



Document Title:
Chain Link 80,000 lbs

Document Type:
Specification

Engineering Type
Material Specification

Document No.:
4752.325

Department:

Version:
01


Effective Date:
Dec 19, 2024

**Transmission
Engineering**

Shared document with: N/A

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Guillermo Nieves (Dec 6, 2024 16:27 AST)

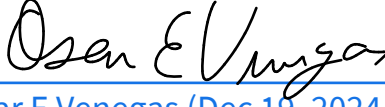
Reviewer 1

Leonardo Montes Sánchez
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Standards


Leonardo Montes Sanchez (Dec 9, 2024 16:12 AST)

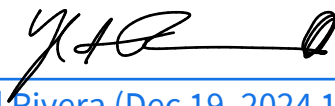
Reviewer 2

Oscar Venegas
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Oscar E Venegas (Dec 19, 2024 14:16 AST)

Approver

Yamil I. Rivera Hernández
Section Manager, Transmission Lines Engineering
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Yamil Rivera (Dec 19, 2024 14:23 AST)

Management Approval (If apply)

Approver

Name
Position

Signature and Date

Related/Referenced Documents

| Version | Date | Revision Comments |
|---------|--------------|--|
| 00 | May 30, 2023 | First Issue |
| 01 | Dec 19, 2024 | Changed cover page and document to new format. Modified sections 4 and 7. Added a table of compliance and Proposal Information. Changed Equal or approved equal to Compatible with and was modified. |
| | | |

1. General

1.1. Overview

- 1.1.1. This is a general specification that covers the minimum requirements for a Chain Link 80,000 lbs to be 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.
- 1.1.3. This document includes the general electrical and mechanical characteristics of the material.

2. Specific Name

- 2.1. Chain Link 80,000 lbs.

3. Basic Use

- 3.1. For attaching high capacity deadend conductor support assembly on overhead transmission lines that require heavy tensions.

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.
- 4.4. They shall be required to show evidence of LUMA's approval of the equipment.

5. Acceptance Criteria

- 5.1. Latest applicable codes, standards, and other regulations: ANSI/ASTM.

6. Description

- 6.1. Chain link used as connection between anchor shackles for high capacity deadend assemblies.
- 6.2. Material shall be galvanized steel.
- 6.3. Shall be hot-dip galvanized in accordance with ANSI/ASTM A153.
- 6.4. Metric conversion as per latest ASTM.

7. Markings and Packaging

- 7.1. Containers/pallets or package shall be marked outside with LUMA'S purchase order number and code number.
- 7.2. Vendor shall prepare material and equipment for shipment in such manner as to facilitate handling and protection for damage.

7.3. All material should be packaged and marked in such a way that the receiving warehouse can readily identify and send in one (1) complete unit to a field location without opening crates or boxes to sort items and / or parts.

7.4. Number per package: As approved by LUMA

8. Compatible with

8.1. Hubble Power Systems catalog No. LK80

8.2. MacLean Power Systems catalog No. CI-8

8.3. These models are an example 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.

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

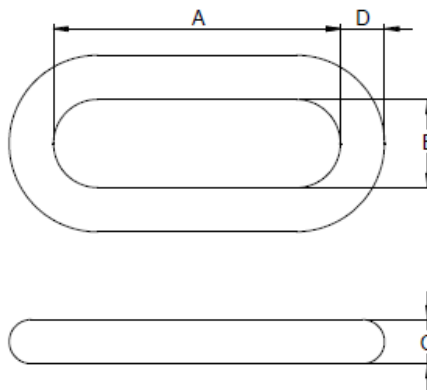


Table 1: Dimensions

| A Min. | B Min. | C Min. | D Min. |
|--------|--------|--------|--------|
| 4" | 1.25" | 0.875" | 0.875" |

| | |
|--------------|-----------|
| Warehouse ID | 002-84813 |
|--------------|-----------|

— 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 (4752.325) | | |
| 2 | Industry Standards | The Proponent complies with the industry standards established in the specification document (ANSI, ASTM) | | |
| 3 | Material | Chain Link 80,000 lbs. <ul style="list-style-type: none"> • Material shall be galvanized steel. • Shall be hot-dip galvanized in accordance with ANSI/ASTM A153. | | |
| 4 | Dimensions | Complies with Table 1 | | |
| 5 | Requirements | <ul style="list-style-type: none"> • Samples shall be furnished to LUMA. • LUMA requires One (1) unit properly labeled for testing and analysis. • Descriptive and technical literature shall be supplied to LUMA. • They shall be required to show evidence of LUMA’s approval of the equipment. • Required to be certified by external laboratories | | |












4752.325 Chain Link 80,000 lbs

Final Audit Report

2024-12-19

| | |
|-----------------|--|
| Created: | 2024-12-06 |
| By: | Guillermo Nieves (guillermoj.nievesdia@lumapr.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAsJhyezM2AGJmfYSWzV6zggLJJv4eLywi |

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2024-12-06 - 8:26:40 PM GMT
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2024-12-06 - 8:27:57 PM GMT
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2024-12-19 - 6:15:58 PM GMT
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Signature Date: 2024-12-19 - 6:16:00 PM GMT - Time Source: server- Signature captured from device with phone number XXXXXXXX2079
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2024-12-19 - 6:16:02 PM GMT
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2024-12-19 - 6:22:41 PM GMT
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