

PRODUCT CATEGORY: STRUCTURAL TRACK
 PRODUCT NUMBER: 250T125-43
 COATING: G60/G90 Available


PHYSICAL PROPERTIES

WEB DEPTH: 2.500 IN
 FLANGE HEIGHT: 1.250 IN
 DESIGN THICKNESS: 0.0451 IN
 YIELD: 33 KSI
 WEIGHT: 0.77 LB/LFT

GROSS SECTION PROPERTIES

CROSS SECTIONAL AREA (A): 0.225 IN²
 MOMENT OF INERTIA (Ix): 0.25 IN⁴
 SECTION MODULUS ABOUT X-X AXIS (STRONG AXIS) (Sx): 0.188 IN³
 RADIUS OF GYRATION (Rx): 1.055 IN
 GROSS MOMENT OF INERTIA (Iy): 0.035 IN⁴
 GROSS RADIUS OF GYRATION (Ry): 0.395 IN

EFFECTIVE SECTION PROPERTIES

MOMENT OF INERTIA (Ix): 0.231 IN⁴
 SECTION MODULUS (Sx): 0.147 IN³
 ALLOWABLE BENDING MOMENT (Ma): 2.91 IN-KIPS

TORSIONAL PROPERTIES

ST VENANT TORSION CONSTANT (J x 1000): 0.1526 IN⁴
 WARPING CONSTANT (Cw): 0.042 IN⁶
 DISTANCE FROM SHEAR CENTER TO NEUTRAL AXIS (Xo): -0.755 IN
 RADII OF GYRATION (Ro): 1.356 IN
 TORSIONAL FLEXURAL CONSTANT (B): 0.69

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