

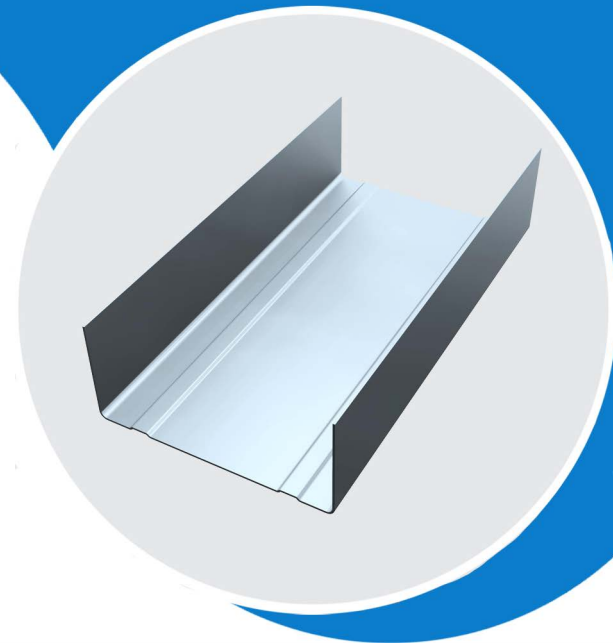
# Tracks (T)

| MATERIAL                  |        |
|---------------------------|--------|
| Web (in)                  | 14     |
| Flange (in)               | 1½     |
| Yield Strength Fy (KSI)   | 33, 50 |
| Tensile Strength Fu (KSI) | 45, 65 |
| Design Thickness (in)     | 0.0713 |
| Minimum Thickness (mil)   | 68     |
| Gauge                     | 14     |
| Available Finish G60, G90 |        |
|                           |        |

| GROSS SECTION PROPERTIES                   |        |
|--------------------------------------------|--------|
| Weight of Member: (lb/ft)                  | 4.12   |
| Cross Sectional Area: A (in <sup>2</sup> ) | 1.211  |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 27.000 |
| Section Modulus: Sx (in <sup>3</sup> )     | 3.790  |
| Radius of Gyration: Rx (in)                | 4.722  |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 0.130  |
| Radius of Gyration: Ry (in)                | 0.328  |

| EFFECTIVE SECTION PROPERTIES                         |        |        |
|------------------------------------------------------|--------|--------|
| Yield Stress (ksi)                                   | 33     | 50     |
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 25.412 | 23.803 |
| Section Modulus: Sxe (in <sup>3</sup> )              | 2.719  | 2.354  |
| Allowable Bending Moment: Ma (in-k)                  | 53.72  | 70.47  |
| Allowable Shear Force: Va (lb)                       | 2322   | 2322   |
| (check web crippling)                                |        |        |
|                                                      |        |        |

| TORSIONAL SECTION PROPERTIES                               |        |
|------------------------------------------------------------|--------|
| St. Venant Torsional Constant: Jx1000 (in <sup>4</sup> )   | 2.0521 |
| Torsional Warping Constant: Cw (in <sup>6</sup> )          | 5.349  |
| Shear Center to Centroid on Principal X-axis: Xo (in)      | -0.407 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 4.751  |
|                                                            |        |

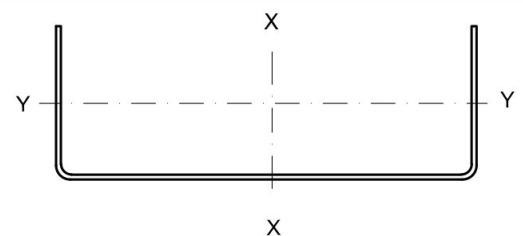


## PRODUCT

1400T150-68 (14x1½x14ga)

## CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual  
for complete design data