



PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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162S125-21 (Standard Punch)

Product Line: 162NS125-21 NitroStud 21 mil (20EQ ga.)

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

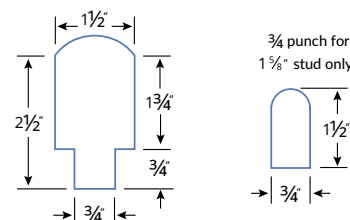
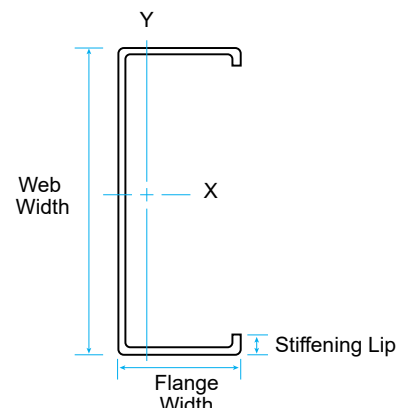
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	1.625 in.	Yield Strength, Fy	50 ksi
Flange Width	1.25 in.	Design Thickness	0.0220 in.
Lip Length	.250 in.	Min. Steel Thickness	0.0209 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.096
Weight (lb/ft)	Linear weight per foot	0.33
I _x (in ⁴)	Moment of inertia about the x-axis	0.0443
S _x (in ³)	Section modulus about the x-axis	0.0552
R _x (in)	Radius of gyration about the x-axis	0.6786
I _y (in ⁴)	Moment of inertia about the y-axis	0.0179
R _y (in)	Radius of gyration about the y-axis	0.4318

EFFECTIVE PROPERTIES		
I _{xe} (in ³)	Effective moment of inertia (x-axis)	0.0336
S _{xe} (in ³)	Effective section modulus (x-axis)	0.0349
M _a (in-k)	Allowable moment capacity	0.873
M _{ad} (in-k)	Design moment capacity	0.873
V _{ag} (lb)	Allowable shear force in web	530
V _{anet} (lb)	Net allowable shear	151

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.0155
C _w (in ⁶)	Warping constant	0.0099
X _o (in)	Distance from shear center to centroid	-0.9286
m (in)	Torsional radius of gyration	0.4777
R _o (in)	Polar radius of gyration	1.2285
Beta	Torsional Flexural Constant	0.4287



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.). Center of last punchout is no less than 12" from end of member.

CODES AND STANDARDS:

Super Stud/EB Metal US 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:
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This product submittal sheet reflects the most current information available and supersedes any and all previous digital or printed publications effective February 2026.