

**Product Name:** 4" SmartTrack20

**Description:** 400ST125-19

### Physical Properties

|                  |       |                        |        |
|------------------|-------|------------------------|--------|
| Web Depth (in)   | 4.00  | Yield Stress Fy (KSI)  | 50     |
| Leg Length (in)  | 1.25  | Mils                   | 19     |
| Standard Coating | G40   | Design Thickness (in)  | 0.0200 |
| Weight (lb/ft)   | 0.430 | Minimum Thickness (in) | 0.0190 |
|                  |       | Gauge EQ               | 20     |

### Section Properties

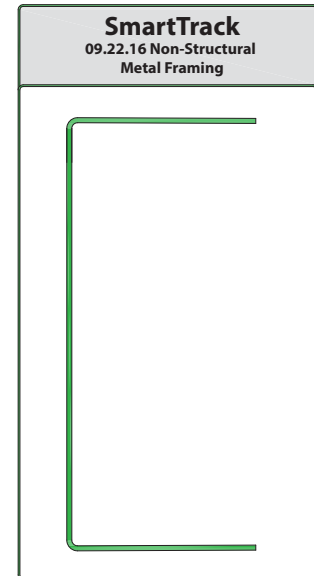
|                               |                       |
|-------------------------------|-----------------------|
| Cross Sectional Area (A)      | 0.130 in <sup>2</sup> |
| Moment of Inertia (Ix)        | 0.315 in <sup>4</sup> |
| Radius of Gyration (Rx)       | 1.556 in              |
| Gross Moment of Inertia (Iy)  | 0.018 in <sup>4</sup> |
| Gross Radius of Gyration (Ry) | 0.374 in              |

### Effective Section Properties

|  |                       |
|--|-----------------------|
| Moment of Inertia for Deflection (Ixe) | 0.255 in <sup>4</sup> |
| Section Modulus (Sxe)                  | 0.076 in <sup>3</sup> |
| Allowable Bending Moment (Ma)          | 1.500 in-k            |

### Torsional Properties

|   |                       |
|---|-----------------------|
| St. Venant Torsion Constant (Jx1000)            | 0.017 in <sup>4</sup> |
| Warping Constant (Cw)                           | 0.055 in <sup>6</sup> |
| Distance from Shear Center to Neutral Axis (Xo) | -0.637 in             |
| Radii of Gyration (Ro)                          | 1.722 in              |
| Torsional Flexural Constant (Beta)              | 0.863                 |



### MANUFACTURING Codes & Standards

- NASPEC AISI S100-07 IBC 2009 2012 Compliant
- Coated in accordance to ASTM A1003 & A653
- Meets or exceeds ASTM C645 & C745 & AISI S220
- Multiple UL Design Listings including U419
- 3rd Party Code Evaluation Report ICC-ESR #3943
- US Patent No. D618,365S

### GREEN Benefits & LEED Data:

- LEED Credit MR 2 - Construction Waste Mgmt - 1-2 Points
- LEED Credit MR 4 - Recycled Credit - 1-2 Points
- LEED Credit MR 5 - Regional Materials - 1-2 Points
- CRACO products are 100% recyclable
- Contact Technical Services for more information