



Document Title:  
**1-5/8 In (4.13 cm) 12 Gauge Half Slotted Strut Channel Stainless Steel**

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**Related/Referenced Documents**

N/A

**Version History**

Version	Date	Revision Comments
1	Dic. 7, 2021	Initial Release
2	May. 13, 2022	Sections 3, 4, and 7 modified. TOC Added
3	Dec. 16, 2022	Cover Page added
4	Jul. 19, 2024	Format corrections, TOC update, Section 4 modified, Engineers license number was added, and sections order rearranged.



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## Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
038-83136	83136	4	7/19/2024



## 1. Introduction

This is a general specification that covers the minimum requirements for 1-5/8 In (4.13 cm) 12 Gauge Half Slotted Strut Channel Stainless Steel to be 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 electrical and mechanical characteristics of the equipment/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. If required by LUMA, final drawings shall be submitted by the vendor before the manufacturing and shipping process for approval.

## 4. Compatible with

For compatible manufacturer and model see Table 1. 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.

## 5. Markings

- 5.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 5.2. Packaging labels and tags shall be waterproof.

## 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. 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: 1.76 lbs/ft

## 8. Acceptance Criteria

- 8.1. Test required: certified by external qualified laboratories.
- 8.2. Product shall be manufactured in accordance with the latest issue below (section 8.3). When conflicts occur between purchaser's specifications and the latest issue below, the purchaser's specification shall prevail.
- 8.3. Latest applicable codes, standards, and other regulations:
  - a. ASTM A480/A480M – Specification for general requirements for flat-rolled stainless and heat-resisting steel plate, sheet, and strip.
  - b. ASTM A240 – Standard specification for chromium, chromium-nickel, and chromium-manganese-nickel stainless steel plate, sheet, and strip for pressure vessels and for general applications.
  - c. ASTM A380/A380M – Standard practice for cleaning, descaling, and passivation of stainless-steel parts, equipment, and systems.
- 8.4. If any other standard different from the ones indicated in this document are used, the supplier must provide information showing compatibility with the required ones.

## 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. 0.555in<sup>2</sup> 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)  $\phi$  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: 1.76 lbs/ft
- 9.5. Used to attach conduit clamps on riser support assembly.
- 9.6. Must be cut to size for installation.
- 9.7. Material: Stainless steel 304

**9.8. Inspection**

The acceptance of any equipment/material 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 equipment/materials were found later to be defective.

**10. Proposal Information**

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

**11. Table 1: Warehouse and Asset Suite Identification Number**

Warehouse Catalog #	Asset Suite #	Compatible Manufacturer	Part #
038-83136	83136	Fastenal	#46603
		Atkore	# P1000T SS

— End of Specification —



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## Appendix



## Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P / F)	Comments
1	The Proponent complies with the corresponding specification document (4350.106).		
2	The Proponent complies with the industry standards established in the specification document (ANSI/ASTM).		
3	Tech. info., tests & drawings provided.		
4	Stainless Steel 304		
5	<ul style="list-style-type: none"><li>• Metal framing slotted strut channel</li><li>• Weight: 1.76 lbs/ft</li><li>• Gauge: 12</li></ul>		
6	<ul style="list-style-type: none"><li>• Channel: 1-5/8" wide x 1-5/8" high x 10' or 20' long (tolerance of +/- 1/8")</li><li>• Slots: 1-1/8" X 9/16" (2" spacing center to center) sized for a 1/2" <math>\phi</math> Threaded Rod or Fastener</li></ul>		

**NOTE: This table is only a check list for reference. The compliance shall be with the complete document. Marking a PASS in the table won't be accepted as a compliance without the technical information required to certify it.**











# 4350.106 Strut Channel 1 5-8 in Stainless Steel July 2024)

Final Audit Report

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