

PROJECT SUBMITTAL SHEET

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

400T300-21

Product Line: 400NT300-21 NitroTrack 21 mil (EQ20 ga.)

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

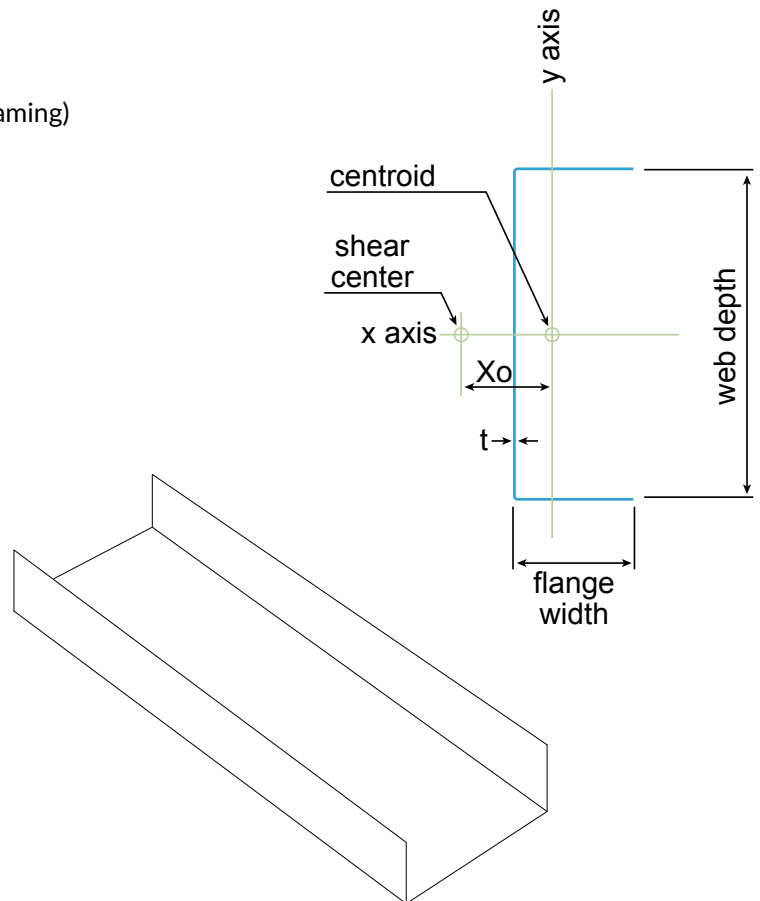
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	4 in.	Yield Strength, Fy	50 ksi
Leg Width	3 in.	Design Thickness	0.0220 in.
		Min. Design Thickness	0.0209 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.221
Weight (lb/ft)	Linear weight per foot	0.75
I _x (in ⁴)	Moment of inertia about the x-axis	0.675
S _x (in ³)	Section modulus about the x-axis	0.3275
R _x (in)	Radius of gyration about the x-axis	1.7486
I _y (in ⁴)	Moment of inertia about the y-axis	0.2166
R _y (in)	Radius of gyration about the y-axis	0.9907

EFFECTIVE PROPERTIES		
I _x (in ⁴)	Effective moment of inertia (x-axis)	0.239
S _x (in ³)	Effective section modulus (x-axis)	0.0737
Ma (in-k)	Allowable moment capacity	1.844
Va _g (lb)	Allowable web crippling	237

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.0356
C _w (in ⁶)	Warping constant	0.6349
X _o (in)	Distance from shear center to centroid	-2.1138
m (in)	Torsional radius of gyration	1.2234
R _o (in)	Polar radius of gyration	2.9167
Beta	Torsional Flexural Constant	0.4748



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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