

PRODUCT CATEGORY: STRUCTURAL TRACK  
 PRODUCT NUMBER: 400T125-33  
 COATING: G60/G90 Available


**PHYSICAL PROPERTIES**

WEB DEPTH: 4.000 IN  
 FLANGE HEIGHT: 1.250 IN  
 DESIGN THICKNESS: 0.0346 IN  
 YIELD: 33 KSI  
 WEIGHT: 0.76 LB/LFT

**GROSS SECTION PROPERTIES**

CROSS SECTIONAL AREA (A): 0.225 IN<sup>2</sup>  
 MOMENT OF INERTIA (Ix): 0.549 IN<sup>4</sup>  
 SECTION MODULUS ABOUT X-X AXIS (STRONG AXIS) (Sx): 0.265 IN<sup>3</sup>  
 RADIUS OF GYRATION (Rx): 1.563 IN  
 GROSS MOMENT OF INERTIA (Iy): 0.031 IN<sup>4</sup>  
 GROSS RADIUS OF GYRATION (Ry): 0.371 IN

**EFFECTIVE SECTION PROPERTIES**

MOMENT OF INERTIA (Ix): 0.484 IN<sup>4</sup>  
 SECTION MODULUS (Sx): 0.201 IN<sup>3</sup>  
 ALLOWABLE BENDING MOMENT (Ma): 3.97 IN-KIPS

**TORSIONAL PROPERTIES**

ST VENANT TORSION CONSTANT (J x 1000): 0.0897 IN<sup>4</sup>  
 WARPING CONSTANT (Cw): 0.095 IN<sup>6</sup>  
 DISTANCE FROM SHEAR CENTER TO NEUTRAL AXIS (Xo): -0.63 IN  
 RADII OF GYRATION (Ro): 1.725 IN  
 TORSIONAL FLEXURAL CONSTANT (B): 0.867

**SECTION PROPERTIES TABLE NOTES:**

1. CALCULATED PROPERTIES ARE BASED ON AISI S100-16, NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
2. THE CENTERLINE BEND RADIUS IS BASED ON INSIDE CORNER RADII SHOWN IN THICKNESS CHART.
3. EFFECTIVE PROPERTIES INCORPORATE THE STRENGTH INCREASE FROM THE COLD WORK OF FORMING AS APPLICABLE PER AISI A3.3.2.
4. TABULATED GROSS PROPERTIES ARE BASED ON FULL-UNREDUCED CROSS SECTION OF THE STUDS, AWAY FROM PUNCHOUTS.
5. FOR DEFLECTION CALCULATIONS, USE THE EFFECTIVE MOMENT OF INERTIA.
6. ALLOWABLE MOMENT INCLUDES COLD-WORK OF FORMING.
7. FOR THE STEELS THAT HAVE BOTH 33 AND 50 KSI LISTING, IF THE DESIGN IS BASED ON 50 KSI, THE 50 KSI STEEL NEEDS TO BE SPECIFIED. Example.362S162-54 (50KSI)
8. WEB DEPTH FOR TRACK SECTIONS IS EQUAL TO THE NOMINAL HEIGHT PLUS 2 TIMES THE DESIGN THICKNESS PLUS THE BEND RADIUS. HEMS ON NONSTRUCTURAL RACK SECTIONS ARE IGNORED.

**LEED:**

- COMPLIES WITH ASTM C955
- LEED CREDITS MR 2: CONSTRUCTION WASTE MATERIAL-RAM STEEL FRAMING IS 100% RECYCLEABLE
- LEED CREDITS MR 4: RAM STEEL FRAMING IS FORMED WITH A MINIMUM 25.5% POST CONSUMER AND 14.4% PRE-CONSUMER CONTENT
- LEED CREDITS MR 5: REGIONAL MATERIALS MAY APPLY