

# Tracks (T)

| MATERIAL                  |        |
|---------------------------|--------|
| Web (in)                  | 8      |
| Flange (in)               | 1½     |
| Yield Strength Fy (KSI)   | 33, 50 |
| Tensile Strength Fu (KSI) | 45, 65 |
| Design Thickness (in)     | 0.1017 |
| Minimum Thickness (mil)   | 97     |
| Gauge                     | 12     |
| Available Finish G60, G90 |        |
|                           |        |

| GROSS SECTION PROPERTIES                   |       |
|--------------------------------------------|-------|
| Weight of Member: (lb/ft)                  | 3.80  |
| Cross Sectional Area: A (in <sup>2</sup> ) | 1.116 |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 9.483 |
| Section Modulus: Sx (in <sup>3</sup> )     | 2.270 |
| Radius of Gyration: Rx (in)                | 2.914 |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 0.15  |
| Radius of Gyration: Ry (in)                | 0.385 |

| EFFECTIVE SECTION PROPERTIES                         |       |       |
|------------------------------------------------------|-------|-------|
| <b>Yield Stress (ksi)</b>                            | 33    | 50    |
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 9.481 | 9.481 |
| Section Modulus: Sxe (in <sup>3</sup> )              | 2.269 | 2.195 |
| Allowable Bending Moment: Ma (in-k)                  | 47.62 | 65.71 |
| Allowable Shear Force: Va (lb)                       | 8846  | 10888 |
| (check web crippling)                                |       |       |
|                                                      |       |       |

| TORSIONAL SECTION PROPERTIES                               |        |
|------------------------------------------------------------|--------|
| St. Venant Torsional Constant: Jx1000 (in <sup>4</sup> )   | 3.849  |
| Torsional Warping Constant: Cw (in <sup>6</sup> )          | 2.162  |
| Shear Center to Centroid on Principal X-axis: Xo (in)      | -0.564 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 2.993  |
|                                                            |        |

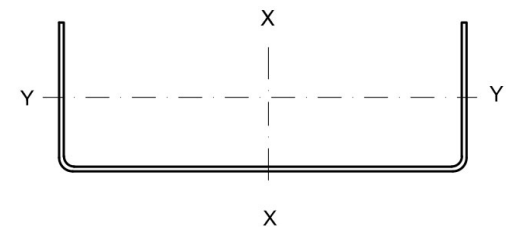


## PRODUCT ID

800T150-97 (8x1½x12ga)

## CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual  
for complete design data