PRODUCT SUBMITTAL SHEET

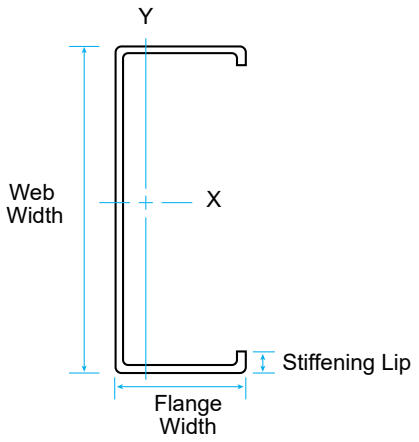
For more information or questions, please contact:
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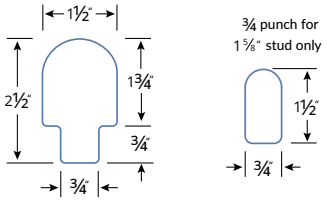
162S125-21 (Standard Punch)

Product Line: 162NS125-21 Nitro Stud EQ 20GA (21 mil)
Coating: G40 (standard), G60 (Available)
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	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
Ix (in^4)	Moment of inertia about the x-axis	0.0443
Sx (in^3)	Section modulus about the x-axis	0.0552
Rx (in)	Radius of gyration about the x-axis	0.6786
Iy (in^4)	Moment of inertia about the y-axis	0.0179
Ry (in)	Radius of gyration about the y-axis	0.4318
EFFECTIVE PROPERTIES		
Ixe (in^3)	Effective moment of inertia (x-axis)	0.0336
Sxe (in^3)	Effective section modulus (x-axis)	0.0349
Ma (in-k)	Allowable moment capacity	0.873
Va_g (lb)	Allowable shear force in web	530
Vanet (lb)	Net allowable shear	151
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.0155
Cw (in^6)	Warping constant	0.0099
Xo (in)	Distance from shear center to centroid	-0.9286
Ro (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 & 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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