



VERIFICATION REPORT

For

AGI Seismic Products Inc.

5188 Willow Street
Vancouver, BC
V5Z 3R9 Canada

Date: April 13, 2016
Report No.: 13215-1S
Revision No.: 0
Project No.: 13215
Model No.: SFC1, SFC1CF, SFC1S, SFC1E,
SFC1CFS, SFC1R
Product Type: Seismic Fixture Clamp

Your Partner in Testing and Certification Inc.



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REPORT

Certification System	ICC-ES Acceptance Criteria for Recessed Lighting Fixtures (Luminaires) in Suspended Ceiling Systems (AC184)
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Scope	This report describes dynamic load test for Seismic Fixture Clamps (SFC) is a metal clamp used to attach a recessed florescent light fixture to a metal suspended ceiling system. The Seismic Fixture Clamp (SFC) is used to provide positive attachment; lateral and vertical restraint of recessed fluorescent light fixtures (luminaires) and ceiling mounted air terminals to framing members of metal suspension systems for acoustical tile and lay-in ceilings. The Seismic Fixture Clamp installed one at each of the four corners of the fixture, reinforces the main runner/cross runner connection, secures the fixture, creating a module where the load is transferred to the four adjacent hanger wires supporting the main runners of the suspended ceiling system from the structure above, whereby, the ceiling compression post and bracing provides the lateral and vertical restraint for the light fixture.
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Report reference No.:	13215-1S
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Note: By signing the below, both the Issuer and the Reviewer hereby declare to abide by the applicable LabTest policies:

- 1.) Statement of Independence # 3014 (LabTest Employees), or
- 2.) Independence, Impartiality, and Integrity #1039, clause 11 (Engineering Service Subcontractors).

Complied and Issued by: (print name and signature)	Eugen Rapa	
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Date of issue:	April 13, 2016
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Reviewed by: (print name and signature)	Sandeep Bhayana	
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Date of Review:	April 13, 2016
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<input checked="" type="checkbox"/> Testing Location (Name):	Alpha Seismic and Environmental Test Laboratory
Address:	3767 Alpha Way Bellingham, Washington, 98226, USA
Testing By:	Al McPhillips

Applicant's Name:	AGI Seismic Products Inc.
Contact Person:	Frank MacLeod
Address:	5188 Willow Street, Vancouver BC V5Z 3R9

Test specification	
Standard (Test Specification)	➤ ICC-ES Acceptance Criteria for Recessed Lighting Fixtures (Luminaires) in Suspended Ceiling Systems (AC184)
Conclusion	The submitted test item noted below was found to be in compliance with the above noted standard(s).

Test item description	Seismic Fixture Clamp (SFC)
Trademark	None
Manufacturer	AGI Seismic Products In.

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Address	20 Hawthorne Point, Little Deer Isle, Maine, USA, 04650
Model and/or Stock No.	➤ SFC1, SFC1CF, SFC1S, SFC1E, SFC1CFS, SFC1R
Rating(s).....	<ul style="list-style-type: none"> ➤ The Scismic fixture clamp Weight is 0.2 lbs/piece ➤ The Seismic Fixture Clamp Load rating 200 lbs (90.71kg) ➤ The maximum fixture (component) weight permitted is 56 lbs (25.4kg)

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GENERAL TERMS

Test items particulars: Seismic Fixture Clamps (SFC) is a metal clamp used to attach a recessed florescent light fixture to a metal suspended ceiling system. The Seismic Fixture Clamp (SFC) is used to provide positive attachment, lateral and vertical restraint of recessed fluorescent light fixtures (luminaires) and ceiling mounted air terminals to framing members of metal suspension systems for acoustical tile and lay-in ceilings. The Seismic Fixture Clamp installed one at each of the four corners of the fixture, reinforces the main runner/cross runner connection, secures the fixture, creating a module where the load is transferred to the four adjacent hanger wires supporting the main runners of the suspended ceiling system from the structure above, whereby, the ceiling compression post and bracing provides the lateral and vertical restraint for the light fixture. The SFC 1R Clamp, has no tab on the flange and is used on some box type light fixtures.

Unit shall be installed as per the following standard:

- CISCA 0-2 and CISCA 3&4 **
- 2010 California Building Code (CBC)
- New Zealand Standard NZS 4219
- International Building Code (IBC)
- Uniform Building Code (UBC) **
- National Building Code of Canada
- National Electrical Code
- Canadian Electrical Code
- ASTM E580

**** Subject devices (seismic fixture clamps) comply with the following:**

**ICC EVALUATION SERVICE, INC.
AC 184, Clause 4.1.4.2**

Attachment Devices Used in Lieu of Code Requirements for Two Slack No. 12 Gage Wires Attaching Light Fixtures to the Structure Above the Suspended Ceilings:

The average ultimate test result, as determined in Section 4.1.1.2, of each test series shall be equal to or greater than 600 pounds (2669 N). The 600-pound (2669 N) value is based on applying a safety factor of 3 to an assumed ultimate load capacity of 100 pounds (444.8 N) for each of the two No. 12 gage slack wires required by the code.

Possible test case verdicts

Test case does not apply to the test object : N/A (Not-applicable)
 Test item does meet the requirement : Pass (P)
 Test item does not meet the requirement .. : Fail (F)

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Testing

File Transfer, testing conducted by

Certification Body (CB): ITS Intertek Testing Service ETL SEMKO

Report No.: 181273

Report Date: March 10, 2005

General remarks

This report does not permit the use of the LC mark unless provided with Certificate of Conformity and Authorization Letter to Mark issued by LabTest Certification Inc.

This report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the item(s) tested.

(see remark #)" refers to a remark appended to the report.
"(see Annex #)" refers to an annex appended to the report.

- Throughout this report a comma is used as the decimal separator.
- Throughout this report a period is used as the decimal separator.

Note: The SFC 1R Clamp, has no tab on the flange and is used on some box type light fixtures.

Report History:

- Rev. 0 – Issued April 13, 2016

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ALTERATION

The manufacturer/applicant agrees to complete all below noted alterations prior to shipping and labeling products with the LC Certification Mark:

- Unit shall be marked as with the marking noted in the Marking section.

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NOMENCLATURE

UBC Symbols:

The following symbols and notations have the noted meaning in this document:

- C_a = Seismic coefficient, as set forth in Table 16-Q of the UBC.
- N_a = Near-source factor used in the determination of C_a in Seismic Zone 4, related to the proximity of the building or structure to known faults having magnitudes and slip rates as set forth in Tables 16-S and 16-U of the UBC.
- H_x = Equipment attachment elevation with respect to grade. For items at or below the base, H_x shall not be taken to be less than 0.0.
- H_r = Building or structure roof elevation with respect to grade.
- R_p = Equipment response modification factor. R_p represents the energy absorption capability of the equipment's structure and attachments, set forth in Table 16-O of the UBC.
- I_p = Equipment importance factor. I_p represents the greater of the life-safety importance of the component and the hazard exposure importance of the structure, set forth in Table 16-K of the UBC.

IBC Symbols:

The following symbols and notations have the noted meaning in this

- S_{DS} = Design spectral response acceleration at short period, as determined in Section 1615.1.3 of the IBC.
- z = Height of structure (in feet) with respect to grade, at point of attachment of equipment. For items at or below the base, z shall not be taken to be less than 0.0.
- h = Average building/structure roof height (in feet) relative to the base elevation.
- R_p = Equipment response modification factor. R_p represents the energy absorption capability of the equipment's structure and attachments, set forth in Table 9.6.2.2 or 9.6.3.2 of ASCE 7.
- I_p = Equipment importance factor. I_p represents the greater of the life-safety importance factor of the component and the hazard exposure importance factor of the structure, as set forth in Section 9.6.1.5 of ASCE 7.

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A_{RRS} = The following symbols and notations have the Spectral acceleration as calculated from design seismic forces, F_P , and equipment weight, W_P .
 $A_{RRS} = F_P/W_P$.

A_{FLX} = Horizontal spectral acceleration calculated for flexible equipment.

A_{RIG} = Horizontal spectral acceleration calculated for rigid equipment.

a_p = In-structure equipment amplification factor. The a_p represents the dynamic amplification of the equipment relative to the fundamental frequency of the building structure.

F_P = Horizontal seismic design force centered at the equipment's center of gravity, and distributed relative to the equipment's mass distribution.

W_P = Equipment operating weight.

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DEFINITIONS:

The following definitions from AC 156 have been repeated here for reference.

Attachments: The means by which equipment is secured or restrained by the seismic force resisting system of the building structure. Such attachments and restraints may include anchor bolting, welded connections and mechanical fasteners.

Biaxial Test: A dynamic test in which the test specimen is subjected to acceleration in one principal horizontal axis and the vertical axis simultaneously. The horizontal and vertical acceleration components are derived from two different input signals that are phase-incoherent.

Build-hold-decay (BHD): The build-hold-decay time interval envelope ($5 + 0/-3$ seconds, $20 + 6/-0$ seconds and $5 + 0/-3$ seconds, respectively) imposed on the drive signal of the shake table to simulate the non stationary nature of an earthquake event. The build time includes time necessary for acceleration ramp-up, the hold time represents the earthquake strong motion time duration, and the decay time includes the de-acceleration ring down time. A straight linear approximation is acceptable.

Damping: An energy dissipation mechanism that reduces the amplification and broadens the vibratory response in the region of resonance. Damping is expressed as a percentage of critical damping.

Flexible Equipment: Component, including its attachments and force-resisting structural members, having a fundamental period greater than 0.06 second (less than 16.67 Hz).

Equipment Force-resisting System: Equipment force-resisting systems are those members or assemblies of members, including braces, frames, struts and attachments, that transmit all loads and forces between the equipment and the building structure. Equipment supports also transmit lateral forces and/or provide structural stability for the connected equipment.

Octave: The interval between two frequencies that have a frequency ratio of 2.

One-third Octave: Interval between two frequencies that have a frequency ratio of $2^{1/3}$.

One-sixth Octave: Interval between two frequencies that have a frequency ratio of $2^{1/6}$.

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Required Response Spectrum (RRS): The response spectrum generated using the formulas and normalized spectra detailed in Section 6.5.1 of this acceptance criteria. The RRS constitutes a requirement to be met.

Rigid Equipment: A component, including its attachments and force-resisting structural members, having a fundamental period less than or equal to 0.06 second (greater than or equal to 16.67 Hz). 3.12 Subassemblies: (To be provided).

Test Response Spectrum (TRS): The acceleration response spectrum that is developed from the actual time history of the motion of the shake table test.

Transmissibility: The non dimensional ratio of the response amplitude of a system in steady-state forced vibration to the excitation amplitude. The ratio may be one of forces, displacements, velocities, or accelerations and is used to characterize resonant modes of structural vibration.

Triaxial Test: A dynamic test in which the test specimen is subjected to acceleration in two principal horizontal axes and the vertical axis simultaneously. The two horizontal and the vertical acceleration components are derived from three different input signals that are phase-incoherent.

Uniaxial Test: A dynamic test in which the test specimen is subjected to acceleration in one principal axis. The acceleration components are derived from a single input signal.

Unit Under Test (UUT): The equipment item to be qualification-tested.

Zero Period Acceleration (ZPA): The peak acceleration of motion time history that corresponds to the high-frequency asymptote on the response spectrum. This acceleration corresponds to the maximum peak acceleration of the time history used to derive the spectrum. For use in this acceptance criteria, the ZPA is assumed to be the acceleration response at 33.3 Hz or greater.

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EXAMPLE MARKING LABEL

Seismic Fixture Clamp
 SFC 1
 End View

 ICC-ES AC184
 LabTest Certification Inc report # 13215
 AGI Seismic Products Inc
 www.agi-seismic.com
 OSHPD OPA-2187-10
 US Patent # 5,941,029 & 6,029,414
 Bach # A008

Seismic Fixture Clamp
 SFC 1E

 ICC-ES AC184
 LabTest Certification Inc report # 13215
 AGI Seismic Products Inc
 www.agi-seismic.com
 OSHPD OPA-2187-10
 US Patent # 5,941,029 & 6,029,414
 Bach # A008

Seismic Fixture Clamp
 SFC 1S

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 US Patent # 5,941,029 & 6,029,414
 Bach # A008

Seismic Fixture Clamp
 SFC 1CF

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 OSHPD OPA-2187-10
 US Patent # 5,941,029 & 6,029,414
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 SFC 1CFS

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PRODUCT DESCRIPTION

PRODUCT COVERED: Seismic Fixture Clamp (SFC).

PRODUCT DESCRIPTION:

1. Seismic Fixture Clamp (SFC) Description:

The Seismic Fixture Clamp (SFC) is a metal clip used to attach a recessed florescent light fixture to a metal suspended ceiling system. One SFC is used at each of the four corners of the light fixture. The SFC forms a rigid connection of the light fixture to the main runner and the cross runner of the metal suspended is fabricated from No. 20 gage [minimum base-metal thickness of 0.0358 inch (0.91mm)] galvanized steel complying with ASTM A653 SS Grade 33, with a minimum yield and ultimate tensile strengths of 33 and 45 ksi (228 and 310 MPa), respectively. The clamp is cold-formed in several configurations for specific orientation of the luminaire to the main and cross runners of the suspension system and is pre-punched for the fasteners.

1.1 Fasteners:

The fasteners used to attach the clamp to the main and cross runners of the suspended ceiling grid are 10-16X3/4-inch-long (19.1 mm) HWH #2 self-drilling, self-taping tech screw. The clip type SFC1, SFC1R, SFS1CF, SFC1CFS have two 4.7mm (0.184") diameter holes predrilled on the outside of the clip and two 3.5mm (0.140") diameter holes predrilled on the inside of the clip to receive the screws. The screws are installed from the outside of the clip through the web of the runners and through the inside of the clip on these three clip types. On the SFC1E, SFC1RE, SFC1S, SFC1RS clip types there is only an outside face that attaches to the runner because they are installed adjacent clip, through the web of the runner and through the inside of the adjacent clip.

1.2 Luminaires and Ceiling Mounted Air Terminals:

The luminaires (light fixtures) and ceiling mounted air terminals must comply with the requirement of the applicable code and must be constructed from a minimum of 0.024-inch-thick (0.61mm) steel complying with ASTM A366, having a minimum yield and ultimate tensile strengths of 26 and 45 ksi (179 and 310 MPa), respectively. The maximum weight of the luminaires and ceiling mounted air terminals are limited to 56 pounds (25.4 kg).

1.3 Metal Grid Components:

The main runners and cross runners are formed, respectively, from steel having a minimum uncoated base-metal thickness of 0.013 and 0.010 inch (0.33 and 0.25 mm) and complying with ASTM A653 SS Grade 33. The runners must have a vertical "T" component at least 1 inch (25.4 mm) long and not to exceed a maximum length of 2 1/2 inches (63.5 mm) and a minimum thickness of 5/16 inch (7.9 mm).

1.4 Instructions:

One SFC must be installed over the main and cross runner intersection at each of the four corners of the luminaires in accordance with Figure 2 of this report. Two fasteners must be used to attach each clamp, with one fastener installed through the web of the cross runner and one fastener attached through the web of the main runner.

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2. Seismic Fixture Clamp (SFC):

- The Seismic fixture clamp Weight is 0.2 lbs/piece
- The Seismic Fixture Clamp Load rating 200 lbs (90.71kg)
- The maximum fixture (component) weight permitted is 56 lbs (25.4kg)

The SFC is used to provide positive attachment of recessed fluorescent light fixtures (luminaires) and ceiling mounted air terminals to framing members of metal suspension systems for acoustical tile and lay-in ceilings complying with the ICC-ES Acceptance Criteria for Attachment Devices for Recessed Lighting Fixtures (Luminaires) in Suspended Ceiling Systems (AC184).

3. Conditions Of Use:

Installation of the SFC must comply with this report, the manufacturer's published installation instructions and the applicable code. The manufacturer's published instructions must be available at the jobsite at all times during installation.

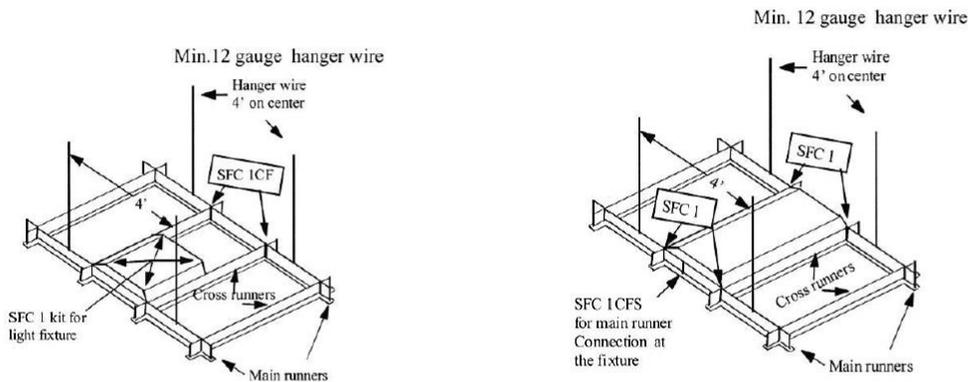
Use of the SFC is limited to the attaching recessed fluorescent light fixture (luminaries) and ceiling mounted air terminals to framing members of metal suspension systems for acoustical tile and lay-in ceiling.

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FIGURES / DIAGRAMS

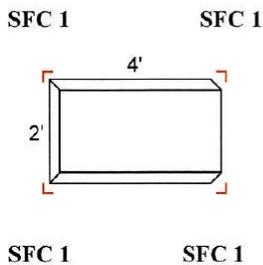
AGI Seismic Products Inc.

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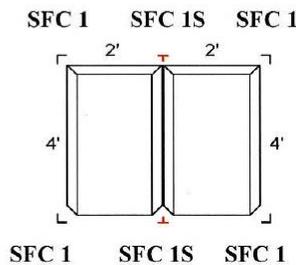


Light Fixtures, light gauge metal complying with UL Standard 1598, maximum fixture weight 56 lbs.

Single Fixture Installation



Two Fixtures Side by Side



Two Fixtures End to End

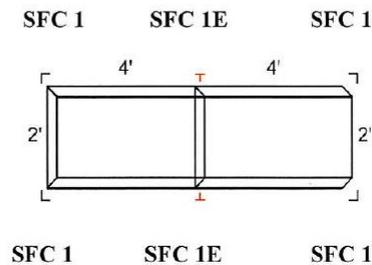
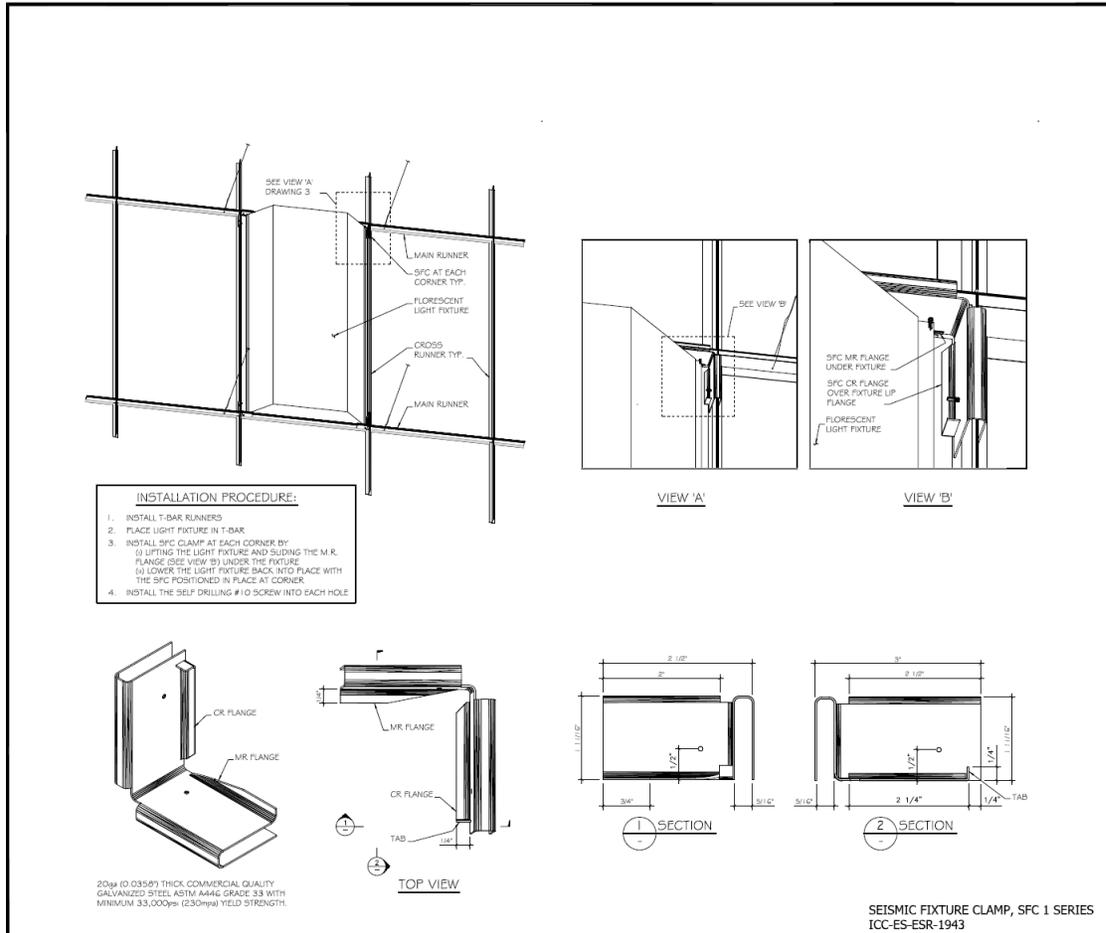


Figure 1

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Products That Meet Code Compliance
 TEL: 604-327-2655 FAX: 604-327-2651
 EMAIL: SALES@AGI-SEISMIC.COM WEB: WWW.AGI-SEISMIC.COM

Figure 2

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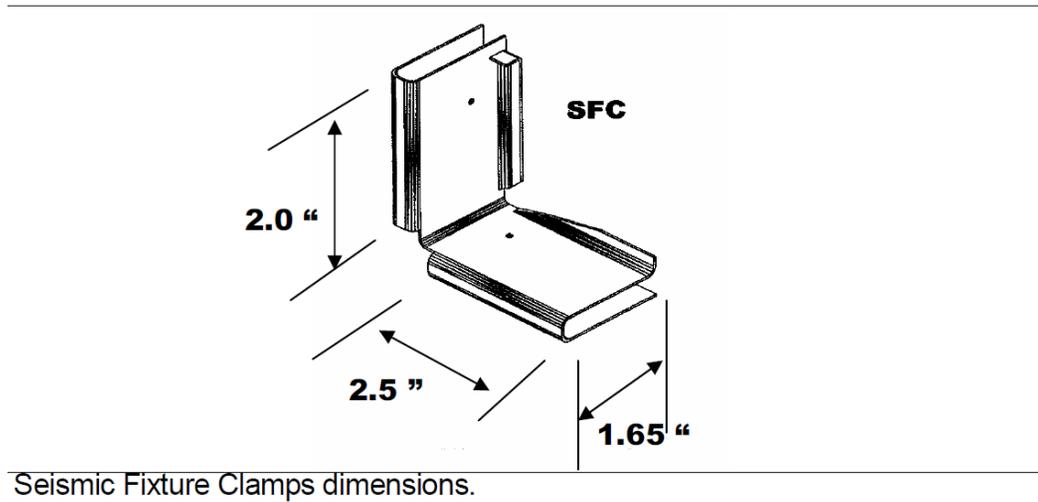


Figure 3

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PICTURES



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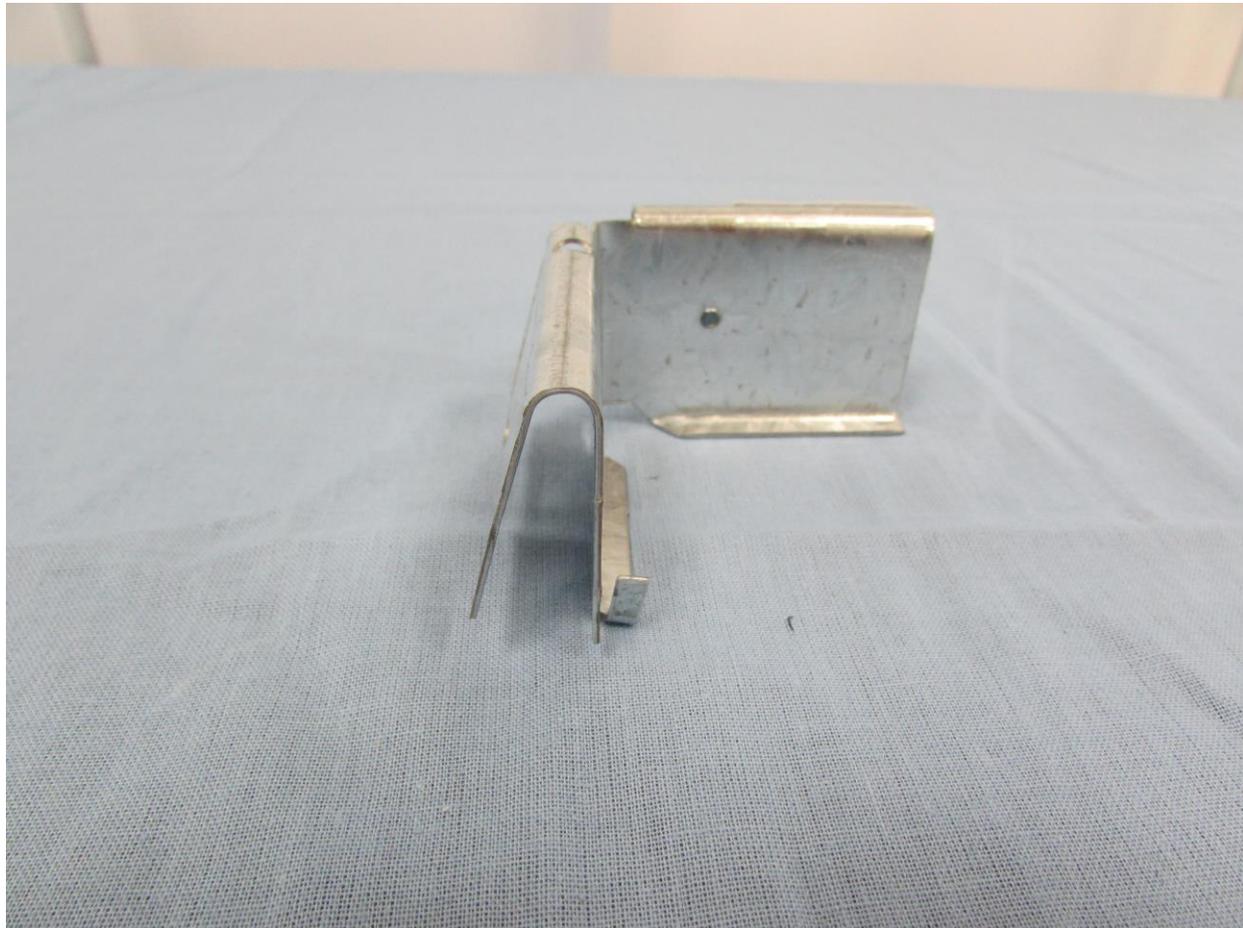
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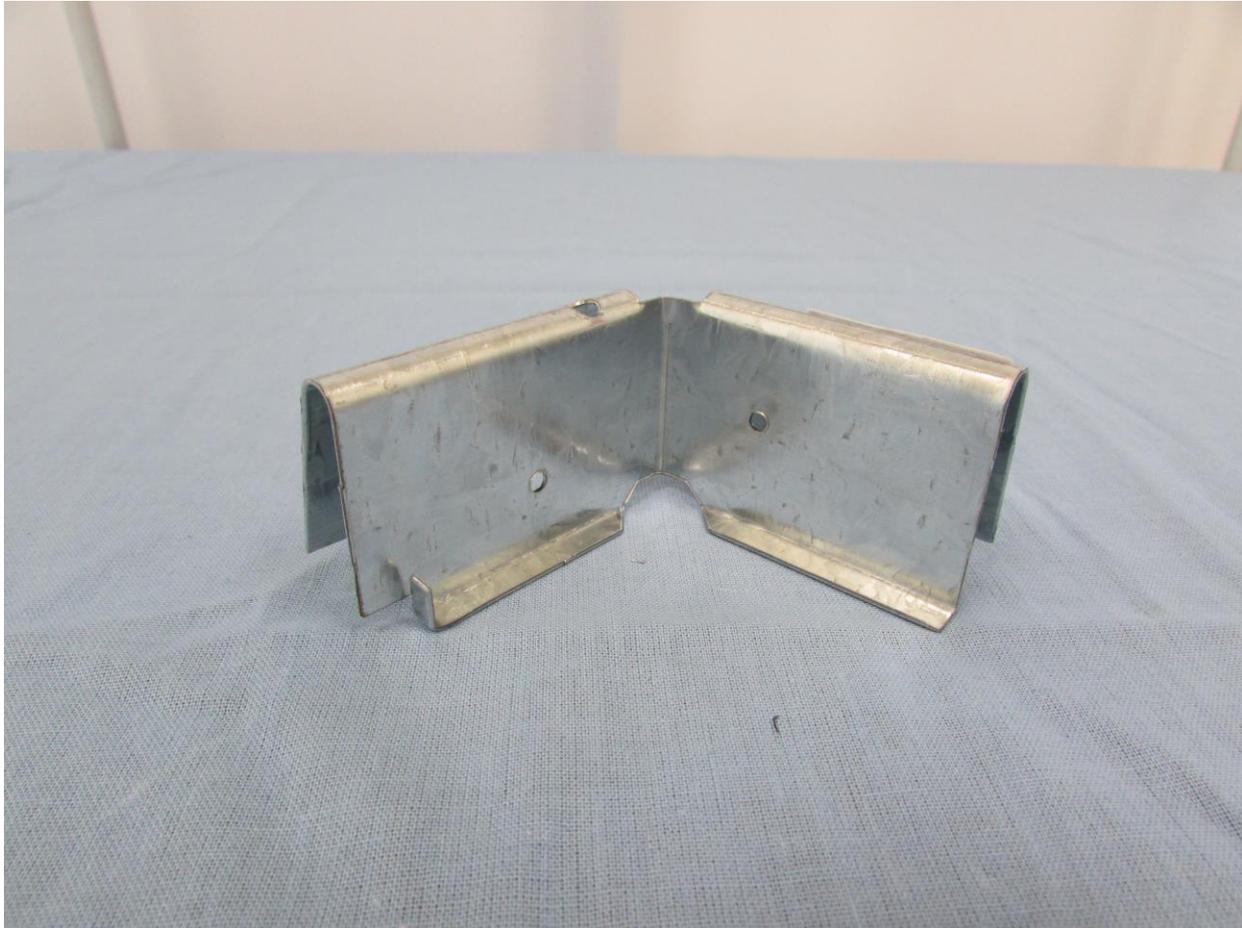
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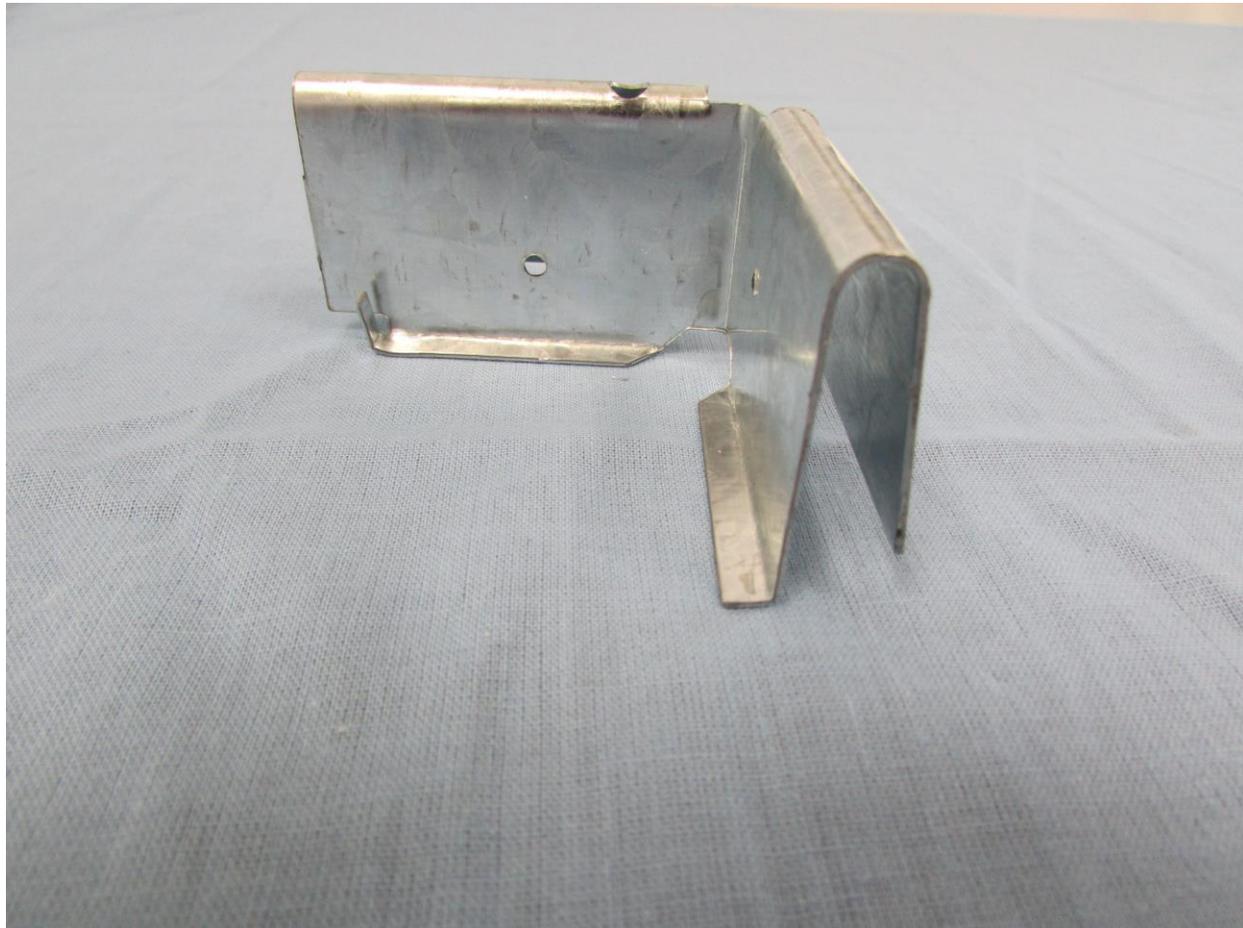
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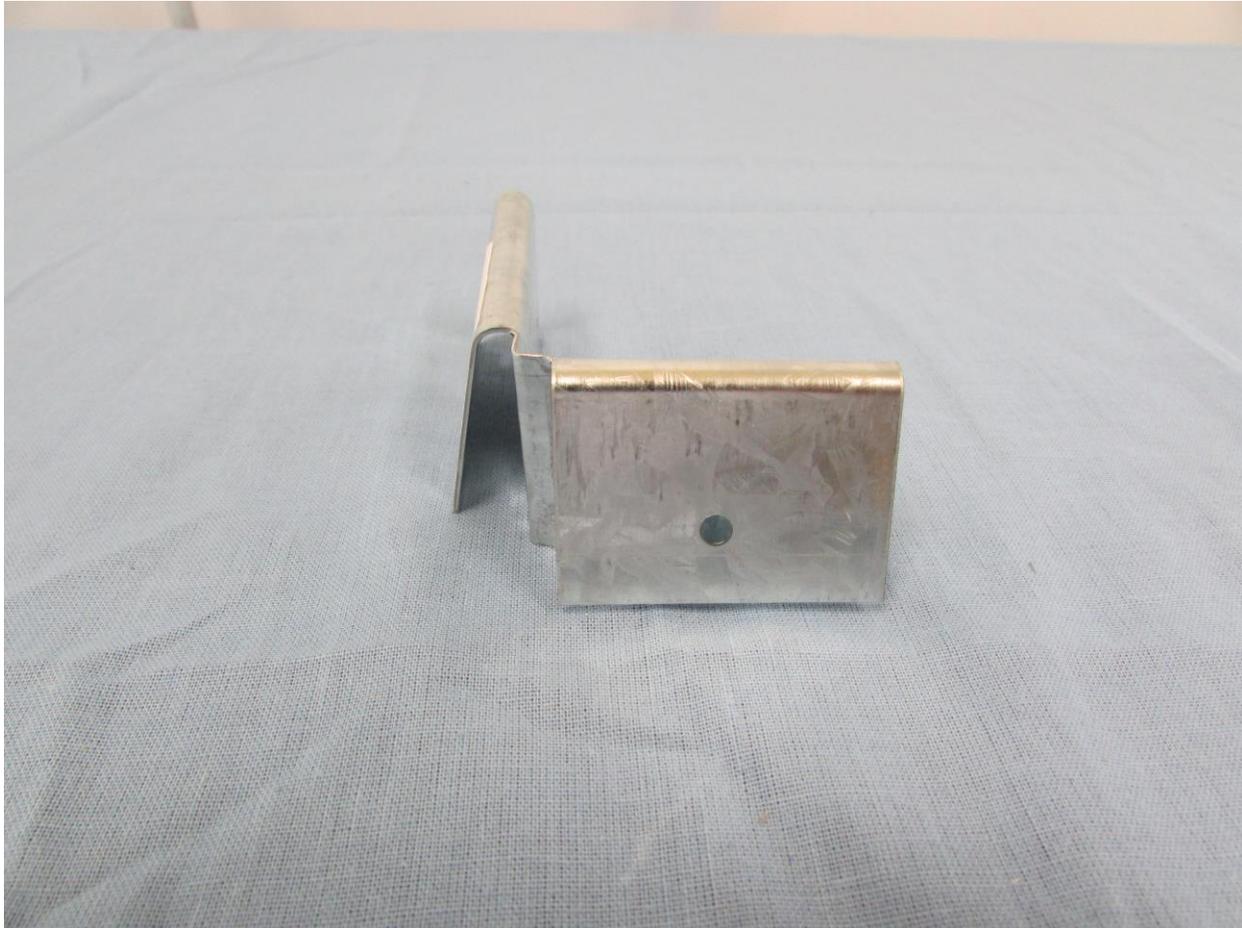
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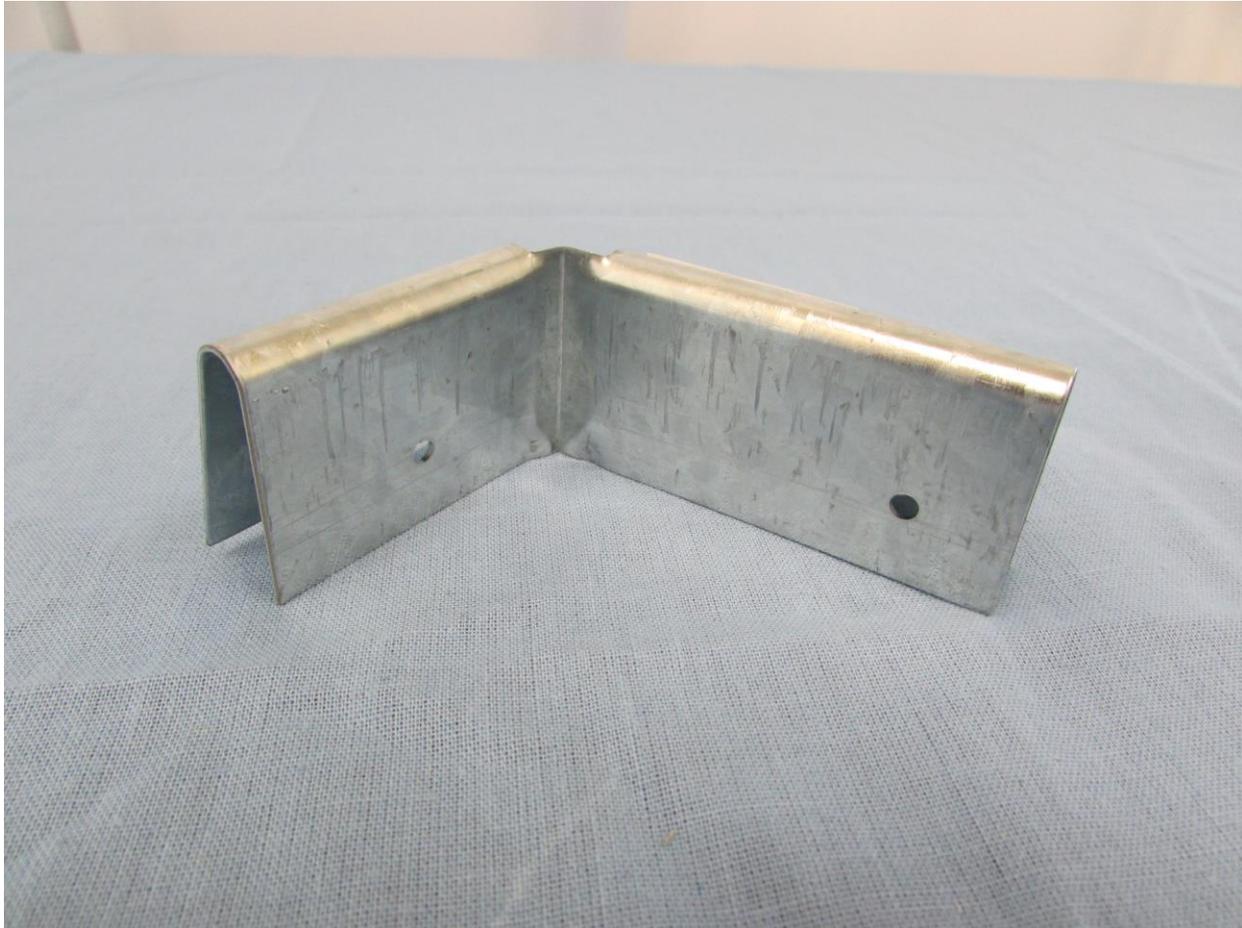
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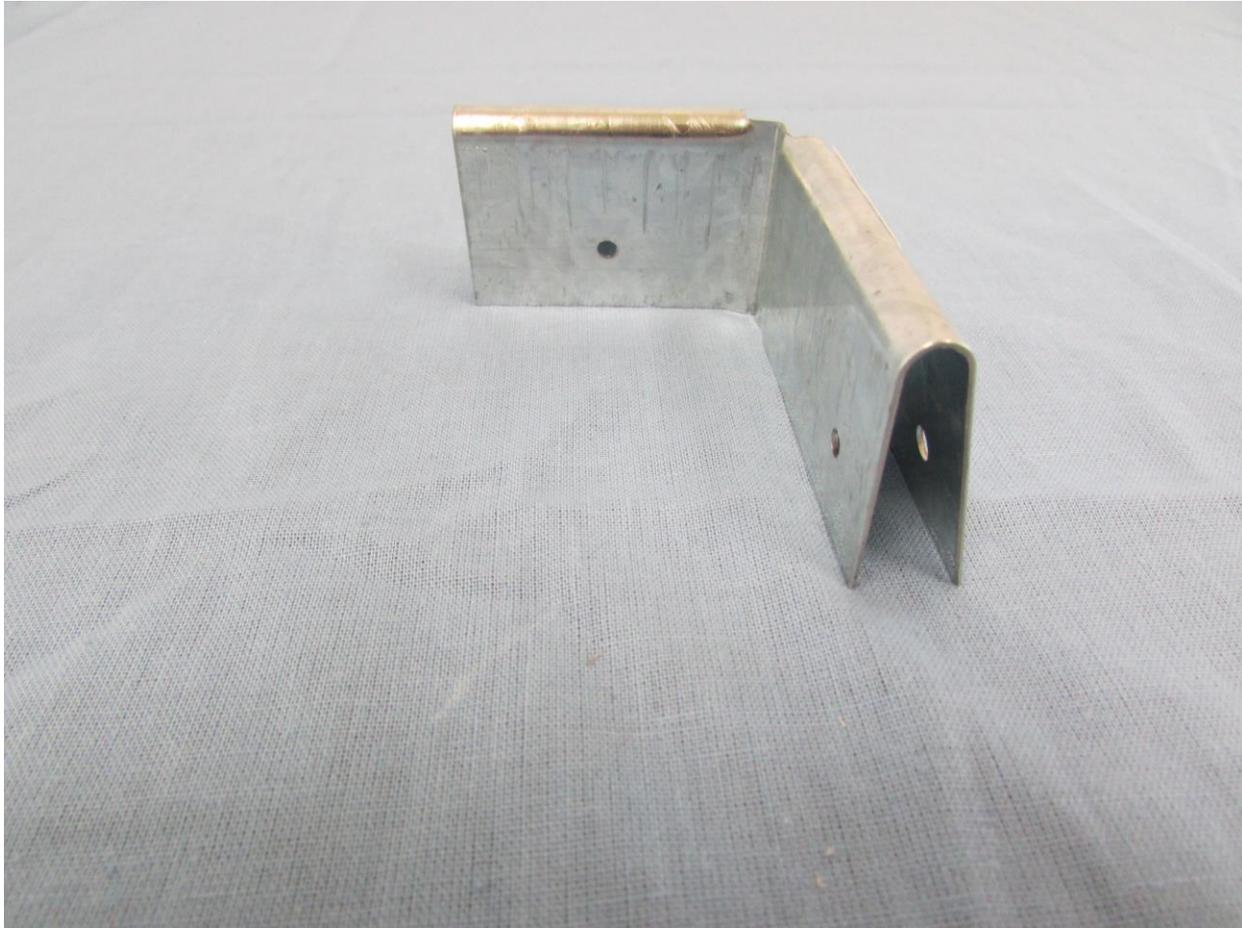
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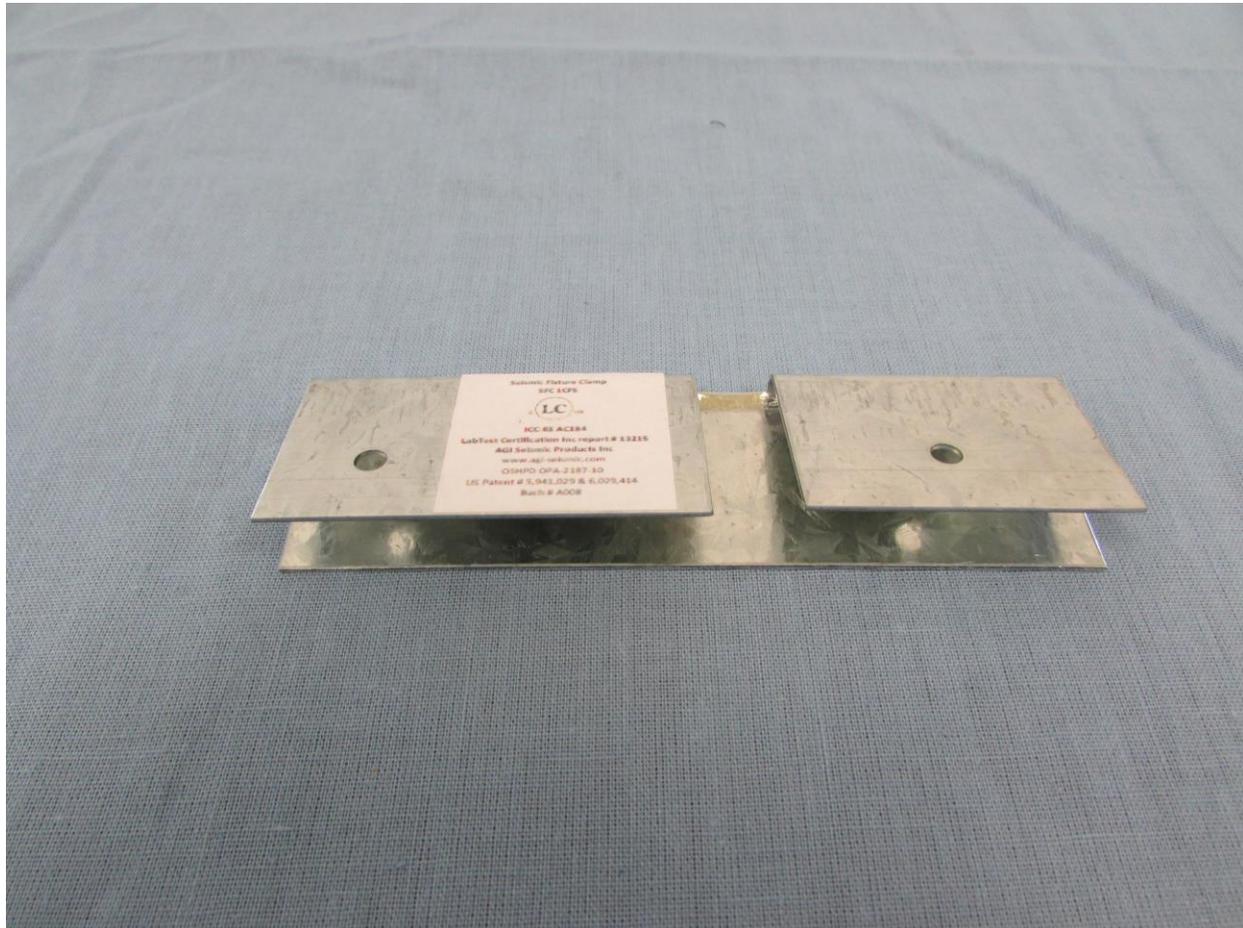
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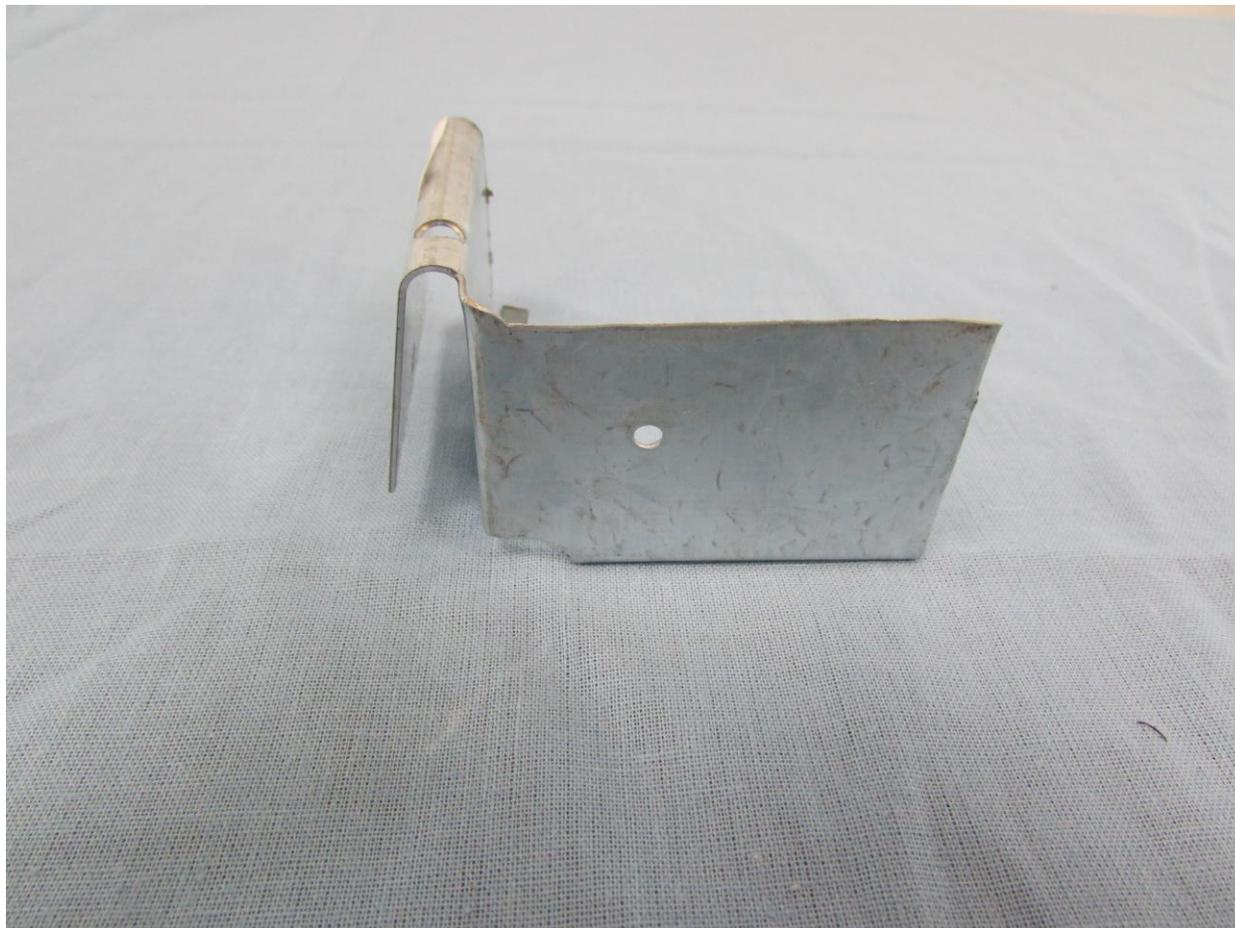
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April 13, 2016	13215	AGI Seismic Products Inc.	13215-1S	0



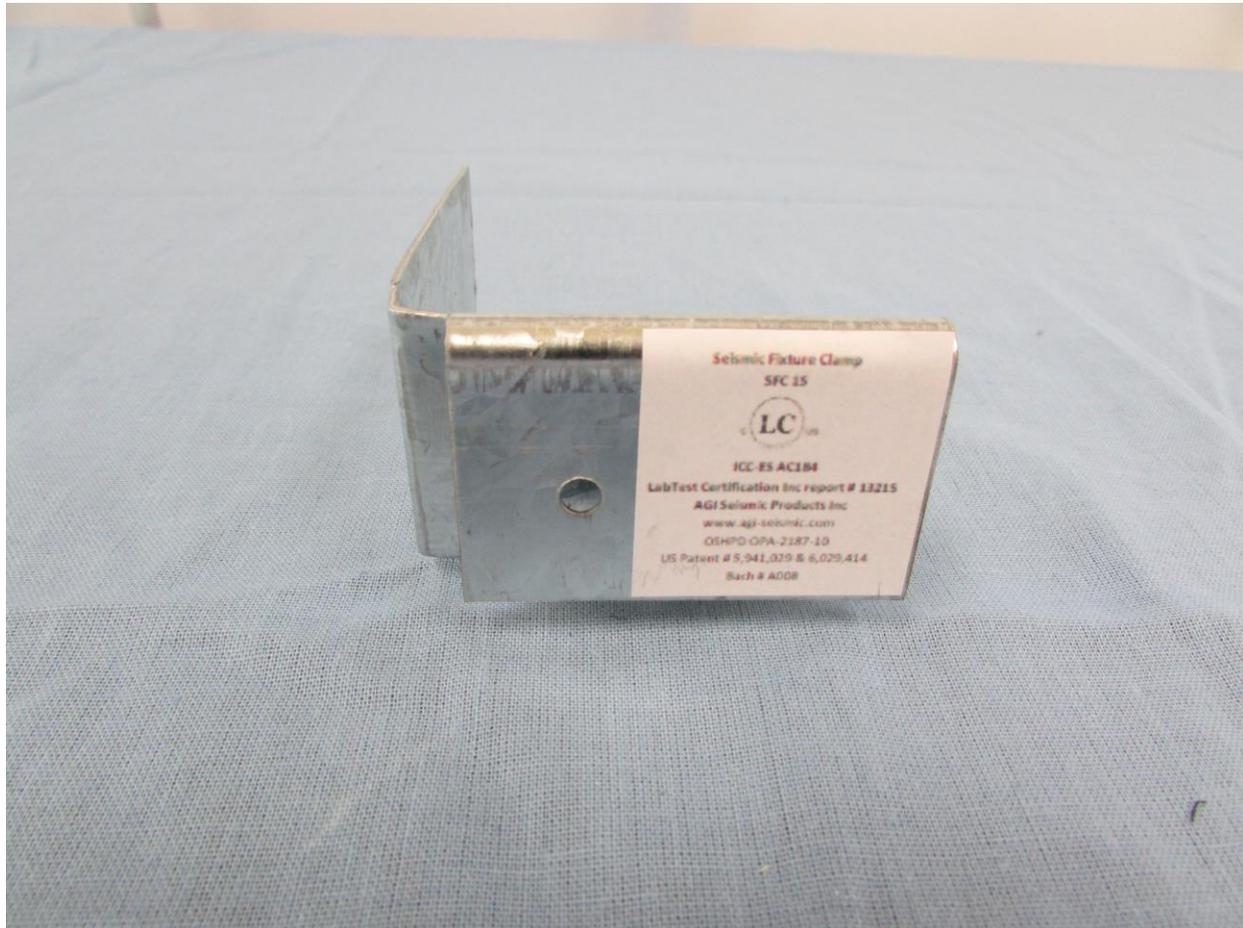
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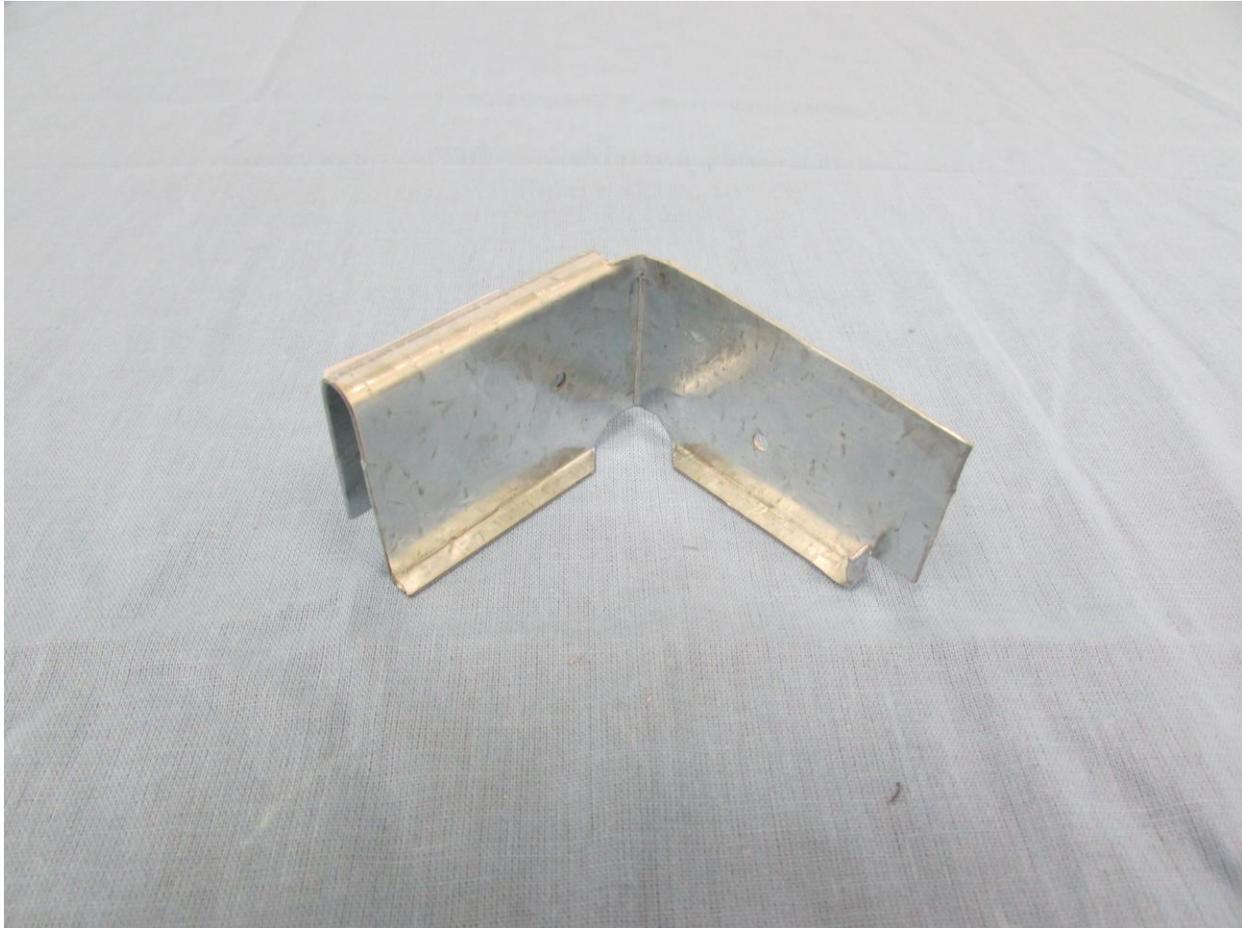
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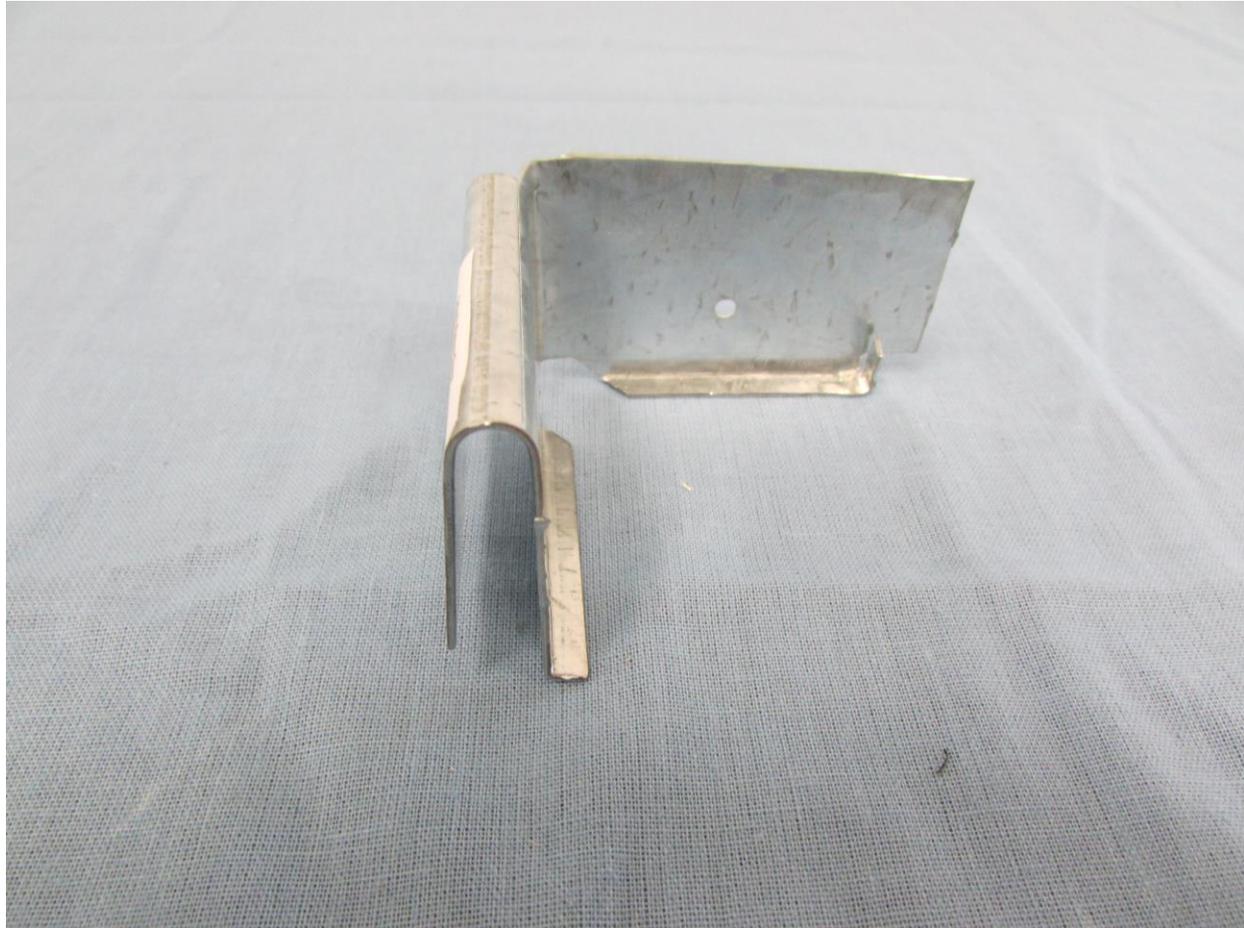
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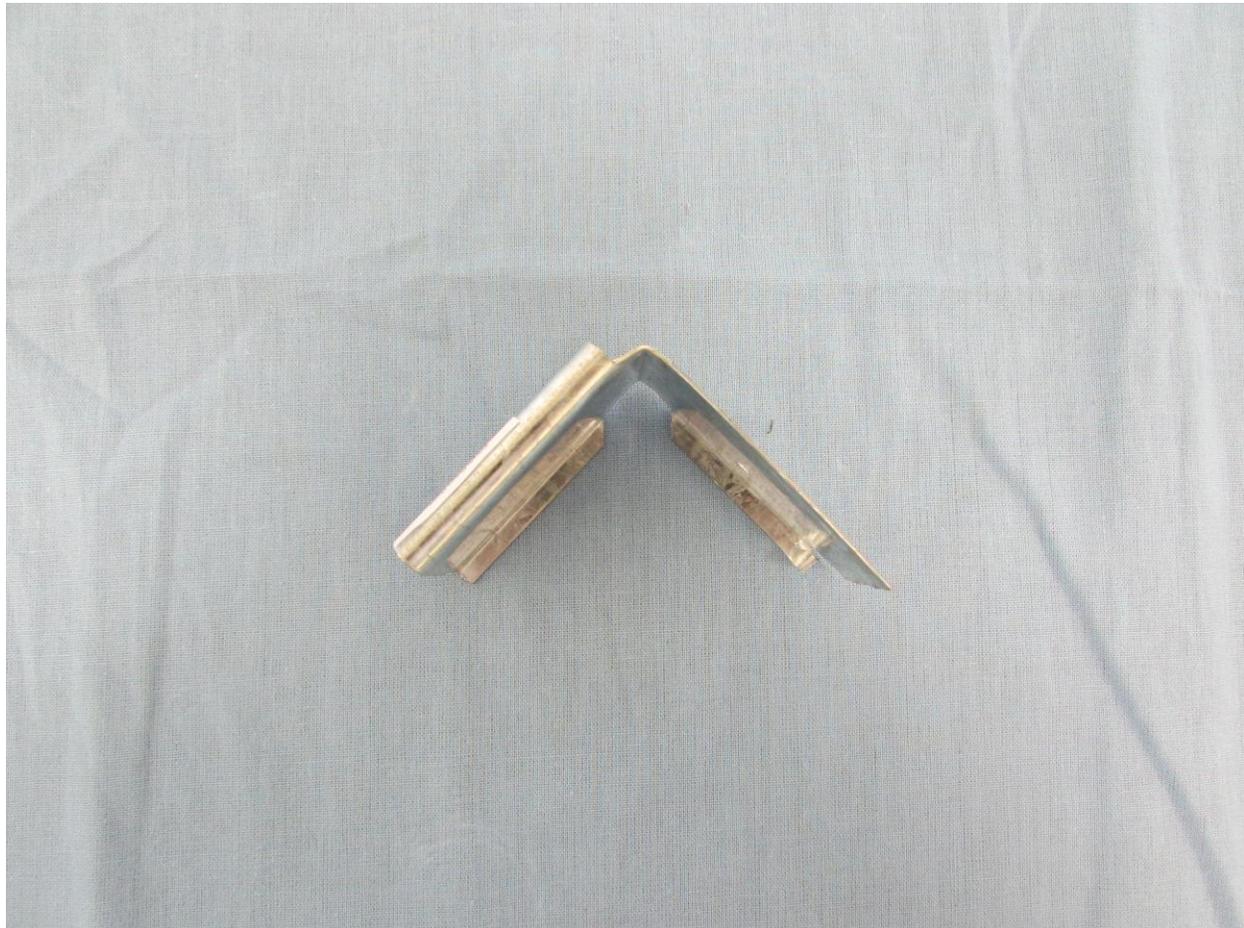
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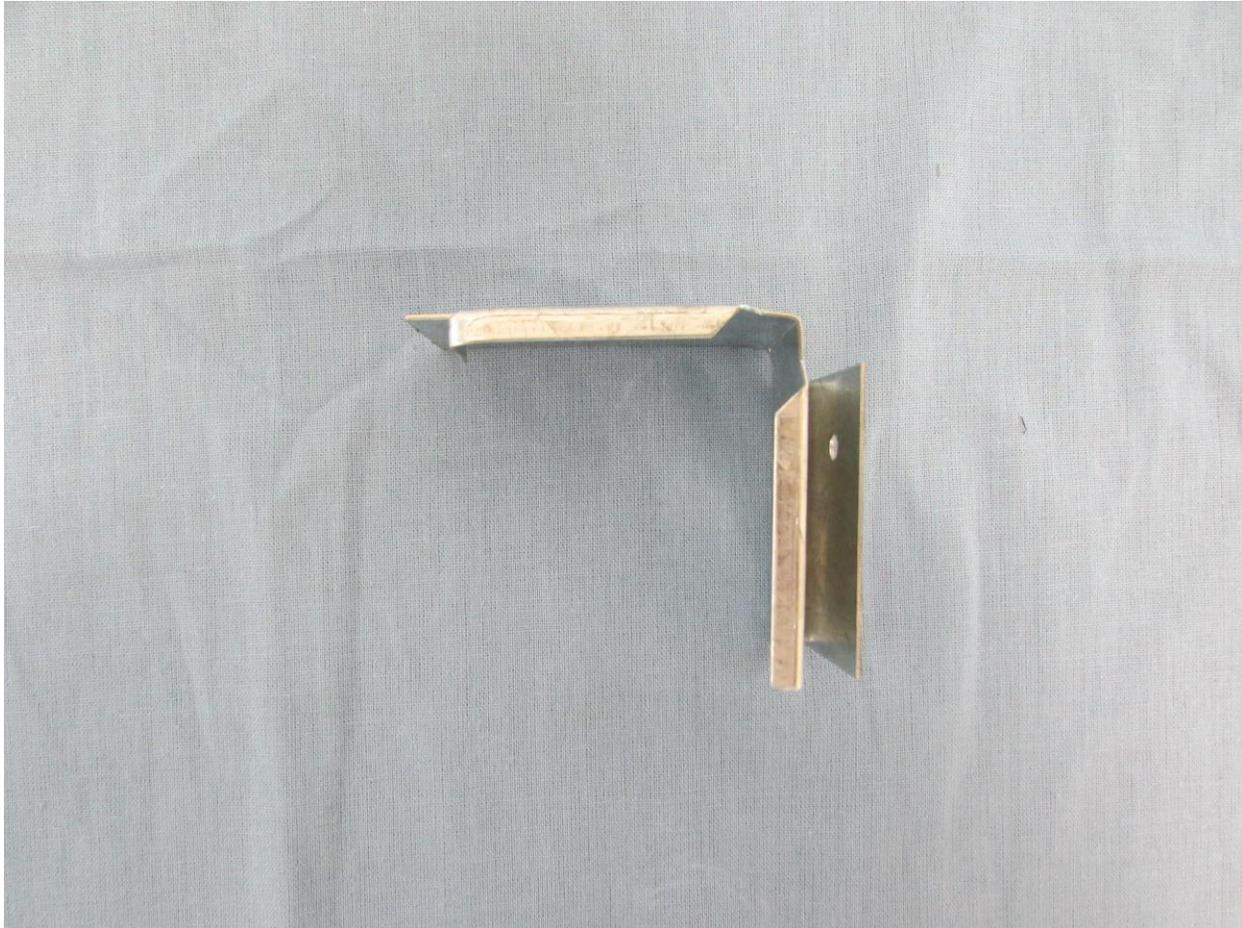
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Four Seismic Fixture Clamps attaching a tapered light fixture to main and cross runners as per Manufacturer's Instructions.

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FACTORY PRODUCTION TESTS

No Factory Tests Required

