

Lag Screws



1. Scope

This standard covers the requirements for zinc-coated, square head, gimlet-point and fetter-drive steel lag screws.

This standard applies to the Seattle City Light (SCL) stock numbers cited in Table 4.

2. Application

Lag screws are used in overhead line construction and where the applied load is primarily a tensile load.

Gimlet-point lag screws are generally twisted into wood members, while fetter-drive lag screws are generally installed with a hammer. See Figure 2.

Figure 2. Screw Types



Gimlet point



Fetter drive

3. Industry Standards

Lag screws shall meet the applicable requirements of the following industry standards:

IEEE C135.80-2012; Zinc-Coated Ferrous Lag Screws for Pole and Transmission Line Construction

ASME B18.2.1; Square and Hex Bolts and Screws (Inch Series)

ASME B18.12; Glossary of Terms for Mechanical Fasteners

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

4. Requirements

All lag screws shall be square head.

Lag screw dimensions and strengths are shown in Table 4.

Table 4. Lag Screw Dimensions and Strengths

Stock No.	Diameter (in)	Length (in)	Tensile Strength, minimum (lb)	Type
785212	1/4	2	1500	Gimlet point
785213	1/4	2-1/2	1500	Gimlet point
785214	1/4	3	1500	Gimlet point
785243	3/8	2-1/2	3500	Gimlet point
785244	3/8	3	3500	Gimlet point
785245	3/8	3-1/2	3500	Gimlet point
785246	3/8	4	3500	Fetter drive
785261	1/2	4	6500	Fetter drive
785265	1/2	6	6500	Fetter drive
013746	1/2	4	6500	Gimlet point

5. Packaging

Standard package quantity shall not exceed **100** per box.

Standard package weight shall not exceed **50** pounds.

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

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

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)
Esco Fasteners
Joslyn Manufacturing (MacLean Power Systems)
Portland Bolt & Manufacturing Company

8. Sources

SCL Material Standard 7852.1; "Lag Screw" (canceled)