

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 and this product has a Follow-up Service / Inspection Agreement. This **Product Evaluation Report** in no way implies warranty for this product or relieves **USG Interiors, LLC** of their liabilities for this product. This **PER** is an official document if it is within one year of the initial or re-approval date.

Initial Approval
July, 2014

Re-Approved

See all **Pei ES** Listings at: www.p-e-i.com

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

USG Interiors, LLC

Plant # 603
2575 East Loomis Rd.
Stockton, CA 95205

USG Interiors, LLC

Plant # 605
1000 Donn Dr.
Cartersville, GA 30120

USG Interiors, LLC

Plant # 091
735 Fourth Line Rd.
Oakville, Ontario, Canada L6L 5B7

Product

Logix™ Intergrated Ceiling Systems:
Logix™ Modules and **Logix™** Utility Channels

Evaluation Report Information

usg4you@usg.com

USG Support: 800.USG4YOU

General Details

This report covers the **USG Logix™** Suspension System and **USG** Utility Module Bracket manufactured by **USG Interiors, LLC**. The plant locations listed above have an approved Q.C Manual to manufacture the product. **USG Interiors, LLC** has an Evaluation and Follow-up Service Agreement with **Pei Evaluation Service** / Inspection Agreement with **Progressive Engineering Inc.** The plant locations listed above will be audited Quarterly by **Pei**.

Product Description

The **Logix™** Systems described in this report, are assemblies used in interior general-use areas. The suspended ceiling systems consist of Main and Cross Tee framing members with lay-in ceiling panels. There are a variety of clips, yokes, brackets and other accessories available for the system. The steel body for the suspension system members have a hot-dipped galvanized coating, min. Type G30. Ceiling panels applicable for use with this system are listed below.

USG Logix™ Panel options

Halcyon™ *ClimaPlus™*, Mars™ *ClimaPlus™*, Mars™ *ClimaPlus™* High-NRC, Panz®, Logix™ Connector Panels and True™ Wood.

USG Logix™ Suspension System options

The suspension System can create narrow 4", 6", 12", 100mm, 150mm and 300mm channels. Ceiling panels are supported by **USG Interiors** Centricitee™ DXT™, Identitee™ DXI™, DONN® DX®/DXL™ and Fineline® DXF™.

USG Logix™ Yoke

The Yoke is an optional suspension system installation accessory that facilitates the spacing and suspension of parallel Main Tees with one hanger wire. The Yoke is compatible with both Metric and Imperial channel sizes. The Yoke also keeps hanger wire wraps away from linear luminaires, can reduce the number of hanger wires required and helps brace the utility channel. Designed to work with Suspension System options listed above.

USG Utility Module Bracket (UMB)

This bracket is a convenient and versatile suspension system accessory, designed to easily create **Logix™** utility channels with Standard **USG** ceiling grids. The **USG Utility Module Bracket** can also be used to create intersecting utility channels. The **USG Utility Module Bracket** is designed to work with the following suspension systems: Centricitee™ DXT™, Identitee™ DXI™, DONN® DX®/DXL™.

General Product Use

1. **Logix™** Integrated Ceiling Systems shall be installed in accordance with the **Logix™** installation guide and are subject to the conditions of this **PER**. A copy of the installation guide shall be made easily available to the installer.
2. Complies with ASTM C635, ASTM C645 and must be installed in accordance with ASTM C636, ASTM E580, CISCA and standard industry practices, within applicable code requirements.
3. All construction, wood or steel framing, beams, joist, stringers and associated connections needed to support the **Logix™** Integrated Ceiling System are outside the scope of this **PER**. All construction shall follow applicable codes or be designed by a licensed Engineer. Building structure must be capable to withstand the applicable loads required by Chapter 16 of the 2012 IBC.
4. All **USG** DONN® brand suspension systems, when used with any **USG** ceiling panels or tiles, carry a lifetime (30-year) warranty that **USG** products shall be free from manufacturing defects and that the suspension systems shall be free from the occurrence of 50% red rust as defined by ASTM D610 test procedures for 30 years from the date of installation.
5. Finish is not UV-resistant. All **USG** DONN® Brand Suspension Grid Systems should not be installed where direct exposure to sun or weather.

Properties Evaluated

Interior Ceiling Installation: The systems have been evaluated to comply with requirements for interior installations. The systems above are tested in accordance with ASTM C635, ASTM C636, ASTM C645, ASTM E580 and AC 156.

Code Compliance Meets requirements for Suspended Ceilings in accordance with:
2012 International Building Code® (IBC) and 2013 California Building Code (CBC).

2012 International Building Code
Section 2506.2.1 and Section 808.1 Section 1613 - In Compliance with Requirements

Meets the requirements of ASTM C635 and installation requirements of ASTM C636 as required in the 2012 IBC (2013 CBC) sections shown above.

Meets the requirements for Class A in accordance with Section 803.1.1 of the 2012 IBC (2013 CBC), when tested in accordance with ASTM E84.

Meets the requirements for seismic resistive suspension ceiling in accordance with Section 13.2.5 of ASCE 7 when tested in accordance to AC156 as required by Section 1613 of the 2012 IBC (2013 CBC).

Compliance with the following Standard

- ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process
- ASTM C645 - Standard Specification for Nonstructural Steel Framing Members
- 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
- ASCE7 - Minimum Design Loads for Buildings and Structures
- ASTM E580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Moderate Seismic Restraint
- ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
Classified - Class A as required by Sections 803.1.1 of the IBC for panels

Seismic Classification

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

ASTM Class - Heavy or Intermediate Duty use

Load Rating Classifications		
Light Duty	Intermediate Duty	Heavy Duty
5 lbs./LF	12 lbs./LF	16 lbs./LF

Product Documentation

- An Evaluation and Follow-up Service Agreement between **Pei Evaluation Service** and **USG Interiors, LLC**
- An Inspection Agreement between **Progressive Engineering Inc.** and **USG Interiors, LLC**
- ICC-ES Evaluation Report ESR-1222 -- Dated: December, 2013.
- USG Interiors, LLC** Quality Control Manual for DONN® Brand Suspension Systems and **USG** Drywall Suspension Systems -- Dated: June 3, 2014.
- Seismic Evaluation of Suspended Ceiling Systems: Phase 1 and 2 of 2011 Test Program.** Report No. PEER-STI/2011-12 - Dated: July, 2011.
- Seismic Evaluation of Corridor Suspended Ceiling Systems: Phase 1 of 2014 Test Program.** Report No. PEER-STI/2014-13 - Dated: April, 2014.
- Logix™** Integrated Ceiling Systems - How to Use This Guide -- Dated: February, 2012
- Halcyon™ ClimaPlus™, **Logix™** Panels - Data Submittal Sheet -- Dated: October, 2011
- Halcyon™ ClimaPlus™, **Logix™** Panels - Data Submittal Sheet -- Dated: December, 2012
- Logix™** Suspension Systems, Panz® and Accessories - Data Submittal Sheet -- Dated: December, 2012
- Mars™ ClimaPlus™, High-NRC **Logix™** Panels - Data Submittal Sheet -- Dated: December, 2012
- Mars™ ClimaPlus™, **Logix™** Panels - Data Submittal Sheet -- Dated: December, 2012
- Logix™** Systems - Technical Document - Seismic Technical Guide -- Dated: September, 2012
- Logix™** Integrated Ceiling Systems - Systems Guide -- Dated: January, 2013
- Plank and Large Panel Stabilizer Bars, Application Guide - Technical Document -- Dated: July, 2013

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:

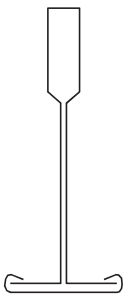
1. [USG Interior, LLC](#) Name and Address
2. Product name
3. Plant identifier & date code
4. The **PER** number and **Pei ES** Name or Logo
5. UL Backstamp Information for Fire Resistance
6. Image of permanent label on main tee for Miami-Dade Resistance
7. ICC-ES ESR Report Number

Acceptable Evaluation Marks



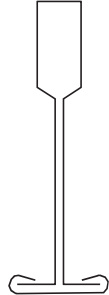
Profile Details

Donn® DX®/DXL™



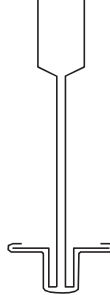
15/16"

Centricitee™ DXT™



9/16"

Identitee™ DXI™



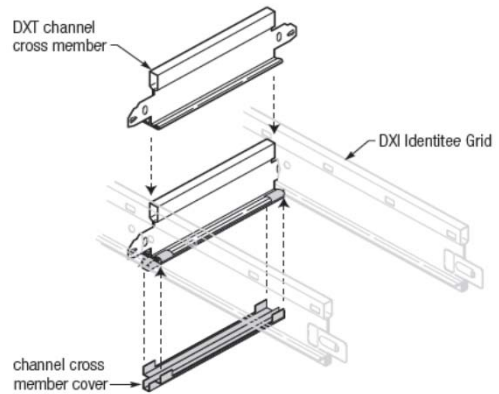
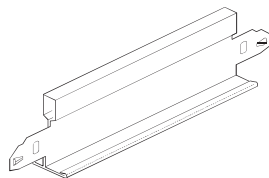
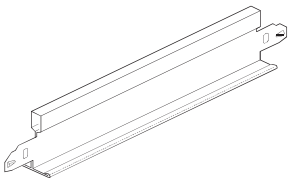
3/16"
9/16" overall

Fineline® DXF™

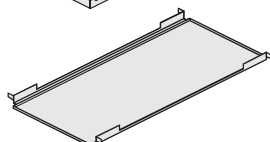
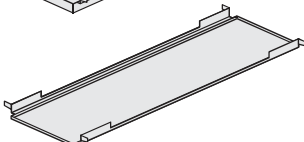
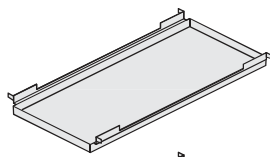
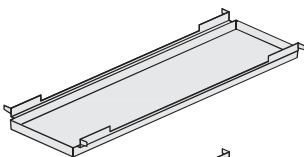


1/4"
9/16" overall

Logix™ Channel Cross Members



Logix™ Connector Panels



Logix™ Universal Yoke

