

SUBMITTAL SHEET Tech Support: 305.634.0012

PRODUCT CATEGORY:	ProSTUD	
PRODUCT NUMBER:	362PDS125-30	11-11
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		EFFECTIVE SECTION PROPERTIES
CROSS SECTIONAL AREA (A):	0.2 IN ²	EFFECTIVE AREA (Ae):
MOMENT OF INERTIA (Ix):	0.398 IN ⁴	MOMENT OF INERTIA (IX):
RADIUS OF GYRATION (Rx):	1.411 IN	SECTION MODULUS (Sx):
GROSS MOMENT OF INERTIA (Iy):	0.038 IN ⁴	ALLOWABLE BENDING MOMENT (Ma):
GROSS RADIUS OF GYRATION (Ry):	0.434 IN	ALLOWABLE SHEAR FORCE (Vag):
		ALLOWABLE SHEAR FORCE (VANET):
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	
RADII OF GYRATION (Ro):	1.689 IN	
TORSIONAL FLEXURAL CONSTANT (B):	0.764	
UNBRACED LENGTH (LU):	29.7 IN	

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

0.107 IN² 0.396 IN⁴ 0.17 IN³ 3358 IN-LBS 776 LB 457 LB

SUBMITTAL SHEET Tech Support: 305.634.0012



PRODUCT CATEGORY:

COMPOSITE LIMITING HEIGHTS

PRODUCT NUMBER

ProSTUD

362PDS125-30

COMPOSITE LIMITING HEIG	піз									
SPACING INCHES	5 PSF	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	25' 8"	20' 5"	17' 10"	22' 5"	17' 10"	15' 7"	20' 5"	16' 2"	14' 2"	
16	23' 4"	18' 6"	16' 2"	20' 5"	16' 2"	14' 2"	18' 6"	14' 8"	12' 10"	
24	20' 5"	16' 2"	14' 2"	17' 10"	14' 2"	12' 3"	16' 2"	12' 10"	11' 0"	

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 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	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.