



Document Title:  
**Aluminum Numbering Plate**

Document Type: <b>Specification</b>	Engineering Type <b>Material Specification</b>	Document No.: <b>4350.021</b>
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Department  
**Distribution**

Version:  
**06**

Effective Date:  
**Jan 22, 2024**

**Shared document with: Transmission & Distribution**

*\*Select the Departments impacted by the document*

For others, specify here

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N/A

**Related/Referenced Documents**

N/A

**Version History**

Version	Date	Revision Comments
1	Sep. 27, 2021	Initial Release.
2	Feb. 15, 2022	General format modifications.
3	May. 12, 2022	Table of Compliance (TOC) added.
4	Jul. 13, 2022	Dimensions and material modifications.
5	Feb. 17, 2023	Cover Page added and dimensions modifications (Table 1 on Section 9.8).
6	Jan. 22, 2024	General format and document name modifications. Document changed as shared between T&D for all Items.



## Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
002-82272	82272	10	01/16/2024
002-82273	82273	10	01/16/2024
002-82301	82301	10	01/16/2024
002-82302	82302	10	01/16/2024
002-82303	82303	10	01/16/2024
002-82304	82304	10	01/16/2024
002-82305	82305	10	01/16/2024
002-82306	82306	10	01/16/2024
002-82307	82307	10	01/16/2024
002-82308	82308	10	01/16/2024
002-82309	82309	10	01/16/2024
002-82310	82310	10	01/16/2024

Note:

All items are also used in the 38kV transmission system.



## 1. Introduction

This is a general specification that covers the minimum requirements for an aluminum plate 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. Evidence of LUMA Energy's approval of the equipment/material shall be supplied by the 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. and Tech Products, Inc.
- 5.2. The models from these companies 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.

## 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: Ten (10) units per box on a hard carton box, containing 100 units, or as requested by LUMA.

## 8. Acceptance Criteria

- 8.1. The plate shall be one piece with seven (7) digits. A holder with separate numbers to complete the tag will not be accepted.
- 8.2. Test required: certified by external laboratories.
- 8.3. Latest applicable codes, standards, and other regulations:
  - a. ANSI/ASTM (B209): For aluminum and aluminum-alloy sheet and plate.

## 9. Description

- 9.1. This plate is used as an unique unambiguous designation for numbering and visual identification of asset and devices on poles.
- 9.2. Number identification plate made of aluminum alloy (5052), 0.025" (0.317 cm) thick minimum. Shall be furnished with a label adhered to plate on factory during the manufacturing process, printed with seven (7) digits (Calibri font) on it. No sharp edges exposed. Dimensions, color, and letter size will be shown in section 9.8, Table 1.
- 9.3. The label used on the aluminum plate shall be reflective with clear UV protection laminate. Highly reflective is not necessary.
- 9.4. There will be two different plates used in a vertical way (one for ASSETS and one for DEVICES). Difference on coloring showed in section 9.8, Table 1. Difference lettering/numbering showed in section 12, Table 2.
- 9.5. The plates must have provision on both ends to be securely fixed to a pole using a stainless-steel band, measuring 0.030" thick X 0.750" wide (0.076 cm X 1.905 cm).
- 9.6. A bar-code shall be included at the bottom of the label, but above the provision for the fixing band. This bar-code shall contain the exact numbering showing in the tag and will be no more than 1" (2.54 cm) on its shortest side.
- 9.7. The supplier will be notified by LUMA about the exact numbering to be printed on the tag once the purchase order is given. See Table 2 for the arrangements.

9.8. The following is a table showing some differences between both plates:

**Table 1: Dimensions and color**

	APPROXIMATE LENGTH & WIDTH	APPROXIMATE LETTER SIZE	BACK-GROUND COLOR	LETTER COLOR
PLATE 1 (ASSET ID)	17" X (3 ± 1/8)"	1.5"	YELLOW	BLACK
	(43.2 X (7.6 ± 0.3)) cm	(3.81) cm		
PLATE 2 (DEVICE ID)	17" X (3 ± 1/8)"	1.5"	BLACK	YELLOW
	(43.2 X (7.6 ± 0.3)) cm	(3.81) cm		

9.9. See Table 2 for digit arrangement and warehouse catalog number.

## 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:

- b. Technical information
- c. Table of Compliance completed by the bidder with reference (see Appendix 1).

## 12. Table 2: Warehouse Catalog ID Information

ASSET (SEVEN DIGITS)								
Digit 1 Region	Digit 2	Digit 3	Digit 4	Digit 5	Digit 6	Digit 7	Warehouse #	Asset Suite
1	X	X	X	X	X	X	002-82272	82272
2	X	X	X	X	X	X	002-82273	82273
3	X	X	X	X	X	X	002-82301	82301
4	X	X	X	X	X	X	002-82302	82302
5	X	X	X	X	X	X	002-82303	82303
6	X	X	X	X	X	X	002-82304	82304
DEVICE (SEVEN DIGITS)								
Digit 1 Device	Digit 2 Region	Digit 3	Digit 4	Digit 5	Digit 6	Digit 7	Warehouse #	Asset Suite
D	1	X	X	X	X	X	002-82305	82305
D	2	X	X	X	X	X	002-82306	82306
D	3	X	X	X	X	X	002-82307	82307
D	4	X	X	X	X	X	002-82308	82308
D	5	X	X	X	X	X	002-82309	82309
D	6	X	X	X	X	X	002-82310	82310

Note:

All items are also used in the 38kV transmission system.

— 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 (4350.021).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM)		
3	Material	<ul style="list-style-type: none"> <li>• Plate: Aluminum 5052.</li> <li>• Label: Reflective with clear UV protection laminate.</li> </ul>		
4	Dimensions (L x W x T)	<ul style="list-style-type: none"> <li>• Plate: 17" X (3 ± 1/8)" X 0.025"</li> <li>• Letter Height: 1.5" approximate</li> </ul>		
5	Product Requirements	• Numbering/Lettering as per Table 2		
		• The ID Tag will be used in a vertical way.		
		• Label over the aluminum plate placed on Factory.		
		• Shall be printed with seven (7) digits (Calibri font) on it.		
		• Bar-Code at the bottom of the label as per section 9.6.		
		• Provision on both ends of the plate to be securely fixed to a pole using a stainless-steel band as per section 9.5.		












# 4350.021 Aluminum Numbering Plate (1-22-24)


Final Audit Report


2024-01-22


Created:	2024-01-22
By:	Miguel Rios (miguel.rioslopez@lumapr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAeGue0uNotKWlvvERJwegsBLnajdO1f29

## "4350.021 Aluminum Numbering Plate (1-22-24)" History

-  Document created by Miguel Rios (miguel.rioslopez@lumapr.com)  
2024-01-22 - 3:00:17 PM GMT
-  Document e-signed by Miguel Rios (miguel.rioslopez@lumapr.com)  
Signature Date: 2024-01-22 - 3:04:48 PM GMT - Time Source: server
-  Document emailed to oscar.venegas@lumapr.com for signature  
2024-01-22 - 3:04:49 PM GMT
-  Email viewed by oscar.venegas@lumapr.com  
2024-01-22 - 8:09:16 PM GMT
-  Signer oscar.venegas@lumapr.com entered name at signing as Oscar E Venegas  
2024-01-22 - 8:13:08 PM GMT
-  Document e-signed by Oscar E Venegas (oscar.venegas@lumapr.com)  
Signature Date: 2024-01-22 - 8:13:10 PM GMT - Time Source: server- Signature captured from device with phone number XXXXXXXX2079
-  Document emailed to Rodolfo Flores (rodolfo.floresortiz@lumapr.com) for signature  
2024-01-22 - 8:13:12 PM GMT
-  Email viewed by Rodolfo Flores (rodolfo.floresortiz@lumapr.com)  
2024-01-22 - 8:14:55 PM GMT
-  Document e-signed by Rodolfo Flores (rodolfo.floresortiz@lumapr.com)  
Signature Date: 2024-01-22 - 8:15:51 PM GMT - Time Source: server
-  Document emailed to ricardo.castro@lumapr.com for signature  
2024-01-22 - 8:15:52 PM GMT
-  Email viewed by ricardo.castro@lumapr.com  
2024-01-22 - 8:32:45 PM GMT

 Signer ricardo.castro@lumapr.com entered name at signing as Ricardo Castro Gómez  
2024-01-22 - 8:33:11 PM GMT

 Document e-signed by Ricardo Castro Gómez (ricardo.castro@lumapr.com)  
Signature Date: 2024-01-22 - 8:33:13 PM GMT - Time Source: server

 Agreement completed.  
2024-01-22 - 8:33:13 PM GMT