Approved Manufacturing Locations
Pei ES has on file a list of each approved manufacturer and manufacturing location for the DH4 4-Way Seismic Separation Joint Clip.

Evaluation Report Information
usg4you@usg.com
USG Support: 800.USG4YOU

General Details
The DH4 4-Way Seismic Separation Joint Clip is manufactured by approved independent companies. Any company manufacturing the said product for USG Interiors, LLC that is intended to be evaluated by this Product Evaluation Report has a Quality Control Program established by USG Interiors, LLC to monitor the finished product. The Quality Control Program for monitoring the finished product is completed at USG Interiors, LLC - Plant No. 601 located at 1000 Crocker Rd., Westlake, OH 44145 and will be audited Quarterly by Pei.

Product Description
The DH4 4-Way Seismic Separation Joint Clip is a one piece hot-dipped galvanized G40 - G60 steel structure. The joint clip is non-directional and can be used on either main tees or cross tees. Fastener holes and expansion slots enable fail-safe installation, allowing no extra hangers or special fasteners to be required. Clip placement is over the bulb of the tee and does not interfere with light fixtures, allowing a clean uninterrupted look.

The DH4 4-Way Seismic Separation Joint Clip measures 5.2" in length and 1.3" in height, with a minimum steel thickness of 0.028". This allows for a full size acoustical panel at the separation joint, maintaining strength and a square shape of the suspension system. Applications include all interior general use areas and works with DONN® Suspension Systems, DX®, DXL™, DXF Fineline®, DXFF Fineline® 1/8", DXT Centricitee™, DXLA™, DXI Identitee™ and ZXL™ (Environmental). Alternative seismic designs are assembled using a concealing 3" long Tee-Face Sleeve (TFS). See USG Seismic Technical Guide SC2496 for Tee-Face Sleeve selection, pairing with a supplementary suspension ceiling grid system.

Code Compliance
Meets the requirements for suspended ceilings in accordance with the 2012, 2015 and 2018 International Building Code®.

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Section 2506.2.1 and Section 808</td>
</tr>
<tr>
<td>Section 1613 - In Compliance with Requirements</td>
</tr>
</tbody>
</table>

The clip meets or exceeds all national code requirements and fulfills requirements for IBC Seismic Design Categories D, E and F.

Compliance with the following Standard
ASCE 7 - Minimum Design Loads for Buildings and Structures
ASTM C 636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels
ASTM C 635 - Standard Specifications for the Manufacture, Performance and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
ASTM E 580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Moderate Seismic Restraint
**General Product Use**

1. The **DH4 4-Way Seismic Separation Joint Clip** shall be installed in accordance with the installation guide provided by the manufacturer and are subject to the conditions of this **PER**. A copy of the installation guide shall be made easily available to the installer.

2. Seismic separation joints can be installed in any combination of main tees or cross tees and may be constructed at a main tee or cross tee intersection to conceal the separation joint from below.

3. Suspension system tees may be broken to construct a seismic separation joint provided a device is used to secure the tees together that allows movement or supplementary hanger wires shall be installed.

4. The seismic separation joints are meant for the suspension system alone and ceiling panels shall not be installed differently. Installed in compliance with ASTM C 636, ASTM C 635 and Industry Standard Practices.

5. A braced partition or kicker may be constructed to minimize or eliminate seismic separation joints.

6. Seismic separation joints shall be capable of allowing [+or-] 3/4" (18mm) axial movement.

7. Lateral force bracing shall not be attached directly to seismic separation joints.

8. A structural engineer shall be consulted for very large suspended ceilings where multiple separation joints are necessary to break the ceiling into areas less than 2,500sq.ft. (232m²).

9. Seismic separation joints shall be installed such that the area less than 2,500sq.ft. (232m²) has a ratio of the long to short dimension less than or equal to four (4).

**Load Ratings**

**Table 1 - Rated Loads**

<table>
<thead>
<tr>
<th>Light Duty</th>
<th>Intermediate Duty</th>
<th>Heavy Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 lbs. / LF</td>
<td>12 lbs. / LF</td>
<td>16 lbs. / LF</td>
</tr>
</tbody>
</table>

*Note: ASTM Class - Heavy Duty use*

**Seismic Classification**

**Table 2 - Seismic Design Classification**

<table>
<thead>
<tr>
<th>Seismic Design Category A, B</th>
<th>Seismic Design Category C</th>
<th>Seismic Design Category D, E, F</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Requirement</td>
<td>Intermediate Duty</td>
<td>Heavy Duty</td>
</tr>
</tbody>
</table>

*Note: DH4 Seismic Expansion Joint Clip - Seismic Category: D, E, F*

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**Figure 1 - DH4 4-Way Seismic Clip Profile Details**

**Figure 2 - Fixed / Floating Profile Detail**
Product Labeling
Each DH4 4-Way Seismic Separation Joint Clip assembly shipment, 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 Evaluation Report at p-e-i.com

Acceptable Evaluation Marks

Test Records

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: 11/12/2018
DONN® Suspension Systems - 4-Way Seismic Separation Joint Clip - Submittal Sheet - Dated: 6/2013
DONN® Brand Suspension Systems - Accessory Product Guide - Dated: 10/2019