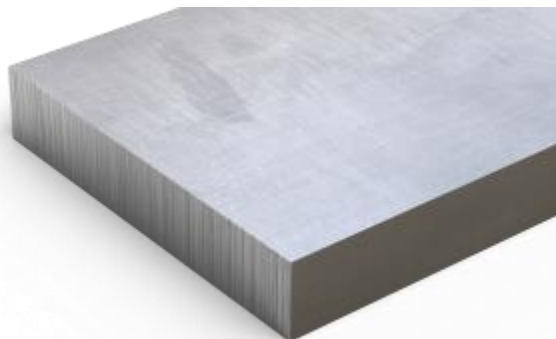


## Plates, Aluminum, 6061-T651



### 1. Scope

This standard covers the requirements for a 6061-T651 aluminum plate.

This standard applies to Seattle City Light (SCL) Stock No. 630053.

### 2. Application

Aluminum plates are used to fabricate insulator plates (680874) for 8-inch Integral Web Channel Bus (IWCB) and connector plates (680860) to attach cable to the 6" x 6" or 8" x 8" IWCB.

### 3. Industry Standards

Plates shall meet the applicable requirements of the latest revision of the following industry standards:

**ASTM B 209**; Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate

**ASTM B 660**; Standard Practices for Packaging/Packing of Aluminum and Magnesium Products

#### 4. Requirements

Plates shall meet the requirements of ASTM B 209 and this standard. When conflict exists, this standard shall apply.

**Table 4. Plate Requirements**

|                                 |      |
|---------------------------------|------|
| Alloy                           | 6061 |
| Temper                          | T651 |
| Thickness                       | 3/4" |
| Width                           | 12"  |
| Length                          | 72"  |
| Tensile Strength, minimum (ksi) | 42   |
| Yield Strength, minimum (ksi)   | 35   |

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#### 5. Packaging

Plates shall be packaged per ASTM B 660 to prevent damage during shipping, handling and inside storage.

Each plate shall be legibly marked with:

- Manufacturer name
- Alloy type
- Temper
- Thickness

Each package shall be legibly marked with:

- Plate dimensions
- Alloy type
- Temper
- Gross mass
- Net mass
- Manufacturer name and address
- Seattle City Light purchase order number
- Seattle City Light stock number

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#### 6. Shipping

Plates shall be wrapped in plastic and placed inside a cardboard box.

The box shall be placed on a pallet in horizontal position suitable for side unloading by forklift.

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#### 7. Issuance

Stock Unit: FT

## 8. Approved Manufacturers

| Manufacturer   | Part No.   |
|----------------|------------|
| Alaskan Copper | 672491     |
| Thyssenkrupp   | ALFLR00120 |

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## 9. References

**Shetab, Muneer**; SCL Standards Engineer, subject matter expert and originator of 6308.24 (muneer.shetab@seattle.gov)

**Thyssenkrupp**; Aluminum Stock Guide; 2017

**Alaskan Copper & Brass Company**; Aluminum Mill Products: Aluminum Angle, Channel, Pipe Fittings, Pipe, rod, Bar, Sheet, Plate, Coil & Tubing

**SCL Material Standard 6808.60**; "Connector Plate for 8 Inch IWCB"

**SCL Material Standard 6808.7**; "Insulator Plate for 8" x 8" IWCB"

**SCL Construction Guideline NCB-60**; "IWCB Installation and Mounting Parts"

**SCL Stock Catalog Page 60-40**; January 19, 2018

**SCL Stock Catalog Page 70-30**; March 23, 2005