

## 362T125-18 Track

Product Line: 362NT125-18 NitroTrack 18 mil (25 ga.)

Coating: G40 (standard), G60 (special order)

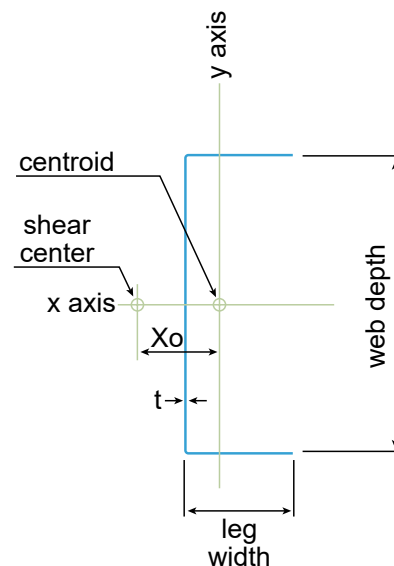
Specification Section: 09.22.16 (Non-Structural Metal Framing)

| GEOMETRIC PROPERTIES |           |                       |            |
|----------------------|-----------|-----------------------|------------|
| Web Depth            | 3.625 in. | Yield Strength, $F_y$ | 33 ksi     |
| Leg Width            | 1.25 in.  | Design Thickness      | 0.0188 in. |
|                      |           | Min. Steel Thickness  | 0.0179 in. |

| GROSS PROPERTIES         |                                     |        |
|--------------------------|-------------------------------------|--------|
| Area (in <sup>2</sup> )  | Total cross-sectional steel area    | 0.116  |
| Weight (lb/ft)           | Linear weight per foot              | 0.39   |
| $I_x$ (in <sup>4</sup> ) | Moment of inertia about the x-axis  | 0.2398 |
| $S_x$ (in <sup>3</sup> ) | Section modulus about the x-axis    | 0.1282 |
| $R_x$ (in)               | Radius of gyration about the x-axis | 1.4388 |
| $I_y$ (in <sup>4</sup> ) | Moment of inertia about the y-axis  | 0.0167 |
| $R_y$ (in)               | Radius of gyration about the y-axis | 0.3797 |

| EFFECTIVE PROPERTIES        |                                      |        |
|-----------------------------|--------------------------------------|--------|
| $I_{xe}$ (in <sup>3</sup> ) | Effective moment of inertia (x-axis) | 0.1449 |
| $S_{xe}$ (in <sup>3</sup> ) | Effective section modulus (x-axis)   | 0.0597 |
| $M_a$ (in-k)                | Allowable moment capacity            | 0.986  |
| $V_y$ (lb)                  | Allowable shear force in web         | 163    |

| TORSIONAL PROPERTIES               |                                                |         |
|------------------------------------|------------------------------------------------|---------|
| $J \times 1000$ (in <sup>4</sup> ) | St. Venant torsional constant                  | 0.0136  |
| $C_w$ (in <sup>6</sup> )           | Warping constant                               | 0.041   |
| $X_o$ (in)                         | Distance from shear center to centroid         | -0.6678 |
| $m$ (in)                           | Distance from shear center to mid-plane of web | 0.418   |
| $R_o$ (in)                         | Polar radius of gyration                       | 1.631   |
| Beta                               | Torsional Flexural Constant                    | 0.8324  |



### CODES AND STANDARDS:

Super Stud/EB Metal US products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- AISI S100-16 (2020) w/S2-20 and AISI S220-20
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U411, U412, U419, U420, U425, U435, U451, U465, UL 263, CIKV.R38201, CIKV7.R38201
- Tested in accordance with ASTM E119; ANSI/UL 263
- Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202
- Meets ASTM C754 when installed properly in structure

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