

# Tracks (T)

| MATERIAL                  |        |
|---------------------------|--------|
| Web (in)                  | 8      |
| Flange (in)               | 3      |
| 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)                  | 4.71   |
| Cross Sectional Area: A (in <sup>2</sup> ) | 1.384  |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 13.251 |
| Section Modulus: Sx (in <sup>3</sup> )     | 3.313  |
| Radius of Gyration: Rx (in)                | 3.093  |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 1.174  |
| Radius of Gyration: Ry (in)                | 0.920  |

| EFFECTIVE SECTION PROPERTIES                         |        |        |
|------------------------------------------------------|--------|--------|
| <b>Yield Stress (ksi)</b>                            | 33     | 50     |
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 11.296 | 10.798 |
| Section Modulus: Sxe (in <sup>3</sup> )              | 2.593  | 2.427  |
| Allowable Bending Moment: Ma (in-k)                  | 51.23  | 72.67  |
| Allowable Shear Force: Va (lb)                       | 7591   | 9670   |
| (check web crippling)                                |        |        |
|                                                      |        |        |

| TORSIONAL SECTION PROPERTIES                               |        |
|------------------------------------------------------------|--------|
| St. Venant Torsional Constant: Jx1000 (in <sup>4</sup> )   | 4.776  |
| Torsional Warping Constant: Cw (in <sup>6</sup> )          | 12.704 |
| Shear Center to Centroid on Principal X-axis: Xo (in)      | -1.678 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 3.637  |
|                                                            |        |

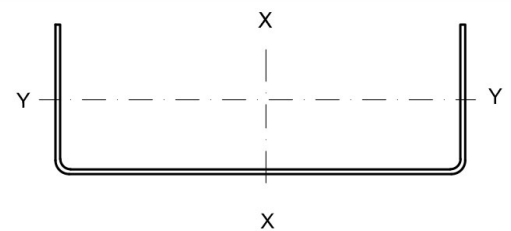


## PRODUCT

800T300-97 (8x3x12ga)

## CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual  
for complete design data