

# Tracks (T)

| MATERIAL                  |        |
|---------------------------|--------|
| Web (in)                  | 8      |
| Flange (in)               | 2½     |
| 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)                  | 2.461 |
| Cross Sectional Area: A (in <sup>2</sup> ) | 0.724 |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 6.690 |
| Section Modulus: Sx (in <sup>3</sup> )     | 1.673 |
| Radius of Gyration: Rx (in)                | 3.040 |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 0.405 |
| Radius of Gyration: Ry (in)                | 0.748 |

| EFFECTIVE SECTION PROPERTIES                         |           |           |
|------------------------------------------------------|-----------|-----------|
| <b>Yield Stress (ksi)</b>                            | <b>33</b> | <b>50</b> |
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 5.261     | 4.570     |
| Section Modulus: Sxe (in <sup>3</sup> )              | 1.169     | 0.94      |
| Allowable Bending Moment: Ma (in-k)                  | 23.10     | 28.08     |
| Allowable Shear Force: Va (lb)                       | 2091      | 2091      |
| (check web crippling)                                |           |           |

| TORSIONAL SECTION PROPERTIES                               |        |
|------------------------------------------------------------|--------|
| St. Venant Torsional Constant: Jx1000 (in <sup>4</sup> )   | 0.773  |
| Torsional Warping Constant: Cw (in <sup>6</sup> )          | 4.533  |
| Shear Center to Centroid on Principal X-axis: Xo (in)      | -1.292 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 3.387  |

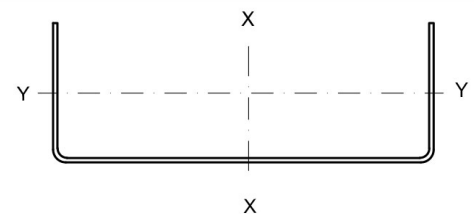


## PRODUCT ID

800T250-54 (8x2½x16ga)

## CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual  
for complete design data