PRODUCT CODE: **ST-433-G90**
PUBLICATION DATE: **JULY 2025**

# SUBMITTAL SHEET

4” 33 Mils Structural Track with 1-1/4” Leg (G90)

## PRODUCT INFORMATION

| | |
|---|---|
| Description | **4” 33 Mils Structural Track with 1-1/4” Leg (G90)** |
| Code | **ST-433-G90** |
| Category | **Structural Track** |

## GEOMETRIC PROPERTIES

| | |
|---|---|
| Web Depth (in) | **4”** |
| Leg Height (in) | **1-1/4”** |
| Weight (lb/ft) | **0.76** |
| Gauge | **20 GA** |
| Design Thickness | **0.0346** |
| Thickness - Mils | **33** |
| Yield Strength Fy (KSI) | **50** |
| Coating | **G90** |

## GROSS SECTION PROPERTIES

| | |
|---|---|
| Cross Section Area **A** | **0.225 in.2** |
| Moment of inertia **Ixx** | **0.549 in.4** |
| Section modulus **Sxx** | **0.265 in.3** |
| Radius of gyration **Rxx** | **1.563 in.** |
| Moment of inertia **Iyy** | **0.031 in.4** |
| Radius of gyration **Ryy** | **0.371 in.** |

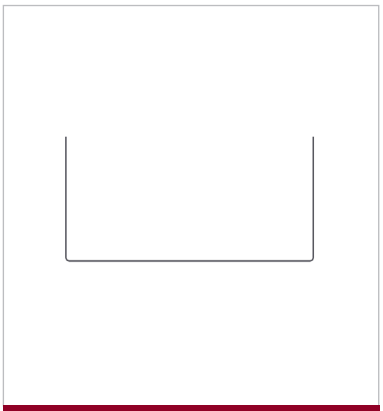
## EFFECTIVE SECTION PROPERTIES

| | |
|---|---|
| Moment of inertia for deflection **Ixx** | **0.465 in.4** |
| Section modulus **Sxx** | **0.189 in.3** |
| Allowable bending moment **Ma-L** | **5.66 in.-k** |
| Allowable shear force in web **Va** | **940 lbs** |

## TORSION PROPERTIES

| | |
|---|---|
| St Venant torsion constant **J1000** | **0.09 in.4** |
| Warping constant **Cw** | **0.095 in.6** |
| Distance from shear center to neutral axis **Xo** | **-0.63 in.** |
| Distance from shear center to mid-plane of web **m** | **0.396 in.** |
| Polar radius of gyration **Ro** | **1.725 in.** |
| Beta **β** | **0.867 β** |

**ST-433-G90**



**ST-433-G90 PROFILE**

## SUSTAINABILITY & LEED

LEED credit MR 2.1 (1 point)
LEED credit MR 2.2 (1 point)
LEED credit MR 4.1 (1 point)
LEED credit MR 4.2 (1 point)
LEED credit MR 5.1 (1 point)
LEED credit MR 5.2 (1 point)
ISO14001:2015 certified company
Total recycled content 32.7%
(Content: post consumer 25.5%, pre consumer 6.8%)

Suitable for UL Assemblies U419, U465 & U411

## ASTM INFORMATION

All products manufactured by Studco Building Systems are certified to meet or exceed all applicable American Society for Testing & Materials standards as listed below. Studco Building Systems is also accredited to ISO9001- an internationally recognized standard - and an established member of the Steel Stud Manufacturers Association (SSMA).

**Material Specifications (ASTM)**

• All STUDCO Structural framing members conform to A1003 - A1003 is the Standard specification for steel sheet, Carbon, Metallic- and Nonmetallic - Coated for Cold Formed Framing Members Coating Specification (ASTM) .

• All STUDCO Structural framing members conform to C955 - C955 Standard specification for load-bearing (transverse and axial) steel studs, runners (tracks), and bracing or bridging for screw application of gypsum panel products and metal plaster bases.

**Product Specifications (ASTM)**

• All STUDCO Structural framing members conform to C955 - C955 Standard specification for load-bearing (transverse and axial) steel studs, runners (tracks), and bracing or bridging for screw application of gypsum panel products and metal plaster bases.

All Structural products have a G60 minimum weight conforming to ASTM Specification A1003 or have a protective coating with the industry standard requirements of ASTM C645. A G90 Coating is available upon request.

All Structural Studs Conform to U420 Standards for Fire Rated Assemblies.



**For Sales Inquiries, please contact Studco Building Systems on 800.675.8023**
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