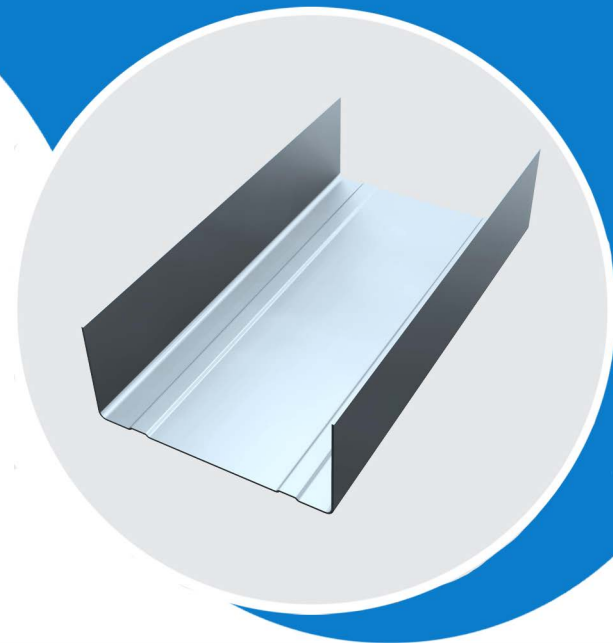


# Tracks (T)



| MATERIAL                  |                 |
|---------------------------|-----------------|
| Web (in)                  | 1 $\frac{5}{8}$ |
| Flange (in)               | 1 $\frac{1}{4}$ |
| Yield Strength Fy (KSI)   | 33              |
| Tensile Strength Fu (KSI) | 45              |
| Design Thickness (in)     | 0.0312          |
| Minimum Thickness (mil)   | 30              |
| Gauge                     | 20D             |
| Available Finish G60, G90 |                 |
|                           |                 |

| GROSS SECTION PROPERTIES                   |       |
|--------------------------------------------|-------|
| Weight of Member: (lb/ft)                  | 0.44  |
| Cross Sectional Area: A (in <sup>2</sup> ) | 0.129 |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 0.070 |
| Section Modulus: Sx (in <sup>3</sup> )     | 0.079 |
| Radius of Gyration: Rx (in)                | 0.735 |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 0.022 |
| Radius of Gyration: Ry (in)                | 0.409 |

| EFFECTIVE SECTION PROPERTIES                         |       |
|------------------------------------------------------|-------|
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 0.058 |
| Section Modulus: Sxe (in <sup>3</sup> )              | 0.051 |
| Allowable Bending Moment: Ma (in-k)                  | 1.00  |
| Allowable Shear Force: Va (lb)                       | 597   |
| (check web crippling)                                |       |
|                                                      |       |
|                                                      |       |

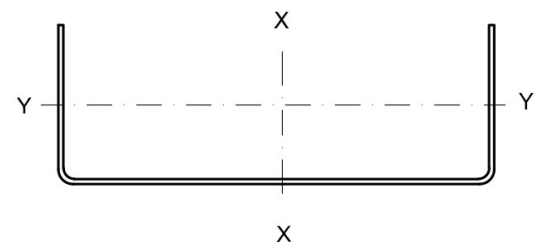
| TORSIONAL SECTION PROPERTIES                               |        |
|------------------------------------------------------------|--------|
| St. Venant Torsional Constant: Jx1000 (in <sup>4</sup> )   | 0.042  |
| Torsional Warping Constant: Cw (in <sup>6</sup> )          | 0.012  |
| Shear Center to Centroid on Principal X-axis: Xo (in)      | -0.870 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 1.210  |
|                                                            |        |

## PRODUCT ID

162T 125-30 (1 $\frac{5}{8}$ x1 $\frac{1}{4}$ x20Dga) Grade 33

## CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16



See Hermes/Hephaistos Technical Manual  
for complete design data