



PROJECT SUBMITTAL SHEET

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



250S125-21 (Standard Punch)

Product Line: 250NS125-21 NitroStud 21 mil (EQ20 ga.)

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

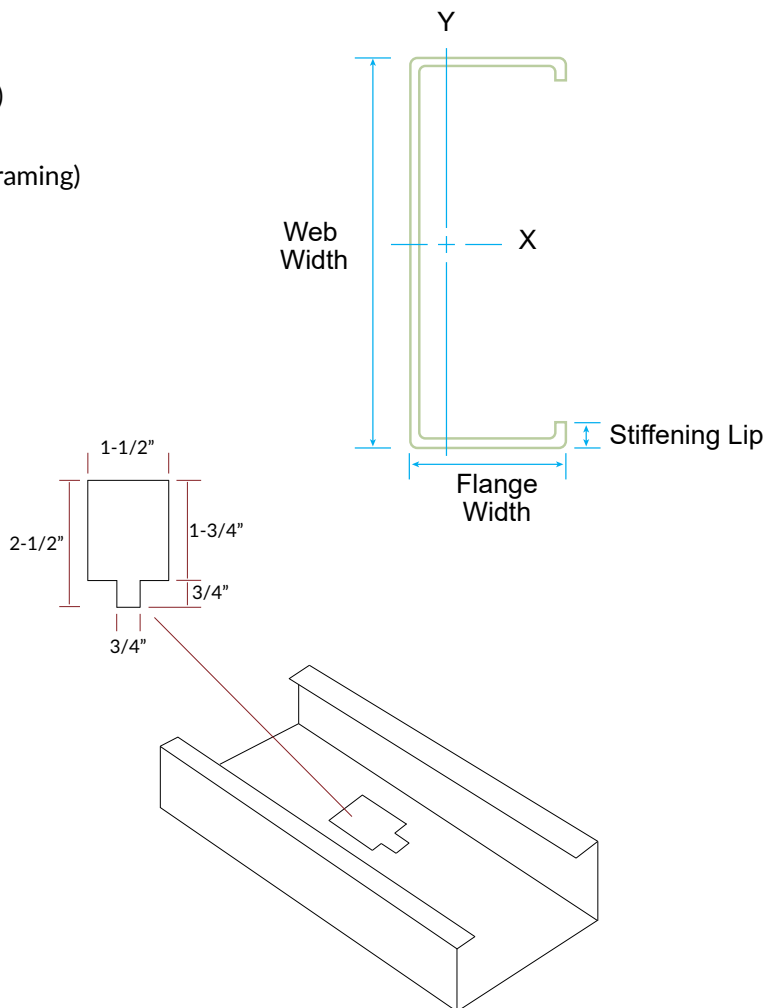
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.50 in.	Yield Strength, Fy	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	0.118
Weight (lb/ft)	Linear weight per foot	0.40
I _x (in ⁴)	Moment of inertia about the x-axis	0.12
S _x (in ³)	Section modulus about the x-axis	0.0969
R _x (in)	Radius of gyration about the x-axis	1.0079
I _y (in ⁴)	Moment of inertia about the y-axis	0.0221
R _y (in)	Radius of gyration about the y-axis	0.4325

EFFECTIVE PROPERTIES		
I _{xe} (in ³)	Effective moment of inertia (x-axis)	0.0979
S _{xe} (in ³)	Effective section modulus (x-axis)	0.0685
M _a (in-k)	Allowable moment capacity	2.05
M _{ad} (in-k)	Design moment capacity	2.05
V _{ag} (lb)	Allowable web crippling	621
V _{anet} (lb)	Net allowable shear	355

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.0191
C _w (in ⁶)	Warping constant	0.0288
X _o (in)	Distance from shear center to centroid	-0.8503
m (in)	Torsional radius of gyration	0.442
R _o (in)	Polar radius of gyration	1.3877
Beta	Torsional Flexural Constant	0.6246



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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