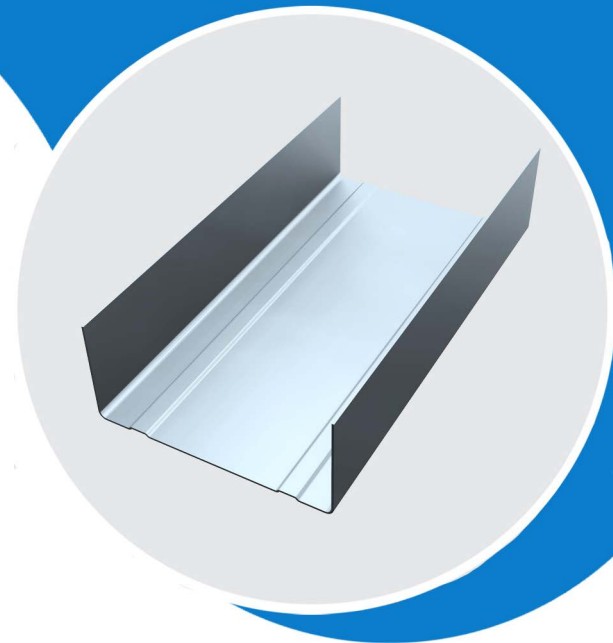


# Tracks (T)



| MATERIAL                  |        |
|---------------------------|--------|
| Web (in)                  | 14     |
| Flange (in)               | 2      |
| Yield Strength Fy (KSI)   | 33, 50 |
| Tensile Strength Fu (KSI) | 45, 65 |
| Design Thickness (in)     | 0.0566 |
| Minimum Thickness (mil)   | 54     |
| Gauge                     | 16     |
| Available Finish G60, G90 |        |

| GROSS SECTION PROPERTIES                   |        |
|--------------------------------------------|--------|
| Weight of Member: (lb/ft)                  | 3.46   |
| Cross Sectional Area: A (in <sup>2</sup> ) | 1.018  |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 24.232 |
| Section Modulus: Sx (in <sup>3</sup> )     | 3.413  |
| Radius of Gyration: Rx (in)                | 4.879  |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 0.242  |
| Radius of Gyration: Ry (in)                | 0.487  |

| EFFECTIVE SECTION PROPERTIES                         |        |        |
|------------------------------------------------------|--------|--------|
| <b>Yield Stress (ksi)</b>                            | 33     | 50     |
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 20.099 | 18.385 |
| Section Modulus: Sxe (in <sup>3</sup> )              | 1.870  | 1.590  |
| Allowable Bending Moment: Ma (in-k)                  | 30.85  | 39.75  |
| Allowable Shear Force: Va (lb)                       | 1160   | 1160   |
| (check web crippling)                                |        |        |

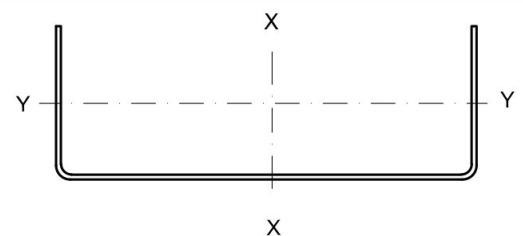
| TORSIONAL SECTION PROPERTIES                               |        |
|------------------------------------------------------------|--------|
| St. Venant Torsional Constant: Jx1000 (in <sup>4</sup> )   | 1.0872 |
| Torsional Warping Constant: Cw (in <sup>6</sup> )          | 9.520  |
| Shear Center to Centroid on Principal X-axis: Xo (in)      | -0.665 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 4.948  |

## PRODUCT ID

1400T200-54 (14x2x16ga)

## CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual  
for complete design data