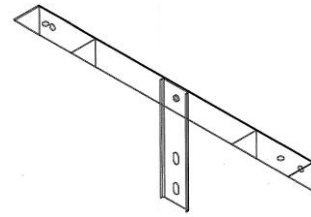




**Equipment Specification**  
**Document No.:** 4350.095  
**Item No.:** 008-0391  
**Asset Suite:** 27507  
**Originating Department:** Distribution Engineering



## **42 in (1.07 m) Stainless Steel Crossarm**

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### **1. Introduction**

This is a general specification that covers the minimum requirements for a 42 inches long stainless steel crossarm 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 material.

### **2. Special Requirements**

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to PREPA / 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. 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**

To be determined.



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## **42 in (1.07 m) Stainless Steel Crossarm**

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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. Fifty (50) units per bundle.

### **8. Acceptance Criteria**

8.1. Test required: certified by external laboratories.

8.2. Latest applicable codes, standards, and other regulations:

- a. ANSI/ASTM
- b. AISI (AMERICAN IRON AND STEEL INSTITUTE)

### **9. Description**

9.1. 42 in (1.07 m) long stainless-steel angle crossarm.

9.2. Stainless steel structure consisting of one 4 in (10.16 cm) X 1/4 in (0.635 cm) X 42 in (106.7 cm) angle and one 4 in (10.16 cm) X 1/4 in (0.635 cm) X 12 in (30.48 cm) straight welded together at the center and flat of one of the angle sides.

9.3. The 42 in. (106.68 cm) long stainless steel angle crossarm shall have a 0.141 in. (0.357 cm) triangular stainless steel reinforcement at both ends and at 10-1/2 in. (26.67 cm) from the ends.

9.4. All steel parts shall be stainless steel grade A as per ANSI/ASTM A666 and as per AISI type 304 stainless steel.

9.5. Crossarm shall support a total horizontal load of 2,000 lbf (8.90 KN) and 600 lbf (2.67 KN) minimum load in cantilever on each arm without any damage or deformation.

9.6. All welding shall be performed in a continuous pattern using E 308L-16 AC/DC eutectic electrode 1/8 in. (0.3175 cm) with 83,000 PSI tensile strength. Electrode shall meet AWS – A5.4-81.



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- 9.7. All sharp edges shall be avoided to have smooth trims and surfaces all around the crossarm.
- 9.8. Each crossarm shall be permanently labeled or stamped with the manufacture nameplate and with “LUMA Energy” name.

### **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.

— End of Specification —

### **Document History**

<b>Version</b>	2	
<b>Date</b>	12/23/2021	
<b>Author</b>	Alex J. Rodríguez Rodríguez	
<b>Reviewer</b>	Rafael Torres	
<b>Approver Manager</b>	Ricardo Castro	