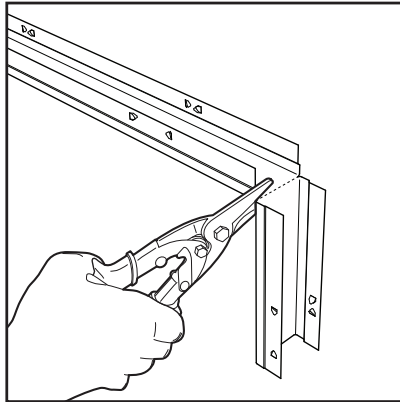
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DRYWALL GRID
LOCKING CHANNEL
INSTALLATION

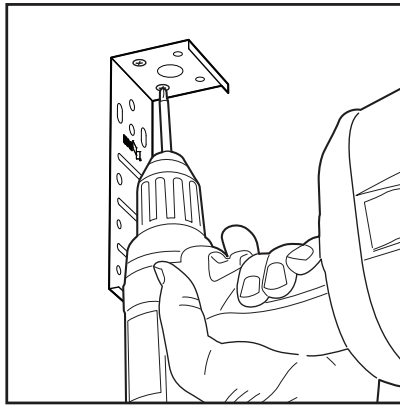
FULL DIRECT MOUNT SYSTEM (CONTINUED)

DRYWALL GRID LOCKING CHANNEL INSTALLATION



2. Then bend cut section back and cut the remaining section off
3. Fasten DGLC-12 to perimeter every 24" on center

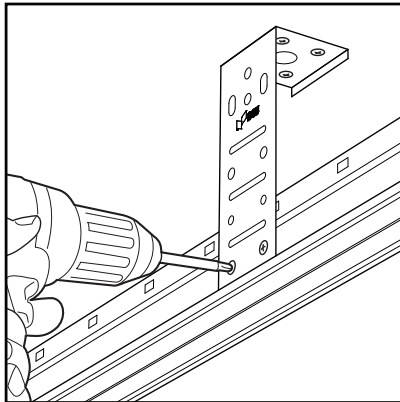
CLOSE MOUNT ATTACHMENT CLIP INSTALLATION



1. Install CMAC-1 with approved fasteners or anchors into the above structure. These should be spaced based on membrane weight requirements (typically 48" on center). The location of CMAC-1 should be aligned with the Main Tee line.

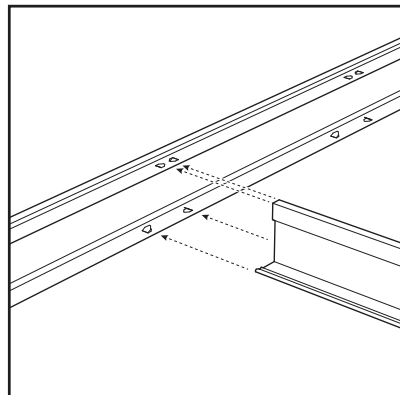
CMAC-1 can be installed into most deck applications, including concrete. Similar to suspended hanger wires, the CMAC-1 placement should be measured for spacing requirements along deck. Additionally, CMAC-1 can be cut for specific plenum depths.

See Figure 4 for CMAC-1 Detail



2. Fasten DGLW26 Main Tee to CMAC along 48" on center or otherwise prescribed deck attachment spacing.

See Figure 1 for alternative CMAC-1 oriented install

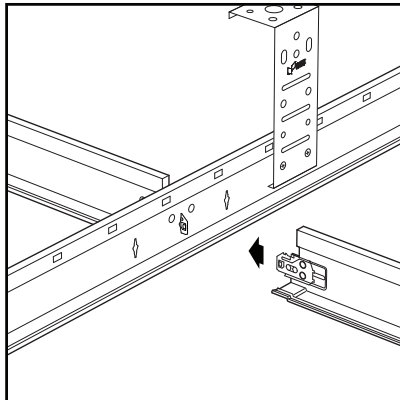


3. Connect flush end of Spanning Tee pockets at perimeter.

Next Spanning Tees (DGW-DM) should be spaced out according to specification (typically 24" OC) and connected into the DGLC-12 Locking Pocket.

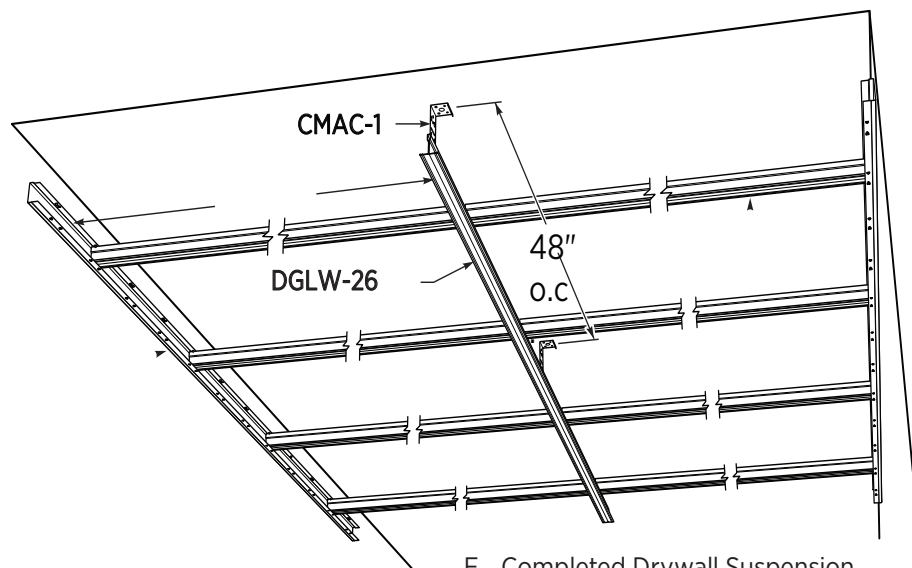
FULL DIRECT MOUNT SYSTEM (CONTINUED)

CLOSE MOUNT ATTACHMENT CLIP INSTALLATION



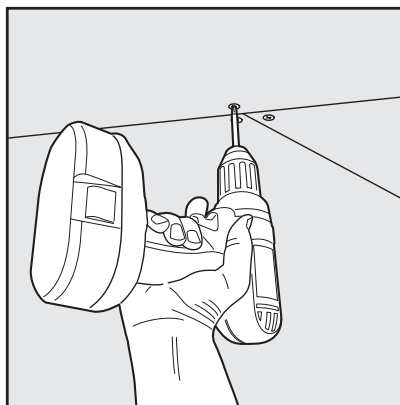
4. Connect Spanning Tee (DGW-DM) via cross tee clip into DGLW26

See Figure 5 for DGW-DM Spanning Tee detail



E. Completed Drywall Suspension Direct Mount System

INSTALLING DRYWALL PANELS



5. Install Drywall onto the system

FIGURES

Soffits with DGLC-12

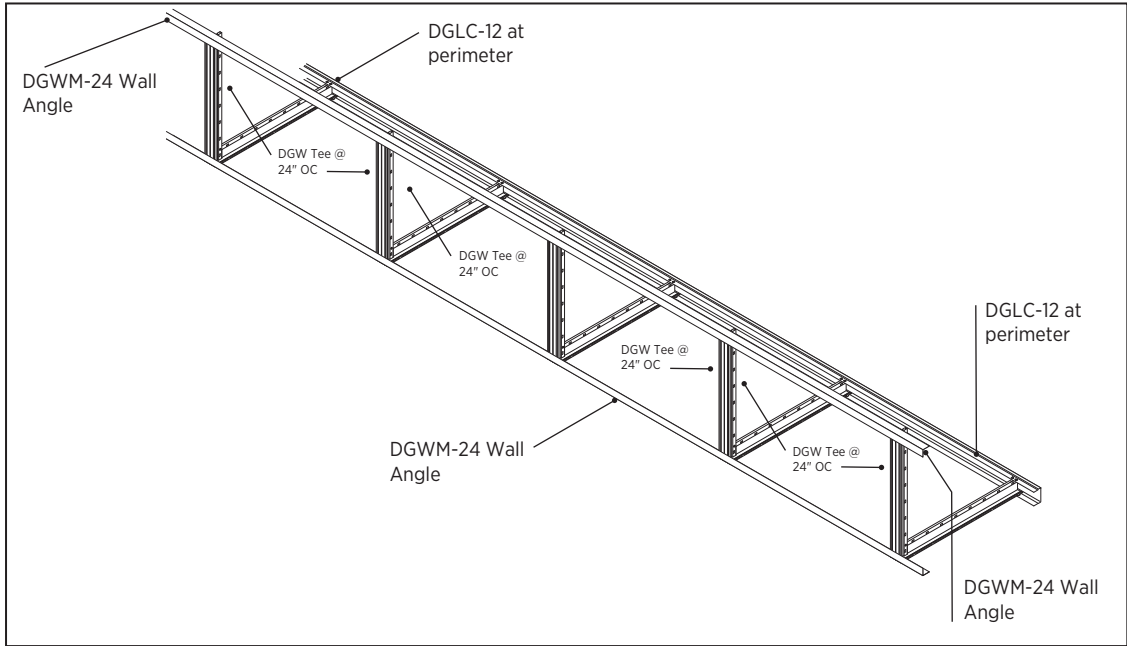


Figure 1 - CMAC-1 Installation

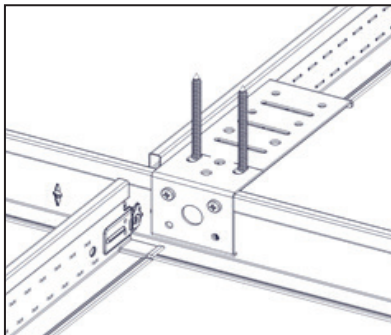


Figure 2 - CMAC-1 Horizontal

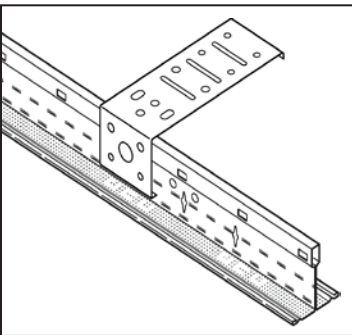


Figure 3 - CMAC-1 Vertical

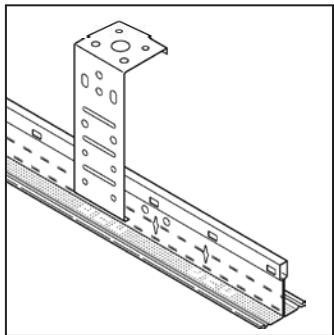


Figure 4 - CMAC-1 Detail

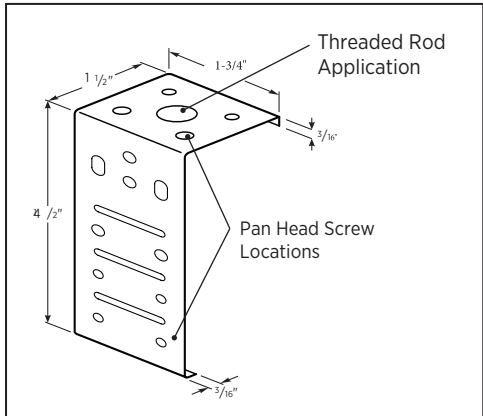
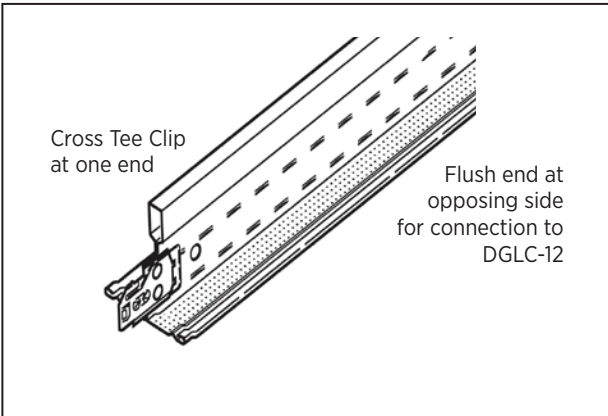


Figure 5 - DGW-DM Spanning Tee



Close Mount Attachment Clip can be cut for varying plenum depth heights

FIGURES

Figure 6 - DGLC-12 Detail

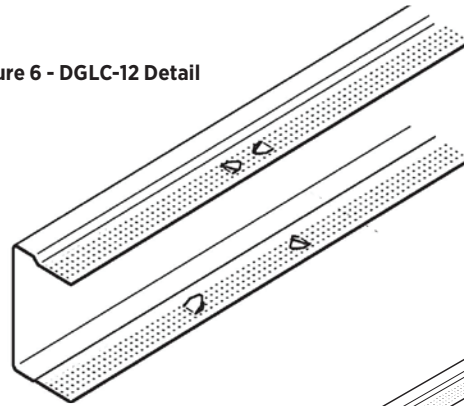
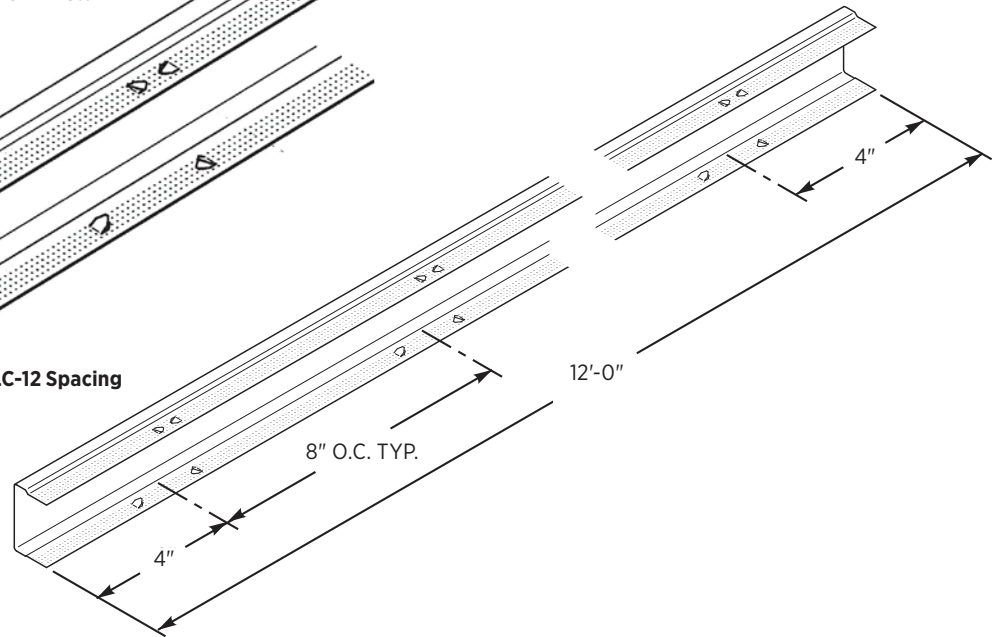


Figure 7 - DGLC-12 Spacing



WALL-TO-WALL MEMBRANE LOADS

Span	O.C. Spacing (in.)	Maximum Load (lb./SF)	VERTICAL SUPPORT	Tee Spacing	Drywall	Span ¹	Support Requirement
4'	16	26.84		16" o.c.	1/2" (2.0 lbs./SF)	up to 9'	None
	24	17.89				9'-1" to 16"	Midspan
5'	16	14.08				16'-1" to 24"	Two supports at 1/3 points
	24	9.38		16" o.c.	5/8" Sheetrock® Brand EcoSmart Firecode® X (1.85 lbs./SF)	up to 9'	None
6'	16	8.31				9'-1" to 16"	Midspan
	24	5.54				16'-1" to 24"	Two supports at 1/3 points
7'	16	5.32		24" o.c.	5/8" Sheetrock® Brand EcoSmart Firecode® X (1.85 lbs./SF)	up to 8'-6"	None
	24	3.55				8'-7" to 16'	Midspan
7'-6"	16	4.36				16'-1" to 24"	Two supports at 1/3 points
	24	2.90		16" o.c.	5/8" (2.4 lbs./SF)	up to 9'	None
8	16	3.61				9'-1" to 16"	Midspan
	24	2.41				16'-1" to 24"	Two supports at 1/3 points
8'-6"	16	3.03		24" o.c.	5/8" (2.4 lbs./SF)	up to 8'	None
	24	2.02				8'-1" to 16"	Midspan
9'	16	2.57				16'-1" to 24"	Two supports at 1/3 points
	24	1.71		16" o.c.	5/8" (2.4 lbs./SF)	up to 9'	None
10'	16	14.08*				9'-1" to 16"	Midspan
	24	9.38*				16'-1" to 24"	Two supports at 1/3 points
12'	16	8.31*		24" o.c.	5/8" (2.4 lbs./SF)	up to 8'	None
	24	5.54*				8'-1" to 16"	Midspan
16'	16	3.61*				16'-1" to 24"	Two supports at 1/3 points
	24	2.41*					

* Vertical support at midspan

** Two vertical supports at 1/3 point

1. Spans greater than 14' require main tee splice. Use DGSC180 splice clip or alternative splicing options described in system brochure AC3152.

PACKAGING DATA

Item Number	Description	Dimension	LF/Ctn.	PC/Ctn.
Main Tees				
DGLW26	Drywall Grid Fire Rated Main Tee	12' x 1.5" x 1.617"	192	16
DGLW26-E	Drywall Grid Fire Rated Main Tee with G90 coating	12' x 1.5" x 1.617"	192	16
Wall-To-Wall Main Tees				
DGW26S6	Wall-To-Wall Main Tee with no end splice	6' x 1.5" x 1.617"	66	11
DGW26S8	Wall-To-Wall Main Tee with no end splice	8' x 1.5" x 1.617"	88	11
DGW26S10	Wall-To-Wall Main Tee with no end splice	10' x 1.5" x 1.617"	110	11
DGW26S12	Wall-To-Wall Main Tee with no end splice	12' x 1.5" x 1.617"	132	11
DGW26S14	Wall-To-Wall Main Tee with no end splice	14' x 1.5" x 1.617"	151	11
Direct Mount Spanning Tees				
DGW6026DM	Direct Mount Spanning Tee with clip at one end	5' x 1.5" x 1.617"	55	11
DGW7226DM	Direct Mount Spanning Tee with clip at one end	6' x 1.5" x 1.617"	66	11
DGW8426DM	Direct Mount Spanning Tee with clip at one end	7' x 1.5" x 1.617"	77	11
DGW9626DM	Direct Mount Spanning Tee with clip at one end	8' x 1.5" x 1.617"	88	11
Direct Mount Channel and Accessories				
DGLC-12	Direct Mount - Drywall Grid Locking Channel	12' x 1-3/4" x 1"	120	10
CMAC-1	Close Mount Attachment Clip	4.5" x 1.5" x 1-3/4"	N/A	100
CMAC-25	Close Mount Attachment Clip	4.5" x 1.5" x 1-3/4"	N/A	25

1. For load carrying capacity and proper component layout, please consult the Drywall Suspension Systems Guide - AC3152
2. Submittal document for components are included in USG Drywall Suspension Data Sheet - AC3117
3. Manufactured and tested in accordance with ASTM C635, ASTM A653, and ASTM C645
4. CMAC-1 - 18 ga., G90 HDG steel

Notice

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

