

Steel Nuts



1. Scope

This standard covers the requirements for zinc-coated steel, square and hex nuts.

This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock Number by Type

Nominal Size (in)	Threads per in	Hex, zinc-coated	Hex, Zinc-Coated Hot Dipped Galvanized	Heavy Hex, Zinc-Coated Hot Dipped Galvanized	Hex, Stainless Steel	Square, Zinc-Coated Hot Dipped Galvanized
1/4	20	782982	–	–	–	–
5/16	18	782983	–	–	–	–
3/8	16	782984	783114	–	–	–
7/16	14	012283	–	–	–	–
1/2	13	782986	783116	–	014208	783076
5/8	11	010162	783118	–	–	783078
3/4	10	782989	783119	–	–	783079
7/8	9	–	–	–	–	012652
1	8	–	783121	013508	–	–

2. Application

Square nuts are generally used in the overhead system. Hex nuts are used in the underground system, networks, substations, and in a variety of other applications.

The heavy hex nut is intended to be used with the cross-plate anchor (SCL Stock No. 562058).

3. Industry Standards

ASME B18.2.2-1987 (R1999) - Square and Hex Nuts (Inch Series)

ASME B18.12-2001 - Glossary of Terms for Mechanical Fasteners

ASTM A153/A153M-2004 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM B695-2004 - Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel

ASTM A194 / A194M - 2012a - Standard Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both

ASTM A563-2007a - Standard Specification for Carbon and Alloy Steel Nuts

ASTM F 594-2015 - Standard Specification for Stainless Steel Nuts

4. Product Requirements

4.1 Hex Type

	Requirements	Reference
Product Name	Hexagon nut	ASME B18.12, Section 3.2.1.14
Material	Steel	ASME B18.2.2, Table 3, Note (e)
Dimensions	Per reference	ASME B18.2.2, Table 3
Threads	Standard series UNC Class 2B	ASME B18.2.2, Table 3, Note (d)
Corrosion Protection	Zinc-coated, per reference	ASTM A153 or ASTM B695

4.2 Heavy Hex Type

Product Name	Hexagon nut	ASME B18.12, Section 3.2.1.14
Material	Steel	ASTM 563 (Grade DH), or ASTM 194 (Grade 2H)
Dimensions	Per reference	ASME B18.2.2, Table 9
Threads	Standard series UNC Class 2B	ASME B18.2.2, Table 9, Note (d)
Corrosion Protection	Zinc-coated, per reference	ASTM A153 or ASTM B695

4.3 Square Type

	Requirements	Reference
Product Name	Square nut	ASME B18.12, Section 3.2.1.29
Material	Steel	ASME B18.2.2, Table 1, Note (f)
Dimensions	Per reference	ASME B18.2.2, Table 1
Threads	Standard series UNC Class 2B	ASME B18.2.2, Table 1, Note (e)
Corrosion Protection	Zinc-coated, per reference	ASTM A153 or ASTM B695

4.4 Stainless Steel Hex Type

	Requirements	Reference
Product Name	Hexagon nut	ASME B18.12, Section 3.2.1.14
Material	Stainless Steel (18-8, 304, or 316)	ASME B18.2.2, Table 3, Note (e); ASTM F594
Dimensions	Per reference	ASME B18.2.2, Table 3
Threads	Standard series UNC Class 2B	ASME B18.2.2, Table 3, Note (d)
Corrosion Protection	–	–

5. Packaging

Standard package quantity shall be as follows:

Nominal Size (in)	Quantity per Box
1/4, 5/16, 3/8	50 or 100
7/16, 1/2, 5/8	25 or 50
3/4, 7/8, 1	10, 20 or 25

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

- Manufacturer identification
- Product description
- Seattle City Light stock number
- Quantity contained

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

- Manufacturer identification
- Country of origin
- Product description
- Seattle City Light purchase order number
- Seattle City Light stock number

6. Issuance

Stock Unit: EA

7. Approved Manufacturers

A. B. Chance (Hubbell Power Systems)

Hughes Brothers, Inc., Seward, NE

Joslyn Manufacturing (MacLean Power Systems)

Kortick, Hayward, CA

Portland Bolt, Portland, OR

Note: Seattle City Light Material Control personnel may identify and approve distributors, and hence manufacturers, for 5/16 inch and smaller hardware.

8. Sources

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