



Document Title:

# Fixing Band and Buckles for the Distribution System

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<b>Approver</b> Ricardo Castro Gómez, PE Manager, Distribution Standards & Materials	Signature and Date  Jul 24, 2023

## Document History

Date	Revision Comments
Sep. 27, 2021	Initial Release.
Nov. 04, 2021	General format corrections.
Dec. 15, 2021	Description for fixing band modified. Installation tool added.
Mar. 24, 2022	Section 3, 4, 7 modified.
Apr. 13, 2022	Table of Compliance (TOC) added.
Dec. 12, 2022	Cover page added. Banding bracket added (107-83908).
Feb. 21, 2023	Catalog number for Installation Tool added (107-84298). General Format and TOC modifications
Jul. 20, 2023	Cover page modifications. Document changed as shared between T&D for all the Items. general format modifications.

Items	Warehouse Catalog	Item Version	Date
1	107-04344	8	7/20/2023
2	107-03031	8	7/20/2023
3	107-83908	3	7/20/2023
4	107-84298	2	7/20/2023



Equipment Specification  
Document No.: 4350.038  
Originating Department: Distribution Engineering

## Fixing Band and Buckles for the Distribution System



### 1. Introduction

This is a general specification that covers the minimum requirements for a stainless-steel band, buckles, bracket, and installation tool to be used in the distribution and transmission 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 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. 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/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. Packaging labels and tags shall be waterproof.

### 5. Compatible with

- 5.1. Almetek Industries, Inc.; Tech Products, Inc.; and Band-It.
- 5.2. These models are examples 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.

## Fixing Band and Buckles for the Distribution System

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### 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)

- 7.1. Band: One dispenser box containing a 100' or 200' (30.48 or 60.96 m) band roll or as requested by LUMA.
- 7.2. Buckles: One Hundred (100) units per box or as requested by LUMA.
- 7.3. Brackets: Twenty-Five (25) units per box or as requested by LUMA.
- 7.4. Installation Tool: One (1) unit per package or as requested by LUMA.

### 8. Acceptance Criteria

- 8.1. Test required: certified by external qualified laboratories.
- 8.2. Latest applicable codes, standards, and other regulations: ANSI/ASTM, IEEE.

### 9. Description

- 9.1. This band is used to fix a numbering aluminum plate to any pole.
- 9.2. The band material shall be stainless-steel 304 minimum, for a 25 year life or more.
- 9.3. Dimensions: 0.030" or 0.025" (0.76 or 0.64 mm) thick X 0.750" (19.05 mm) width, supplied on 100' or 200' (30.48 or 60.96 m) long rolls.
- 9.4. Buckles: Used to tie-up the band to the pole. The buckles shall be 0.025" (0.63 mm) thick on stainless-steel 304 minimum or aluminum. Shall be suitable for bands described in section 9.3.
- 9.5. Banding Bracket: Used to secure attachment of fixing band to equipment. Description of this bracket as follow:
  - a. The material shall be stainless steel.
  - b. Shall fit 3/4" (1.9 cm) wide fixing bands.
  - c. Shall be furnish with a 5/16" (0.8 cm) screw and washer on the backside of the bracket.
  - d. Approximate dimensions on the backside of the bracket shall be 1.5" X 1.7" and 1" depth (3.8 X 4.3 X 2.5 cm).

## Fixing Band and Buckles for the Distribution System

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- 9.6. Installation Tool: Should be compatible with “Almetek BT-1 or Band-IT C00169 banding tool”. Description for this tool as follow:
- a. Shall accept 3/16” to 3/4” (4.76 to 19.05 mm) wide stainless-steel band.
  - b. Shall have built-in cutter for stainless-steel band.
  - c. Shall have a spring-loaded gripper lever to improve ease of use.
  - d. Shall be epoxy powder coated finish to resist corrosive elements.
  - e. Tension capacity: about 2,400 lbs. (10.67 kN).

### 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. Table 1: Warehouse and Asset Suite Identification Number

ITEMS	WAREHOUSE CATALOG #	ASSET SUITE #
*Fixing Band	107-04344	14486
*Buckles	107-03031	08023
*Brackets	107-83908	83908
*Tool	107-84298	84298

\*These items are also used in the 38kV transmission system

### 12. Proposal Information

- 12.1. Submitted proposals must include:
- a. Technical information
  - b. Table of Compliance completed by the bidder with reference (see Appendix).

— End of Specification —

## **Fixing Band and Buckles for the Distribution System**

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# **Appendix**

## Fixing Band and Buckles for the Distribution System

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### Appendix 1: Table of Compliance - Fixing Band

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.038)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM, IEEE)		
3	Material	Stainless Steel		
4	Measurements	0.030 or 0.025 in. thick X 0.75 in. wide X 100 or 200 ft long.		

### Appendix 2: Table of Compliance - Buckles

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.038)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM, IEEE)		
3	Material	Stainless Steel or Aluminum		
4	Measurements	0.025 in. thick for a fixing band of 0.75 in. wide X 0.030 in. thick.		

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### Appendix 3: Table of Compliance - Brackets

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.038)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM, IEEE)		
3	Material	Stainless Steel or Aluminum		
4	Measurements	On the backside of the bracket shall be 1.5" x 1.5" and 1" depth.		
5	Accessories	5/16" screw and washer on the backside of the bracket.		
6	Compatibility	Shall fit 3/4" wide fixing bands.		

### Appendix 4: Table of Compliance - Installation Tool

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.038)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM, IEEE)		
3	Material	Epoxy Powder Coated		
4	Product Requirements	For 3/16" to 3/4" wide stainless-steel bands.		
		Spring-Loaded Gripper Lever		
		Built-in Cutter for stainless-steel band		
5	Tension Capacity	Approximately 2,400 lbs.		











# 4350.038 Tag Fixing Band, Buckles & Tool (7-20-23)

Final Audit Report

2023-07-24


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