PRODUCT CODE: **SJ3-51254**
PUBLICATION DATE: **JULY 2019**

SUBMITTAL SHEET

Studco HEDA 5-1/2” Wide with 3” Flange 50ksi G60 Structural Stud (54mils)

PRODUCT INFORMATION

Description	**Studco HEDA 5-1/2” Wide with 3” Flange 50ksi G60 Structural Stud (54mils)**
Code	**SJ3-51254**
Category	**Studco Structural Stud 3” Flange**

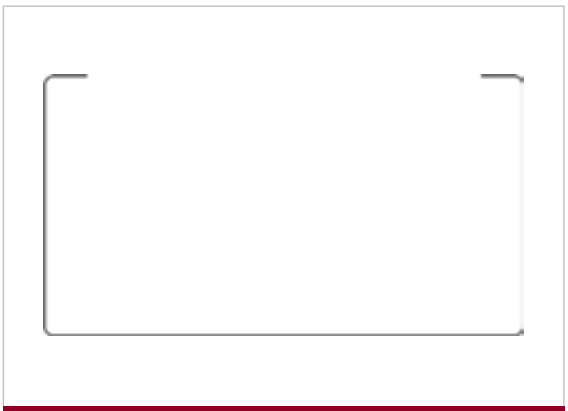
SJ3-51254

GEOMETRIC PROPERTIES

Web Depth (in)	**5-1/2”**
Flange Width (b)	**3”**
Stiffening Lip	**3/4”**
Weight (lb/ft)	**2.52**
Punchout Width	**1-1/2”**
Punchout Height	**2-1/4”**
Gauge	**16 GA**
Design Thickness	**0.0566**
Thickness - Mils	**54**
Yield Strength FY (KSI)	**50**
Coating	**G60**

GROSS SECTION PROPERTIES

Cross Section Area **A**	**0.740 in.2**
Moment of inertia **Ixx**	**3.705 in.4**
Section modulus **Sxx**	**1.347 in.3**
Radius of gyration **Rxx**	**2.237 in.**
Moment of inertia **Iyy**	**1.007 in.4**
Radius of gyration **Ryy**	**1.166 in.**



SJ3-51254 PROFILE

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection **Ixx**	**3.577 in4**
Section modulus **Sxx**	**1.134 in3**
Allowable bending moment **Ma-L**	**33.950 in.-k**
Allowable moment based on distortional buckling **Ma-D**	**31.990 in-k**
Critical value of rotational stiffness **KfC**	**106.6**
Allowable strong axis shear away from punchouts **Vag**	**3093 lbs**
Allowable strong axis shear at punchouts **VaNet**	**1881 lbs**
Effective moment of inertia **Iyy**	**0.989 in.4**
Effective Section modulus **Syy**	**0.477 in.6**
Allowable moment at yield **Ma-yy**	**14.28 in.**
Allowable weak axis shear **Vay**	**5767 lbs.**

TORSION PROPERTIES

St Venant torsion constant **J1000**	**0.791 in.4**
Warping constant **Cw**	**7.726 in.6**
Distance from shear center to neutral axis **Xo**	**-2.643 in.**
Distance from shear center to mid-plane of web **m**	**1.565 in.**
Polar radius of gyration **Ro**	**3.654 in.**
Beta **β**	**0.477 β**
Max. unbraced length **Lu**	**66.200 in.**

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.

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 G-60 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.

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