



Document Title:  
**Aluminum Angle for I-String Conductor Jumper Support**

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**Specification**

Engineering Type  
**Material Specification**

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**4752.311**

Department:

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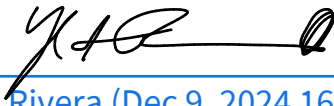
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**Management Approval (If apply)**

**Approver**

N/A  
 N/A

Signature and Date

**Related/Referenced Documents**

Version	Date	Revision
00	Feb 24, 2023	First Issue
01	Dec 9, 2024	Changed cover page and document to new format. Modified sections 4 and 7. Included a table of compliance. Compatible with section was added.

## **1. General**

### **1.1. Overview**

- 1.1.1. This specification covers the minimum electrical and mechanical requirements for an Aluminum Angle used in the transmission system in Puerto Rico.
- 1.1.2. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site conditions, quantity, and other requirements.

## **2. Specific Name**

- 2.1. Aluminum Angle for I-String Conductor Jumper Support

## **3. Basic Use**

- 3.1. Aluminum angle is used as I-String conductor jumper support in Type 3 Guyed Lattice Aluminum Towers in the transmission system in Puerto Rico.

## **4. Specific Requirements**

- 4.1. Samples shall be furnished to LUMA.
- 4.2. LUMA requires One (1) unit properly labeled for testing and analysis.
- 4.3. Descriptive and technical literature shall be supplied to LUMA.

## **5. Acceptance Criteria**

- 5.1. Latest applicable codes, standards, and other regulations: ANSI/ASTM.
- 5.2. Test required: certified by external laboratories

## **6. Description**

- 6.1. Aluminum angle structural shapes shall be aluminum alloy 6061-T6 conforming to ASTM B308 and/or ASTM B221.
- 6.2. All sharp edges shall be avoided to have smooth surfaces.
- 6.3. Metric conversions as per the latest applicable ASTM Standard.

## **7. Markings and Packaging**

- 7.1. Container shall be marked outside with LUMA purchase order number and code number.
- 7.2. 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.

## **8. Compatible with:**

- 8.1. LUMA will evaluate equally any model not listed here during any acquisition event.

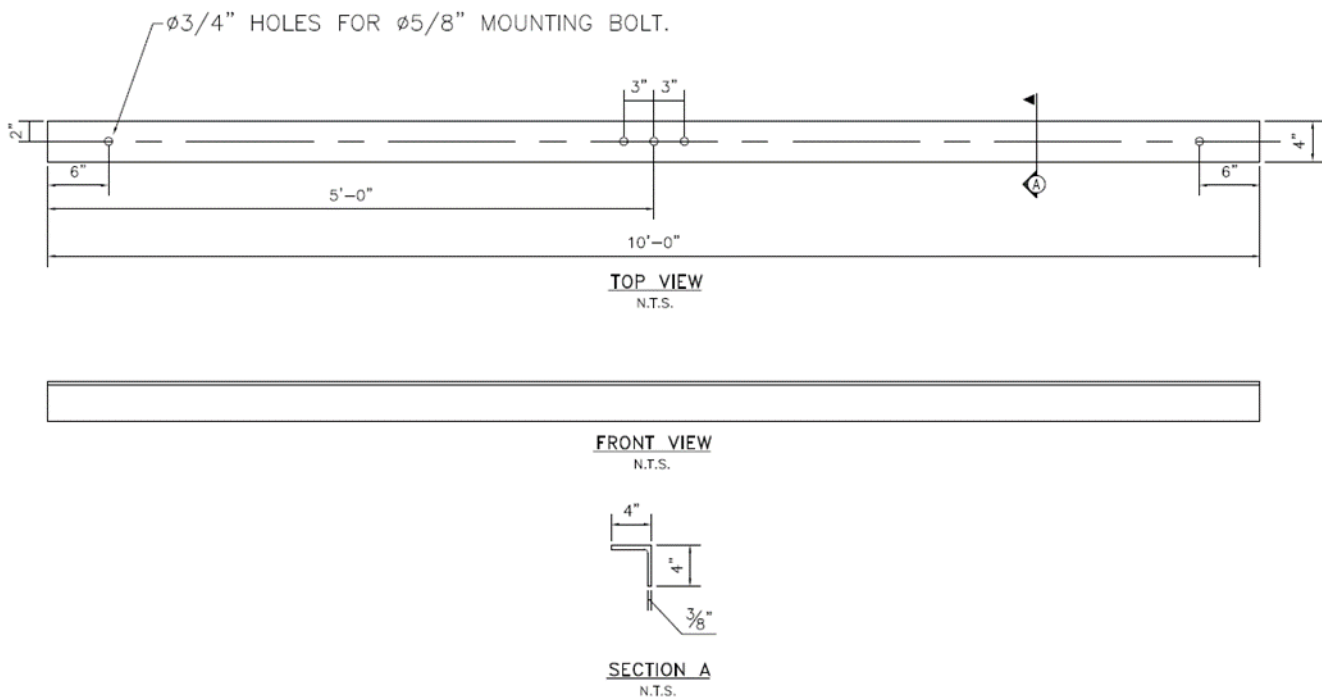
**9. Proposal Information**

- 9.1. Submitted proposals must include:
- a. Technical Information
  - b. Table of Compliance completed by the bidder with reference

**10. Inspection**

- 10.1. 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 shall not prevent subsequent rejection if such material is found to be defective later

**11. Drawings**



Warehouse ID	002-84303
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— End of Specification —

## Appendix

Appendix 1. Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4752.311)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (ANSI, ASTM)		
3	Material	Aluminum Angle for I-String Conductor Jumper Support		
4	Dimensions	Complies with measurements on the drawing.		
5	Requirements	<ul style="list-style-type: none"> <li>• Samples shall be furnished to LUMA.</li> <li>• LUMA requires One (1) unit properly labeled for testing and analysis.</li> <li>• Descriptive and technical literature shall be supplied to LUMA.</li> <li>• Required to be certified by external laboratories.</li> <li>• All sharp edges shall be avoided to have smooth surfaces.</li> </ul>		











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Final Audit Report

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