



Document Title:
1-5/8 In (4.13 cm) 12 Gauge Half Slotted Strut Channel Hot Dip Galvanized

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Material Specifications

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Equipment Specification
Document No.: 4350.105
Item No.: 038-83135
Asset Suite: 83135
Originating Department: Distribution Engineering



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1. Introduction

This is a general specification that covers the minimum requirements for hot dip galvanized 1-5/8" (4.13 cm) 12-gauge half slotted strut channel 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 material to LUMA on previous orders, will not have to furnish samples at bid opening. The 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. Quantity/Literature

Descriptive and technical literature must be supplied by 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. Evidence of LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

4. Markings

- 4.1. Bundles 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

Atkore Unistrut P1000T HG

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6. Packaging

All material and equipment 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. Single length (10 Ft (3.048M) or 20 Ft (6.1M))
- 7.3. Bundle 500 Ft (fifty (50) pieces of 10 Ft)
- 7.4. Bundle 1,000 Ft (fifty (50) pieces of 20 Ft)
- 7.5. Product Weight: 1.961 lbs/ft

8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
 - a. ASTM A1011 SS GR 33 – Material (steel)
 - b. ASTM A123 – Finish (hot dip galvanized). Zinc coating thickness shall be G65 (2.6 mils = 1.50 oz./ sq. ft. surface area).

9. Description

- 9.1. Shall be a metal framing slotted strut channel with dimensions:
 - a. 1-5/8" (4.13 cm) wide x 1-5/8" (4.13 cm) high x 12 gauge.
 - b. 0.555in² section area
- 9.2. Slots dimensions are:
 - a. 1-1/8" (28.58 mm) X 9/16" (14.29 mm) sized for a 1/2" (4.13 cm) ϕ Threaded Rod or Fastener.
 - b. Slot spacing is 2" (5.08 cm) center to center.
- 9.3. Standard Lengths: 10 Ft (3.048M) or 20 Ft (6.1M) with a tolerance of +/- 1/8" (3.175 mm).
- 9.4. Weight: 1.961 lbs/ft
- 9.5. Used to attach conduit clamps on riser support assembly.

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- 9.6. Must be cut to size for installation.
- 9.7. Channel cuts must be protected against corrosion with approved zinc rich paint.
- 9.8. Material: Hot dip galvanized low carbon steel.

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)

— End of Specification —

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Appendix

Equipment Specification

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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.105).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM)		
3	Material	Hot Dip Galvanized Low Carbon Steel		
4	Product Requirements	<ul style="list-style-type: none">• Metal framing slotted strut channel• Weight: 1.961 lbs/ft• Gauge: 12		
5	Dimensions	<ul style="list-style-type: none">• Channel: 1-5/8" wide x 1-5/8" high x 10' or 20' long (tolerance of +/- 1/8")• Slots: 1-1/8" X 9/16" (2" spacing center to center) sized for a 1/2" ϕ Threaded Rod or Fastener		











4350.105 Strut channel 1 5-8in galvanized steel 12GA half sloted (12-16-2022)


Final Audit Report

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