

Hardware, Miscellaneous



1. Scope

This standard covers the requirements for miscellaneous hardware, consisting of turnbuckles, running thread rod, coupling nuts, full thread studs, and slip-on lock nuts. This standard applies to the Seattle City Light (SCL) stock numbers cited in Section 4.

2. Application

Slip-on lock nuts are designed to be positioned on a threaded rod at any point, eliminating the need to thread from the end of the rod down. Slip-on lock nuts are twisted open by hand, inserted where desired, then hand twisted closed and tightened with a wrench.

Coupling nuts are for use to connect anchors and steel rods.

3. Industry Standards

Hardware shall meet the applicable requirements of the following industry standards:

ASTM F1145-05(2011); Standard Specification for Turnbuckles, Swaged, Welded, Forged

ASME B1.1-1989; Unified Inch Screw Threads

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

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

ASTM B98; Standard Specification for Copper-Silicon Alloy Rod, Bar and Shapes



4. Requirements

4.1 Turnbuckles

Figure 4.1. Turnbuckle



Table 4.1. Turnbuckles

	Stock No. 787982	Stock No. 787937
Type	H-H	J-J
Thread diameter (in)	1/2	3/4
Take up (in)	6	6
Safe working load (lb)	1040	4000

Turnbuckles shall meet the applicable requirements of ASTM F1145.

Turnbuckles shall be hot-dip galvanized according to the requirements of ASTM A153.

4.2 Running Thread Rods

Figure 4.2. Running Thread Rod



Table 4.2. Running Thread Rods

Stock No.	Description
780998	3/8-16
780999	1/2-13
781000	5/8-11

Running thread rod shall be zinc plated.

Running thread rod shall be provided in 10-ft lengths.

4.3 Coupling Nuts

Coupling nuts shall be zinc plated.

Figure 4.3. Coupling Nut



Table 4.3. Coupling Nuts

Stock No.	Size, Nominal (in)
780048	3/8
780049	1/2
780050	5/8

4.4 Full Thread Studs

Full thread studs shall be fabricated from silicon bronze meeting the requirements of ASTM B98.

Full thread stud ends shall have flat chamfered points each end.

Figure 4.4a. Full Thread Stud, 2-3/8-in Length



Figure 4.4b. Full Thread Stud, 1-1/2-in Length



Table 4.4. Full Thread Studs

Stock No.	Description
786600	3/8-16 x 2-3/8
012944	3/8-16 x 1-1/2

4.5 Slip-On Lock Nuts

Slip-On lock nuts shall be zinc-plated.

Figure 4.5. Slip-On Lock Nuts

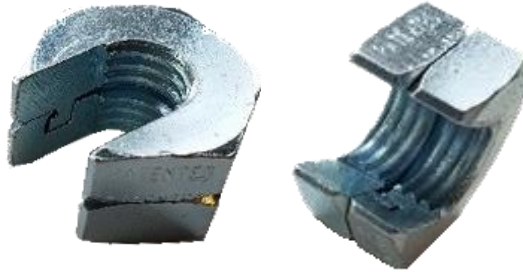


Table 4.5. Slip-On Lock Nuts

Stock No.	Diameter (in)	Thread Size	Load Limit (lb)
014403	3/8	16	2000
014404	1/2	13	4000
014405	5/8	11	5000

5. Packaging

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

Individual packages shall be legibly marked with:

- Manufacturer name
- Manufacturer catalog number
- Product description
- SCL stock number

Shipping containers shall be legibly marked with:

- SCL purchase order number

6. Issuance

Stock Unit: EA

7. Approved Manufacturers

Stock No.	Description	B-Line	Fastenal	Kindorf	Superstrut
787982	Turnbuckle, 1/2 in	a	a	a	a
787937	Turnbuckle, 3/4 in	a	a	a	a
780998	Running thread, 3/8-16	ATR 3/8	a	a	a
780999	Running thread, 1/2-13	ATR 1/2	a	a	a
781000	Running thread, 5/8-11	ATR 5/8	a	a	a
780048	Coupling nut, 3/8 in	B655-3/8	a	H-195-3/8	H119EG-3/8
780049	Coupling nut, 1/2 in	B655-1/2	a	H-195-1/2	H119EG-1/2
780050	Coupling nut, 5/8 in	B655-5/8	a	H-195-5/8	H119EG-5/8
786600	Full thread stud, 3/8-16 x 2-3/8	a	a	a	a
012944	Full thread stud, 3/8-16 x 1-1/2	a	a	a	a
014403	3/8-16	a	0123069	a	a
014404	1/2-13	a	0123070	a	a
014405	5/8-11	a	0123071	a	a

Note a: SCL Material Control personnel may identify and approve manufacturers of this group of stock numbers.

8. Sources

SCL Stock Catalog page 78-26; March 25, 2011

Federal Specification FF-T-791B; Turnbuckle, May 2, 1967

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