PRODUCT CODE: **DT-1454-G90**
PUBLICATION DATE: **JULY 2025**

# SUBMITTAL SHEET

14” 54 Mils Deflection Track with 2” Leg (G90)

## PRODUCT INFORMATION

| | |
|---|---|
| Description | **14” 54 Mils Deflection Track with 2” Leg (G90)** |
| Code | **DT-1454-G90** |
| Category | **Structural Deflection Track** |

## GEOMETRIC PROPERTIES

| | |
|---|---|
| Web Depth (in) | **14”** |
| Leg Height (in) | **2”** |
| Weight (lb/ft) | **3.46** |
| Gauge | **16 GA** |
| Design Thickness | **0.0566** |
| Thickness - Mils | **54** |
| Yield Strength Fy (KSI) | **50** |
| Coating | **G90** |

## GROSS SECTION PROPERTIES

| | |
|---|---|
| Cross Section Area **A** | **1.018 in.2** |
| Moment of inertia **Ixx** | **24.221 in.4** |
| Section modulus **Sxx** | **3.412 in.3** |
| Radius of gyration **Rxx** | **4.878 in.** |
| Moment of inertia **Iyy** | **0.242 in.4** |
| Radius of gyration **Ryy** | **0.487 in.** |

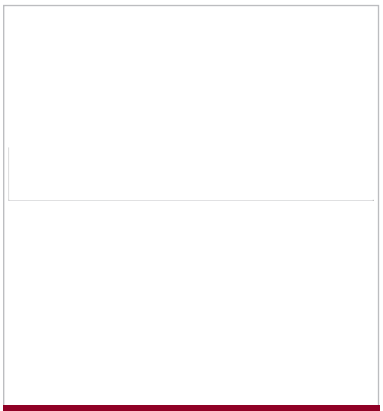
## EFFECTIVE SECTION PROPERTIES

| | |
|---|---|
| Moment of inertia for deflection **Ixx** | **18.387 in.4** |
| Section modulus **Sxx** | **1.589 in.3** |
| Allowable bending moment **Ma-L** | **47.56 in.-k** |
| Allowable shear force in web **Va** | **1160 lbs** |

## TORSION PROPERTIES

| | |
|---|---|
| St Venant torsion constant **J1000** | **1.087 in.4** |
| Warping constant **Cw** | **9.52 in.6** |
| Distance from shear center to neutral axis **Xo** | **-0.665 in.** |
| Distance from shear center to mid-plane of web **m** | **0.449 in.** |
| Polar radius of gyration **Ro** | **4.947 in.** |
| Beta **β** | **0.982 β** |

**DT-1454-G90**



**DT-1454-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 Drywall Nonstructural framing members conform to A1003 - A1003 is the Standard specification for steel sheet, Carbon, Metallic- and Nonmetallic- Coated for Cold Formed Framing Members.

**Coating Specifications (ASTM)**

• All STUDCO Drywall Nonstructural framing members conform to C645 - C645 is the Standard specification for Nonstructural Steel Framing Members.

**Product Specifications (ASTM)**

• All STUDCO Drywall Nonstructural framing members conform to C645 - C645 is the Standard specification for Nonstructural Steel Framing Members.

All Drywall Nonstructural products have a G40 minimum weight conforming to ASTM Specification A1003 or have a protective coating with the industry standard requirements of ASTM C645.

All Drywall studs conform to U419, U465 & U411 Standards for Fire Rated Assemblies.



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