

## 162S125-30 DW30 (Standard Punch)

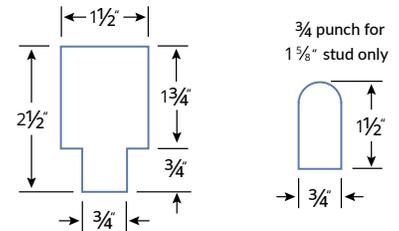
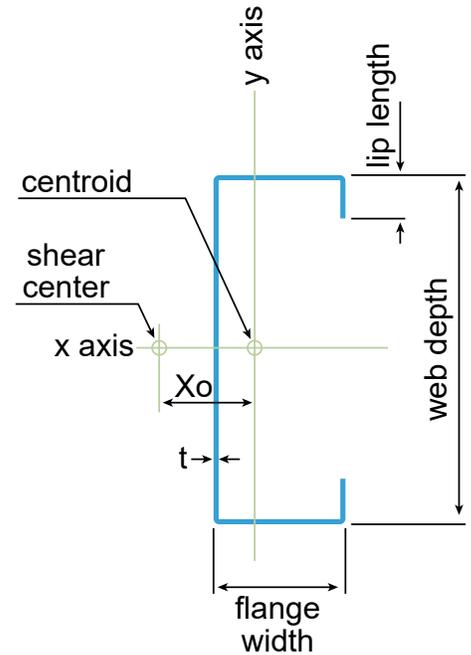
Product Description: 1-5/8" Stud 20GA (1-1/4" Flange, 30mil)

Coating: G60 (standard), G90 (special order)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	1.625 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0312 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.132
Weight (lb/ft)	Linear weight per foot	0.45
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	0.061
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.075
R <sub>x</sub> (in)	Radius of gyration about the x-axis	0.681
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.026
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.441
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.060
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.061
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	1.20
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	1.13
V <sub>a<sub>g</sub></sub> (lb)	Allowable shear force in web	543
V <sub>a<sub>net</sub></sub> (lb)	Allowable strong axis shear at punchout	106
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.043
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.014
X <sub>o</sub> (in)	Distance from shear center to centroid	-1.014
m (in)	Distance from shear center to mid-plane of web	0.585
R <sub>o</sub> (in)	Polar radius of gyration	1.299
Beta	Torsional Flexural Constant	0.390



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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## 162S125-33 DW33 (Standard Punch)

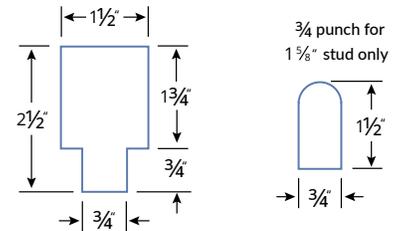
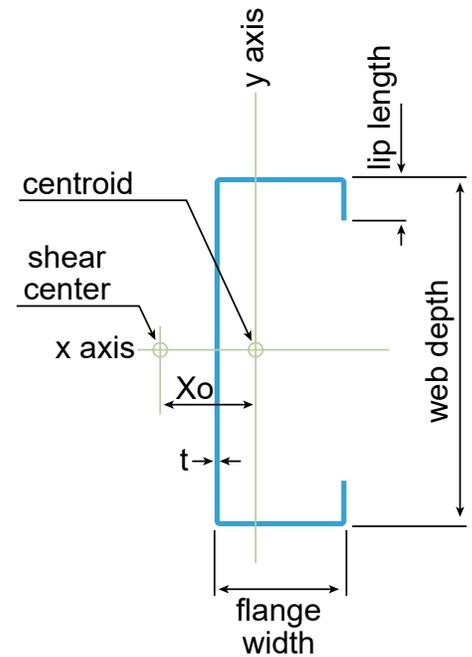
Product Description: 1-5/8" Stud 20GA (1-1/4" Flange, 33mil)

Coating: G60 (standard), G90 (special order)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	1.625 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.145
Weight (lb/ft)	Linear weight per foot	0.49
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	0.067
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.083
R <sub>x</sub> (in)	Radius of gyration about the x-axis	0.679
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.028
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.440
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.066
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.070
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	1.38
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	1.28
V <sub>a<sub>g</sub></sub> (lb)	Allowable shear force in web	601
V <sub>a<sub>net</sub></sub> (lb)	Allowable strong axis shear at punchout	105
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.058
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.016
X <sub>o</sub> (in)	Distance from shear center to centroid	-1.010
m (in)	Distance from shear center to mid-plane of web	0.583
R <sub>o</sub> (in)	Polar radius of gyration	1.294
Beta	Torsional Flexural Constant	0.391



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

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Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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## 250S125-30 DW30 (Standard Punch)

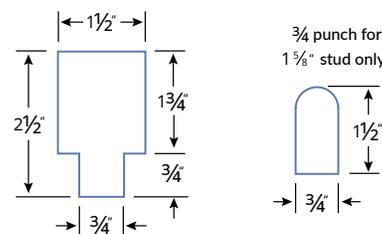
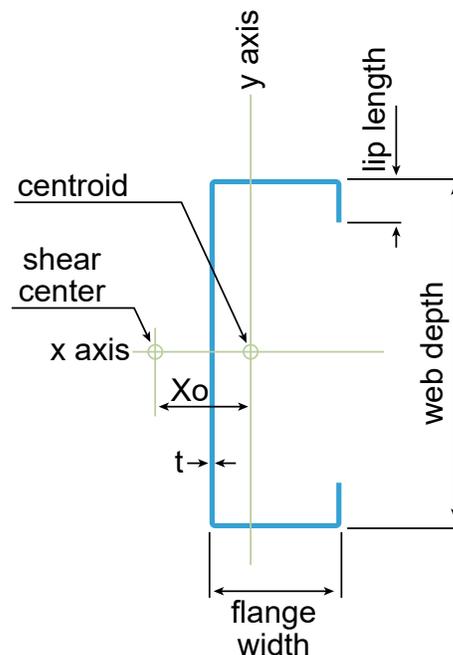
Product Description: 2-1/2" Stud 20GA (1-1/4" Flange, 30mil)

Coating: G60 (standard), G90 (special order)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.5 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0312 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.159
Weight (lb/ft)	Linear weight per foot	0.54
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	0.161
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.129
R <sub>x</sub> (in)	Radius of gyration about the x-axis	1.008
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.030
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.433
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.159
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.108
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	2.14
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	1.84
V <sub>a<sub>g</sub></sub> (lb)	Allowable shear force in web	833
V <sub>a<sub>net</sub></sub> (lb)	Allowable strong axis shear at punchout	378
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.052
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.037
X <sub>o</sub> (in)	Distance from shear center to centroid	-0.890
m (in)	Distance from shear center to mid-plane of web	0.535
R <sub>o</sub> (in)	Polar radius of gyration	1.413
Beta	Torsional Flexural Constant	0.603



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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## 250S125-33 DW33 (Standard Punch)

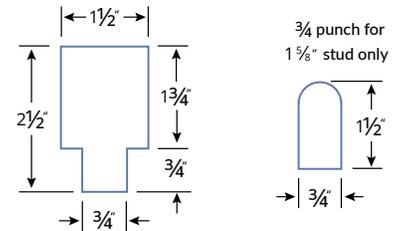
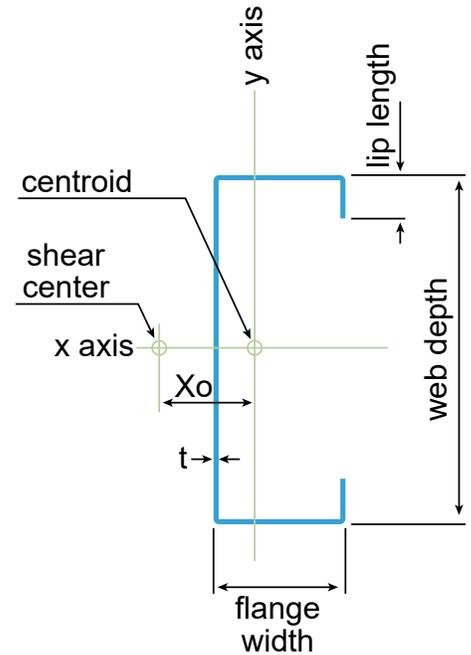
Product Description: 2-1/2" Stud 20GA (1-1/4" Flange, 33mil)

Coating: G60 (standard), G90 (special order)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.5 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.176
Weight (lb/ft)	Linear weight per foot	0.60
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	0.178
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.142
R <sub>x</sub> (in)	Radius of gyration about the x-axis	1.007
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.033
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.431
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.175
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.124
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	2.45
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	2.11
V <sub>g</sub> (lb)	Allowable shear force in web	975
V <sub>net</sub> (lb)	Allowable strong axis shear at punchout	399
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.070
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.040
X <sub>o</sub> (in)	Distance from shear center to centroid	-0.886
m (in)	Distance from shear center to mid-plane of web	0.532
R <sub>o</sub> (in)	Polar radius of gyration	1.409
Beta	Torsional Flexural Constant	0.604



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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EDISON, NJ 08837  
P: 732-662-6200

## 362S125-30 DW30 (Standard Punch)

Product Description: 3-5/8" Stud 20GA (1 1/4" Flange, 30mil)

Coating: G60 (standard), G90 (special order)

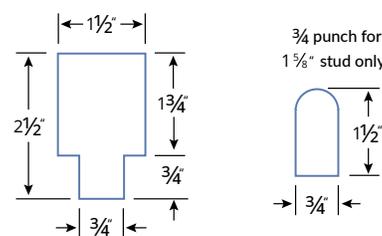
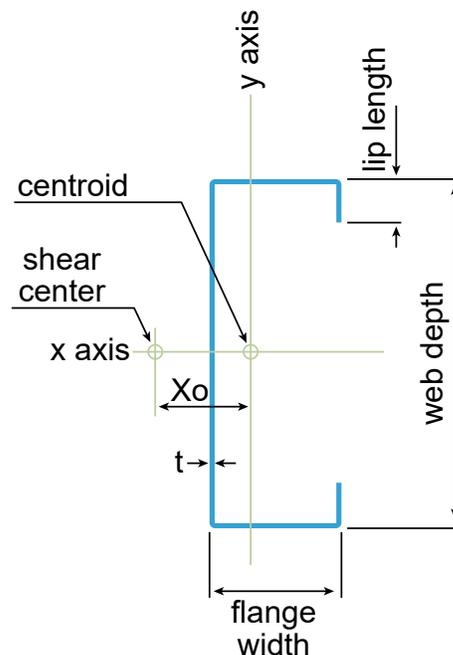
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	3.625 in.	Yield Strength, $F_y$	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0312 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.194
Weight (lb/ft)	Linear weight per foot	0.66
$I_x$ (in <sup>4</sup> )	Moment of inertia about the x-axis	0.381
$S_x$ (in <sup>3</sup> )	Section modulus about the x-axis	0.210
$R_x$ (in)	Radius of gyration about the x-axis	1.402
$I_y$ (in <sup>4</sup> )	Moment of inertia about the y-axis	0.033
$R_y$ (in)	Radius of gyration about the y-axis	0.415

EFFECTIVE PROPERTIES		
$I_x$ (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.376
$S_x$ (in <sup>3</sup> )	Effective section modulus (x-axis)	0.162
$M_a$ (in-k)	Allowable bending moment-effective section modulus	3.21
$M_{ad}$ (in-k)	Allowable bending moment-distortional buckling	2.83
$V_{a_g}$ (lb)	Allowable shear force in web	793
$V_{a_{net}}$ (lb)	Allowable strong axis shear at punchout	449

TORSIONAL PROPERTIES		
$J \times 1000$ (in <sup>4</sup> )	St. Venant torsional constant	0.063
$C_w$ (in <sup>6</sup> )	Warping constant	0.086
$X_o$ (in)	Distance from shear center to centroid	-0.773
$m$ (in)	Distance from shear center to mid-plane of web	0.482
$R_o$ (in)	Polar radius of gyration	1.654
Beta	Torsional Flexural Constant	0.782



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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: [www.buysuperstud.com](http://www.buysuperstud.com)

## 362S125-33 DW33 (Standard Punch)

Product Description: 3-5/8" Stud 20GA (1 1/4" Flange, 33mil)

Coating: G60 (standard), G90 (special order)

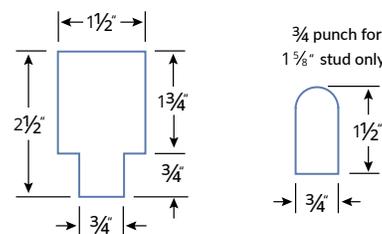
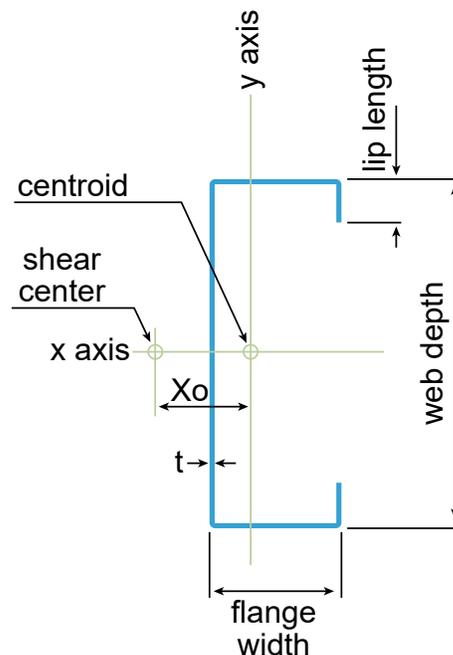
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	3.625 in.	Yield Strength, F <sub>y</sub>	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.215
Weight (lb/ft)	Linear weight per foot	0.73
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	0.421
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.232
R <sub>x</sub> (in)	Radius of gyration about the x-axis	1.401
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.037
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.413

EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.415
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.189
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	3.73
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	3.26
V <sub>a<sub>g</sub></sub> (lb)	Allowable shear force in web	1024
V <sub>a<sub>net</sub></sub> (lb)	Allowable strong axis shear at punchout	521

TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.086
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.094
X <sub>o</sub> (in)	Distance from shear center to centroid	-0.770
m (in)	Distance from shear center to mid-plane of web	0.480
R <sub>o</sub> (in)	Polar radius of gyration	1.651
Beta	Torsional Flexural Constant	0.783



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

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- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
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- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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P: 732-662-6200

## 400S125-30 DW30 (Standard Punch)

Product Description: 4" Track 20GA (1 1/4" Leg, 30mil)

Coating: G60 (standard), G90 (special order)

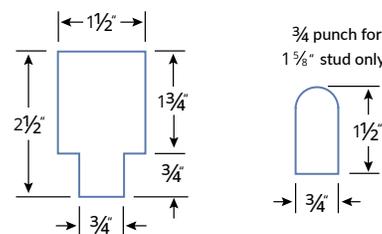
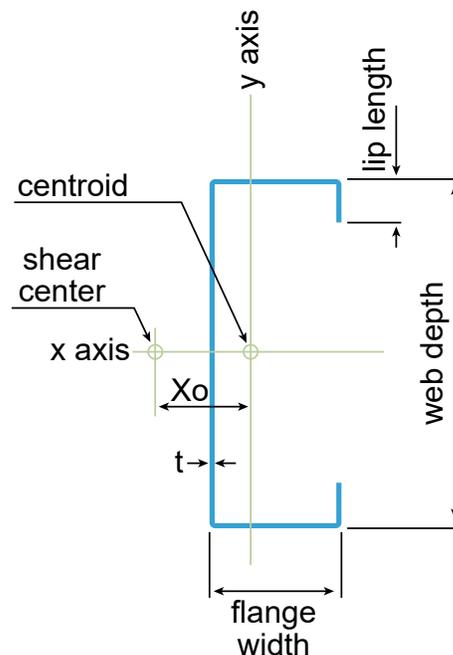
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	4 in.	Yield Strength, $F_y$	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0312 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.206
Weight (lb/ft)	Linear weight per foot	0.70
$I_x$ (in <sup>4</sup> )	Moment of inertia about the x-axis	0.481
$S_x$ (in <sup>3</sup> )	Section modulus about the x-axis	0.240
$R_x$ (in)	Radius of gyration about the x-axis	1.529
$I_y$ (in <sup>4</sup> )	Moment of inertia about the y-axis	0.034
$R_y$ (in)	Radius of gyration about the y-axis	0.409

EFFECTIVE PROPERTIES		
$I_x$ (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.474
$S_x$ (in <sup>3</sup> )	Effective section modulus (x-axis)	0.182
$M_a$ (in-k)	Allowable bending moment-effective section modulus	3.60
$M_{ad}$ (in-k)	Allowable bending moment-distortional buckling	3.16
$V_{a_g}$ (lb)	Allowable shear force in web	715
$V_{a_{net}}$ (lb)	Allowable strong axis shear at punchout	484

TORSIONAL PROPERTIES		
$J \times 1000$ (in <sup>4</sup> )	St. Venant torsional constant	0.067
$C_w$ (in <sup>6</sup> )	Warping constant	0.108
$X_o$ (in)	Distance from shear center to centroid	-0.742
$m$ (in)	Distance from shear center to mid-plane of web	0.467
$R_o$ (in)	Polar radius of gyration	1.748
Beta	Torsional Flexural Constant	0.820



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.). Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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## 400S125-33 DW33 (Standard Punch)

Product Description: 4" Track 20GA (1 1/4" Leg, 33mil)

Coating: G60 (standard), G90 (special order)

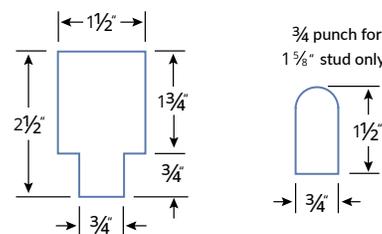
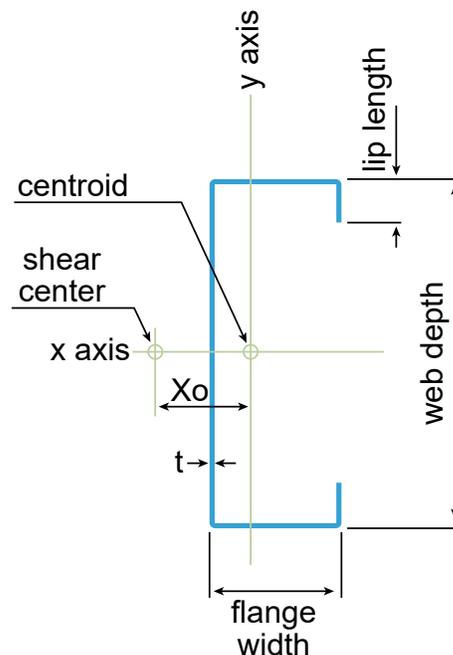
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	4 in.	Yield Strength, $F_y$	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.228
Weight (lb/ft)	Linear weight per foot	0.77
$I_x$ (in <sup>4</sup> )	Moment of inertia about the x-axis	0.531
$S_x$ (in <sup>3</sup> )	Section modulus about the x-axis	0.265
$R_x$ (in)	Radius of gyration about the x-axis	1.527
$I_y$ (in <sup>4</sup> )	Moment of inertia about the y-axis	0.038
$R_y$ (in)	Radius of gyration about the y-axis	0.407

EFFECTIVE PROPERTIES		
$I_x$ (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.524
$S_x$ (in <sup>3</sup> )	Effective section modulus (x-axis)	0.213
$M_a$ (in-k)	Allowable bending moment-effective section modulus	4.20
$M_{ad}$ (in-k)	Allowable bending moment-distortional buckling	3.66
$V_{a_g}$ (lb)	Allowable shear force in web	976
$V_{a_{net}}$ (lb)	Allowable strong axis shear at punchout	595

TORSIONAL PROPERTIES		
$J \times 1000$ (in <sup>4</sup> )	St. Venant torsional constant	0.091
$C_w$ (in <sup>6</sup> )	Warping constant	0.118
$X_o$ (in)	Distance from shear center to centroid	-0.738
$m$ (in)	Distance from shear center to mid-plane of web	0.465
$R_o$ (in)	Polar radius of gyration	1.745
Beta	Torsional Flexural Constant	0.821



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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## 600S125-30 DW30 (Standard Punch)

Product Description: 6" Track 20GA (1 1/4" Leg, 30mil)

Coating: G60 (standard), G90 (special order)

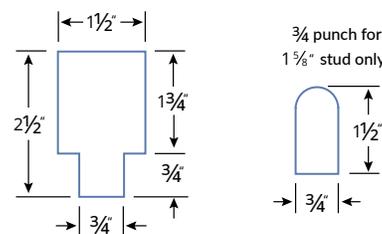
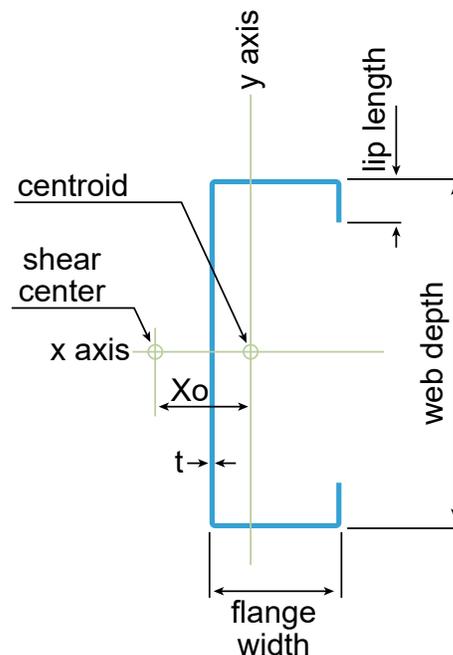
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	6 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0312 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.268
Weight (lb/ft)	Linear weight per foot	0.91
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	1.276
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.425
R <sub>x</sub> (in)	Radius of gyration about the x-axis	2.182
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.038
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.376

EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	1.222
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.304
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	6.00
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	4.91
V <sub>g</sub> (lb)	Allowable shear force in web	468
V <sub>net</sub> (lb)	Allowable strong axis shear at punchout	468

TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.087
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.274
X <sub>o</sub> (in)	Distance from shear center to centroid	-0.611
m (in)	Distance from shear center to mid-plane of web	0.401
R <sub>o</sub> (in)	Polar radius of gyration	2.297
Beta	Torsional Flexural Constant	0.929



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.).  
Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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## 600S125-33 DW33 (Standard Punch)

Product Description: 6" Track 20GA (1 1/4" Leg, 33mil)

Coating: G60 (standard), G90 (special order)

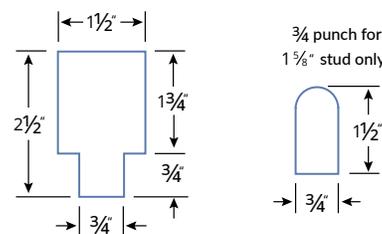
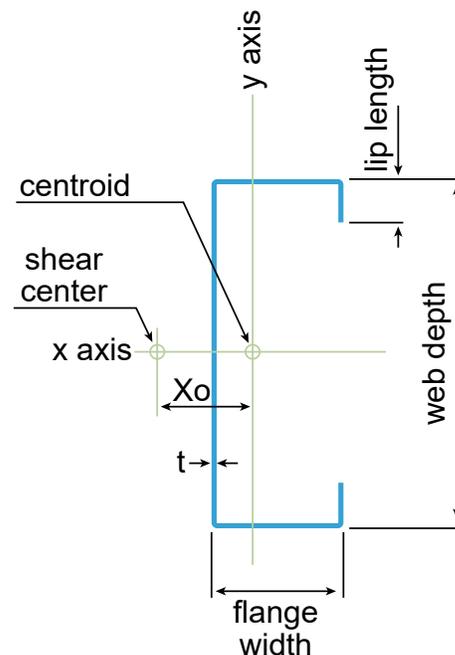
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	6 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.297
Weight (lb/ft)	Linear weight per foot	1.01
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	1.410
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.470
R <sub>x</sub> (in)	Radius of gyration about the x-axis	2.180
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.042
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.375

EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	1.366
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.355
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	7.01
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	5.73
V <sub>g</sub> (lb)	Allowable shear force in web	638
V <sub>net</sub> (lb)	Allowable strong axis shear at punchout	638

TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.118
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.300
X <sub>o</sub> (in)	Distance from shear center to centroid	-0.608
m (in)	Distance from shear center to mid-plane of web	0.399
R <sub>o</sub> (in)	Polar radius of gyration	2.294
Beta	Torsional Flexural Constant	0.930



Non-structural punchout first punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.). Center of last punchout is no less than 12" from end of member.

### CODES AND STANDARDS:

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- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
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- Galvanized coating: ASTM A653/A653M or equivalent
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