



Document Title:
Hot Dip Galvanized Hexagonal Nut

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Department
Distribution

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Related/Referenced Documents

N/A

Version History

Version	Date	Revision Comments
1	Dec. 08, 2021	Initial release.
2	Jun. 14, 2022	Table of compliance (TOC) added and signature format modified.
3	Sep. 06, 2024	General format modifications, TOC updated, Section 4 modified, and sections order rearranged.



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Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
002-82928	82928	3	09/06/2024



1. Introduction

This is a general specification that covers the minimum requirements for hot dip galvanized hexagonal nut 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 manufacturers and models, see Table 1. These models are examples of the equipment/materials described in this document and do not represent a preference. LUMA will evaluate equally any models 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. Package(s) to be delivered at warehouse shall be clearly marked with manufacturer and item information (part number, serial number, quantity, etc.).
- 5.3. Packaging labels and tags shall be waterproof.
- 5.4. Each item must be marked with the manufacturer's identification number on the upper portion of the hub.

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)

Standard package: As per Table 1 or as requested by LUMA Energy.

8. Acceptance Criteria

- 8.1. Test required: certified by external 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. ASME B18.2.2: Standard for the complete general and dimensional data for the various types of inch series square and hex nuts, including machine screw nuts and coupling nuts.
 - b. ASTM A153/A153M or ASTM F2329/F2329M: Standard specification for zinc coating (hot dip) on iron and steel hardware.
 - c. ASTM A563/A563M: Standard specification for carbon and alloy steel nuts (inch and metric).
- 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. These type of nuts are to be used to attach strut channel on riser support assembly.
- 9.2. Shall be hexagonal shape.
- 9.3. The material shall be carbon steel as per ASTM A563.
- 9.4. The finish shall be hot dip galvanized as per ASTM A153. ASTM F2329 shall be accepted as well.
- 9.5. See Table 1 for dimensions. Dimensions as per ASTM B18.2.2.

10. 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.



11. Proposal Information

11.1. Submitted proposals must include:

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

12. Table 1: Warehouse and Asset Suite Identification Number

Warehouse Catalog #	Asset Suite #	Inner Dia. & TPI	Thickness	Wrench Size	Nuts / Package	Compatible Manufacturer & Model
002-82928	82928	1/2" - 13 (1.27 cm)	0.437" (1.11 cm)	3/4" (1.90 cm)	25	Fastenal (1136709)

— End of Specification —



Appendix



Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P / F)	Comments
1	Complies with the specification document 4350.113.		
2	Industry Standards: ASME B18.2.2, ASTM (A153, A563).		
3	Tech. info., tests & drawings provided.		
4	Hexagonal Shape		
5	Carbon Steel as per ASTM 563.		
6	HDG as per ASTM A153.		
7	Inner Dia. & TPI as per Table 1.		
8	Thickness as per Table 1.		
9	Wrench Size as per Table 1.		

NOTE: This table is only a checklist 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.











4350.113 HDG Hex Nut 1-2in (9-6-24)

Final Audit Report

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