

PROJECT SUBMITTAL SHEET

FOR MORE INFORMATION OR QUESTIONS,
PLEASE CONTACT THE TECHNICAL DEPARTMENT:
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SUPER STUD: TECHNICAL@BUYSUPERSTUD.COM

250T125-21

Product Line: 250NT125-21 NitroTrack 21 mil (EQ20 ga.)

Coating: G40 (standard), G60 (special order)

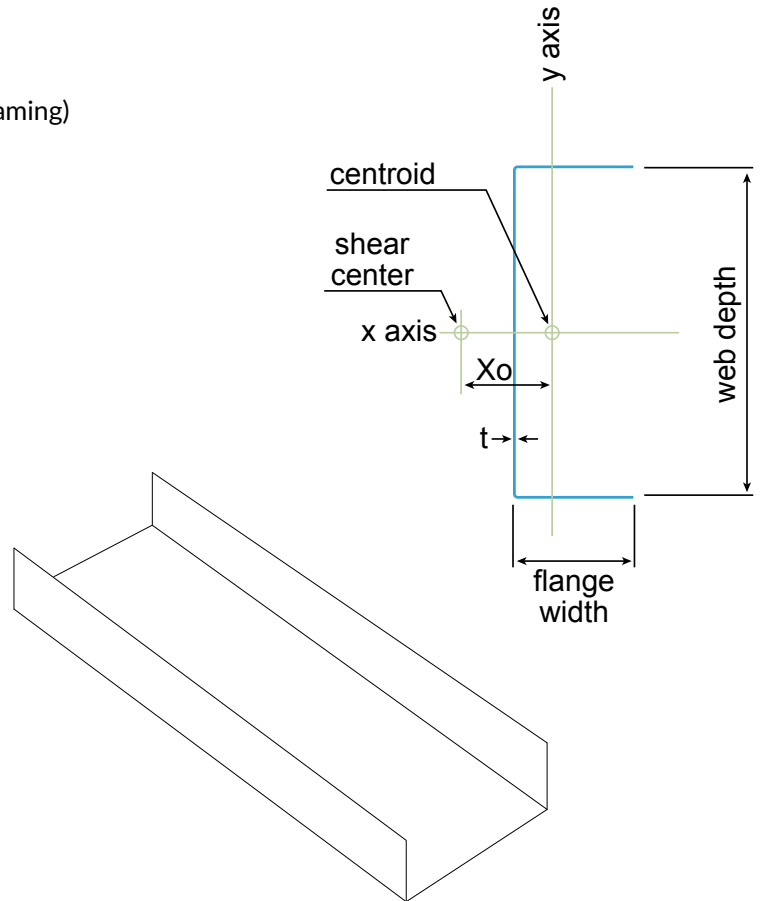
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.50 in.	Yield Strength, Fy	50 ksi
Leg Width	1.25 in.	Design Thickness	0.0220 in.
		Min. Design Thickness	0.0209 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.111
Weight (lb/ft)	Linear weight per foot	0.38
I _x (in ⁴)	Moment of inertia about the x-axis	0.1227
S _x (in ³)	Section modulus about the x-axis	0.0936
R _x (in)	Radius of gyration about the x-axis	1.0526
I _y (in ⁴)	Moment of inertia about the y-axis	0.0176
R _y (in)	Radius of gyration about the y-axis	0.3986

EFFECTIVE PROPERTIES		
I _x (in ⁴)	Effective moment of inertia (x-axis)	0.0772
S _x (in ³)	Effective section modulus (x-axis)	0.0466
Ma (in-k)	Allowable moment capacity	1.394
Va _g (lb)	Allowable web crippling	379

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.0179
C _w (in ⁶)	Warping constant	0.0206
X _o (in)	Distance from shear center to centroid	-0.7696
m (in)	Torsional radius of gyration	0.4646
R _o (in)	Polar radius of gyration	1.3635
Beta	Torsional Flexural Constant	0.6814



CODES AND STANDARDS:

EB Metal US/Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- AISI S100-16 (2020) w/S2-20 and AISI S220-20
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U411, U412, U419, U420, U425, U435, U451, U465, UL 263, CIKV.R38201, CIKV7.R38201
- Tested in accordance with ASTM E119; ANSI/UL 263
- Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202
- Meets ASTM C754 when installed properly in structure.

For LEED Letter requests please submit through: ebmetal.us. or buysuperstud.com

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