

## Calbrite Stainless Steel Strut

This product specification is written according to the Construction Specifications Institute  
*MasterFormat*, 2018 Update.

### SECTION 05 43 00

### SLOTTED CHANNEL FRAMING

#### PART I – GENERAL

##### 1.01 SUMMARY

- A. Framing shall be a strut type metal framing system (Strut System)
- B. Strut System shall be used:
  - 1. To support mechanical and electrical equipment and devices.
  - 2. For structural applications as applicable.
- C. Strut System and components must be supplied from a single approved Manufacturer.

##### 1.02 REFERENCES

- A. UL STANDARDS
  - 1. UL 5B - Standard for Strut-Type Channel Raceways and Fittings
- B. NFPA 70, National Electrical Code (NEC)
  - 1. NEC Article 384
- C. ASTM Standards
  - 1. ASTM A240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
  - 2. ASTM A276 - Standard Specification for Stainless Steel Bars and Shapes

##### 1.03 QUALITY ASSURANCE

- A. Manufacturer's qualifications:
  - 1. The manufacturer shall have at least 10 years' experience in manufacturing Strut Systems.
  - 2. The manufacturer must certify in writing all components supplied have been produced in accordance with an established quality assurance program.
- B. Work shall meet the requirements of the following standards:
  - 1. Federal, State and Local codes
  - 2. American Iron and Steel Institute (AISI) Specification for the Design of Cold Formed Steel Structural Members
  - 3. American Society for Testing and Materials (ASTM)
  - 4. Metal Framing Manufacturer's Association (MFMA)

## 1.04 SUBMITTALS

- A. Section 01 33 00 – Submittal Procedures: Submittal procedures.
- B. Structural calculations by a Registered Professional or Structural Engineer in the State of the Project's location for approval by the Professional of Record.  
Calculations may include, but are not limited to:
  - 1. Description of design criteria
  - 2. Stress and deflection analysis
  - 3. Selection of framing members, fittings, and accessories Calbrite 6451 Northwind Parkway, Hobart, IN 46423 1-800-536-2248 [www.Calbrite.com](http://www.Calbrite.com)
- C. Assembly drawings necessary to install the Strut System in compliance with the Contract Drawings
- D. Pertinent manufacturers published data

## 1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. All material is to be delivered to the work site in original factory packaging to avoid damage to the finish.
- B. Upon delivery to the work site, all components shall be protected from the elements by a shelter or other covering.

## 1.06 WARRANTY

- A. Manufacturer shall warrant for 1 year from the shipment date that products will be free from defects in material or manufacture. In the event of any such defect in violation of the warranty, Manufacturer shall have the option to repair or replace any such defective product.
- B. Installer shall warrant for 1 year from the date of completion of work that the work will be free of defects in installation. In the event of any such defect in violation of the warranty, Installer shall have the option to repair or replace any such defective product.

## **PART 2 - PRODUCTS**

### 2.01 ACCEPTABLE MANUFACTURERS

- A. Strut System and components shall be Calbrite®

### 2.02 MATERIALS

- A. All channel members shall be fabricated conforming to one of the following ASTM specifications:
  - 1. Stainless Steel:
    - a. ASTM A240 (Type 304 or Type 316)

- b. ASTM A276 (Type 304 or Type 316)
- B. All fittings shall be fabricated conforming to one of the following ASTM specifications:
  - 1. Stainless Steel:
    - a. ASTM A240 (Type 304 or Type 316)
    - b. ASTM A276 (Type 304 or Type 316)
- C. Any substitutions of product or manufacturer must be approved in writing ten days prior to bid date by the Professional of Record.

## **PART 3 – EXECUTION**

### **3.01 EXAMINATION**

- A. The installer shall inspect the work area prior to installation. If work area conditions are unsatisfactory, installation shall not proceed until satisfactory corrections are completed.

### **3.02 INSTALLATION**

- A. Installation shall be accomplished by a fully trained manufacturer authorized installer.
- B. Set Strut System components into final position true to line, level and plumb, in accordance with approved drawings.
- C. Anchor material firmly in place, and tighten all connections to their recommended torques.

### **3.03 CLEANUP**

- A. Upon completion of this section of work, remove all protective wraps and debris. Repair any damage due to installation of this section of work.

### **3.04 PROTECTION**

- A. During installation, it shall be the responsibility of the installer to protect this work from damage.
- B. Upon completion of this scope of work, it shall become the responsibility of the general contractor to protect this work from damage during the remainder of construction on the project and until substantial completion.