



**Equipment Specification**

Document No.: 4350.137

Item No.: 002-13900

Originating Department: Distribution Engineering



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**U-Bolt, 1-1/4" X 5-1/4"**

**1. Introduction**

This is a general specification that covers the minimum requirements for the U bolt 1-1/4" X 5-1/4" galvanized with hex nuts 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 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 PREPA's and/or 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 purchase order and item number.
- 4.2. Packaging labels and tags shall be waterproof.

**5. Equal or Approved Equal to**

Hubbell.



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**6. Packaging**

The equipment shall be packed with nuts already assembled. 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)**

Fifty (50) per carton or as requested by LUMA.

**8. Acceptance Criteria**

8.1. Test required: certified by external laboratories.

8.2. Latest applicable codes, standards, and other regulations: ASTM (A153)-ASTM (E380)

**9. Description**

9.1. Hot-dip galvanized U-bolt with hex nuts.

9.2. Dimensions:

a. Diameter: 1-1/4" (3.175 cm)

b. Length: 17" (43.18 cm)

c. Center-to-center separation: 5-1/4" (13.335 cm)

d. Minimum thread: 3" (7.62 cm)

9.3. Shall be provided with two (2) hex nuts of appropriate size.

9.4. All parts shall be hot-dip galvanized as per ANSI/ASTM A-153

**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 —



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**Document History**

<b>Version</b>	1, (2)
<b>Date</b>	4/13/2022
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## **Appendix**



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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 (4350.137)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ASTM/ANSI)		
3	Description	Hot-dip galvanized U-bolt with hex nuts.		
4	Dimensions	Diameter: 1-1/4" (3.175 cm) Length: 17" (43.18 cm) Center-to-center separation: 5-1/4" (13.335 cm) Minimum thread: 3" (7.62 cm) Shall be provided with two (2) hex nuts of appropriate size.		
5	Material	All parts shall be hot-dip galvanized as per ANSI/ASTM A-153.		