

PROJECT SUBMITTAL SHEET

FOR MORE INFORMATION OR QUESTIONS,
PLEASE CONTACT THE TECHNICAL DEPARTMENT:
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SUPER STUD: TECHNICAL@BUYSUPERSTUD.COM

400S125-21 (Standard Punch)

Product Line: 400NS125-21 NitroStud 21 mil (EQ20 ga.)

Coating: G40 (standard), G60 (special order)

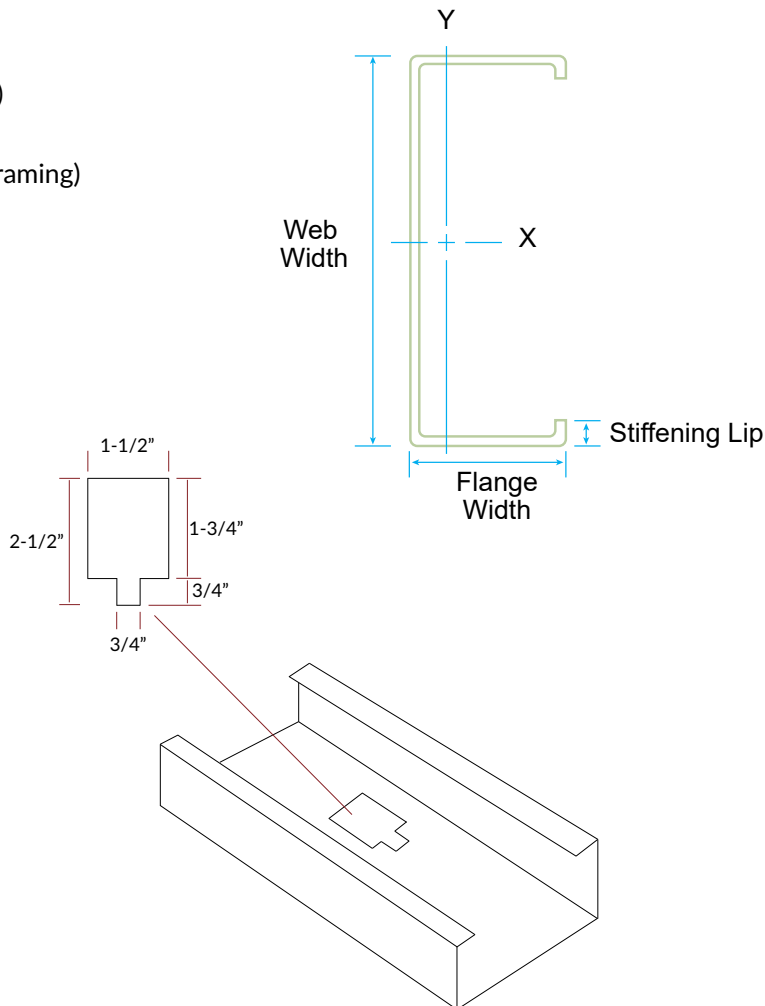
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	4 in.	Yield Strength, F _y	50 ksi
Flange Width	1.25 in.	Design Thickness	0.0220 in.
Lip Length	.25 in.	Min. Design Thickness	0.0209 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.151
Weight (lb/ft)	Linear weight per foot	0.51
I _x (in ⁴)	Moment of inertia about the x-axis	0.3581
S _x (in ³)	Section modulus about the x-axis	0.1801
R _x (in)	Radius of gyration about the x-axis	1.5391
I _y (in ⁴)	Moment of inertia about the y-axis	0.025
R _y (in)	Radius of gyration about the y-axis	0.4063

EFFECTIVE PROPERTIES		
I _{xe} (in ³)	Effective moment of inertia (x-axis)	0.279
S _{xe} (in ³)	Effective section modulus (x-axis)	0.1176
M _a (in-k)	Allowable moment capacity	3.52
M _{ad} (in-k)	Design moment capacity	3.52
V _{ag} (lb)	Allowable web crippling	397
V _{anet} (lb)	Net allowable shear	337

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.0244
C _w (in ⁶)	Warping constant	0.0799
X _o (in)	Distance from shear center to centroid	-0.7029
m (in)	Torsional radius of gyration	0.3673
R _o (in)	Polar radius of gyration	1.7401
Beta	Torsional Flexural Constant	0.8368



CODES AND STANDARDS:

EB Metal US/Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- AISI S100-16 (2020) w/S2-20 and AISI S220-20
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U411, U412, U419, U420, U425, U435, U451, U465, UL 263, CIKV.R38201, CIKV7.R38201
- Tested in accordance with ASTM E119; ANSI/UL 263
- Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202
- Meets ASTM C754 when installed properly in structure.

For LEED Letter requests please submit through: ebmetal.us or buysuperstud.com

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