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Document Title:

Stainless Steel Drop-In Anchor and Hand Setting Tool

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Management Approval (If apply)

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Related/Referenced Documents

N/A

Version History

Version	Date	Revision
01	Aug. 1, 2022	Initial release
02	July 10, 2025	Modified general format, title, sections 3-10 and Appendix (TOC). Also, section 12 was added.

Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
038-83219	83219	02	07/10/2025
038-83220	83220	02	07/10/2025

Stainless Steel Drop-In Anchor

Hand Setting Tool for Drop-In Anchor

1. Introduction

This is a general specification that covers the minimum requirements for the Stainless-Steel Drop-In Anchor and Hand Setting Tool, 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 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 LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

3.1. Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature must include, but is not limited to, details of material, drawings, documented testing, and instructions for use and installation. **The literature must be an official document from and certified by the manufacturer.** Failure to submit documents on time and duly certified by the manufacturer will cause bidder disqualification.

3.2. If required by LUMA, final drawings and documentation shall be submitted by the vendor before the manufacturing and shipping process for approval.

4. Compatible with

For compatible manufacturers and models see Table 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.

5. Markings

5.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.

5.2. Individual package(s) shall be clearly marked with manufacturer name and item information (part number, serial number, quantity, etc.).

5.3. Packaging labels and tags shall be waterproof.

6. Packaging

6.1. 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.

6.2. A list of all parts included in the container and/or package must be provided at the time of delivery so that the receiving personnel can verify that everything requested is present, avoiding any delay in the receiving process.

7. Number Per Package (Logistics)

7.1. Standard package:

a. Drop-In Anchor: 50 units per package or as requested by LUMA

b. Hand Setting Tool: 1 unit per package or as requested by LUMA

8. Acceptance Criteria

8.1. Test required: certified by external qualified 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 B1.1: specifies the thread form, series, class, allowance, tolerance, and designation for unified inch screw threads.

b. ASTM E488/E488M: covers the standard test method for strength of anchors in concrete elements. This test method assesses the tensile and shear strength of post-installed and cast-in-place anchors in cracked or uncracked concrete.

c. UL: certification for products, components, and materials, indicating they meet specific safety standards.

d. FM: certification that involves testing and evaluation to ensure products meet stringent safety and performance criteria.

8.4. If any other standards 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. The drop-in anchor provides anchoring in applications requiring a flush finish. It can be used in solid concrete, hard stone and solid block base materials. This anchor uses a hexagonal head bolt for a low-profile bolt installation.

9.2. Table 1: Drop-in anchor characteristics:

Material		Stainless Steel
Head Type		Smooth (No lip)
Internal Thread Size		1/2"-13
Overall Length		2”
Drill Bit Size / Hole Size		5/8”
Minimum Hole Depth		2”
Thread Length/Depth		13/16”
Minimum Embedment Depth		2”
Minimum Slab Thickness		3½”
Allowable Load Capacities in Normal-Weight Concrete	**Tension**	1,025 lbs (2,000 psi); 1,440 lbs (4,000 psi)
	Shear	1,600 lbs (2,000 psi); 1,600 lbs (4,000 psi)

9.3. The drop-in anchor needs the use of a setting tool for installation.

9.4. The hand setting tool shall be made of steel.

9.5. The tool shank size shall be ½".

9.6. The tool shall have a corrosion resistant coating/finish.

10. Inspection

10.1. Upon inspection of incoming equipment/material, the purchaser reserves the right to refuse product shipments and to determine the acceptability or rejection of the product received. The supplier shall be liable for all costs incurred for a product that is rejected.

10.2. 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, drawings, and tests.

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

12. Table 2: Warehouse and Asset Suite Identification Number

Item	Warehouse Catalog #	Asset Suite #	Compatible Manufacturer & Model
Stainless Steel Drop-In Anchor	038-83219	83219	Dewalt 06228-PWR Hilti HDI SS303
Hand Setting Tool	038-83220	83220	Dewalt 06309-PWR Hilti 32980

—End of Specification —

Appendix

Appendix 1: Table of Compliance

Criteria	Description	Pass/Fail (P / F)	Comments
Item [038-83219]	**Drop-In Anchor**		
Industry Standards	ASME B1.1, ASTM E488/E488M, UL, FM		
Material	Stainless Steel		
Head Type	Smooth (No lip)		
Internal Thread Size	1/2"-13		
Overall Length	2”		
Drill Bit Size (Hole Size)	5/8”		
Minimum Hole Depth	2”		
Thread Length/Depth	13/16”		
Minimum Embedment Depth	2”		
Minimum Slab Thickness	3½”		
Allowable Load Capacities in Normal-Weight Concrete	Tension: 1,025 lbs (2,000 psi); 1,440 lbs (4,000 psi)		
	Shear: 1,600 lbs (2,000 psi); 1,600 lbs (4,000 psi)		
Conclusion	Complies with Specification (Doc. No. 4350.173)		
Item [038-83220]	**Hand Setting Tool**		
Material	Steel with a corrosion resistant coating/finish		
Size	½”		
Conclusion	Complies with Specification (Doc. No. 4350.173)		

NOTE: The table above is only a checklist for reference. The item offered must comply with the complete document. Filling out the table with “PASS” won’t be accepted as compliance without the technical information required to certify it.

4350.173 Stainless Steel Drop-In Anchor and Hand Setting Tool

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