

SUBMITTAL SHEET Tech Support: 305.634.0012

PRODUCT CATEGORY:	ProTRAK	
PRODUCT NUMBER:	250PDT125-33	
COATING:	G40 (G60/G90 Available)	
PHYSICAL PROPERTIES		
WEB DEPTH:	2.500 IN	
FLANGE HEIGHT:	1.250 IN	
DESIGN THICKNESS:	0.0346 IN	
YIELD:	33 KSI	
WEIGHT:	0.59 LB/LFT	
GROSS SECTION PROPERTIES		EFFECTIVE SECTION PROPERTIES
CROSS SECTIONAL AREA (A):	0.173 IN ²	EFFECTIVE AREA (Ae):
MOMENT OF INERTIA (Ix):	0.188 IN ⁴	MOMENT OF INERTIA (Ix):
RADIUS OF GYRATION (Rx):	1.043 IN	SECTION MODULUS (Sx):
GROSS MOMENT OF INERTIA (Iy):	0.027 IN ⁴	ALLOWABLE BENDING MOMENT (Ma):
GROSS RADIUS OF GYRATION (Ry):	0.397 IN	ALLOWABLE SHEAR FORCE (Vag):
TORSIONAL PROPERTIES		
ST VENANT TORSION CONSTANT (J × 1000):	0.06891 IN ⁴	
WARPING CONSTANT (Cw):	0.032 IN ⁶	
DISTANCE FROM SHEAR CENTER TO NEUTRAL AXIS (Xo):	-0.762 IN	
RADII OF GYRATION (Ro):	1.351 IN	

TORSIONAL FLEXURAL CONSTANT (B):

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

0.682

- 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

0.102 IN² 0.16 IN⁴ 0.1 IN³ 1972 IN-LBS 1024 LB