PRODUCT SUBMITTAL SHEET

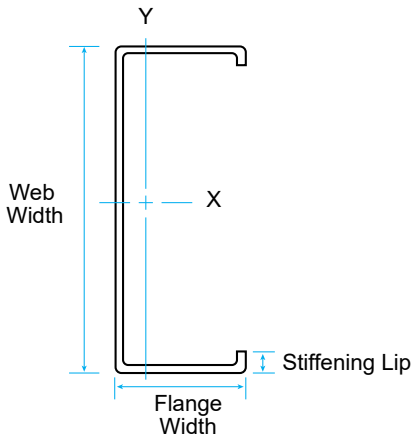
For more information or questions, please contact:
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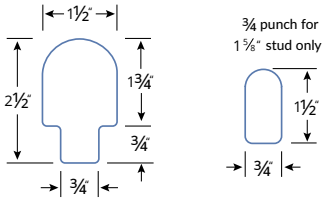
400S125-21 (Standard Punch)

Product Line: 400NS125-21 Nitro Stud EQ 20GA (21 mil)
Coating: G40 (standard), G60 (Available)
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	4 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	0.151
Weight (lb/ft)	Linear weight per foot	0.51
Ix (in^4)	Moment of inertia about the x-axis	0.3581
Sx (in^3)	Section modulus about the x-axis	0.1801
Rx (in)	Radius of gyration about the x-axis	1.5391
Iy (in^4)	Moment of inertia about the y-axis	0.025
Ry (in)	Radius of gyration about the y-axis	0.4063
EFFECTIVE PROPERTIES		
Ixe (in^3)	Effective moment of inertia (x-axis)	0.279
Sxe (in^3)	Effective section modulus (x-axis)	0.1176
Ma (in-k)	Allowable moment capacity	3.52
Va_g (lb)	Allowable shear force in web	397
Vanet (lb)	Net allowable shear	337
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.0244
Cw (in^6)	Warping constant	0.0799
Xo (in)	Distance from shear center to centroid	-0.7029
Ro (in)	Polar radius of gyration	1.7401
Beta	Torsional Flexural Constant	0.8368





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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