PRODUCT CODE: **DT-21254-G90**
PUBLICATION DATE: **JULY 2025**

SUBMITTAL SHEET

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

PRODUCT INFORMATION

Description	**2-1/2” 54 Mils Deflection Track with 2” Leg (G90)**
Code	**DT-21254-G90**
Category	**Structural Deflection Track**

GEOMETRIC PROPERTIES

Web Depth (in)	**2-1/2”**
Leg Height (in)	**2”**
Weight (lb/ft)	**1.25**
Gauge	**16 GA**
Design Thickness	**0.0566**
Thickness - Mils	**54**
Yield Strength Fy (KSI)	**50**
Coating	**G90**

GROSS SECTION PROPERTIES

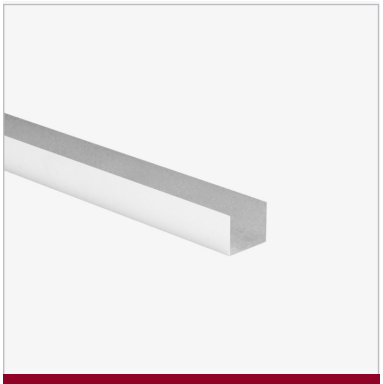
Cross Section Area **A**	**0.367 in.2**
Moment of inertia **Ixx**	**0.466 in.4**
Section modulus **Sxx**	**0.346 in.3**
Radius of gyration **Rxx**	**1.127 in.**
Moment of inertia **Iyy**	**0.157 in.4**
Radius of gyration **Ryy**	**0.654 in.**

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection **Ixx**	**0.371 in.4**
Section modulus **Sxx**	**0.209 in.3**
Allowable bending moment **Ma-L**	**6.25 in.-k**
Allowable shear force in web **Va**	**2563 lbs**

TORSION PROPERTIES

St Venant torsion constant **J1000**	**0.392 in.4**
Warping constant **Cw**	**0.195 in.6**
Distance from shear center to neutral axis **Xo**	**-1.405 in.**
Distance from shear center to mid-plane of web **m**	**0.806 in.**
Polar radius of gyration **Ro**	**1.917 in.**
Beta **β**	**0.462 β**



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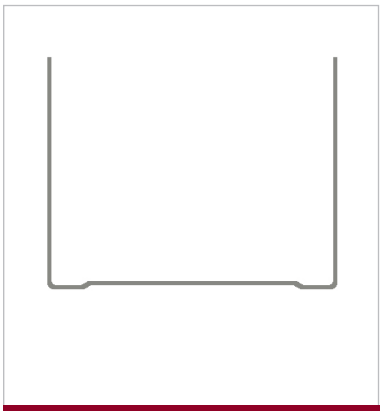

DT-21254-G90 PROFILE

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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