

PROJECT SUBMITTAL SHEET

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

400S125-18 (Standard Punch)

Product Line: 400NS125-18 NitroStud 18 mil (25 ga.)

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

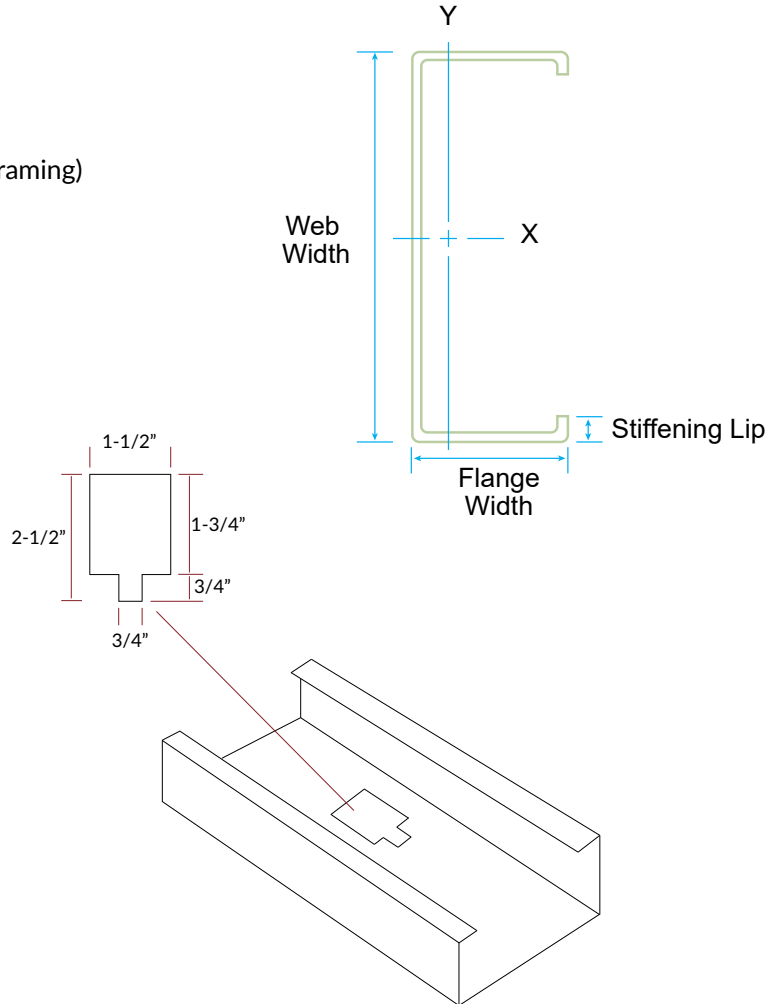
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	4 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0186 in.
Lip Length	.25 in.	Min. Design Thickness	0.0179 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.128
Weight (lb/ft)	Linear weight per foot	0.44
I _x (in ⁴)	Moment of inertia about the x-axis	0.3055
S _x (in ³)	Section modulus about the x-axis	0.1534
R _x (in)	Radius of gyration about the x-axis	1.5432
I _y (in ⁴)	Moment of inertia about the y-axis	0.0213
R _y (in)	Radius of gyration about the y-axis	0.4075

EFFECTIVE PROPERTIES		
I _{xe} (in ³)	Effective moment of inertia (x-axis)	0.2495
S _{xe} (in ³)	Effective section modulus (x-axis)	0.1079
M _a (in-k)	Allowable moment capacity	1.78
M _{ad} (in-k)	Design moment capacity	1.78
V _{ag} (lb)	Allowable web crippling	237
V _{anet} (lb)	Net allowable shear	226

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.0148
C _w (in ⁶)	Warping constant	0.0686
X _o (in)	Distance from shear center to centroid	-0.7042
m (in)	Torsional radius of gyration	0.3667
R _o (in)	Polar radius of gyration	1.7445
Beta	Torsional Flexural Constant	0.8371



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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