

SUBMITTAL SHEET Tech Support: 305.634.0012

PRODUCT CATEGORY: ProTRAK

PRODUCT NUMBER: 250PDT125-18

COATING: G40 (G60/G90 Available)

PHYSICAL PROPERTIES

 WEB DEPTH:
 2.500 IN

 FLANGE HEIGHT:
 1.250 IN

 DESIGN THICKNESS:
 0.019 IN

 YIELD:
 50 KSI

 WEIGHT:
 0.32 LB/LFT



EFFECTIVE SECTION PROPERTIES

GROSS SECTION PROPERTIES

CROSS SECTIONAL AREA (A): EFFECTIVE AREA (Ae): 0.095 IN² 0.029 IN² MOMENT OF INERTIA (Ix): MOMENT OF INERTIA (Ix): 0.102 IN4 0.073 IN4 RADIUS OF GYRATION (Rx): 1.038 IN SECTION MODULUS (Sx): 0.034 IN³ 1029 IN-GROSS MOMENT OF INERTIA (Iy): ALLOWABLE BENDING MOMENT (Ma): 0.015 IN4 LBS 248 LB GROSS RADIUS OF GYRATION (Rv): 0.4 IN ALLOWABLE SHEAR FORCE (Vag):

TORSIONAL PROPERTIES

ST VENANT TORSION CONSTANT (J x 1000): 0.01143 IN⁴

WARPING CONSTANT (CW): 0.017 IN⁶

DISTANCE FROM SHEAR CENTER TO
NEUTRAL
AXIS (X0):

RADII OF GYRATION (R0): 1.353 IN

TORSIONAL FLEXURAL CONSTANT (B): 0.676

SECTION PROPERTIES TABLE NOTES:

- CALCULATED PROPERTIES ARE BASED ON AISI S100-12, NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND AISI S220-15, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMINGâ€"NONSTRUCTURAL MEMBERS.
- EFFECTIVE PROPERTIES INCORPORATE THE STRENGTH INCREASE FROM THE COLD WORK OF FORMING AS APPLICABLE PER AISI A7.2.
- TABULATED GROSS PROPERTIES, INCLUDING TORSIONAL PROPERTIES, ARE BASED ON FULL-UNREDUCED CROSS SECTION OF THE STUDS, AWAY FROM PUNCHOUTS
- TABULATED GROSS PROPERTIES, INCLUDING TORSIONAL PROPERTIES, ARE BASED ON FULL-UNREDUCED CROSS SECTION OF THE TRACKS.
- FOR DEFLECTION CALCULATIONS, USE THE EFFECTIVE MOMENT OF INERTIA.
- ALLOWABLE MOMENT INCLUDES COLD WORK OF FORMING.
- ALLOWABLE MOMENT IS TAKEN AS THE LOWEST VALUE BASED ON LOCAL OR DISTORTIONAL BUCKLING. DISTORTIONAL BUCKLING STRENGTH IS BASED ON A K-PHI = 0.
- WEB DEPTH FOR TRACK SECTIONS IS EQUAL TO THE NOMINAL HEIGHT PLUS TWO TIMES THE DESIGN THICKNESS PLUS THE BEND RADIUS.
 HEMS ON NONSTRUCTURAL TRACK 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