SECTION 09 51 13 – USG DONN® BRAND CENTRICITEE™ DXLT™ ACOUSTICAL SUSPENSION SYSTEM

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| **Product Summary:**  |
| * 9/16" exposed grid offers clean aesthetic.
* Metric sizes available.
* Panel-centering device allows use of standard square edge panels.
* Compatible with USG Logix™ Integrated Ceiling Systems.
* Cross-tee override-ends resist twisting and ensure a finished look.
* Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to two hour
* Custom colors available.
* High recycled content (HRC) available.
* ICC-ES evaluated approach to seismic design installations (ICC-ESR-1222).
* **<insert product representative here>** or 800.874.4968 for technical questions
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| **Note to Specifier:**  |
| * This document is not intended to function as a standalone specification. It is intended to assist the specifier in inserting the proper language into the following recommended specification sections:
	+ 09 51 13 Acoustical Panel Ceilings
	+ 09 51 23 Acoustical Tile Ceilings
	+ 09 51 33 Acoustical Metal Pan Ceilings
	+ 09 54 23 Linear Metal Ceilings
* The following IBC 2015 Sections Govern in addition to local code criteria for seismic ceilings:

Chapter 16 STRUCTURAL DESIGNChapter 17 SPECIAL INSPECTIONS AND TESTS* Language for seismic design, required reports and accessories are detailed in the specification section 01 40 00 QUALITY REQUIREMENTS.

For more information regarding seismic design, please reference: <https://www.usg.com/content/usgcom/en/products-solutions/solutions/seismic.html>. |

1. GENERAL

Note to Specifier: If the specification is for a Seismic Application, add the following references to part 1.2B “related requirements”:

* + - * 1. Related Requirements:

ASTM C635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

ASTM C636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

ASTM E84 - Standard Method for Surface Burning Characteristics of Building Materials.

ASTM E580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions.

2015 International Building Code - Section 1613, 1704, 1705, & 1706.

2013 California Building Code, chapters 8, 16, 16A and 25.

ASCE/SEI American Society of Civil Engineers 7-10: Minimum Design Loads for Buildings and Other Structures.

CISCA Ceilings & Interior Systems Construction Association.

Ceiling Systems Handbook

Seismic Construction Handbook

International Code Council ICC-ES Evaluation Report ESR-1222 issued December 2016.

Note to Specifier: If the specification is for a Seismic Application, add the following references to part 1.4 “informational submittals”. In Addition, require NVLAP certified reports to document acoustical performance.

* + - 1. INFORMATIONAL SUBMITTALS
				1. Product Test Reports: Provide test reports for each acoustical ceiling panel, performed by NVLAP certified testing agency.
				2. Evaluation Reports: For each ceiling suspension system, submit ICC-ES 1222 report showing compliance.
1. PRODUCTS

Note to Specifier: For Seismic applications, add the following criteria to “performance requirements”.

* + - 1. SEISMIC PERFORMANCE REQUIREMENTS
				1. Seismic Performance: Suspended grids and ceiling panels shall be installed in accordance to ASTM C636, ASTM E580 (including approved alternate methods).
				2. Ceiling design shall comply with ASCE/SEI American Society of Civil Engineers 7-10: Minimum Design Loads for Buildings and Other Structures

Note to Specifier: For DXLT Grid, insert the following language below.

2.5 METAL SUSPENSION SYSTEM FOR ACOUSTICAL CEILING PANEL

* + - * 1. Narrow Face, Capped, Double Web, Cold Rolled Steel Suspension System: Main and Cross Tees as defined by ASTM C635, commercial quality pretreated and painted hot-dipped galvanized cold-rolled steel, exposed surfaces prefinished in manufacturer's standard corrosion resistant enamel paint finish: **<INSERT DESIGNATION HERE>**:

Basis of Design: Subject to compliance with project requirements, the design is based on the following: USG Interiors, LLC, “**USG DONN® Brand Centricitee™ DXLT™ 9/16" Acoustical Suspension System**”.

Structural Classification: intermediate duty.

Tee Profile: Narrow Face 9/16” (15 mm) wide.

Tee Height: [1 1/2” (38 mm)] [1 5/8” (42 mm)].

Grid Module: [As noted on drawings].

Fire Rating: Firecode.

Color: [standard flat white 050] [parchment 103] [manila 245] [beige 142] [straw 143] [sandstone 090] [taupe 107] [charcoal 534] [flat black 205] [silver satin 002] [silvertone -52] [breeze 2659] [blue gray 564] [azure 2660] [slate 568] [spruce 567] [Tuscany 2663] [sorbet 2658] [squash 2661] [safari 2662] [redwood 566] [halo 206] [mist 053] [nectar 546] [quartz 082].

Post-Consumer Recycled Content: [up to 26%] [up to 40%] [40%] [up to 47%] [57%].

Total Recycled Content: [up to 33%] [up to 47%] [47%] [65%].

Seismic Criteria:

Note to Specifier: Retain paragraph below if the ceiling suspension is a seismic application:

Reference Seismic standards per ASTM E580 and CISCA guidelines.

Seismic Design Category as defined by the IBC (International Building Code): [not applicable] [A-C].

* + - * 1. Accessories.

Wall molding: Inside Corner: Field-mitered joints at wall molding. Prefabricated corner cap; formed to 90° angle; hemmed edge; size and finish to match wall molding. Outside Corner: Prefabricated corner cap; formed to 90° angle; hemmed edge; size and finish to match wall molding.

Note to Specifier: For Non-Seismic applications use the paragraph below

Angle shape; 15/16” thick mounting flange by 9/16” thick face flange; hemmed edges; exposed surface pre-finished to match suspension system components. Available product: **[M9] [M9 HRC]**.

Note to Specifier: For Seismic category A-C applications use the paragraph below

Angle shape; 7/8 in. minimum mounting flange by 7/8 in. vertical flange; hemmed edges; exposed surface pre-finished to match suspension system components. Available Product: M7.

Shadow Molding: Formed steel section; exposed surfaces prefinished to match suspension system components.

Note to Specifier: For Non-Seismic applications use the paragraph below

9/16” thick exposed flange; 3/8” x 3/8” reveal; 7/8” vertical flange; Available Product: MS174.

Note to Specifier: For Alternate Seismic Solutions for categories C & D-F use the paragraph below:

Seismic Attachment Clip: Used to attach tees ends to perimeter angle for seismic design C D E F categories.

Available products: ACM7.

Molding Attachment Clip: 2 in. thick x 1/2 in. thick x 1-5/8 in. Used to attach cross tees and main tees to walls/ wall molding.

Molding Attachment Clip: 9/16 in. thick for SQ panels or FL panels, Available products: MAC2

Partition Attachment Clip: 9/16 in. thick for SQ panels or FL panels

Stabilizer bars:

Panels with a length equal to or greater than 60” shall require stabilizer bars at the midpoint to secure suspension grid to the ceiling panel. Reference USG ceiling literature for more information.

Compression Posts for bracing of ceiling applications:

Available products: Adjustable 18” to 30” **[VSA 18/30]**, Adjustable 30” to 48” [VSA 30/48], Adjustable 48” to 84” **[VSA 48/84]**, Adjustable 84” to 102” **[VSA 84/102]**, Adjustable 102” to 120” **[VSA 102/120]**, Adjustable 120” to 144” **[VSA 102/144]**.

* + - * 1. Suspension System Attachment devices.

Hanger Wire: Galvanized carbon steel; soft temper; pre-stretched; yield stress load at least three times the design load but not less than 12-gauge

Spacing and gauge per IBC, UL and CISCA design.

Supplied and installed by ceilings subcontractor.

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