PRODUCT SUBMITTAL SHEET

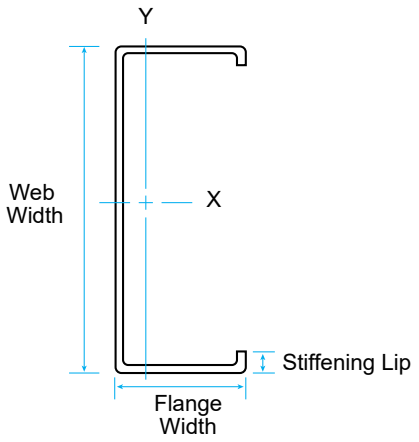
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

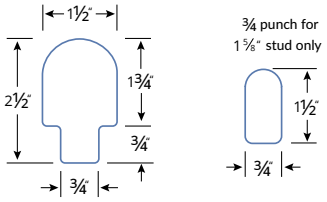
162S125-18 (Standard Punch)

Product Line: 162NS125-18- Nitro Stud 25GA (18 mil)
Coating: G40 (standard), G60 (Available)
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	1.625 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	0.082
Weight (lb/ft)	Linear weight per foot	0.28
Ix (in^4)	Moment of inertia about the x-axis	0.0381
Sx (in^3)	Section modulus about the x-axis	0.0473
Rx (in)	Radius of gyration about the x-axis	0.6824
Iy (in^4)	Moment of inertia about the y-axis	0.0154
Ry (in)	Radius of gyration about the y-axis	0.4332
EFFECTIVE PROPERTIES		
Ixe (in^3)	Effective moment of inertia (x-axis)	0.0301
Sxe (in^3)	Effective section modulus (x-axis)	0.0318
Ma (in-k)	Allowable moment capacity	0.524
Va_g (lb)	Allowable shear force in web	300
Vanet (lb)	Net allowable shear	92
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.0094
Cw (in^6)	Warping constant	0.0086
Xo (in)	Distance from shear center to centroid	-0.9299
Ro (in)	Polar radius of gyration	1.232
Beta	Torsional Flexural Constant	0.4304





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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