

PRODUCT CATEGORY:	ProSTUD
PRODUCT NUMBER:	362PDS125-30
COATING:	G40 (G60/G90 Available)
PHYSICAL PROPERTIES	
WEB DEPTH:	3.620 IN
FLANGE HEIGHT:	1.250 IN
DESIGN THICKNESS:	0.0312 IN
YIELD:	33 KSI
WEIGHT:	0.68 LB/LFT
GROSS SECTION PROPERTIES	
CROSS SECTIONAL AREA (A):	0.2 IN ²
MOMENT OF INERTIA (Ix):	0.398 IN ⁴
RADIUS OF GYRATION (Rx):	1.411 IN
GROSS MOMENT OF INERTIA (Iy):	0.038 IN ⁴
GROSS RADIUS OF GYRATION (Ry):	0.434 IN
TORSIONAL PROPERTIES	
ST VENANT TORSION CONSTANT (J x 1000):	0.06484 IN ⁴
WARPING CONSTANT (Cw):	0.096 IN ⁶
DISTANCE FROM SHEAR CENTER TO NEUTRAL AXIS (Xo):	-0.82 IN



EFFECTIVE SECTION PROPERTIES

EFFECTIVE AREA (Ae): $0.107 \ \text{IN}^2$ MOMENT OF INERTIA (Ix): 0.396 IN⁴ SECTION MODULUS (Sx): 0.17 IN³ 3358 IN-ALLOWABLE BENDING MOMENT (Ma): LBS 776 LB ALLOWABLE SHEAR FORCE (Vag): ALLOWABLE SHEAR FORCE (VANET): 457 LB

ST VENANT TORSION CONSTANT (J x 1000):	0.06484 IN ⁴
WARPING CONSTANT (Cw):	0.096 IN ⁶
DISTANCE FROM SHEAR CENTER TO NEUTRAL AXIS (Xo):	-0.82 IN
RADII OF GYRATION (Ro):	1.689 IN
TORSIONAL FLEXURAL CONSTANT (B):	0.764
UNBRACED LENGTH (LU):	29.7 IN

•	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

SECTION PROPERTIES TABLE NOTES:

- 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



PRODUCT CATEGORY:

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TS								
5 PSF			7.5 PSF			10 PSF		
L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
25' 8"	20' 5"	17' 10"	22' 5"	17' 10"	15' 7"	20' 5"	16' 2"	14' 2"
23' 4"	18' 6"	16' 2"	20' 5"	16' 2"	14' 2"	18' 6"	14' 8"	12' 10"
20' 5"	16' 2"	14' 2"	17' 10"	14' 2"	12' 3"	16' 2"	12' 10"	11' 0"
	L/120 25' 8" 23' 4"	5 PSF L/120 L/240 25' 8" 20' 5" 23' 4" 18' 6"	5 PSF L/120 L/240 L/360 25' 8" 20' 5" 17' 10" 23' 4" 18' 6" 16' 2"	5 PSF 7.5 PSF L/120 L/240 L/360 L/120 25' 8" 20' 5" 17' 10" 22' 5" 23' 4" 18' 6" 16' 2" 20' 5"	5 PSF 7.5 PSF L/120 L/240 L/360 L/120 L/240 25' 8" 20' 5" 17' 10" 22' 5" 17' 10" 23' 4" 18' 6" 16' 2" 20' 5" 16' 2"	5 PSF 7.5 PSF L/120 L/240 L/360 L/120 L/240 L/360 25' 8" 20' 5" 17' 10" 22' 5" 17' 10" 15' 7" 23' 4" 18' 6" 16' 2" 20' 5" 16' 2" 14' 2"	5 PSF 7.5 PSF 10 PSF L/120 L/240 L/360 L/120 L/240 L/360 L/120 25' 8" 20' 5" 17' 10" 22' 5" 17' 10" 15' 7" 20' 5" 23' 4" 18' 6" 16' 2" 20' 5" 16' 2" 14' 2" 18' 6"	5 PSF 7.5 PSF 10 PSF L/120 L/240 L/360 L/120 L/240 L/360 L/120 25' 8" 20' 5" 17' 10" 22' 5" 17' 10" 15' 7" 20' 5" 16' 2" 23' 4" 18' 6" 16' 2" 20' 5" 16' 2" 14' 8"

COMPOSITE TABLE NOTES:

• ALLOWABLE COMPOSITE LIMITING HEIGHTS WERE DETERMINED IN ACCORDANCE WITH ICC-ES AC86-2015.

ADDITIONAL COMPOSITE WALL TESTING AND ANALYSIS REQUIREMENTS OF THE SFIA CODE COMPLIANCE CERTIFICATION PROGRAM WERE
OBSERVED.

IN ACCORDANCE WITH CURRENT BUILDING CODES AND AISI DESIGN STANDARDS, THE 1/3 STRESS INCREASE FOR STRENGTH WAS NOT USED.
THE COMPOSITE LIMITING HEIGHTS PROVIDED IN THE TABLES ARE BASED ON A SINGLE LAYER OF 5/8" TYPE X GYPSUM BOARD FROM THE

 THE COMPOSITE LIMITING HEIGHTS PROVIDED IN THE TABLES ARE BASED ON A SINGLE LAYER OF 5/8" TYPE X GYPSUM BOARD FROM FOLLOWING MANUFACTURERS: AMERICAN, CERTAINTEED, GEORGIA PACIFIC, CONTINENTAL, NATIONAL, PABCO, AND USG.
THE GYPSUM BOARD MUST BE APPLIED FULL HEIGHT IN THE VERTICAL ORIENTATION TO EACH STUD FLANGE AND INSTALLED IN

ACCORDANCE WITH ASTM C754 USING MINIMUM NO. 6 TYPE S DRYWALL SCREWS SPACED AS LISTED BELOW:

• SCREWS SPACED A MINIMUM OF 16 IN. O.C. TO FRAMING MEMBERS SPACED AT 16 IN. OR 12 IN. O.C.

• SCREWS SPACED A MINIMUM OF 12 IN. O.C. TO FRAMING MEMBERS SPACED AT 24 IN. O.C.

NO FASTENERS ARE REQUIRED FOR ATTACHING THE STUD TO THE TRACK EXCEPT AS DETAILED IN ASTM C754.

• STUD END BEARING MUST BE A MINIMUM OF 1 INCH.

F ADJACENT TO THE HEIGHT VALUE INDICATES THAT FLEXURAL STRESS CONTROLS THE ALLOWABLE WALL HEIGHT.

• S ADJACENT TO THE HEIGHT VALUE INDICATES THAT SHEAR/END REACTION CONTROLS THE ALLOWABLE WALL HEIGHT.

SPACING INCHES	5 PSF			7.5 PSF	7.5 PSF			10 PSF		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	
12	21' 2"	17' 4"	15' 2"	17' 3"	15' 2"	13' 3"	15' 0"	13' 9"	12' 0"	
16	18' 4"	15' 9"	13' 9"	15' 0"	13' 9"	12' 0"	12' 11"	12' 6"	10' 11"	
24	15' 0"	13' 9"	12' 0"	12' 3"	12' 0"	10' 6"	10' 7"	10' 7"	9' 6"	

NON-COMPOSITE TABLE NOTES

HEIGHTS ARE BASED ON AISI S100-12, NORTH AMERICAN SPECIFICATION AND AISI S220-15, NORTH AMERICAN STANDARD FOR COLD-FORMED
STEEL FRAMING NONSTRUCTURAL MEMBERS, USING STEEL PROPERTIES ALONE.

ABOVE LISTED NON-COMPOSITE LIMITING HEIGHTS ARE APPLICABLE WHEN THE UNBRACED LENGTH IS LESS THAN OR EQUAL TO LU.

HEIGHTS ARE LIMITED BY MOMENT, DEFLECTION, SHEAR, AND WEB CRIPPLING (ASSUMING 1' END REACTION BEARING).

• WEB STIFFENERS ARE REQUIRED AT BEARING POINTS.

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