PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
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250S125-18 (Standard Punch)

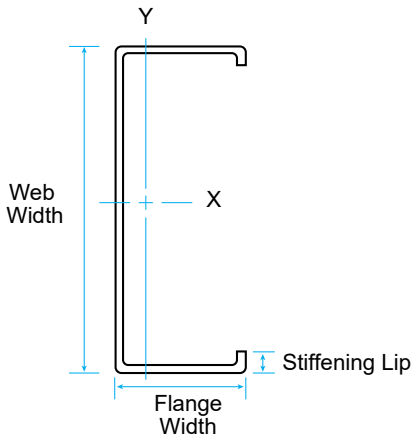
Product Line: 250NS125-18 Nitro Stud 25GA (18 mil)

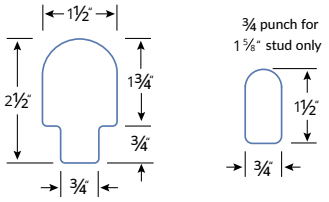
Coating: G40 (standard), G60 (Available)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.50 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0188 in.
Lip Length	.250 in.	Min. Steel Thickness	0.0179 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.1
Weight (lb/ft)	Linear weight per foot	0.34
Ix (in^4)	Moment of inertia about the x-axis	0.1028
Sx (in^3)	Section modulus about the x-axis	0.0828
Rx (in)	Radius of gyration about the x-axis	1.0117
Iy (in^4)	Moment of inertia about the y-axis	0.0189
Ry (in)	Radius of gyration about the y-axis	0.4337
EFFECTIVE PROPERTIES		
Ixe (in^3)	Effective moment of inertia (x-axis)	0.0877
Sxe (in^3)	Effective section modulus (x-axis)	0.0629
Ma (in-k)	Allowable moment capacity	1.038
Va_g (lb)	Allowable shear force in web	364
Vanet (lb)	Net allowable shear	234
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.0116
Cw (in^6)	Warping constant	0.0249
Xo (in)	Distance from shear center to centroid	-0.8514
Ro (in)	Polar radius of gyration	1.3916
Beta	Torsional Flexural Constant	0.6257





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

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