



Document Title:

**Strut Channel Conduit Clamps – Hot Dip Galvanized**

Document Type:

**Equipment Specifications**

Document No.:

**4350.115**

Originating Department:

**Distribution Standards & Materials**

Version:

**1**

Effective Date:

**Aug 21, 2023**

Shared documents:  T&S  T&D  T&TM  D&TM  Luma Engineering

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**Aug 21, 2023**

**Document History**

Date	Revision Comments
Dec. 08, 2021	Initial Release
Aug. 18, 2023	Addition of item 038-85257. General revision of document.

Warehouse Catalog #	Version	Date
038-85257	1	08/18/2023
038-83137	2	08/18/2023
038-83138	2	08/18/2023
038-83139	2	08/18/2023
038-83140	2	08/18/2023
038-83141	2	08/18/2023

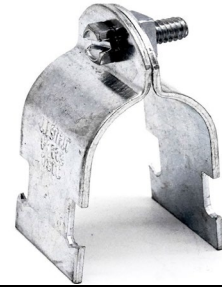


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### 1. Introduction

This is a general specification that covers the minimum requirements for stainless steel strut channel conduit clamps used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general mechanical characteristics of the material.

### 2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to LUMA on previous orders, will not have to furnish samples at bid opening. The equipment/material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

### 3. Literature

Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA Energy. Evidence of PREPA's and/or LUMA Energy's approval of the equipment/material shall be supplied by the vendor if requested by LUMA Energy.

### 4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Labels and tags shall be waterproof.

### 5. Equal or Approved Equal to

- 5.1. For compatible manufacturer and model see Table 1.
- 5.2. These models are examples of the equipment/material described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

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### **6. Packaging**

All equipment/material shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

### **7. Number Per Package (Logistics)**

- 7.1. As requested by LUMA Energy.
- 7.2. See Table 1 for standard package quantity.

### **8. Acceptance Criteria**

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
  - a. ASTM A36 - Standard specification for carbon structural steel.
  - b. ASTM A575- Standard specification for steel bars, carbon, merchant quality, M-Grades.
  - c. ASTM A576 - Standard specification for steel bars, carbon, hot-wrought, special quality.
  - d. ASTM A635/A635M – Standard specification for hot-rolled, heavy-thickness, and high-strength low-alloy with improved formability sheet and strip coils.
  - e. ASTM A1008/A1008M - Standard specification for steel, sheet, cold-rolled, carbon, structural, high-strength low-alloy, high-strength low-alloy with improved formability, required hardness, solution hardened, and bake hardenable.
  - f. ASTM A1011 SS GR 33 – Standard Specification for light gauge Hot-Rolled Sheet and Strip Carbon (CS and DS), Structural (SS), High-Strength Low-Alloy (HSLAS), High-Strength Low-Alloy with Improved Formability (HSLAS-F), and Ultra-High Strength (UHSS) steels in thicknesses up to 0.230" (6 mm) in coil form.
  - g. ASTM A123 or A153 – Standard specification for zinc coating (hot-dip) on iron and steel hardware.

### **9. Description**

- 9.1. Strut channel conduit clamps are designed for use in standard 1-5/8" channels at any point along the slot side of the channel and are inserted into the two channel returns to attached conduit perpendicular to strut beam.

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- 9.2. Used to attach conduit on riser support assembly.
- 9.3. They are made of hot dip galvanize steel.
- 9.4. Supplied with stainless steel nut and bolt.
- 9.5. For sizes and dimensions see Table 2.
- 9.6. Table 1: Gauge, Conduit Outside Diameter, Weight, and Units per Case

<b>Item Description</b>	<b>Ga.</b>	<b>Conduit Outside Diameter</b>	<b>Approx. Weight Per Unit</b>	<b>Units per Case</b>
1 in. strut channel conduit clamp, hot dip galvanized	14	1.315 in (3.34 cm)	0.18 lbs (0.82 kg)	100
2 in. strut channel conduit clamp, hot dip galvanized	12	2.375 in (6.03 cm)	0.36 lbs (0.16 kg)	50
3 in. strut channel conduit clamp, hot dip galvanized	12	3.50 in (8.89 cm)	0.50 lbs (0.23 kg)	25
4 in. strut channel conduit clamp, hot dip galvanized	11	4.50 in (11.43 cm)	0.71 lbs (0.32 kg)	25
6 in. strut channel conduit clamp, hot dip galvanized	10	6.625 in (16.83 cm)	1.08 lbs (0.49 kg)	25
8 in. strut channel conduit clamp, hot dip galvanized	10	8.625 in (21.91 cm)	1.38 lbs (0.63 kg)	25

## **10. Inspection**

The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such materials were found later to be defective.

## **11. Proposal Information**

- 11.1. Submitted proposals must include:
  - a. Technical information
  - b. Table of Compliance completed by the bidder with reference (see Appendix 1).

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### 12. Table 2: Warehouse and Asset Suite Identification

Item Description	Warehouse Catalog #	Asset Suite #	Suggested Manufacturer	Part #
1 in. strut channel conduit clamp, hot dip galvanized	038-85257	85257	Atkore-Unistrut Erico-nVent Caddy	P1113HG USC033HD
2 in. strut channel conduit clamp, hot dip galvanized	038-83137	83137	Atkore-Unistrut Erico-nVent Caddy	P1117HG USC060HD
3 in. strut channel conduit clamp, hot dip galvanized	038-83138	83138	Atkore-Unistrut Erico-nVent Caddy	P1119HG USC086HD
4 in. strut channel conduit clamp, hot dip galvanized	038-83139	83139	Atkore-Unistrut Erico-nVent Caddy	P1121HG USC113HD
6 in. strut channel conduit clamp, hot dip galvanized	038-83140	83140	Atkore-Unistrut Erico-nVent Caddy	P1124HG USC168HD
8 in. strut channel conduit clamp, hot dip galvanized	038-83141	83141	Atkore-Unistrut Erico-nVent Caddy	P1126HG USC218HD

— End of Specification —

**Equipment Specification**  
**Document No.:** 4350.115  
**Originating Department:** Distribution Engineering

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**Appendix**

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### **Appendix 1: Table of Compliance**

<b>Line</b>	<b>Criteria</b>	<b>Description</b>	<b>Pass/Fail (P / F)</b>	<b>Comments</b>
1	Specification	The Proponent complies with the corresponding specification document (4350.115).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM)		
3	Material	<ul style="list-style-type: none"><li>• Made of Hot Dip Galvanize Steel</li><li>• Supplied with stainless steel nut and bolt</li></ul>		
4	Dimensions	See Table 1: Gauge and Conduit Outside Diameter		
5	Weight	See Table 1: Approx. Weight per Unit		











# 4350.115 Strut channel conduit clamps HDG (08-18-2023)

Final Audit Report

2023-08-21

Created:	2023-08-18
By:	Rodolfo Flores (rodolfo.floresortiz@lumapr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAsIFd0qGXcxkBupiOz9vSWG725ZiPUVrZ

## "4350.115 Strut channel conduit clamps HDG (08-18-2023)" History

-  Document created by Rodolfo Flores (rodolfo.floresortiz@lumapr.com)  
2023-08-18 - 8:40:35 PM GMT
-  Document e-signed by Rodolfo Flores (rodolfo.floresortiz@lumapr.com)  
Signature Date: 2023-08-18 - 8:42:06 PM GMT - Time Source: server
-  Document emailed to Rafael Torres-Martinez (rafael.torresm@lumapr.com) for signature  
2023-08-18 - 8:42:07 PM GMT
-  Email viewed by Rafael Torres-Martinez (rafael.torresm@lumapr.com)  
2023-08-18 - 8:48:11 PM GMT
-  Document e-signed by Rafael Torres-Martinez (rafael.torresm@lumapr.com)  
Signature Date: 2023-08-18 - 8:48:34 PM GMT - Time Source: server
-  Document emailed to ricardo.castro@lumapr.com for signature  
2023-08-18 - 8:48:35 PM GMT
-  Email viewed by ricardo.castro@lumapr.com  
2023-08-21 - 7:22:52 PM GMT
-  Signer ricardo.castro@lumapr.com entered name at signing as Ricardo Castro Gómez  
2023-08-21 - 7:23:30 PM GMT
-  Document e-signed by Ricardo Castro Gómez (ricardo.castro@lumapr.com)  
Signature Date: 2023-08-21 - 7:23:32 PM GMT - Time Source: server
-  Agreement completed.  
2023-08-21 - 7:23:32 PM GMT