

# Tracks (T)

| MATERIAL                  |        |
|---------------------------|--------|
| Web (in)                  | 5½     |
| Flange (in)               | 2      |
| Yield Strength Fy (KSI)   | 33     |
| Tensile Strength Fu (KSI) | 45     |
| Design Thickness (in)     | 0.0346 |
| Minimum Thickness (mil)   | 33     |
| Gauge                     | 20S    |
| Available Finish G60, G90 |        |
|                           |        |

| GROSS SECTION PROPERTIES                   |       |
|--------------------------------------------|-------|
| Weight of Member: (lb/ft)                  | 1.12  |
| Gross Sectional Area: A (in <sup>2</sup> ) | 0.329 |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 1.567 |
| Section Modulus: Sx (in <sup>3</sup> )     | 0.555 |
| Radius of Gyration: Rx (in)                | 2.184 |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 0.123 |
| Radius of Gyration: Ry (in)                | 0.613 |

| EFFECTIVE SECTION PROPERTIES                         |       |
|------------------------------------------------------|-------|
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 1.246 |
| Section Modulus: Sxe (in <sup>3</sup> )              | 0.307 |
| Allowable Bending Moment: Ma (in-k)                  | 6.07  |
| Allowable Shear Force: Va (lb)                       | 680   |
| (check web crippling)                                |       |
|                                                      |       |
|                                                      |       |

| TORSIONAL SECTION PROPERTIES                               |        |
|------------------------------------------------------------|--------|
| St. Venant Torsional Constant: Jx1000 (in <sup>4</sup> )   | 0.131  |
| Torsional Warping Constant: Cw (in <sup>6</sup> )          | 0.694  |
| Shear Center to Centroid on Principal X-axis: Xo (in)      | -1.088 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 2.516  |
|                                                            |        |

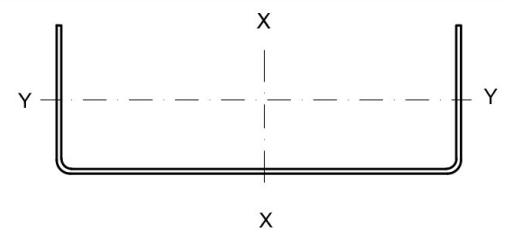


## PRODUCT ID

550T200-33 (5½x2x20Sga) Grade 33

## CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual  
for complete design data