

SUBMITTAL SHEET Tech Support: 305.634.0012

PRODUCT CATEGORY: ProTRAK

PRODUCT NUMBER: 162PDT125-30

COATING: G40 (G60/G90 Available)

PHYSICAL PROPERTIES

WEB DEPTH: 1.620 IN FLANGE HEIGHT: 1.250 IN DESIGN THICKNESS: 0.0312 IN YIELD: 33 KSI WEIGHT: 0.44 LB/LFT



GROSS SECTION PROPERTIES

EFFECTIVE SECTION PROPERTIES

CROSS SECTIONAL AREA (A):	0.128 IN ²	EFFECTIVE AREA (Ae):	0.08 IN ²
MOMENT OF INERTIA (Ix):	0.067 IN ⁴	MOMENT OF INERTIA (IX):	0.054 IN ⁴
RADIUS OF GYRATION (Rx):	0.722 IN	SECTION MODULUS (Sx):	0.048 IN ³
GROSS MOMENT OF INERTIA (Iy):	0.022 IN ⁴	ALLOWABLE BENDING MOMENT (Ma):	951 IN-LBS
GROSS RADIUS OF GYRATION (Ry):	0.409 IN	ALLOWABLE SHEAR FORCE (Vag):	610 LB

TORSIONAL PROPERTIES

0.04168 IN⁴ WARPING CONSTANT (Cw): 0.011 IN⁶ DISTANCE FROM SHEAR CENTER TO NEUTRAL -0.872 IN AXIS (Xo): 1.204 IN RADII OF GYRATION (Ro): TORSIONAL FLEXURAL CONSTANT (B): 0.475

SECTION PROPERTIES TABLE NOTES:

ST VENANT TORSION CONSTANT (J x 1000):

- CALCULATED PROPERTIES ARE BASED ON AISI \$100-12, NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND AISI S220-15, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING€"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