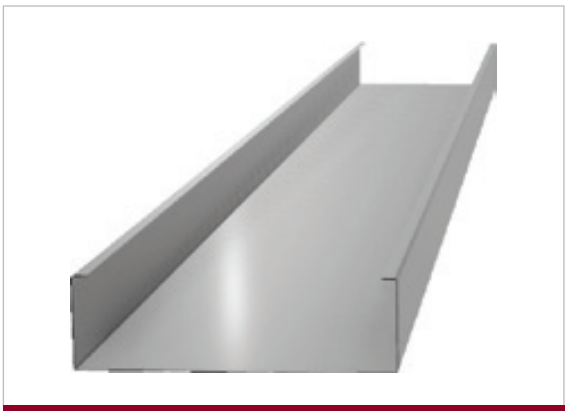
PRODUCT CODE: **SJ3-1043-G90**
PUBLICATION DATE: **JULY 2019**

SUBMITTAL SHEET

Studco HEDA 10” Wide with 3” Flange 50ksi G90 Structural Stud (43mils)

PRODUCT INFORMATION

Description	**Studco HEDA 10” Wide with 3” Flange 50ksi G90 Structural Stud (43mils)**
Code	**SJ3-1043-G90**
Category	**Studco Structural Stud 3” Flange**



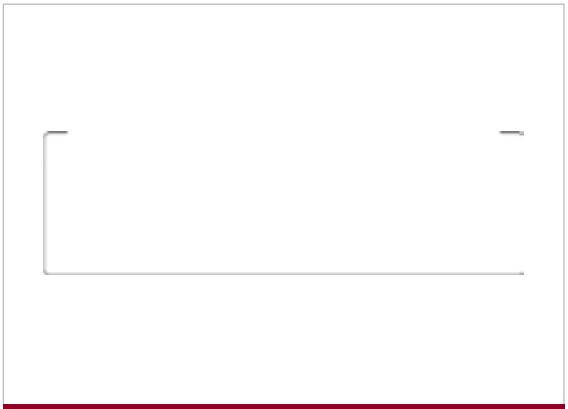
SJ3-1043-G90

GEOMETRIC PROPERTIES

Web Depth (in)	**10”**
Flange Width (b)	**3”**
Stiffening Lip	**3/4”**
Weight (lb/ft)	**2.71**
Punchout Width	**1-1/2”**
Punchout Height	**2-1/4”**
Gauge	**18 GA**
Design Thickness	**0.0451**
Thickness - Mils	**43**
Yield Strength FY (KSI)	**50**
Coating	**G90**

GROSS SECTION PROPERTIES

Cross Section Area **A**	**0.796 in.2**
Moment of inertia **Ixx**	**11.914 in.4**
Section modulus **Sxx**	**2.383 in.3**
Radius of gyration **Rxx**	**3.868 in.**
Moment of inertia **Iyy**	**0.993 in.4**
Radius of gyration **Ryy**	**1.117 in.**



SJ3-1043-G90 PROFILE

EFFECTIVE SECTION PROPERTIES

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

TORSION PROPERTIES

St Venant torsion constant **J1000**	**0.540 in.4**
Warping constant **Cw**	**20.776 in.6**
Distance from shear center to neutral axis **Xo**	**-2.142 in.**
Distance from shear center to mid-plane of web **m**	**1.333 in.**
Polar radius of gyration **Ro**	**4.560 in.**
Beta **β**	**0.779 β**
Max. unbraced length **Lu**	**- 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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