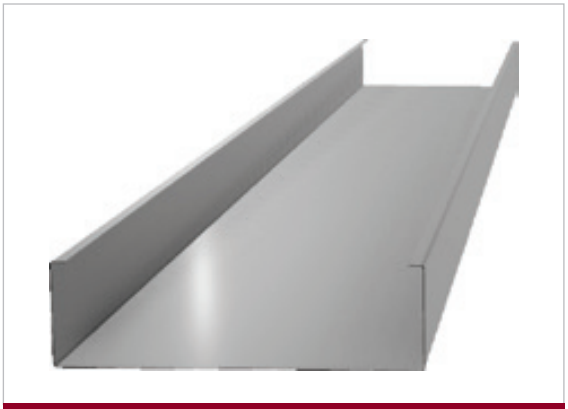
PRODUCT CODE: **SJ3.5-1497**
PUBLICATION DATE: **JULY 2019**

SUBMITTAL SHEET

Studco HEDA 14” Wide with 3-1/2” Flange 50ksi G60 Structural Stud (97mils)

PRODUCT INFORMATION

Description	**Studco HEDA 14” Wide with 3-1/2” Flange 50ksi G60 Structural Stud (97mils)**
Code	**SJ3.5-1497**
Category	**Studco Structural Stud 3-1/2” Flange**



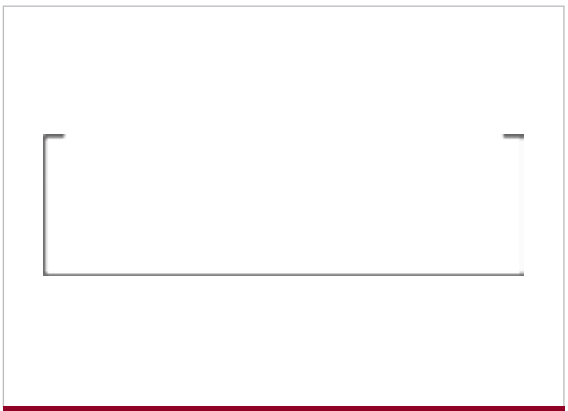
SJ3.5-1497

GEOMETRIC PROPERTIES

Web Depth (in)	**14”**
Flange Width (b)	**3-1/2”**
Stiffening Lip	**7/8”**
Weight (lb/ft)	**7.70**
Punchout Width	**1-1/2”**
Punchout Height	**2-1/4”**
Gauge	**12 GA**
Design Thickness	**0.1017**
Thickness - Mils	**97**
Yield Strength FY (KSI)	**50**
Coating	**G60**

GROSS SECTION PROPERTIES

Cross Section Area **A**	**2.262 in.2**
Moment of inertia **Ixx**	**62.507 in.4**
Section modulus **Sxx**	**8.930 in.3**
Radius of gyration **Rxx**	**5.257 in.**
Moment of inertia **Iyy**	**3.296 in.4**
Radius of gyration **Ryy**	**1.207 in.**



SJ3.5-1497 PROFILE

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection **Ixx**	**62.507 in4**
Section modulus **Sxx**	**8.189 in3**
Allowable bending moment **Ma-L**	**245.180 in.-k**
Allowable moment based on distortional buckling **Ma-D**	**201.250 in-k**
Critical value of rotational stiffness **KfC**	**1198.7**
Allowable strong axis shear away from punchouts **Vag**	**6939 lbs**
Allowable strong axis shear at punchouts **VaNet**	**6939 lbs**
Effective moment of inertia **Iyy**	**2.813 in.4**
Effective Section modulus **Syy**	**1.134 in.6**
Allowable moment at yield **Ma-yy**	**33.94 in.**
Allowable weak axis shear **Vay**	**11409 lbs.**

TORSION PROPERTIES

St Venant torsion constant **J1000**	**7.799 in.4**
Warping constant **Cw**	**130.430 in.6**
Distance from shear center to neutral axis **Xo**	**-2.156 in.**
Distance from shear center to mid-plane of web **m**	**1.373 in.**
Polar radius of gyration **Ro**	**5.808 in.**
Beta **β**	**0.862 β**
Max. unbraced length **Lu**	**70.000 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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