

Product submittal information for:

**Exterior Framing:**

362S137-33 (33ksi, CP60) P  
362S137-43 (33ksi, CP60) P  
362S137-54 (50ksi, CP60) P  
362S137-68 (50ksi, CP60) P  
362S137-97 (50ksi, CP60) P  
362S162-33 (33ksi, CP60) P  
362S162-43 (33ksi, CP60) P  
362S162-54 (50ksi, CP60) P  
362S162-68 (50ksi, CP60) P  
362S162-97 (50ksi, CP60) P  
362S200-33 (33ksi, CP60) P  
362S200-43 (33ksi, CP60) P  
362S200-54 (50ksi, CP60) P  
362S200-68 (50ksi, CP60) P  
362S200-97 (50ksi, CP60) P  
362S250-33 (33ksi, CP60) P  
362S250-43 (33ksi, CP60) P  
362S250-54 (50ksi, CP60) P  
362S250-68 (50ksi, CP60) P  
362S250-97 (50ksi, CP60) P  
362S300-33 (33ksi, CP60) P  
362S300-43 (33ksi, CP60) P  
362S300-54 (50ksi, CP60) P  
362S300-68 (50ksi, CP60) P  
362S300-97 (50ksi, CP60) P  
362T125-33 (33ksi, CP60)  
362T125-43 (33ksi, CP60)  
362T125-54 (50ksi, CP60)  
362T125-68 (50ksi, CP60)  
362T125-97 (50ksi, CP60)



ClarkDietrich™  
BUILDING SYSTEMS

**SUBMITTAL**

For the proposed new construction of:

Date: 11/7/16

**Contractor Information:**

**GC Information:**

**Architect Information:**

**Distributor Information:**



ClarkDietrich™  
ENGINEERING SERVICES

For product technical & engineering support  
call ClarkDietrich's Tech Support: (888) 437-3244

**Product category:** S137 (1-3/8" Flange Structural Stud)  
**Product name:** **362S137-33 (33ksi, CP60) P - Punched**  
33mils (20ga) Coating: CP60 per ASTM C955  
Color coding: White

### Geometric Properties

Web depth	3.625 in		
Flange width	1.375 in	Punchout width	1.50 in
Stiffening lip	0.375 in	Punchout length	4.00 in
Design thickness	0.0346 in	Min. steel thickness	0.0329 in
Yield strength, Fy	33 ksi	Fy with Cold-Work, Fya	33.0 ksi
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.236 in <sup>2</sup>
Member weight per foot of length	0.80 lb/ft
Moment of inertia (Ix)	0.479 in <sup>4</sup>
Section modulus (Sx)	0.264 in <sup>3</sup>
Radius of gyration (Rx)	1.424 in
Gross moment of inertia (Iy)	0.059 in <sup>4</sup>
Gross radius of gyration (Ry)	0.501 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.149 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.479 in <sup>4</sup>
Section modulus (Sx)	0.232 in <sup>3</sup>
Allowable bending moment (Ma)	4.59 in-k
Allowable moment based on distortion buckling (Mad)	4.73 in-k
Allowable shear force in web (solid section)	1024 lb
Allowable shear force in web (perforated section)	521 lb
Unbraced length (Lu)	34.7 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.094 in <sup>4</sup>
Warping constant (Cw)	0.165 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.003 in
Distance between shear center and web centerline (m)	0.615 in
Radii of gyration (Ro)	1.813 in
Torsional flexural constant (Beta)	0.694

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

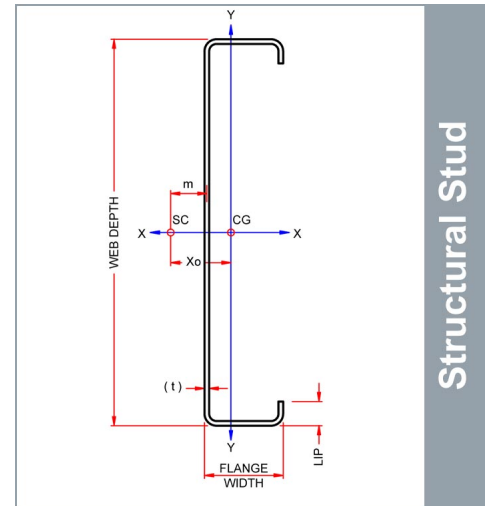
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

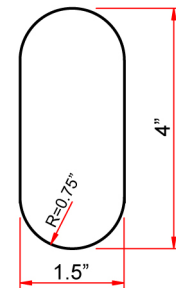
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S137 (1-3/8" Flange Structural Stud)  
**Product name:** **362S137-43 (33ksi, CP60) P - Punched**  
 43mils (18ga) Coating: CP60 per ASTM C955  
 Color coding: Yellow

### Geometric Properties

Web depth	3.625 in		
Flange width	1.375 in	Punchout width	1.50 in
Stiffening lip	0.375 in	Punchout length	4.00 in
Design thickness	0.0451 in	Min. steel thickness	0.0428 in
Yield strength, Fy	33 ksi	Fy with Cold-Work, Fya	33.0 ksi
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.306 in <sup>2</sup>
Member weight per foot of length	1.04 lb/ft
Moment of inertia (Ix)	0.616 in <sup>4</sup>
Section modulus (Sx)	0.340 in <sup>3</sup>
Radius of gyration (Rx)	1.419 in
Gross moment of inertia (Iy)	0.075 in <sup>4</sup>
Gross radius of gyration (Ry)	0.497 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.214 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.616 in <sup>4</sup>
Section modulus (Sx)	0.320 in <sup>3</sup>
Allowable bending moment (Ma)	6.33 in-k
Allowable moment based on distortion buckling (Mad)	6.66 in-k
Allowable shear force in web (solid section)	1739 lb
Allowable shear force in web (perforated section)	676 lb
Unbraced length (Lu)	34.6 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.207 in <sup>4</sup>
Warping constant (Cw)	0.208 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.991 in
Distance between shear center and web centerline (m)	0.608 in
Radii of gyration (Ro)	1.801 in
Torsional flexural constant (Beta)	0.697

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
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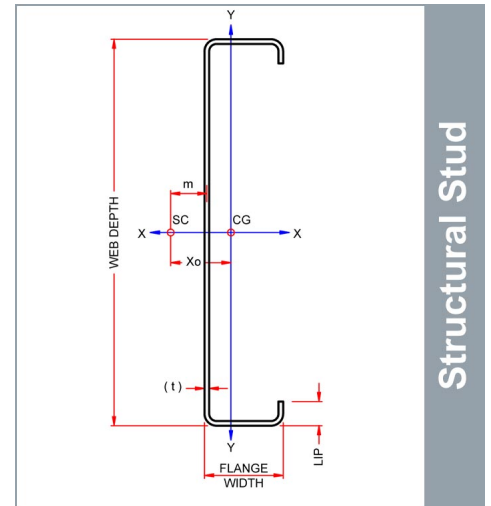
### Sustainability Credits:

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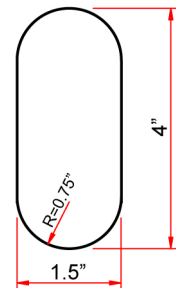
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
 12" from lead end then 24" o.c.

West market punchout spacing:  
 24" from lead end then 24" o.c.

#### Project Information

Name:  
 Address:

#### Contractor Information

Name:  
 Contact:  
 Phone:  
 Fax:

#### Architect Information

Name:  
 Contact:  
 Phone:  
 Fax:

**Product category:** S137 (1-3/8" Flange Structural Stud)  
**Product name:** 362S137-54 (50ksi, CP60) P - Punched  
54mils (16ga) Coating: CP60 per ASTM C955  
Color coding: Green

### Geometric Properties

Web depth	3.625 in	Punchout width	1.50 in
Flange width	1.375 in	Punchout length	4.00 in
Stiffening lip	0.375 in	Min. steel thickness	0.0538 in
Design thickness	0.0566 in	Fy with Cold-Work, F <sub>ya</sub>	50.0 ksi
Yield strength, F <sub>y</sub>	50 ksi		
Ultimate, F <sub>u</sub>	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.379 in <sup>2</sup>
Member weight per foot of length	1.29 lb/ft
Moment of inertia (I <sub>x</sub> )	0.756 in <sup>4</sup>
Section modulus (S <sub>x</sub> )	0.417 in <sup>3</sup>
Radius of gyration (R <sub>x</sub> )	1.412 in
Gross moment of inertia (I <sub>y</sub> )	0.091 in <sup>4</sup>
Gross radius of gyration (R <sub>y</sub> )	0.490 in

### Effective Section Properties, Strong Axis

Effective Area (A <sub>e</sub> )	0.257 in <sup>2</sup>
Moment of inertia for deflection (I <sub>x</sub> )	0.756 in <sup>4</sup>
Section modulus (S <sub>x</sub> )	0.382 in <sup>3</sup>
Allowable bending moment (M <sub>a</sub> )	11.42 in-k
Allowable moment based on distortion buckling (M <sub>ad</sub> )	11.91 in-k
Allowable shear force in web (solid section)	3372 lb
Allowable shear force in web (perforated section)	1016 lb
Unbraced length (L <sub>u</sub> )	27.9 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.405 in <sup>4</sup>
Warping constant (C <sub>w</sub> )	0.251 in <sup>6</sup>
Distance from shear center to neutral axis (X <sub>o</sub> )	-0.978 in
Distance between shear center and web centerline (m)	0.601 in
Radii of gyration (R <sub>o</sub> )	1.786 in
Torsional flexural constant (Beta)	0.700

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
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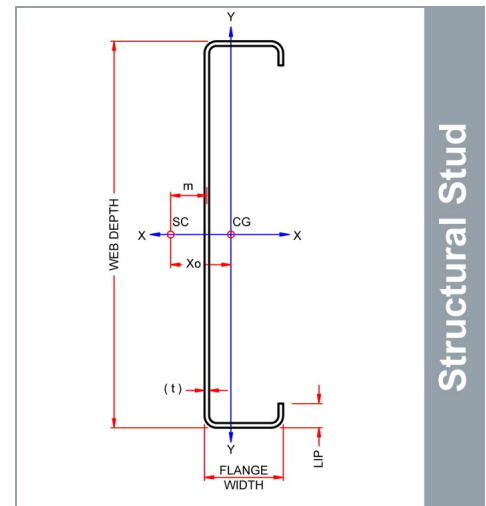
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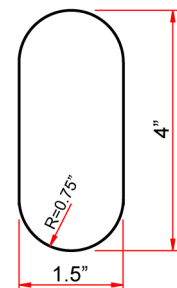
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



Structural  
Punchout

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S137 (1-3/8" Flange Structural Stud)  
**Product name:** **362S137-68 (50ksi, CP60) P - Punched**  
 68mils (14ga) Coating: CP60 per ASTM C955  
 Color coding: Orange

### Geometric Properties

Web depth	3.625 in		
Flange width	1.375 in	Punchout width	1.50 in
Stiffening lip	0.375 in	Punchout length	4.00 in
Design thickness	0.0713 in	Min. steel thickness	0.0677 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.470 in <sup>2</sup>
Member weight per foot of length	1.60 lb/ft
Moment of inertia (Ix)	0.923 in <sup>4</sup>
Section modulus (Sx)	0.509 in <sup>3</sup>
Radius of gyration (Rx)	1.401 in
Gross moment of inertia (Iy)	0.109 in <sup>4</sup>
Gross radius of gyration (Ry)	0.481 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.350 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.923 in <sup>4</sup>
Section modulus (Sx)	0.493 in <sup>3</sup>
Allowable bending moment (Ma)	14.77 in-k
Allowable moment based on distortion buckling (Mad)	15.24 in-k
Allowable shear force in web (solid section)	4370 lb
Allowable shear force in web (perforated section)	1004 lb
Unbraced length (Lu)	27.8 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.797 in <sup>4</sup>
Warping constant (Cw)	0.302 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.959 in
Distance between shear center and web centerline (m)	0.592 in
Radii of gyration (Ro)	1.765 in
Torsional flexural constant (Beta)	0.704

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
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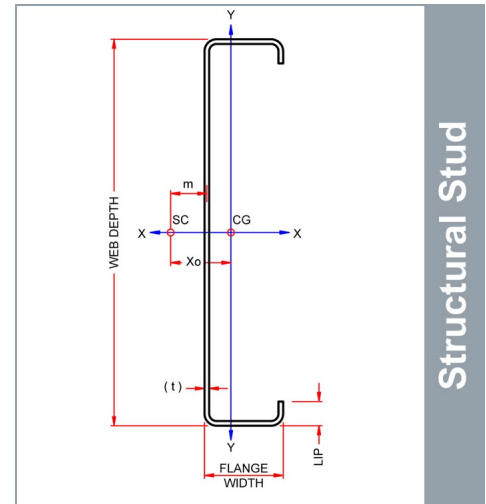
### Sustainability Credits:

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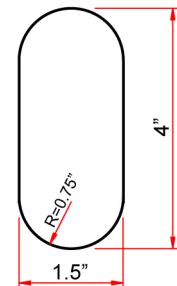
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S137 (1-3/8" Flange Structural Stud)  
**Product name:** **362S137-97 (50ksi, CP60) P - Punched**  
97mils (12ga) Coating: CP60 per ASTM C955  
Color coding: Red

### Geometric Properties

Web depth	3.625 in		
Flange width	1.375 in	Punchout width	1.50 in
Stiffening lip	0.375 in	Punchout length	4.00 in
Design thickness	0.1017 in	Min. steel thickness	0.0966 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.648 in <sup>2</sup>
Member weight per foot of length	2.20 lb/ft
Moment of inertia (Ix)	1.230 in <sup>4</sup>
Section modulus (Sx)	0.678 in <sup>3</sup>
Radius of gyration (Rx)	1.378 in
Gross moment of inertia (Iy)	0.138 in <sup>4</sup>
Gross radius of gyration (Ry)	0.461 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.495 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.230 in <sup>4</sup>
Section modulus (Sx)	0.663 in <sup>3</sup>
Allowable bending moment (Ma)	24.11 in-k
Allowable moment based on distortion buckling (Mad)	20.31 in-k
Allowable shear force in web (solid section)	5943 lb
Allowable shear force in web (perforated section)	875 lb
Unbraced length (Lu)	27.8 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	2.233 in <sup>4</sup>
Warping constant (Cw)	0.390 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.922 in
Distance between shear center and web centerline (m)	0.569 in
Radii of gyration (Ro)	1.721 in
Torsional flexural constant (Beta)	0.713

### ASTM & Code Standards:

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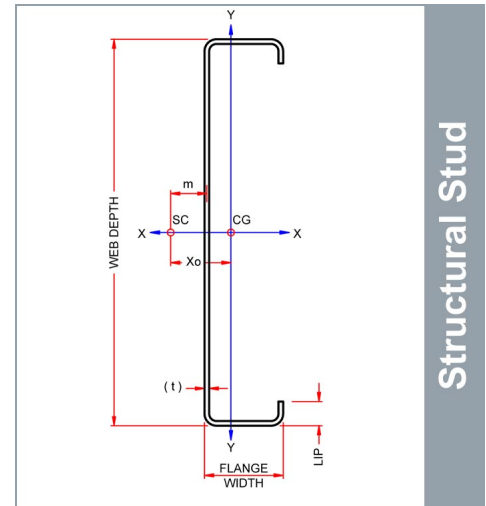
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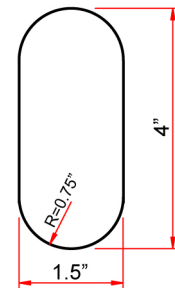
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S162 (1-5/8" Flange Structural Stud)  
**Product name:** **362S162-33 (33ksi, CP60) P - Punched**  
33mils (20ga) Coating: CP60 per ASTM C955  
Color coding: White

### Geometric Properties

Web depth	3.625 in		
Flange width	1.625 in	Punchout width	1.50 in
Stiffening lip	0.500 in	Punchout length	4.00 in
Design thickness	0.0346 in	Min. steel thickness	0.0329 in
Yield strength, Fy	33 ksi	Fy with Cold-Work, Fya	33.0 ksi
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.262 in <sup>2</sup>
Member weight per foot of length	0.89 lb/ft
Moment of inertia (Ix)	0.551 in <sup>4</sup>
Section modulus (Sx)	0.304 in <sup>3</sup>
Radius of gyration (Rx)	1.450 in
Gross moment of inertia (Iy)	0.099 in <sup>4</sup>
Gross radius of gyration (Ry)	0.616 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.173 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.551 in <sup>4</sup>
Section modulus (Sx)	0.268 in <sup>3</sup>
Allowable bending moment (Ma)	5.29 in-k
Allowable moment based on distortion buckling (Mad)	5.43 in-k
Allowable shear force in web (solid section)	1024 lb
Allowable shear force in web (perforated section)	521 lb
Unbraced length (Lu)	42.6 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.105 in <sup>4</sup>
Warping constant (Cw)	0.297 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.308 in
Distance between shear center and web centerline (m)	0.789 in
Radii of gyration (Ro)	2.048 in
Torsional flexural constant (Beta)	0.592

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

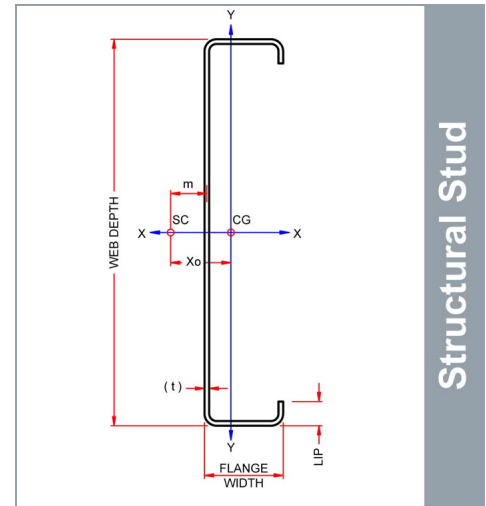
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

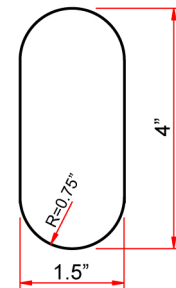
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S162 (1-5/8" Flange Structural Stud)  
**Product name:** **362S162-43 (33ksi, CP60) P - Punched**  
43mils (18ga) Coating: CP60 per ASTM C955  
Color coding: Yellow

### Geometric Properties

Web depth	3.625 in		
Flange width	1.625 in	Punchout width	1.50 in
Stiffening lip	0.500 in	Punchout length	4.00 in
Design thickness	0.0451 in	Min. steel thickness	0.0428 in
Yield strength, Fy	33 ksi	Fy with Cold-Work, Fya	33.0 ksi
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.340 in <sup>2</sup>
Member weight per foot of length	1.16 lb/ft
Moment of inertia (Ix)	0.710 in <sup>4</sup>
Section modulus (Sx)	0.392 in <sup>3</sup>
Radius of gyration (Rx)	1.445 in
Gross moment of inertia (Iy)	0.127 in <sup>4</sup>
Gross radius of gyration (Ry)	0.611 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.248 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.710 in <sup>4</sup>
Section modulus (Sx)	0.372 in <sup>3</sup>
Allowable bending moment (Ma)	7.34 in-k
Allowable moment based on distortion buckling (Mad)	7.62 in-k
Allowable shear force in web (solid section)	1739 lb
Allowable shear force in web (perforated section)	676 lb
Unbraced length (Lu)	42.5 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.230 in <sup>4</sup>
Warping constant (Cw)	0.376 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.297 in
Distance between shear center and web centerline (m)	0.782 in
Radii of gyration (Ro)	2.036 in
Torsional flexural constant (Beta)	0.594

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
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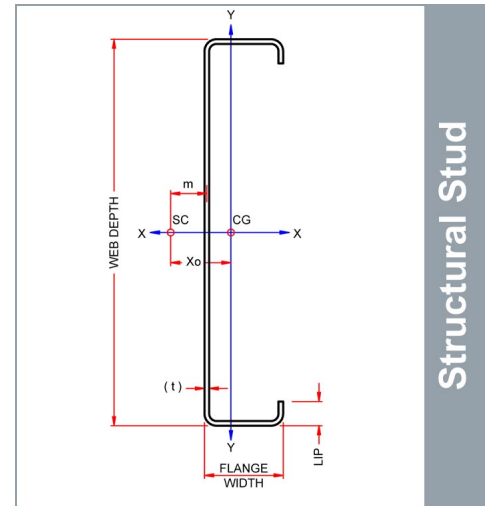
### Sustainability Credits:

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

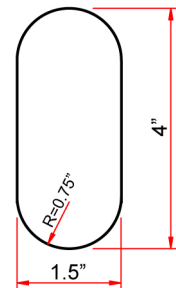
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



### Structural Punchout

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:



**Product category:** S162 (1-5/8" Flange Structural Stud)  
**Product name:** **362S162-54 (50ksi, CP60) P - Punched**  
 54mils (16ga) Coating: CP60 per ASTM C955  
 Color coding: Green

### Geometric Properties

Web depth	3.625 in		
Flange width	1.625 in	Punchout width	1.50 in
Stiffening lip	0.500 in	Punchout length	4.00 in
Design thickness	0.0566 in	Min. steel thickness	0.0538 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.422 in <sup>2</sup>
Member weight per foot of length	1.44 lb/ft
Moment of inertia (Ix)	0.873 in <sup>4</sup>
Section modulus (Sx)	0.482 in <sup>3</sup>
Radius of gyration (Rx)	1.438 in
Gross moment of inertia (Iy)	0.154 in <sup>4</sup>
Gross radius of gyration (Ry)	0.605 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.296 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.873 in <sup>4</sup>
Section modulus (Sx)	0.444 in <sup>3</sup>
Allowable bending moment (Ma)	13.28 in-k
Allowable moment based on distortion buckling (Mad)	13.60 in-k
Allowable shear force in web (solid section)	3372 lb
Allowable shear force in web (perforated section)	1016 lb
Unbraced length (Lu)	34.4 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.451 in <sup>4</sup>
Warping constant (Cw)	0.457 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.283 in
Distance between shear center and web centerline (m)	0.774 in
Radii of gyration (Ro)	2.020 in
Torsional flexural constant (Beta)	0.597

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
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- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

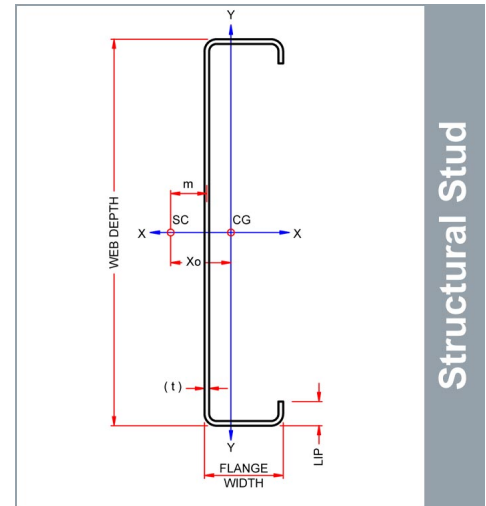
### Sustainability Credits:

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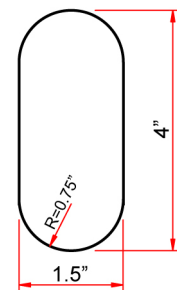
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### 05.40.00 (Cold-Formed Metal Framing)


**Structural Stud**

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



### Structural Punchout

East market punchout spacing:  
 12" from lead end then 24" o.c.

West market punchout spacing:  
 24" from lead end then 24" o.c.

### Project Information

Name:  
 Address:

### Contractor Information

Name:  
 Contact:  
 Phone:  
 Fax:

### Architect Information

Name:  
 Contact:  
 Phone:  
 Fax:

**Product category:** S162 (1-5/8" Flange Structural Stud)  
**Product name:** **362S162-68 (50ksi, CP60) P - Punched**  
 68mils (14ga) Coating: CP60 per ASTM C955  
 Color coding: Orange

**Geometric Properties**

Web depth	3.625 in		
Flange width	1.625 in	Punchout width	1.50 in
Stiffening lip	0.500 in	Punchout length	4.00 in
Design thickness	0.0713 in	Min. steel thickness	0.0677 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

**Gross Section Properties of Full Section, Strong Axis**

Cross sectional area (A)	0.524 in <sup>2</sup>
Member weight per foot of length	1.78 lb/ft
Moment of inertia (Ix)	1.069 in <sup>4</sup>
Section modulus (Sx)	0.590 in <sup>3</sup>
Radius of gyration (Rx)	1.429 in
Gross moment of inertia (Iy)	0.186 in <sup>4</sup>
Gross radius of gyration (Ry)	0.596 in

**Effective Section Properties, Strong Axis**

Effective Area (Ae)	0.403 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.069 in <sup>4</sup>
Section modulus (Sx)	0.574 in <sup>3</sup>
Allowable bending moment (Ma)	17.19 in-k
Allowable moment based on distortion buckling (Mad)	17.66 in-k
Allowable shear force in web (solid section)	4370 lb
Allowable shear force in web (perforated section)	1004 lb
Unbraced length (Lu)	34.4 in

**Torsional Properties**

St. Venant torsion constant (J x 1000)	0.887 in <sup>4</sup>
Warping constant (Cw)	0.552 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.264 in
Distance between shear center and web centerline (m)	0.765 in
Radii of gyration (Ro)	1.999 in
Torsional flexural constant (Beta)	0.600

**ASTM & Code Standards:**

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

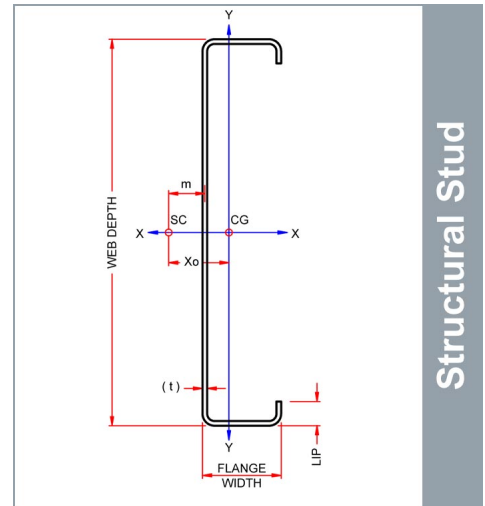
**Sustainability Credits:**

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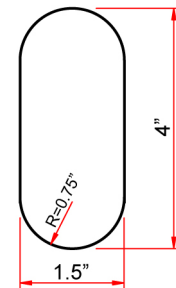
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**05.40.00 (Cold-Formed Metal Framing)**



**Used in framing applications:**

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:

**Product category:** S162 (1-5/8" Flange Structural Stud)  
**Product name:** **362S162-97 (50ksi, CP60) P - Punched**  
97mils (12ga) Coating: CP60 per ASTM C955  
Color coding: Red

### Geometric Properties

Web depth	3.625 in		
Flange width	1.625 in	Punchout width	1.50 in
Stiffening lip	0.500 in	Punchout length	4.00 in
Design thickness	0.1017 in	Min. steel thickness	0.0966 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.724 in <sup>2</sup>
Member weight per foot of length	2.46 lb/ft
Moment of inertia (Ix)	1.436 in <sup>4</sup>
Section modulus (Sx)	0.792 in <sup>3</sup>
Radius of gyration (Rx)	1.408 in
Gross moment of inertia (Iy)	0.241 in <sup>4</sup>
Gross radius of gyration (Ry)	0.577 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.571 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.436 in <sup>4</sup>
Section modulus (Sx)	0.776 in <sup>3</sup>
Allowable bending moment (Ma)	27.54 in-k
Allowable moment based on distortion buckling (Mad)	23.71 in-k
Allowable shear force in web (solid section)	5943 lb
Allowable shear force in web (perforated section)	875 lb
Unbraced length (Lu)	34.5 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	2.496 in <sup>4</sup>
Warping constant (Cw)	0.723 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.226 in
Distance between shear center and web centerline (m)	0.745 in
Radii of gyration (Ro)	1.954 in
Torsional flexural constant (Beta)	0.606

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
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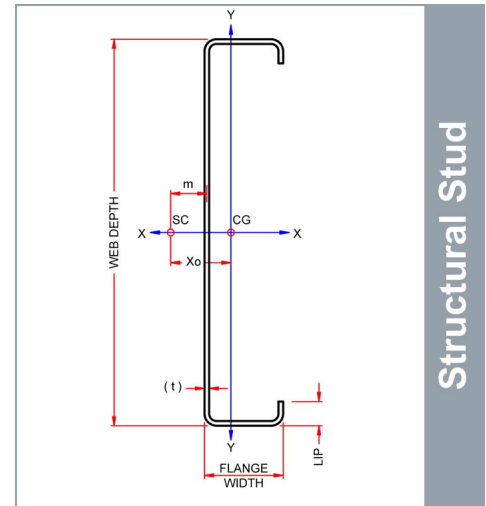
### Sustainability Credits:

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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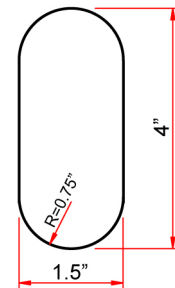
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S200 (2" Flange Structural Stud)  
**Product name:** 362S200-33 (33ksi, CP60) P - Punched  
33mils (20ga) Coating: CP60 per ASTM C955  
Color coding: White

### Geometric Properties

Web depth	3.625 in	Punchout width	1.50 in
Flange width	2.000 in	Punchout length	4.00 in
Stiffening lip	0.625 in	Min. steel thickness	0.0329 in
Design thickness	0.0346 in	Fy with Cold-Work, Fya	33.0 ksi
Yield strength, Fy	33 ksi		
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.297 in <sup>2</sup>
Member weight per foot of length	1.01 lb/ft
Moment of inertia (Ix)	0.648 in <sup>4</sup>
Section modulus (Sx)	0.358 in <sup>3</sup>
Radius of gyration (Rx)	1.478 in
Gross moment of inertia (Iy)	0.177 in <sup>4</sup>
Gross radius of gyration (Ry)	0.772 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.189 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.642 in <sup>4</sup>
Section modulus (Sx)	0.294 in <sup>3</sup>
Allowable bending moment (Ma)	5.81 in-k
Allowable moment based on distortion buckling (Mad)	6.19 in-k
Allowable shear force in web (solid section)	1024 lb
Allowable shear force in web (perforated section)	521 lb
Unbraced length (Lu)	53.6 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.118 in <sup>4</sup>
Warping constant (Cw)	0.577 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.741 in
Distance between shear center and web centerline (m)	1.030 in
Radii of gyration (Ro)	2.411 in
Torsional flexural constant (Beta)	0.478

### ASTM & Code Standards:

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- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

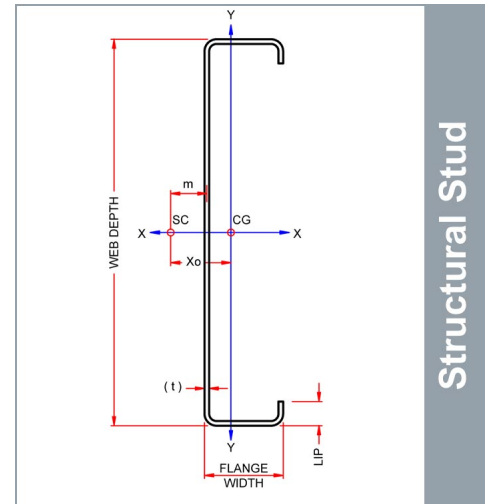
### Sustainability Credits:

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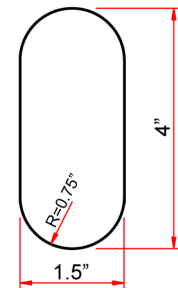
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### 05.40.00 (Cold-Formed Metal Framing)



### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



### Structural Punchout

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:



**Product category:** S200 (2" Flange Structural Stud)  
**Product name:** **362S200-54 (50ksi, CP60) P - Punched**  
 54mils (16ga) Coating: CP60 per ASTM C955  
 Color coding: Green

### Geometric Properties

Web depth	3.625 in	Punchout width	1.50 in
Flange width	2.000 in	Punchout length	4.00 in
Stiffening lip	0.625 in	Min. steel thickness	0.0538 in
Design thickness	0.0566 in	Fy with Cold-Work, Fya	50.0 ksi
Yield strength, Fy	50 ksi		
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.479 in <sup>2</sup>
Member weight per foot of length	1.63 lb/ft
Moment of inertia (Ix)	1.030 in <sup>4</sup>
Section modulus (Sx)	0.568 in <sup>3</sup>
Radius of gyration (Rx)	1.467 in
Gross moment of inertia (Iy)	0.277 in <sup>4</sup>
Gross radius of gyration (Ry)	0.761 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.321 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.030 in <sup>4</sup>
Section modulus (Sx)	0.490 in <sup>3</sup>
Allowable bending moment (Ma)	14.66 in-k
Allowable moment based on distortion buckling (Mad)	15.48 in-k
Allowable shear force in web (solid section)	3372 lb
Allowable shear force in web (perforated section)	1016 lb
Unbraced length (Lu)	43.3 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.511 in <sup>4</sup>
Warping constant (Cw)	0.896 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.715 in
Distance between shear center and web centerline (m)	1.016 in
Radii of gyration (Ro)	2.382 in
Torsional flexural constant (Beta)	0.482

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

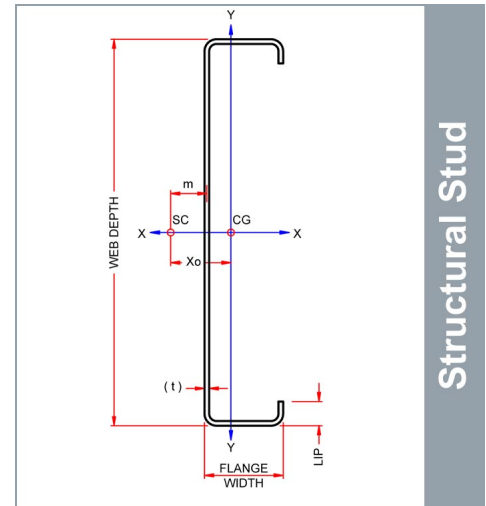
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

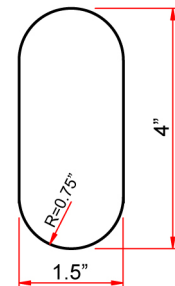
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S200 (2" Flange Structural Stud)  
**Product name:** **362S200-68 (50ksi, CP60) P - Punched**  
 68mils (14ga) Coating: CP60 per ASTM C955  
 Color coding: Orange

### Geometric Properties

Web depth	3.625 in		
Flange width	2.000 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0713 in	Min. steel thickness	0.0677 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.595 in <sup>2</sup>
Member weight per foot of length	2.02 lb/ft
Moment of inertia (Ix)	1.266 in <sup>4</sup>
Section modulus (Sx)	0.698 in <sup>3</sup>
Radius of gyration (Rx)	1.458 in
Gross moment of inertia (Iy)	0.337 in <sup>4</sup>
Gross radius of gyration (Ry)	0.753 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.457 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.266 in <sup>4</sup>
Section modulus (Sx)	0.666 in <sup>3</sup>
Allowable bending moment (Ma)	19.95 in-k
Allowable moment based on distortion buckling (Mad)	20.52 in-k
Allowable shear force in web (solid section)	4370 lb
Allowable shear force in web (perforated section)	1004 lb
Unbraced length (Lu)	43.3 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	1.008 in <sup>4</sup>
Warping constant (Cw)	1.089 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.696 in
Distance between shear center and web centerline (m)	1.006 in
Radii of gyration (Ro)	2.360 in
Torsional flexural constant (Beta)	0.484

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

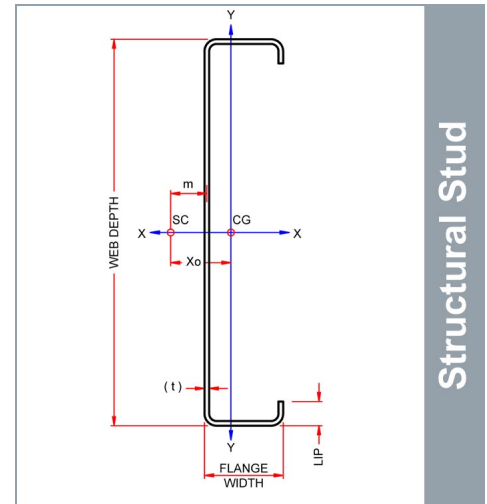
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

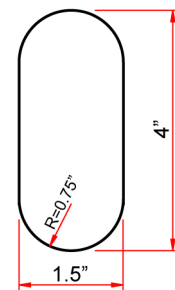
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:





**Product category:** S250 (2-1/2" Flange Structural Stud)  
**Product name:** **362S250-33 (33ksi, CP60) P - Punched**  
33mils (20ga) Coating: CP60 per ASTM C955  
Color coding: White

### Geometric Properties

Web depth	3.625 in	Punchout width	1.50 in
Flange width	2.500 in	Punchout length	4.00 in
Stiffening lip	0.625 in	Min. steel thickness	0.0329 in
Design thickness	0.0346 in	Fy with Cold-Work, Fya	33.0 ksi
Yield strength, Fy	33 ksi		
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.331 in <sup>2</sup>
Member weight per foot of length	1.13 lb/ft
Moment of inertia (Ix)	0.760 in <sup>4</sup>
Section modulus (Sx)	0.419 in <sup>3</sup>
Radius of gyration (Rx)	1.514 in
Gross moment of inertia (Iy)	0.299 in <sup>4</sup>
Gross radius of gyration (Ry)	0.951 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.200 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.725 in <sup>4</sup>
Section modulus (Sx)	0.315 in <sup>3</sup>
Allowable bending moment (Ma)	6.23 in-k
Allowable moment based on distortion buckling (Mad)	6.59 in-k
Allowable shear force in web (solid section)	1024 lb
Allowable shear force in web (perforated section)	521 lb
Unbraced length (Lu)	64.2 in

This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact ClarkDietrich Technical Services @ 888-437-3244 for design solutions.

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.132 in <sup>4</sup>
Warping constant (Cw)	0.965 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.211 in
Distance between shear center and web centerline (m)	1.284 in
Radii of gyration (Ro)	2.844 in
Torsional flexural constant (Beta)	0.395

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
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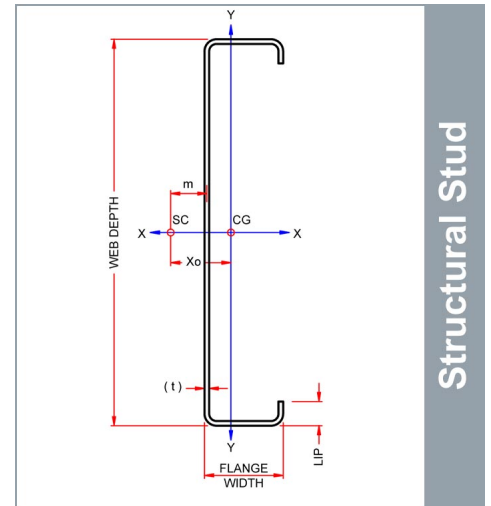
### Sustainability Credits:

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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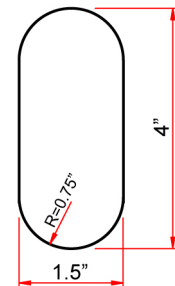
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S250 (2-1/2" Flange Structural Stud)  
**Product name:** 362S250-43 (33ksi, CP60) P - Punched  
43mils (18ga) Coating: CP60 per ASTM C955  
Color coding: Yellow

### Geometric Properties

Web depth	3.625 in		
Flange width	2.500 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0451 in	Min. steel thickness	0.0428 in
Yield strength, Fy	33 ksi	Fy with Cold-Work, Fya	33.0 ksi
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.430 in <sup>2</sup>
Member weight per foot of length	1.46 lb/ft
Moment of inertia (Ix)	0.980 in <sup>4</sup>
Section modulus (Sx)	0.541 in <sup>3</sup>
Radius of gyration (Rx)	1.510 in
Gross moment of inertia (Iy)	0.385 in <sup>4</sup>
Gross radius of gyration (Ry)	0.946 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.290 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.980 in <sup>4</sup>
Section modulus (Sx)	0.449 in <sup>3</sup>
Allowable bending moment (Ma)	8.88 in-k
Allowable moment based on distortion buckling (Mad)	9.36 in-k
Allowable shear force in web (solid section)	1739 lb
Allowable shear force in web (perforated section)	676 lb
Unbraced length (Lu)	64.1 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.292 in <sup>4</sup>
Warping constant (Cw)	1.230 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.199 in
Distance between shear center and web centerline (m)	1.277 in
Radii of gyration (Ro)	2.830 in
Torsional flexural constant (Beta)	0.396

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

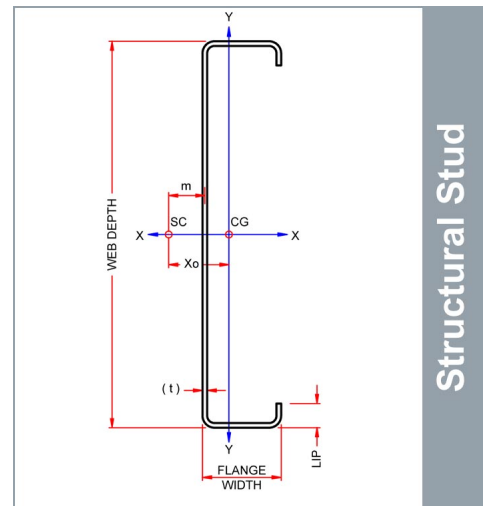
### Sustainability Credits:

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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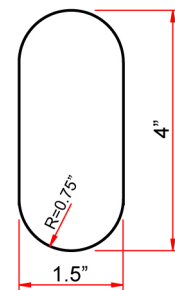
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S250 (2-1/2" Flange Structural Stud)  
**Product name:** **362S250-54 (50ksi, CP60) P - Punched**  
 54mils (16ga) Coating: CP60 per ASTM C955  
 Color coding: Green

### Geometric Properties

Web depth	3.625 in		
Flange width	2.500 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0566 in	Min. steel thickness	0.0538 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.535 in <sup>2</sup>
Member weight per foot of length	1.82 lb/ft
Moment of inertia (Ix)	1.210 in <sup>4</sup>
Section modulus (Sx)	0.668 in <sup>3</sup>
Radius of gyration (Rx)	1.504 in
Gross moment of inertia (Iy)	0.473 in <sup>4</sup>
Gross radius of gyration (Ry)	0.940 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.331 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.198 in <sup>4</sup>
Section modulus (Sx)	0.514 in <sup>3</sup>
Allowable bending moment (Ma)	15.40 in-k
Allowable moment based on distortion buckling (Mad)	16.55 in-k
Allowable shear force in web (solid section)	3372 lb
Allowable shear force in web (perforated section)	1016 lb
Unbraced length (Lu)	52.0 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.571 in <sup>4</sup>
Warping constant (Cw)	1.506 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.184 in
Distance between shear center and web centerline (m)	1.269 in
Radii of gyration (Ro)	2.813 in
Torsional flexural constant (Beta)	0.397

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

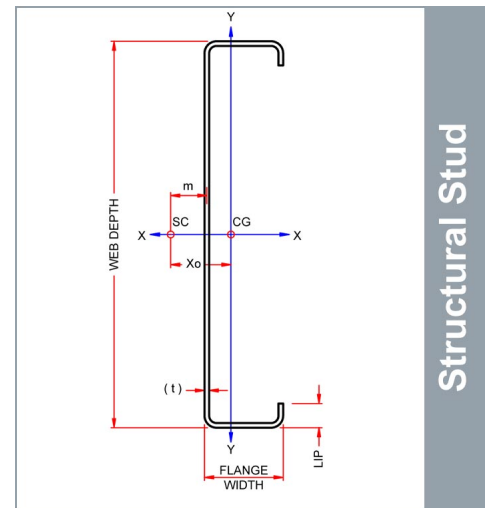
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

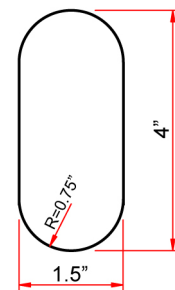
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### 05.40.00 (Cold-Formed Metal Framing)



### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
 12" from lead end then 24" o.c.

West market punchout spacing:  
 24" from lead end then 24" o.c.

#### Project Information

Name:  
 Address:

#### Contractor Information

Name:  
 Contact:  
 Phone:  
 Fax:

#### Architect Information

Name:  
 Contact:  
 Phone:  
 Fax:

**Product category:** S250 (2-1/2" Flange Structural Stud)  
**Product name:** **362S250-68 (50ksi, CP60) P - Punched**  
 68mils (14ga) Coating: CP60 per ASTM C955  
 Color coding: Orange

### Geometric Properties

Web depth	3.625 in		
Flange width	2.500 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0713 in	Min. steel thickness	0.0677 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.666 in <sup>2</sup>
Member weight per foot of length	2.27 lb/ft
Moment of inertia (Ix)	1.491 in <sup>4</sup>
Section modulus (Sx)	0.823 in <sup>3</sup>
Radius of gyration (Rx)	1.496 in
Gross moment of inertia (Iy)	0.578 in <sup>4</sup>
Gross radius of gyration (Ry)	0.931 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.456 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.491 in <sup>4</sup>
Section modulus (Sx)	0.689 in <sup>3</sup>
Allowable bending moment (Ma)	20.64 in-k
Allowable moment based on distortion buckling (Mad)	22.18 in-k
Allowable shear force in web (solid section)	4370 lb
Allowable shear force in web (perforated section)	1004 lb
Unbraced length (Lu)	52.0 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	1.129 in <sup>4</sup>
Warping constant (Cw)	1.837 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.165 in
Distance between shear center and web centerline (m)	1.259 in
Radii of gyration (Ro)	2.791 in
Torsional flexural constant (Beta)	0.398

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
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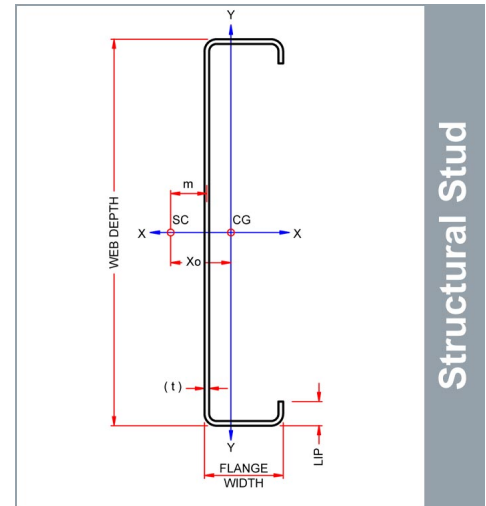
### Sustainability Credits:

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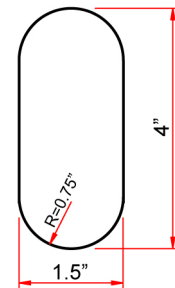
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S250 (2-1/2" Flange Structural Stud)  
**Product name:** **362S250-97 (50ksi, CP60) P - Punched**  
97mils (12ga) Coating: CP60 per ASTM C955  
Color coding: Red

### Geometric Properties

Web depth	3.625 in		
Flange width	2.500 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.1017 in	Min. steel thickness	0.0966 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.927 in <sup>2</sup>
Member weight per foot of length	3.16 lb/ft
Moment of inertia (Ix)	2.028 in <sup>4</sup>
Section modulus (Sx)	1.119 in <sup>3</sup>
Radius of gyration (Rx)	1.479 in
Gross moment of inertia (Iy)	0.773 in <sup>4</sup>
Gross radius of gyration (Ry)	0.913 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.727 in <sup>2</sup>
Moment of inertia for deflection (Ix)	2.028 in <sup>4</sup>
Section modulus (Sx)	1.056 in <sup>3</sup>
Allowable bending moment (Ma)	35.51 in-k
Allowable moment based on distortion buckling (Mad)	33.49 in-k
Allowable shear force in web (solid section)	5943 lb
Allowable shear force in web (perforated section)	875 lb
Unbraced length (Lu)	52.5 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	3.197 in <sup>4</sup>
Warping constant (Cw)	2.452 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.126 in
Distance between shear center and web centerline (m)	1.239 in
Radii of gyration (Ro)	2.746 in
Torsional flexural constant (Beta)	0.401

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

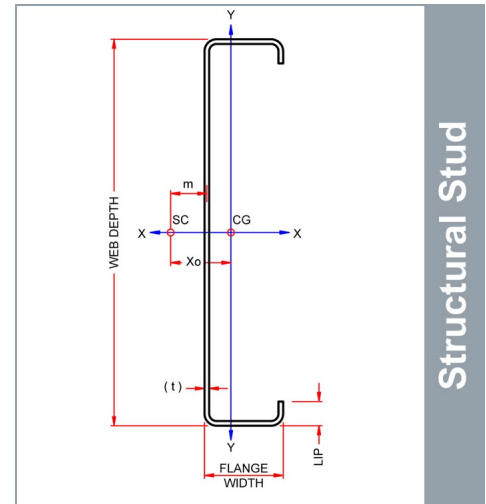
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

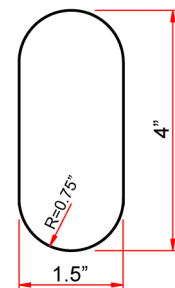
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S300 (3" Flange Structural Stud)  
**Product name:** **362S300-33 (33ksi, CP60) P - Punched**  
33mils (20ga) Coating: CP60 per ASTM C955  
Color coding: White

### Geometric Properties

Web depth	3.625 in		
Flange width	3.000 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0346 in	Min. steel thickness	0.0329 in
Yield strength, Fy	33 ksi	Fy with Cold-Work, Fya	33.0 ksi
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.366 in <sup>2</sup>
Member weight per foot of length	1.25 lb/ft
Moment of inertia (Ix)	0.871 in <sup>4</sup>
Section modulus (Sx)	0.481 in <sup>3</sup>
Radius of gyration (Rx)	1.543 in
Gross moment of inertia (Iy)	0.463 in <sup>4</sup>
Gross radius of gyration (Ry)	1.125 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.206 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.795 in <sup>4</sup>
Section modulus (Sx)	0.328 in <sup>3</sup>
Allowable bending moment (Ma)	6.48 in-k
Allowable moment based on distortion buckling (Mad)	6.89 in-k
Allowable shear force in web (solid section)	1024 lb
Allowable shear force in web (perforated section)	521 lb
Unbraced length (Lu)	74.3 in

This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact ClarkDietrich Technical Services @ 888-437-3244 for design solutions.

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.146 in <sup>4</sup>
Warping constant (Cw)	1.478 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.686 in
Distance between shear center and web centerline (m)	1.537 in
Radii of gyration (Ro)	3.296 in
Torsional flexural constant (Beta)	0.336

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

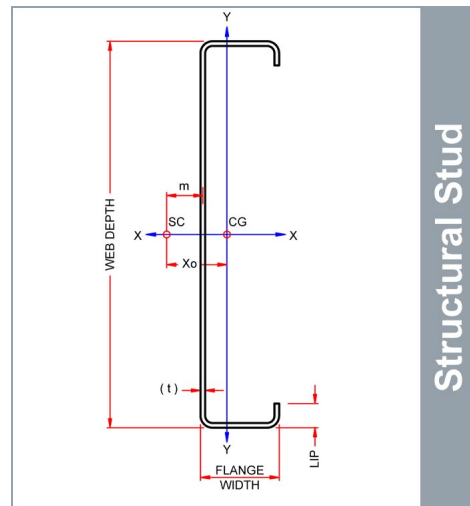
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

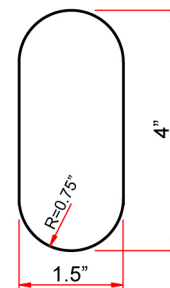
**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

### 05.40.00 (Cold-Formed Metal Framing)



### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S300 (3" Flange Structural Stud)  
**Product name:** **362S300-43 (33ksi, CP60) P - Punched**  
 43mils (18ga) Coating: CP60 per ASTM C955  
 Color coding: Yellow

### Geometric Properties

Web depth	3.625 in		
Flange width	3.000 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0451 in	Min. steel thickness	0.0428 in
Yield strength, Fy	33 ksi	Fy with Cold-Work, Fya	33.0 ksi
Ultimate, Fu	45.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.475 in <sup>2</sup>
Member weight per foot of length	1.62 lb/ft
Moment of inertia (Ix)	1.125 in <sup>4</sup>
Section modulus (Sx)	0.621 in <sup>3</sup>
Radius of gyration (Rx)	1.539 in
Gross moment of inertia (Iy)	0.596 in <sup>4</sup>
Gross radius of gyration (Ry)	1.120 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.291 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.089 in <sup>4</sup>
Section modulus (Sx)	0.459 in <sup>3</sup>
Allowable bending moment (Ma)	9.08 in-k
Allowable moment based on distortion buckling (Mad)	9.85 in-k
Allowable shear force in web (solid section)	1739 lb
Allowable shear force in web (perforated section)	676 lb
Unbraced length (Lu)	74.3 in

This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact ClarkDietrich Technical Services @ 888-437-3244 for design solutions.

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.322 in <sup>4</sup>
Warping constant (Cw)	1.888 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.674 in
Distance between shear center and web centerline (m)	1.530 in
Radii of gyration (Ro)	3.282 in
Torsional flexural constant (Beta)	0.336

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

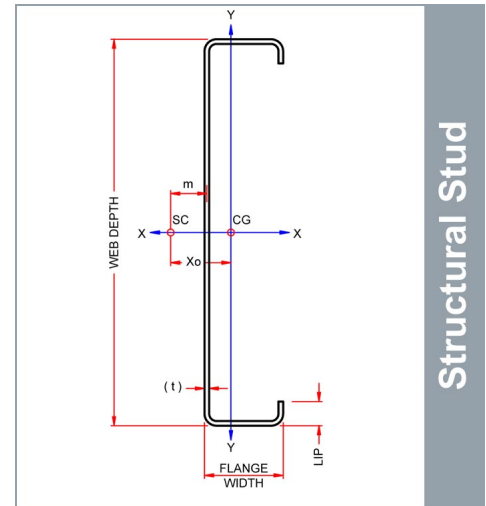
### Sustainability Credits:

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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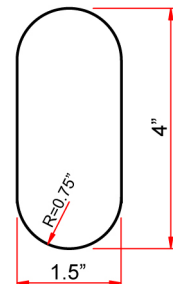
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S300 (3" Flange Structural Stud)  
**Product name:** **362S300-54 (50ksi, CP60) P - Punched**  
54mils (16ga) Coating: CP60 per ASTM C955  
Color coding: Green

### Geometric Properties

Web depth	3.625 in		
Flange width	3.000 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0566 in	Min. steel thickness	0.0538 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.592 in <sup>2</sup>
Member weight per foot of length	2.01 lb/ft
Moment of inertia (Ix)	1.391 in <sup>4</sup>
Section modulus (Sx)	0.767 in <sup>3</sup>
Radius of gyration (Rx)	1.533 in
Gross moment of inertia (Iy)	0.734 in <sup>4</sup>
Gross radius of gyration (Ry)	1.114 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.336 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.295 in <sup>4</sup>
Section modulus (Sx)	0.529 in <sup>3</sup>
Allowable bending moment (Ma)	15.83 in-k
Allowable moment based on distortion buckling (Mad)	17.35 in-k
Allowable shear force in web (solid section)	3372 lb
Allowable shear force in web (perforated section)	1016 lb
Unbraced length (Lu)	60.2 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.632 in <sup>4</sup>
Warping constant (Cw)	2.316 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.659 in
Distance between shear center and web centerline (m)	1.522 in
Radii of gyration (Ro)	3.265 in
Torsional flexural constant (Beta)	0.337

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

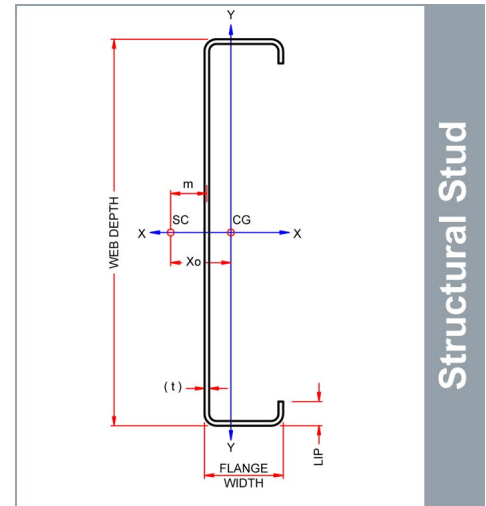
### Sustainability Credits:

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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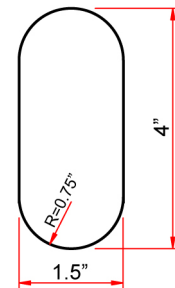
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:



**Product category:** S300 (3" Flange Structural Stud)  
**Product name:** 362S300-68 (50ksi, CP60) P - Punched  
68mils (14ga) Coating: CP60 per ASTM C955  
Color coding: Orange

### Geometric Properties

Web depth	3.625 in		
Flange width	3.000 in	Punchout width	1.50 in
Stiffening lip	0.625 in	Punchout length	4.00 in
Design thickness	0.0713 in	Min. steel thickness	0.0677 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.738 in <sup>2</sup>
Member weight per foot of length	2.51 lb/ft
Moment of inertia (Ix)	1.716 in <sup>4</sup>
Section modulus (Sx)	0.947 in <sup>3</sup>
Radius of gyration (Rx)	1.525 in
Gross moment of inertia (Iy)	0.900 in <sup>4</sup>
Gross radius of gyration (Ry)	1.105 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.468 in <sup>2</sup>
Moment of inertia for deflection (Ix)	1.681 in <sup>4</sup>
Section modulus (Sx)	0.716 in <sup>3</sup>
Allowable bending moment (Ma)	21.45 in-k
Allowable moment based on distortion buckling (Mad)	23.43 in-k
Allowable shear force in web (solid section)	4370 lb
Allowable shear force in web (perforated section)	1004 lb
Unbraced length (Lu)	60.4 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	1.250 in <sup>4</sup>
Warping constant (Cw)	2.833 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.640 in
Distance between shear center and web centerline (m)	1.512 in
Radii of gyration (Ro)	3.243 in
Torsional flexural constant (Beta)	0.337

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

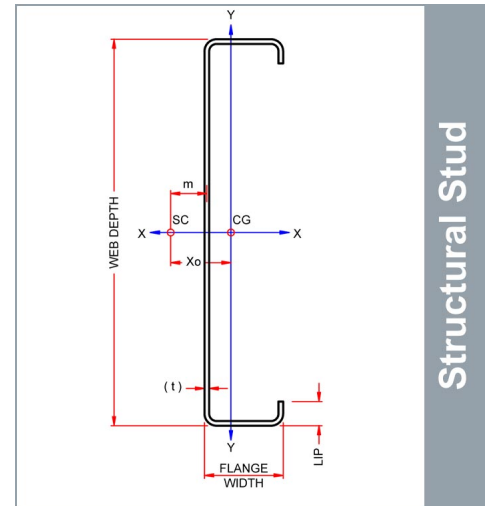
### Sustainability Credits:

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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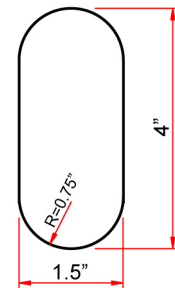
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



Structural  
Punchout

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

### Project Information

Name:  
Address:

### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

### Architect Information

Name:  
Contact:  
Phone:  
Fax:

**Product category:** S300 (3" Flange Structural Stud)  
**Product name:** 362S300-97 (50ksi, CP60) P - Punched  
 97mils (12ga) Coating: CP60 per ASTM C955  
 Color coding: Red

### Geometric Properties

Web depth	3.625 in	Punchout width	1.50 in
Flange width	3.000 in	Punchout length	4.00 in
Stiffening lip	0.625 in	Min. steel thickness	0.0966 in
Design thickness	0.1017 in	Fy with Cold-Work, Fya	50.0 ksi
Yield strength, Fy	50 ksi		
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	1.029 in <sup>2</sup>
Member weight per foot of length	3.50 lb/ft
Moment of inertia (Ix)	2.343 in <sup>4</sup>
Section modulus (Sx)	1.293 in <sup>3</sup>
Radius of gyration (Rx)	1.509 in
Gross moment of inertia (Iy)	1.213 in <sup>4</sup>
Gross radius of gyration (Ry)	1.086 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.774 in <sup>2</sup>
Moment of inertia for deflection (Ix)	2.318 in <sup>4</sup>
Section modulus (Sx)	1.150 in <sup>3</sup>
Allowable bending moment (Ma)	34.44 in-k
Allowable moment based on distortion buckling (Mad)	36.43 in-k
Allowable shear force in web (solid section)	5943 lb
Allowable shear force in web (perforated section)	875 lb
Unbraced length (Lu)	60.9 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	3.548 in <sup>4</sup>
Warping constant (Cw)	3.803 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.600 in
Distance between shear center and web centerline (m)	1.491 in
Radii of gyration (Ro)	3.196 in
Torsional flexural constant (Beta)	0.338

### ASTM & Code Standards:

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- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

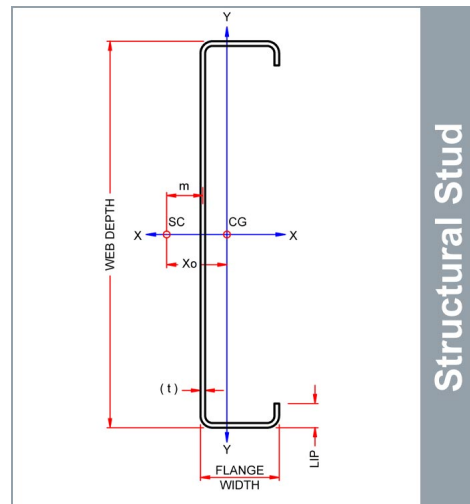
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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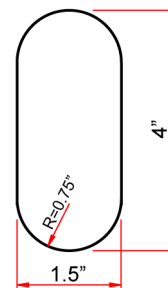
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



**Structural Punchout**

East market punchout spacing:  
12" from lead end then 24" o.c.

West market punchout spacing:  
24" from lead end then 24" o.c.

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax:







**Product category:** T125 (1-1/4" Leg Structural Track)  
**Product name:** **362T125-68 (50ksi, CP60) - Unpunched**  
68mils (14ga)      Coating: CP60 per ASTM C955  
Color coding: Orange

### Geometric Properties

Web depth	3.875 in		
Leg width	1.25 in		
Design thickness	0.0713 in	Min. steel thickness	0.0677 in
Yield strength, Fy	50 ksi	*Fy with Cold-Work, Fya	50.0 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.436 in <sup>2</sup>
Member weight per foot of length	1.48 lb/ft
Moment of inertia (Ix)	0.921 in <sup>4</sup>
Section modulus (Sx)	0.475 in <sup>3</sup>
Radius of gyration (Rx)	1.454 in
Gross moment of inertia (Iy)	0.060 in <sup>4</sup>
Gross radius of gyration (Ry)	0.370 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.338 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.908 in <sup>4</sup>
Section modulus (Sx)	0.427 in <sup>3</sup>
Allowable bending moment (Ma)	12.78 in-k
Allowable shear force in web	4703 lb

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.738 in <sup>4</sup>
Warping constant (Cw)	0.156 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.641 in
Distance between shear center and web centerline (m)	0.399 in
Radii of gyration (Ro)	1.631 in
Torsional flexural constant (Beta)	0.846

### ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

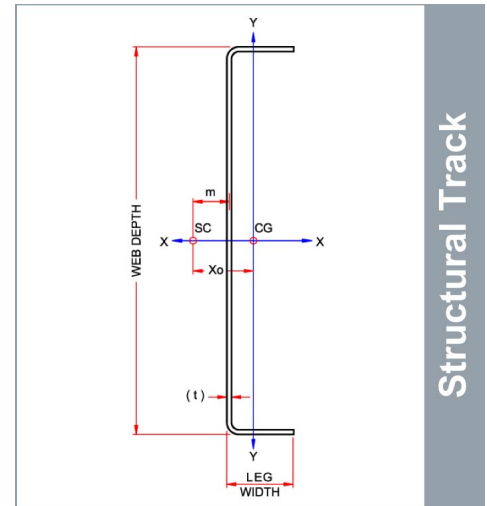
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at ([info@clarkdietrich.com](mailto:info@clarkdietrich.com) / 888-437-3244)

### 05.40.00 (Cold-Formed Metal Framing)



Structural Track

### Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses

#### Project Information

Name:  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

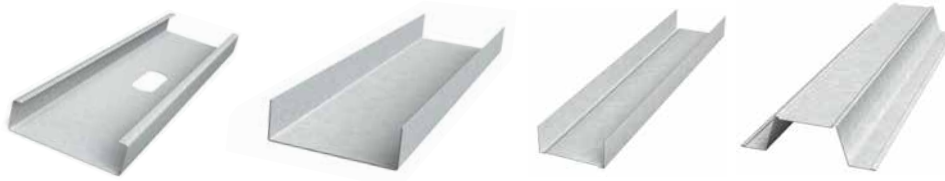
#### Architect Information

Name:  
Contact:  
Phone:  
Fax:



# ClarkDietrich™ PRODUCT INFORMATION

Example: 362S162-43 (33ksi, CP60) punched



S = Structural stud or joist  
PDS = ProSTUD® drywall stud

T = Structural track  
PDT = ProTRAK® drywall track

U = CRC or U-channel

F = Furring channel

### Punching

Punched studs or joists will be supplied unless the customer indicates unpunched material is required at time of order. All track and channels are unpunched.



Protective Coating  
Structural framing CP60 (G90 available)  
Drywall framing G40EQ (G40 or G60 available)

KSI -Yield Strength (Fy)  
Structural: 33ksi or 50ksi steel  
Drywall: See ProSTUD below.

ClarkDietrich structural member depths, flanges & available thickness				ClarkDietrich return lip dimensions			ClarkDietrich thickness identification and color coding					
Member depths	Flange widths range	Mils range	Gauge range	Flange width	Return lip	Member depths	Member mils	Thickness gauge	Design thickness	Min. thickness	Color code	
(250) 2-1/2"	1-3/8," 1-5/8," 2" & 2-1/2"	33-68	20-14 ga	137 (1-3/8")	3/8"	3-5/8"-8"	33	20	0.0346"	0.0329"	White	
(350) 3-1/2"	1-3/8," 1-5/8," 2" & 2-1/2"	33-68	20-14 ga	162 (1-5/8")	1/2"	2-1/2"-14"	43	18	0.0451"	0.0428"	Yellow	
(362) 3-5/8"	1-3/8," 1-5/8," 2" & 2-1/2"	33-97	20-12 ga	200 (2")	5/8"	3-5/8"-14"	54	16	0.0566"	0.0538"	Green	
(400) 4"	1-3/8," 1-5/8," 2" & 2-1/2"	33-97	20-12 ga	250 (2-1/2")	5/8"	3-5/8"-14"	68	14	0.0713"	0.0677"	Orange	
(550) 5-1/2"	1-5/8," 2" & 2-1/2"	33-97	20-12 ga	300 (3")	5/8"	6"-14"	97	12	0.1017"	0.0966"	Red	
(600) 6"	1-3/8," 1-5/8," 2," 2-1/2" & 3"	33-97	20-12 ga	<b>Old stud/track designations</b>			<b>ClarkDietrich ProSTUD® Drywall framing system thickness</b>					
(800) 8"	1-3/8," 1-5/8," 2," 2-1/2" & 3"	33-97	20-12 ga	<b>Designation</b>	<b>Type</b>	<b>Flange/leg</b>	<b>Member gauge</b>	<b>Mils</b>	<b>KSI</b>	<b>Design thickness</b>	<b>Min. thickness</b>	<b>Color code</b>
(925) 9-1/4"	1-5/8," 2" & 2-1/2"	43-97	18-12 ga	CWN	Stud	1-3/8"	ProSTUD 25	15	50	0.0158	0.0150	None
(1000) 10"	1-5/8," 2," 2-1/2" & 3"	43-97	18-12 ga	CSJ	Stud	1-5/8"	ProSTUD 20	19	65	0.0200	0.0190	Pink
(1200) 12"	1-5/8," 2," 2-1/2" & 3"	54-97	16-12 ga	CSW	Stud	2"	ProSTUD 20XD	22	57	0.0232	0.0220	Pink
(1400) 14"	1-5/8," 2," 2-1/2" & 3"	54-97	16-12 ga	CSE	Stud	2-1/2"	ProSTUD 30MIL	30	33	0.0312	0.0296	Pink
				CSS	Stud	3"	ProSTUD 33MIL	33	33	0.0346	0.0329	White
				TSC	Track	1-1/4"	ProTRAK (25, 20 & 20XD) = 50ksi    ProTRAK 30 & 33mil = 33ksi					
				TSE	Track	3"						

## HOW TO IDENTIFY OUR PRODUCTS

ClarkDietrich has adopted standard nomenclature established by the American Iron and Steel Institute (AISI) for identifying each of its products. Coding of each member consists of four parts, in this order:

- A number which identifies the web depth of the member to two decimal places. 600 = 6.00," 1000 = 10.00," 550 = 5.50," 362 = 3.625," etc.
- A letter that tells you the type of member, such as S = Stud/joist, T = Track, U = U-channel, and F = Furring channel.
- A number that defines the flange dimension in inches to two decimal places. 162 = 1.625," 200 = 2.00," 125 = 1.25," etc.
- A number following a hyphen that denotes the minimum delivered thickness in mils (33mils = 33/1000 inches which is approximately 0.0329"). Minimum delivered thickness is 95% of design thickness.

### Product availability.

Most products manufactured by ClarkDietrich are readily available in all markets, but there can be exceptions. Please contact your ClarkDietrich Sales Representative to make sure the product you need is available in your market area.

### Protective coatings.

**Non-structural products** are coated to meet the requirements of AISI S220 and ASTM C645, with a G40 or a protective coating with an equivalent corrosion resistance. ProSTUD® Drywall Framing System meets the Code Compliance Research Report ATI CRRR-0207. Non-structural products may also be ordered with enhanced coatings for special applications.

**Structural framing products** are available with a variety of protective coatings that meet the CP60 coating protection level requirements of AISI S200 and ASTM C955. These coatings may include G60, A60, AZ50 or GF30, all of which satisfy the above referenced standards. G90 coatings are an enhanced option that can be requested for highly corrosive environments. ClarkDietrich can supply a specific or enhanced coating to meet specific project requirements when requested.

ClarkDietrich is a proud member of the Steel Framing Industry Association (SFIA).



# ClarkDietrich™ CODE APPROVALS AND PERFORMANCE STANDARDS

Material Certification - ClarkDietrich products meet or exceed these applicable performance standards.

## Structural framing standards

AISI S100-07 "North American Specification for the Design of Cold-Formed Steel Structural Members, 2001 with 2010 supplement"

ASTM C955	Load-bearing steel framing
ASTM C1007	Installation
ASTM A1003	Material specification for steel sheet mechanical and chemical requirements

### Protective coating standards

ASTM A653	Zinc-coated hot-dip process
ASTM A792	55% aluminum-zinc alloy-coated hot-dip process
ASTM A875	Zinc-5% aluminum alloy-coated hot-dip process
ASTM A924	Metallic-coated hot-dip process

### Additional code approvals

SFIA (Steel Framing Industry Association)  
ICC-ES ESR 1166P

## ProSTUD® drywall framing standards

AISI S100-07 North American Specification for the Design of Cold-Formed Steel Structural Members

AISI S220-11 North American Standard for Cold-Formed Steel Framing – Nonstructural Members

### ASTM American Society for Testing and Materials

A1003	Material specification for steel sheet mechanical and chemical requirements
C645	Standard specification for nonstructural steel framing
C754	Standard specification for installation of steel framing
C1002	Standard specification for steel self piercing tapping screw
E119	Standard test methods for fire tests
E72	Standard test methods of conducting strength tests
E90	Standard test method for sound transmission loss

### UL® Underwriters Laboratories testing standard

UL 263 Fire Tests of Building Construction and Materials®

### Multiple UL® design listings for ProSTUD

Over 50 UL Designs; UL file number R26512

### Additional code approvals

SFIA (Steel Framing Industry Association)  
ATI CCRR-0207

UL® and UL® Design are trademarks of Underwriters Laboratories, Inc.

## Metal lath & accessories

ASTM C847	Metal lath products
ASTM C841	Installation of interior lathing & furring
ASTM C1063	Installation of lathing & furring
ASTM A653	Zinc-coated hot-dip process
ASTM C1047	Accessories standards—control joints
ASTM A924	Metallic-coated hot-dip process
UUB790A	APB type 1, grade D, style 2
CE 240.01	Furring (metal) lathing and plastering
EMLA 920	Guide specs for metal lathing & furring

### Additional code approvals

ATI CCRR-0204

**ClarkDietrich Building Systems has prepared this literature with the utmost diligence and care for accuracy and conformance to standards.**

**ClarkDietrich Building Systems reserves the right to modify or change any information contained in this literature without notification.**

**ClarkDietrich Building Systems intends this information to be accurate, informative, and helpful as a selection guide for choosing ClarkDietrich Building System products. However, this information is only to be used for guidance and is not intended to replace the design, drawings, specifications, and decisions of a professional architect or engineer.**

**ClarkDietrich Building Systems or its affiliates shall not be responsible for incidental or consequential damages, directly or indirectly sustained, nor for loss caused by application of our products for other than their intended uses. Our liability is limited to replacement of defective products. Claims shall be deemed waived unless they are made to us in writing within thirty (30) days of the date a problem was or reasonably should have been discovered.**

**ClarkDietrich structural and nonstructural framing comply with the SFIA Code Compliance Program. ClarkDietrich is a member of SFIA.**

**Check the updated list of Certified Production Facilities at Architectural Testing's website at [www.archtest.com](http://www.archtest.com).**



USGBC and related logo is a trademark owned by the U.S. Green Building Council and is used by permission.

## LOCATIONS

### ClarkDietrich Building Systems Manufacturing and Sales Locations:

CALIFORNIA Riverside P 951.360.3500	CALIFORNIA Sacramento P 951.360.3500	CONNECTICUT Bristol P 866.921.0023	FLORIDA Dade City P 352.518.4400
GEORGIA McDonough P 678.304.5500	HAWAII Kapolei P 951.360.3500	ILLINOIS Rochelle P 800.659.0745	MARYLAND Baltimore P 410.477.4000
OHIO Warren-East P 330.372.5564	OHIO Warren-West P 330.372.4014	TEXAS Baytown P 281.383.1617	TEXAS Dallas P 214.350.1716
CLIP EXPRESS™-EAST P 866.638.1908	CLIP EXPRESS™-WEST P 530.406.3462	VINYL CORP P 800.648.4695	

### ClarkDietrich Engineering Services. A full spectrum of solutions.

Toll-Free Phone: 877.832.3206  
Technical Services: 888.437.3244  
Toll Free Fax: 877.832.3208  
Email: [engineering@clarkdietrich.com](mailto:engineering@clarkdietrich.com)

CENTRAL Crown Point, IN  
NORTHEAST Bristol, CT  
SOUTHEAST Roswell, GA  
SOUTHEAST McDonough, GA  
WEST Carlsbad, CA

The technical content of this page is effective 08/18/14 and supersedes all previous information

## Section 1 – Identification

**1(a) Product Identifier used on Label:** Coated Steel Sheet.  
**1(b) Use/Description:** Coated Steel Sheet for thin gauge framing products.  
**1(d) Products:** Cold-Formed Steel Framing components and accessories for drywall, curtain wall and load bearing systems. Also includes metal lath and plaster accessories.  
**1(d) Synonyms:** Hot Band, Cold Rolled, P&O, Galvanized.  
**1(e) Company Identification and Emergency Contact Information:** ClarkDietrich Building Systems

**Corporate Office:**

9100 Centre Point Drive, Suite 210 Phone: 513-870-1100 Fax: 513-870-1300 <http://www.clarkdietrich.com/>  
 West Chester, OH 45069



**Manufacturing Locations:**

Baltimore, MD	Baytown, TX	Bristol, CT	Dade City, FL
Dallas, TX	Kapolei, HI	McDonough, GA	Riverside, CA
Rochelle, IL	Sacramento, CA	Warren East & West, OH	

## Section 2 – Hazard(s) Identification

**2(a) Classification of the chemical:** Coated Steel Sheet is considered an article under Reach regulation (REACH REGULATION (EC) No 1907/2006) and is not subject to classification under CLP regulation (REGULATION (EC) No 1272/2008). However, Coated Steel Sheet is not exempt as an article under OSHA's Hazard Communication Standard (29 CFR 1910.1200) due to its downstream use, thus this product is considered a mixture and a hazardous material. Therefore, the categories of Health Hazards as defined in "GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), Third revised edition ST/SG/AC.10/30/Rev.3" United Nations, New York and Geneva, 2009 have been evaluated. Refer to Section 3, 8 and 11 for additional information.

**2(b) Signal word, hazard statement(s), symbols and precautionary statement(s):**

Hazard Symbol	Hazard Classification	Signal Word	Hazard Statement(s)
	Carcinogenicity - 2 Reproductive Toxicity - 2 Single Target Organ Toxicity (STOT) Repeat Exposure -1	<b>Danger</b>	Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to lungs and central nervous system through prolonged or repeated inhalation exposure.
	Acute Toxicity-Oral - 4 Skin Sensitization - 1 STOT Single Exposure - 3		Harmful if swallowed. May cause an allergic skin reaction. Harmful in contact with skin. May cause respiratory irritation.
NA	Eye Irritation-2B		Causes eye irritation.

**Precautionary Statement(s):**

Prevention	Response	Storage/Disposal
Do not breathe dusts / fume / gas / mist / vapor / spray. Wear protective gloves / protective clothing / eye protection / face protection. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in well ventilated areas. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product.	If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed, concerned or feel unwell: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. If on skin: Wash with plenty of water. If irritation or rash occurs: Get medical advice/attention. Take off and wash contaminated clothing before reuse. Call a poison center/doctor if you feel unwell.	Dispose of contents in accordance with federal, state and local regulations.

**2(c) Hazards not otherwise classified:** None Known  
**2(d) Unknown acute toxicity statement (mixture):** None Known