PRODUCT SUBMITTAL SHEET

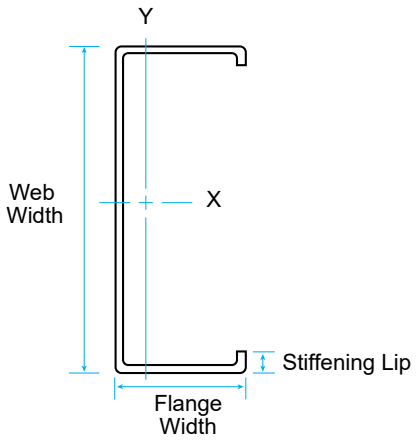
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

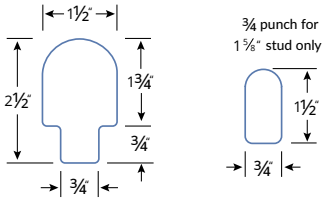
250S125-21 (Standard Punch)

Product Line: 250NS125-21 Nitro Stud EQ 20GA (21 mil)
Coating: G40 (standard), G60 (Available)
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	.250 in.	Min. Steel Thickness	0.0209 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.118
Weight (lb/ft)	Linear weight per foot	0.4
Ix (in^4)	Moment of inertia about the x-axis	0.12
Sx (in^3)	Section modulus about the x-axis	0.0969
Rx (in)	Radius of gyration about the x-axis	1.0079
Iy (in^4)	Moment of inertia about the y-axis	0.0221
Ry (in)	Radius of gyration about the y-axis	0.4325
EFFECTIVE PROPERTIES		
Ixe (in^3)	Effective moment of inertia (x-axis)	0.0979
Sxe (in^3)	Effective section modulus (x-axis)	0.0685
Ma (in-k)	Allowable moment capacity	2.05
Va_g (lb)	Allowable shear force in web	621
Vanet (lb)	Net allowable shear	355
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.0191
Cw (in^6)	Warping constant	0.288
Xo (in)	Distance from shear center to centroid	-0.8503
Ro (in)	Polar radius of gyration	1.3877
Beta	Torsional Flexural Constant	0.6246





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 & Standards:

- **UL Designs**
  - U411, U412, U419, U420, U425, U435, U451, U465, UL 263, CIKVR38201, CIKV7.R38201
- **Tested In Accordance With**
  - ASTM E119; ANSI/UL 263
- **Nonstructural Members**
  - AISI S220
  - ASTM C645
  - ASTM C754
- **Material Standards**
  - ASTM A1003/A1003M
  - ASTM A653/A653M
- **Design Standards**
  - AISI S100-16 (2020) w/S2-20
- **Building Codes**
  - International Building Code (IBC) 2006–2024
- **Sustainability & Compliance:**
  - SFIA Quality Certified Manufacturing
  - Industry-Wide EPD Participant
  - HPD Documentation Available Upon Request
  - LEED Documentation Available Upon Request
  - Buy America / Build America (BABA) Documentation Available Upon Request
  - Manufactured in USA

NEW HAMPSHIRE | NEW JERSEY | MISSISSIPPI
Stronger **Together.**