

Screws, Anchor, Hex Head



1. Scope

This standard covers the requirements for anchor screws with stainless steel hex heads. These are commonly referred to as “Tapcon screws.”

This standard applies to Seattle City Light (SCL) stock number 013995.

2. Application

Anchor screws are used primarily in the Network environment for mounting building vault lighting as well as grounding and securing equipment. Anchor screws may also be used in other environments when appropriate.

In Network applications, anchor screws are used instead of nail-in fasteners for their superior holding strength.

Anchor screws may be used on concrete, wood, or plastic.

Anchor screws are not intended for use with seismically rated equipment such as vault transformers or switchgear.

3. Industry Standards

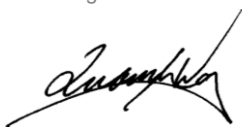
Anchor screws shall meet the applicable requirements of the following industry standard:

ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus

Standards Coordinator
Quan Wang

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4. Requirements

Anchor screws shall have a carbon steel body with a 304SS stainless steel hex head.

Each screw shall come with an ethylene propylene diene monomer (EPDM) washer for sealing out moisture.

Each box of screws shall come with a 3/16-in diameter bit.

Salt spray results (ASTM B117) at 720 hours shall be 10% or less rust.

Finish shall be Silver Climaseal.

Table 4. Anchor Screw Dimensions

Diameter (in)	Length (in)	Bit Diameter (in)
1/4	1-3/4	3/16

5. Packaging

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:

- Manufacturer identification
 - Country of origin
 - Product description
 - SCL purchase order number
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6. Issuance

Stock Unit: Box

7. Approved Manufacturer

Name: ITW Redhead

Product Description: Tapcon SCOTS Screw Anchors

Stock No.	Size (in) (Diameter x Length)	Item No.	Box Quantity
013995	1/4 x 1-3/4	3358407	100

8. Sources

ICC-ES ESR-1671; ICC Evaluation Service evaluation report for Tapcon anchors

Tilley, Kathy; SCL Electrical Engineering Support Specialist and originator of 7852.15
(kathy.tilley@seattle.gov)

www.itwredhead.com; Tapcon SCOTS Screw Anchor technical data sheet