

PROJECT SUBMITTAL SHEET

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

550T200-30

Product Line: 550NT200-30 NitroTrack 30 mil (DW 20 ga.)

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

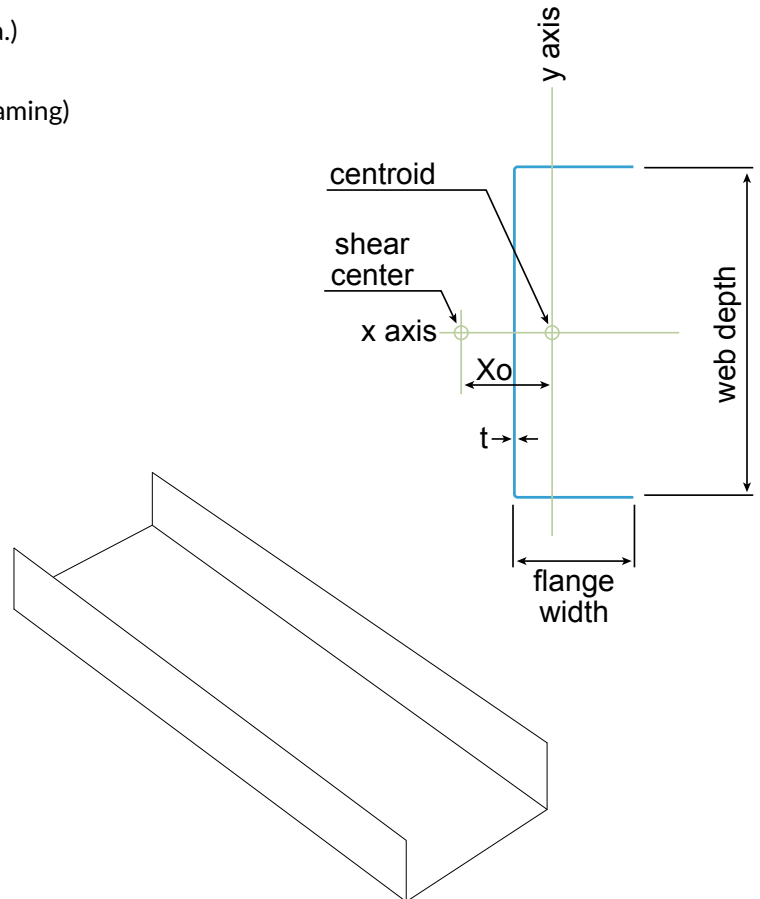
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	5.50 in.	Yield Strength, F_y	33 ksi
Leg Width	2 in.	Design Thickness	0.0312 in.
		Min. Design Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.297
Weight (lb/ft)	Linear weight per foot	1.01
I_x (in ⁴)	Moment of inertia about the x-axis	1.4223
S_x (in ³)	Section modulus about the x-axis	0.5041
R_x (in)	Radius of gyration about the x-axis	2.1868
I_y (in ⁴)	Moment of inertia about the y-axis	0.1118
R_y (in)	Radius of gyration about the y-axis	0.6131

EFFECTIVE PROPERTIES		
I_x (in ⁴)	Effective moment of inertia (x-axis)	0.8757
S_x (in ³)	Effective section modulus (x-axis)	0.2422
M_a (in-k)	Allowable moment capacity	3.996
V_a (lb)	Allowable web crippling	491

TORSIONAL PROPERTIES		
$J \times 1000$ (in ⁴)	St. Venant torsional constant	0.0965
C_w (in ⁶)	Warping constant	0.6214
X_o (in)	Distance from shear center to centroid	-1.0929
m (in)	Torsional radius of gyration	0.6797
R_o (in)	Polar radius of gyration	2.5204
Beta	Torsional Flexural Constant	0.812



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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