PRODUCT CODE: **DS-21220**
PUBLICATION DATE: **DECEMBER 2024**

SUBMITTAL SHEET

2-1/2” 19 Mils CrocStud Drywall Stud with 1-1/4” Flange (G40)

PRODUCT INFORMATION

Description	**2-1/2” 19 Mils CrocStud Drywall Stud with 1-1/4” Flange (G40)**
Code	**DS-21220**
Category	**CrocStud Drywall Stud**

GEOMETRIC PROPERTIES

Web Depth (in)	**2-1/2”**
Flange Height (in)	**1-1/4”**
Weight (lb/ft)	**0.34**
Gauge	**CROC STUD 20 GA EQ**
Design Thickness	**0.019**
Thickness - Mils	**19**
Yield Strength FY (KSI)	**33**
Coating	**G40**

GROSS SECTION PROPERTIES

Cross Section Area **A**	**0.099 in.2**
Moment of inertia **Ixx**	**0.102in.4**
Section modulus **Sxx**	**0.081in.3**
Radius of gyration **Rxx**	**1.014in.**
Moment of inertia **Iyy**	**0.02 in.4**
Radius of gyration **Ryy**	**0.453in.**

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection **Ixx**	**0.096in.4**
Four	**4in.3**
Section modulus **Sxx**	**0.065in.3**
Allowable bending moment **Ma-L**	**1.29in.-k**
Allowable moment based on distortional buckling **Ma-D**	**1.16in-k**
Allowable strong axis shear away from punchouts **Vag**	**258lbs**
Allowable strong axis shear at punchouts **VaNet**	**196lbs**

TORSION PROPERTIES

St Venant torsion constant **J1000**	**0.012in.4**
Warping constant **Cw**	**0.027 in.6**
Distance from shear center to neutral axis **Xo**	**-0.952in.**
Distance from shear center to mid-plane of web **m**	**0.57 in.**
Polar radius of gyration **Ro**	**1.463in.**
Beta **β**	**0.577β**
Max. unbraced length **Lu**	**30.3in.**

DS-21220

DS-21220 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
Studco Building Systems US LLC 1700 Boulter Industrial Parkway Webster NY 14580 USA www.studcosystems.com

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LIMITING HEIGHTS NON-COMPOSITE FULLY BRACED FT-IN

Spacing o.c (in)	5 psf			7.5 psf			10 psf			15 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12”	13’ 7”	11’ 0”	9’ 8”	11’ 7”	9’ 7”	8’ 5”	10’ 1”	8’ 8”	7’ 8”	8’ 3”	7’ 6”	6’ 8”
16”	12’ 4”	10’ 0”	8’ 9”	10’ 1”	8’ 8”	7’ 8”	8’ 9”	7’ 10”	6’ 11”	7’ 1”	6’ 10”	6’ 0”
24”	10’ 1”	8’ 8”	7’ 8”	8’ 3”	7’ 6”	6’ 8”	7’ 1”	6’ 10”	6’ 0”	5’ 10” e	5’ 10” e	5’ 3”

LIMITING HEIGHTS NON-COMPOSITE BRACED AT 48" O.C. FT-IN

Spacing o.c (in)	5 psf			7.5 psf			10 psf			15 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12"	13’ 6”	11’ 0”	9’ 8”	11’ 0”	9’ 7”	8’ 5”	9’ 6”	8’ 8”	7’ 8”	7’ 9”	7’ 6”	6’ 8”
16"	11’ 8”	10’ 0”	8’ 9”	9’ 6”	8’ 8”	7’ 8”	8’ 3”	7’ 10”	6’ 11”	6’ 9”	6’ 9”	6’ 0”
24"	9’ 6”	8’ 8”	7’ 8”	7’ 9”	7’ 6”	6’ 8”	6’ 9”	6’ 9”	6’ 0”	5’ 6” e	5’ 6” e	5’ 3”

LIMITING HEIGHTS COMPOSITE INTERIOR NON-STRUCTURAL DRYWALL STUDS

Spacing o.c (in)	5 psf			7.5 psf			10 psf			15 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12"	16’-8”	15’-3”	13’-9”	14’-2”f	13’-4”	12’-1”	12’-4”f	12’-2”	10’-11”	8’-2”f	8’-2”f	8’-2”f
16"	15’-2”	13’-11”	12’-6”	12’-4”f	12’-2”	10’-11”	10’-8”f	10’-8”f	9’-11”	7’-1”f	7’-1”f	7’-1”f
24"	12’-4”f	12’-2”	10’-11”	10’-0”f	10’-0”f	9’-6”	8’-8”f	8’-8”f	8’-3”	-	-	-

Suitable for UL Assemblies U419, U465 & U411

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