

PURCHASE SPECIFICATION - STEEL PRODUCTS

1.0 SCOPE

This specification applies to all structural steel products being purchased by Lapeyre Stair Inc. Specific quantities, lengths, structural shape types, material standards, etc. shall comply with the requirements in the applicable Purchase Order, or this specification. In the event of a conflict between the requirements of this specification and the applicable purchase order, the supplier shall bring such conflict to the attention of Lapeyre Stair for resolution. Any exceptions to this purchase specification shall be obtain in writing from Lapeyre Stair.

2.0 DEFINITIONS

Purchaser: The company purchasing the steel products - Lapeyre Stair Inc.

Supplier: The company supplying the steel products to Lapeyre Stair. The supplier may be a steel manufacturer, steel distributor, or a steel service center.)

Manufacturer: The company that manufacturers the steel product or who has such product designed or manufactured and markets that product under their company name or trademark. Original producers of steel products are manufacturers.

Distributor: A company in the supply chain other than the manufacturer, who makes a construction product available on the market. Steel suppliers are distributors. Steel service centers are distributors if they do not act as manufacturers.

Certificate of Conformance (COC): A document issued by the manufacturer, supplier or distributor which certifies that the products are in compliance with the requirements of the purchase order and/or relevant specifications.

3.0 TECHNICAL SPECIFICATIONS

3.1 Steel Products, Dimensions and Tolerances

Structural Steel Sections

All structural steel sections shall meet the requirements of ASTM A6.

Preferred materials for various structural steel shapes are as indicated in AISC steel construction manual, 13th edition, Tables 2-3, 2-4 & 2-5.

All W shaped sections shall meet the requirements of ASTM A992 or A36, unless otherwise specified in the purchase order.

Structural steel manufacture and fabrication shall comply with the AISC Code of Standard Practice for Steel Buildings and Bridges, AISC 303, latest edition.

All MC, C and S sections shall meet the requirements of ASTM A36 or A992 unless otherwise specified in the purchase order.

All L sections shall meet the requirements of ASTM A36 or A992 unless otherwise specified in the purchase order.

All HSS or structural pipe sections shall meet the requirements of ASTM 500 grade B, unless otherwise specified in the purchase order.

Structural Plates, Bars, Sheet & Strip

Structural Plate and bar shall meet the requirements of ASTM A36, unless otherwise specified in the purchase order.

Sheet and strip products shall meet the requirements of ASTM A570, A606, A607, A786/A7856M or A1011/A1011 M (Structural Steel-SS type, grade 36 or higher; or as specified in the purchase order.

Structural Bolts, Nuts & Washers:

Structural bolts shall meet the requirements of ASTM A307, A325, A490, F1852 or F2280 as specified in the purchase order. Structural bolts shall meet the dimensional requirements of ANSI B18.2.1 or ANSI B18.5 as applicable, unless otherwise specified in the purchase order.

Zinc plated fastener coatings shall comply with ASTM B633 or ASTM F1941.

Nuts shall meet the requirements of ASTM A563, unless otherwise specified in the purchase order.

Washers shall meet the requirements of ASTM F436 or F844, unless otherwise specified in the purchase order.

Anchor Bolts:

Anchor bolts shall be either Hilti Kwik Bolt 3, Red Head Trubolt or Wej-it Ankr-Tite wedge anchors, unless otherwise specified. Anchor bolts shall be the diameters and lengths as specified in the purchase order and shall have the

applicable manufacturer's identification marking clearly visible on the top of the anchor bolt.

Diamond Floor Plate

Diamond floor plate shall meet the requirements of ASTM A786, commercial grade, unless otherwise specified in the purchase order.

Product Type	Material Types Allowed	Notes
W , S	A36, A992	
MC, C	A36, A992	
L	A36, A992	
HSS,TS	A500 Grade B	
Plate, Bar, Strip	A36, A570, A606, A607, A786/A786M, A1011/A1011M (SS, grade 36 or higher	
Bolts	A307, A325, A490, F1852, F2280	Dimensions per ANSI B18.2.1 or B18.5
Nuts	A563	
Washers	F436 or F844	
Diamond Plate	A786	
Anchor Bolts	Hilti Kwik Bolt 3, RedHead Trubolt, or Wej-it Ankr-Tite wedge anchors.	Manufacturer's head markings required

Surface Preparation

Surface preparation of steel products shall meet SSPC SP1, SP2 or SP3 requirements, unless otherwise specified in the purchase order.

4.0 PRODUCT MARKING

- 4.1 All products shall be marked with material type, heat number or other relevant marking as indicated in the applicable ASTM specification for the product.
- 4.2 All required markings shall appear on the Certificate of Conformance (COC). The markings shall be legible and written in English.

5.0 PRODUCT TESTING

Any required product testing shall be as required in the purchase order or applicable material specifications.

Any supplementary testing carried out by the supplier to establish whether the mechanical properties of the steel products are appropriate for use shall be undertaken by a laboratory certified by Underwriters laboratory or as approved by the purchaser.

6.0 QUALITY ASSURANCE

Structural steel fabrication and working shall comply with the requirements of the American Institute of Steel Construction (AISC) specification for Structural Steel Buildings , AISC 360-10, chapter M and the Code of Standard Practice for Steel Buildings and Bridges , AISC 303, latest edition.

The manufacturer or supplier shall have a system of receipt, dispatch and delivery that ensures traceability from manufacture to point of delivery of the steel products to the purchaser.

The supplier shall have a system in place for checking whether products being supplied are in accordance with the applicable purchase documents and specifications. The supplier shall have a system in place to disposition non-conforming material and ensure that such material is not supplied to the purchaser.

7.0 RECORDS

The supplier shall retain copies of inspection documents and laboratory test reports, as applicable, and keep records of checks carried out on inspection certificates and any non-conformance reports for a period of 10 years.

8.0 REFERENCES

AISC 303-10 Code of Standard Practice for Steel Buildings and Bridges

AISC 360-10 Specification for Structural Steel Buildings