
Bolts, Anchors, Bent, Galvanized, Assemblies



1. Scope

This standard covers the requirements for galvanized, bent, anchor bolt assemblies.
This standard applies to Seattle City Light (SCL) Stock No. 568058.

2. Application

Anchor bolt assemblies are used with poured-in-place, streetlight pole foundations.
When correctly installed, five inches of threaded anchor bolt will protrude above the finished concrete foundation.

3. Industry Standards

Anchor bolt assemblies shall meet the applicable requirements of the latest revision of the following industry standards:

ASME B18.21.1; Lock Washers (Inch Series)

ASME B18.2.2; Square and Hex Nuts (Inch Series)

ASTM A153/A153M; Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM F1554; Standard Specification for Anchor Bolts, Steel, 36, 55, and 105 ksi Yield Strength

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4. Requirements

Anchor bolts shall have the following attributes:

Diameter (in)	1, (+0, -0.1)
Bolt Length (in), nominal	36
Hook Length (in), nominal	4
Thread Size (inch-thread count)	1-8 UNC
Thread Length (in), minimum	6
Material, Steel Grade, minimum	ASTM F1544 Grade 36
Yield Strength (ksi), minimum	36
Tensile Strength (ksi)	58-80
Color code	Blue

Anchor bolts shall be fitted with two, one-inch flat washers and one, one-inch split lock washer between two, one-inch hex nuts.

Bolts, nuts and washers shall be hot dipped galvanized.

Hex nuts shall conform to requirements specified in SCL 7829.90.

Material, Steel, Grade	A563A
Width Across Flats (in), nominal	1-1/2
Width Across Corners (in), nominal	1-11/16
Thickness, nominal	55/64

Flat, hardened washers shall conform to requirements specified in SCL 7829.85.

Material, Steel, Grade	F436
Outside Diameter (in), nominal	2
Inside Diameter (in), nominal	1-1/16
Thickness (in), minimum	9/64

Lock washers shall have the following attributes:

Material	Steel
Outside Diameter (in), nominal	1-5/8
Inside Diameter (in), nominal	1-1/64
Thickness (in), minimum	1/4

5. Marking

Anchor bolts shall be marked color coded blue at the top of the threads or steel die stamped with steel grade.

6. Packaging

Bolts shall be packaged to prevent damage during shipping, handling, and outside storage.

Individual packages shall not exceed 50 pounds.

Anchor bolts, nuts and washers shall be shipped assembled.

Each standard package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Quantity

Each shipping container shall be legibly marked with the following information:

- SCL purchase order number
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7. Issuance

Stock Unit: EA

8. Approved Manufacturers

<u>Manufacturer</u>	<u>Catalog No.</u>
Portland Bolt	15979-(2)11710-(2)16449-11908

9. References

SCL Material Standard 7829.90; "Steel Nuts"

SCL Material Standard 7829.85; "Washers, Galvanized Steel, Flat and Curved"

10. Sources

SCL Stock Catalog 57-23, April 3, 2018

Wang, Quan; SCL Standards Engineer, originator, and subject matter expert for 5756.03.

www.portlandbolt.com

www.lightmart.com