CROSS-PLATE ANCHORS

1. Scope

This standard covers the requirements for cross-plate anchors.

This standard applies to Seattle City Light Stock Number 562058.

Helical and Manta-Ray anchors and anchor accessories are outside the scope of this standard.

2. Application

Cross-plate anchors are used to create attachment points to the earth, typically for connecting down guys.

Cross-plate anchors are used in areas where the equipment necessary to install screw anchors cannot gain access.

The ultimate holding capacity of an anchor is heavily dependent on soil type and condition.

Cross-plate anchors are made for installation in holes drilled by power diggers. Because the size of the hole does not affect holding capacity, the hole can be dug by the same auger that is used to dig the pole holes on transmission projects.

Cross-plate anchors are installed in a diagonal bored hole which is undercut so the anchor is at right angles to the guy. A rod trench is either cut with a trenching tool or drilled with a small power auger. Both anchor and rod trench should be refilled and tamped.

Stock number does not include rod.

Refer to pertinent design standards and manufacturer's literature for more information.

3. Attributes

Stock Number	562058
Description	cross-plate anchor
Material	steel
Anchor rod connection point	1-inch diameter, threaded hole
Area, sq in	400
Coating	corrosion-resistant asphalt paint
Auger hole diameter, in	24
Holding capacity, no safety factor, lbs	
Soil Class 3	45,000
Soil Class 4	37,000
Soil Class 5	30,000
Soil Class 6	23,500
Soil Class 7	18,000
Weight, nominal, lbs	34

4. Marking

Each cross-plate anchor shall be permanently and legibly marked with manufacturer's name or symbol.

standards coordinator	*standards supervisor*	*unit director*
John Shipek	John Shipek	Darnell Cola

5. Packaging

Cross-plate anchors shall be packaged to prevent damage during shipping, handling, and inside storage.

Shipping containers shall be legibly marked with:

- Manufacturer's name
- Manufacturer's catalog number
- Product description
- Quantity contained
- Seattle City Light's Stock Number

6. Issuance

EA

7. Approved Manufacturers

Stock Number	Description	Hubbell Power Systems/ Chance	Hydel Enterprises, Inc.
562058	cross-plate anchor	X24	24CPA

10. References

Hubbell Power Systems; Chance; Anchors, Product Catalog; January 2012

Circa Enterprises; www.circaent.com

Hubbell Power Systems; www.hubbellpowersystems.com

Hydel Enterprises Inc.; PoleLine Catalogue; dWK38047-2M-0504

SCL D6-4; “Guying and Anchoring”; Construction Standard

SCL 5620.7 (canceled); “Anchor Plate”; Material Standard

SCL 5622.33; “Helical Anchors and Accessories”; Material Standard

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