

PRODUCT CATEGORY:

## SUBMITTAL SHEET Tech Support: 305.634.0012

ProSTUD

250PDS125-15 G40 (G60/G90 Available)		
2.500 IN		
1.250 IN		
0.0158 IN		
50 KSI		
0.29 LB/LFT		
	EFFECTIVE SECTION PROPERTIES	
0.085 IN <sup>2</sup>	EFFECTIVE AREA (Ae):	
0.088 IN <sup>4</sup>	MOMENT OF INERTIA (IX):	
1.02 IN	SECTION MODULUS (Sx):	
0.018 IN <sup>4</sup>	ALLOWABLE BENDING MOMENT (Ma):	
0.459 IN	ALLOWABLE SHEAR FORCE (Vag):	
	ALLOWABLE SHEAR FORCE (VANET):	
0.00704 IN <sup>4</sup>		
0.023 IN <sup>6</sup>		
-0.959 IN		
1.473 IN		
0.576		
24.5 IN		
	1.250 IN 0.0158 IN 50 KSI 0.29 LB/LFT 0.085 IN <sup>2</sup> 0.088 IN <sup>4</sup> 1.02 IN 0.018 IN <sup>4</sup> 0.459 IN 0.00704 IN <sup>4</sup> 0.023 IN <sup>6</sup> -0.959 IN 1.473 IN 0.576	1.250 IN0.0158 IN50 KSI0.29 LB/LFTEFFECTIVE SECTION PROPERTIES0.085 IN20.085 IN20.088 IN4MOMENT OF INERTIA (Ix):1.02 IN0.018 IN4ALLOWABLE BENDING MOMENT (Ma):0.018 IN4ALLOWABLE SHEAR FORCE (Vag):ALLOWABLE SHEAR FORCE (VANET):0.00704 IN40.023 IN6-0.959 IN1.473 IN0.576

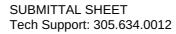
### SECTION PROPERTIES TABLE NOTES:

- 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.
- TABULATED GROSS PROPERTIES, INCLUDING TORSIONAL PROPERTIES, ARE BASED ON FULL-UNREDUCED CROSS SEC
  FOR DEFLECTION CALCULATIONS. USE THE EFFECTIVE MOMENT OF INERTIA.
- FOR DEFLECTION CALCULATIONS, USE THE EFFECTIVE MOMENT OF
- 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

0.033 IN<sup>2</sup> 0.08 IN<sup>4</sup> 0.044 IN<sup>3</sup> 1198 IN-LBS 147 LB 141 LB





### PRODUCT CATEGORY:

PRODUCT NUMBER

# ProSTUD

## 250PDS125-15

COMPOSITE LIMITING HE	EIGHTS								
SPACING INCHES	5 PSF			7.5 PSF		10 PSF	10 PSF		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12		14' 8"	13' 0"	15' 0"	12' 10"	11' 4"	13' 3" f	11' 8"	10' 4"
16		13' 4"	11' 9"	13' 3" f	11' 8"	10' 4"	11' 5" f	10' 7"	9' 1"
24		11' 8"	10' 4"	10' 10" f	10' 2"	8' 6"	9' 4" f	8' 11"	—

### 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 FRC 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			10 PSF		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	12' 8"	10' 2"	8' 11"	10' 4"	8' 11"	7' 9"	8' 11"	8' 1"	7' 1"
16	10' 11"	9' 3"	8' 1"	8' 11"	8' 1"	7' 1"	7' 9"	7' 4"	6' 5"
24	8' 11"	8' 1"	7' 1"	7' 4"	7' 1"	6' 2"	6' 4"	6' 4"	5' 7"

### 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.