# PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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## 400S125-18 (Standard Punch)

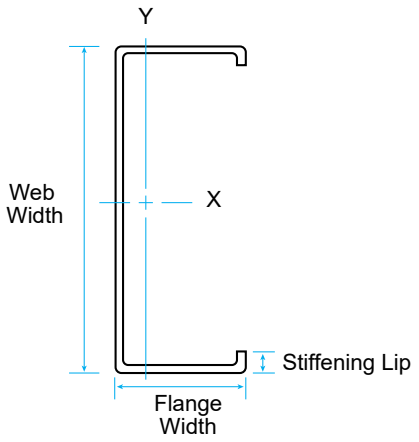
Product Line: 400NS125-18 Nitro Stud 25GA (18 mil)

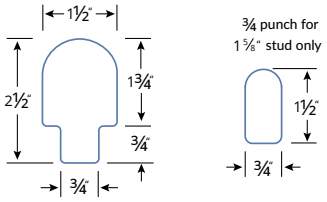
Coating: G40 (standard), G60 (Available)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

| GEOMETRIC PROPERTIES | | | |
|---|---|---|---|
| Web Depth | 4 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 | 0.128 |
| Weight (lb/ft) | Linear weight per foot | 0.44 |
| Ix ($in^4$) | Moment of inertia about the x-axis | 0.3055 |
| Sx ($in^3$) | Section modulus about the x-axis | 0.1534 |
| Rx (in) | Radius of gyration about the x-axis | 1.5432 |
| Iy ($in^4$) | Moment of inertia about the y-axis | 0.0213 |
| Ry (in) | Radius of gyration about the y-axis | 0.4075 |
| | | |
| EFFECTIVE PROPERTIES | | |
| Ixe ($in^3$) | Effective moment of inertia (x-axis) | 0.2495 |
| Sxe ($in^3$) | Effective section modulus (x-axis) | 0.1079 |
| Ma (in-k) | Allowable moment capacity | 1.78 |
| $Va_g$ (lb) | Allowable shear force in web | 237 |
| Vanet (lb) | Net allowable shear | 226 |
| | | |
| TORSIONAL PROPERTIES | | |
| J x 1000 ($in^4$) | St. Venant torsional constant | 0.0148 |
| Cw ($in^6$) | Warping constant | 0.0686 |
| Xo (in) | Distance from shear center to centroid | -0.7042 |
| Ro (in) | Polar radius of gyration | 1.7445 |
| Beta | Torsional Flexural Constant | 0.8371 |




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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