



PROJECT SUBMITTAL SHEET

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



600T300-30

Product Line: 600NT300-30 NitroTrack 30 mil (DW 20 ga.)

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

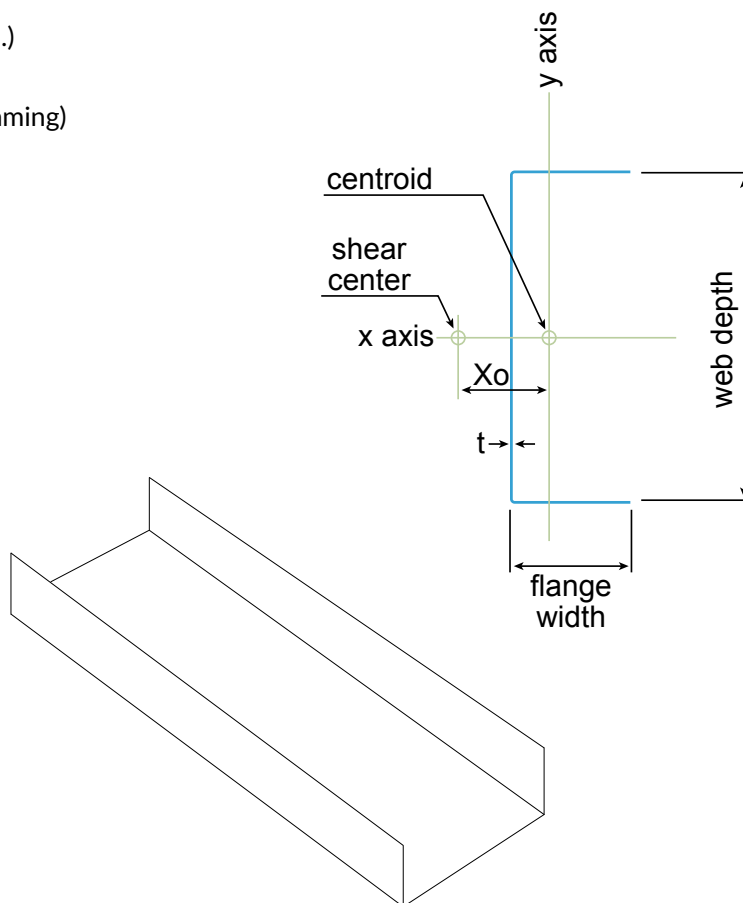
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	6 in.	Yield Strength, F_y	33 ksi
Leg Width	3 in.	Design Thickness	0.0312 in.
		Min. Design Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.375
Weight (lb/ft)	Linear weight per foot	1.28
I_x (in ⁴)	Moment of inertia about the x-axis	2.3182
S_x (in ³)	Section modulus about the x-axis	0.7548
R_x (in)	Radius of gyration about the x-axis	2.485
I_y (in ⁴)	Moment of inertia about the y-axis	0.3472
R_y (in)	Radius of gyration about the y-axis	0.9617

EFFECTIVE PROPERTIES		
I_x (in ⁴)	Effective moment of inertia (x-axis)	1.1395
S_x (in ³)	Effective section modulus (x-axis)	0.2628
M_a (in-k)	Allowable moment capacity	4.336
V_a (lb)	Allowable web crippling	450

TORSIONAL PROPERTIES		
$J \times 1000$ (in ⁴)	St. Venant torsional constant	0.1218
C_w (in ⁶)	Warping constant	2.2574
X_o (in)	Distance from shear center to centroid	-1.8592
m (in)	Torsional radius of gyration	1.119
R_o (in)	Polar radius of gyration	3.2491
Beta	Torsional Flexural Constant	0.6726



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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