PRODUCT CODE: **DT-51254-G90**
PUBLICATION DATE: **JULY 2025**

SUBMITTAL SHEET

5-1/2” 54 Mils Deflection Track with 2” Leg (G90)

PRODUCT INFORMATION

Description	**5-1/2” 54 Mils Deflection Track with 2” Leg (G90)**
Code	**DT-51254-G90**
Category	**Structural Deflection Track**

GEOMETRIC PROPERTIES

Web Depth (in)	**5-1/2”**
Leg Height (in)	**2”**
Weight (lb/ft)	**1.83**
Gauge	**16 GA**
Design Thickness	**0.0566**
Thickness - Mils	**54**
Yield Strength Fy (KSI)	**50**
Coating	**G90**

GROSS SECTION PROPERTIES

Cross Section Area **A**	**0.537 in.2**
Moment of inertia **Ixx**	**2.578 in.4**
Section modulus **Sxx**	**0.905 in.3**
Radius of gyration **Rxx**	**2.191 in.**
Moment of inertia **Iyy**	**0.199 in.4**
Radius of gyration **Ryy**	**0.609 in.**

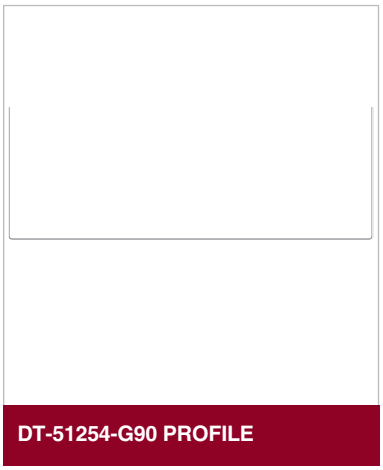
EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection **Ixx**	**2.153 in.4**
Section modulus **Sxx**	**0.63 in.3**
Allowable bending moment **Ma-L**	**18.86 in.-k**
Allowable shear force in web **Va**	**2980 lbs**

TORSION PROPERTIES

St Venant torsion constant **J1000**	**0.573 in.4**
Warping constant **Cw**	**1.133 in.6**
Distance from shear center to neutral axis **Xo**	**-1.077 in.**
Distance from shear center to mid-plane of web **m**	**0.668 in.**
Polar radius of gyration **Ro**	**2.517 in.**
Beta **β**	**0.817 β**

DT-51254-G90



DT-51254-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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