2140 Research Dr
Livermore, CA 94550
Ph 925 447 3500
Fax 925 447 1595

Project Information:
Name:
Adress:

Contractor Information:
Name:
Contact:
Phone:

Product Specification Submittal

PrimeStud™

Member Designation: 162PS125-15

General Product Information:

Web Width:	1.625in	Flange Width:	1.25 in
Design Thickness:	0.0158	Yield Strength:	41 ksi
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in^2)	0.075
Ix (in^4)	0.034
Rx (in)	0.678
Iy (in^4)	0.017
Ry (in)	0.475

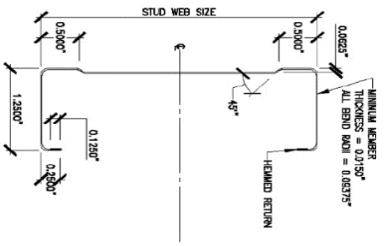
ICC - ER-3503

Effective Properties

Ixe (in^4)	0.030
Sxe (in^3)	0.034
Ma FB(in-k)	0.85
Ma 48(in-k)	0.71
Va (lb)	185

Torsional Properties

Xo (in)	-1.155
Jx1000 (in^4)	0.00062
Cw (in^6)	0.012
Ro (in)	1.421
ß	0.339
Lu (in)	29.3



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	9' 3"	7' 4"	6' 5"	8' 1"	6' 5"	6' 5"	7' 4"	5' 10"	5' 1"
16	8' 5"	6' 8"	5' 10"	7' 4"	5' 10"	5' 10"	6' 6" f	5' 3"	4' 7"
24	7' 4"	5' 10"	5' 1"	6' 1" f	5' 1"	5' 1"	5' 3" f	4' 7"	4' 0"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Product Specification Submittal

PrimeStud™

Member Designation: 162PS137-19

General Product Information:

Web Width:	1.625	Flange Width:	1.375
Design Thickness:	0.0189	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.094
Ix (in⁴)	0.044
Rx (in)	0.683
Iy (in⁴)	0.025
Ry (in)	0.517

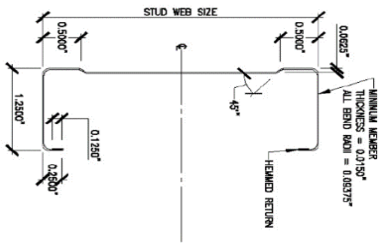
ICC - ER-3503

Effective Properties

Ixe (in⁴)	0.039
Sxe (in³)	0.045
Ma FB(in-k)	1.09
Ma 48(in-k)	0.97
Va (lb)	219

Torsional Properties

Xo (in)	-1.275
Jx1000 (in⁴)	0.01116
Cw (in⁶)	0.017
Ro (in)	1.537
ß	0.311
Lu (in)	31.7



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	9'0"	9'0"	7'10"	7'10"	7'10"	6'10"	7'1"	7'1"	6'2"
16	8'2"	8'2"	7'1"	7'1"	7'1"	6'2"	6'6"	6'6"	5'8"
24	7'1"	7'1"	6'2"	6'2"	6'2"	5'5"	5'8"	5'8"	4'11"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
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Product Specification Submittal

PrimeStud™

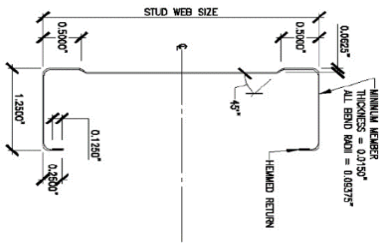
Member Designation: 162PS137-24

General Product Information:

Web Width:	1.625	Flange Width:	1.375
Design Thickness:	0.0248	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties — **ICC - ER-3503**

Gross Properties		Effective Properties		Torsional Properties	
Area (in^2)	0.123	Ixe (in^4)	0.054	Xo (in)	-1.273
Ix (in^4)	0.057	Sxe (in^3)	0.064	Jx1000 (in^4)	0.02513
Rx (in)	0.68	Ma FB(in-k)	1.57	Cw (in^6)	0.023
Iy (in^4)	0.033	Ma 48(in-k)	1.39	Ro (in)	1.532
Ry (in)	0.515	Va (lb)	231	ß	0.31
				Lu (in)	31.8



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
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6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	11'2"	8'10"	7'9"	9'9"	7'9"	6'9"	8'10"	7'0"	6'2"
16	10'2"	8'1"	7'0"	8'10"	7'0"	6'2"	8'1"	6'5"	5'7"
24	8'10"	7'0"	6'2"	7'9"	6'2"	5'4"	7'0"	5'7"	4'10"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
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Product Specification Submittal

PrimeStud™

Member Designation: 250PS125-15

General Product Information:

Web Width:	2.5	Flange Width:	1.25
Design Thickness:	0.0158	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in^2)	0.088
Ix (in^4)	0.091
Rx (in)	1.015
Iy (in^4)	0.019
Ry (in)	0.465

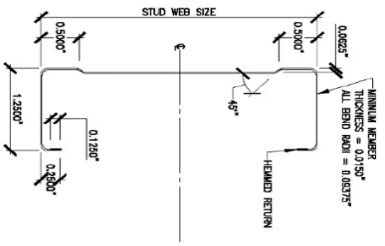
ICC - ER-3503

Effective Properties

Ixe (in^4)	0.081
Sxe (in^3)	0.06
Ma FB(in-k)	1.47
Ma 48(in-k)	1.23
Va (lb)	221

Torsional Properties

Xo (in)	-0.992
Jx1000 (in^4)	0.00735
Cw (in^6)	0.027
Ro (in)	1.494
ß	0.559
Lu (in)	29.9



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	12'10"	10'2"	8'10"	11'2"	8'10"	7'9"	9'10" f	8'1"	7'0"
16	11'8"	9'3"	8'1"	9'10" f	8'1"	7'0"	8'6" f	7'4"	6'5"
24	9'10" f	8'1"	7'0"	8'1" f	7'0"	6'2"	7'0" f	6'5"	5'7"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

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3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
Name:
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Contractor Information:
Name:
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Product Specification Submittal

PrimeStud™

Member Designation: 250PS137-19

General Product Information:

Web Width:	2.5	Flange Width:	1.375
Design Thickness:	0.0189	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.11
Ix (in⁴)	0.116
Rx (in)	1.024
Iy (in⁴)	0.029
Ry (in)	0.51

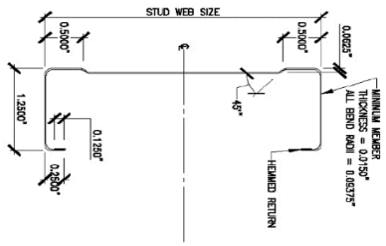
ICC - ER-3503

Effective Properties

Ixe (in⁴)	0.104
Sxe (in³)	0.077
Ma FB(in-k)	1.89
Ma 48(in-k)	1.66
Va (lb)	436

Torsional Properties

Xo (in)	-1.105
Jx1000 (in⁴)	0.01313
Cw (in⁶)	0.040
Ro (in)	1.591
ß	0.517
Lu (in)	33.3



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	12'5"	12'5"	10'10"	10'10"	10'10"	9'6"	9'10"	9'10"	8'7"
16	11'4"	11'4"	9'10"	9'10"	9'10"	8'7"	9'0"	9'0"	7'10"
24	9'10"	9'10"	8'7"	8'7"	8'7"	7'6"	7'10"	7'10"	6'10"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
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3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
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6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Product Specification Submittal

PrimeStud™

Member Designation: 250PS137-24

General Product Information:

Web Width:	2.5	Flange Width:	1.375
Design Thickness:	0.0248	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.144
Ix (in⁴)	0.15
Rx (in)	1.021
Iy (in⁴)	0.037
Ry (in)	0.508

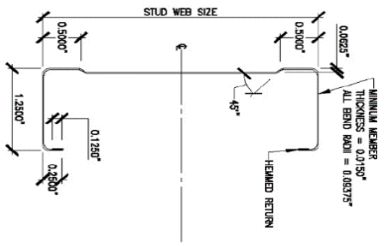
ICC - ER-3503

Effective Properties

Ixe (in⁴)	0.143
Sxe (in³)	0.11
Ma FB(in-k)	2.7
Ma 48(in-k)	2.36
Va (lb)	318

Torsional Properties

Xo (in)	-1.102
Jx1000 (in⁴)	0.02958
Cw (in⁶)	0.052
Ro (in)	1.586
ß	0.517
Lu (in)	32.4



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	15'6"	12'3"	10'9"	13'6"	10'9"	9'4"	12'4"	9'9"	8'6"
16	14'1"	11'2"	9'9"	12'4"	9'9"	8'6"	11'2"	8'10"	7'9"
24	12'4"	9'9"	8'6"	10'9"	8'6"	7'5"	9'5" f	7'9"	6'9"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
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6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
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Contractor Information:
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Product Specification Submittal

PrimeStud™

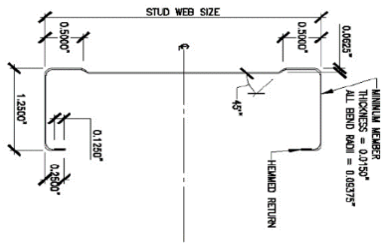
Member Designation: 362PS125-15

General Product Information:

Web Width:	3.625	Flange Width:	1.25
Design Thickness:	0.0158	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties **ICC - ER-3503**

Gross Properties		Effective Properties		Torsional Properties	
Area (in^2)	0.106	Ixe (in^4)	0.188	Xo (in)	-0.853
Ix (in^4)	0.214	Sxe (in^3)	0.095	Jx1000 (in^4)	0.00883
Rx (in)	1.422	Ma FB(in-k)	2.33	Cw (in^6)	0.059
Iy (in^4)	0.021	Ma 48(in-k)	1.95	Ro (in)	1.717
Ry (in)	0.447	Va (lb)	273	ß	0.753
				Lu (in)	31.9



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	17.0"	13'6"	11'9"	14'4" f	11'9"	10'3"	12'5"f	10'8"	9'4"
16	15'3" f	12'3"	10'8"	12'5" f	10'8"	9'4"	10'9" f	9'8"	8'6"
24	12'5" f	10'8"	9'4"	10'2" f	9'4"	8'2"	8'9" f	8'6"	7'5"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
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4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
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6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Product Specification Submittal

PrimeStud™

Member Designation: 362PS137-19

General Product Information:

Web Width:	3.625	Flange Width:	1.375
Design Thickness:	0.0189	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties — **ICC - ER-3503**

Gross Properties

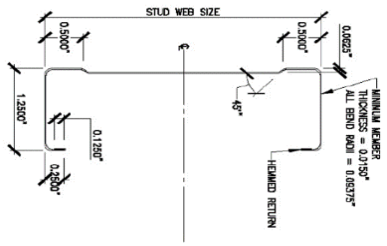
Area (in^2)	0.132
Ix (in^4)	0.271
Rx (in)	1.435
Iy (in^4)	0.032
Ry (in)	0.493

Effective Properties

Ixe (in^4)	0.240
Sxe (in^3)	0.123
Ma FB(in-k)	3.01
Ma 48(in-k)	2.67
Va (lb)	288

Torsional Properties

Xo (in)	0.957
Jx1000 (in^4)	0.01566
Cw (in^6)	0.087
Ro (in)	1.794
ß	0.715
Lu (in)	35.1



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	16'5"	16'5"	14'5"	14'5"	14'5"	12'7"	13'1"	13'1"	11'5"
16	15'0"	15'0"	13'1"	13'1"	13'1"	11'5"	11'10"	11'10"	10'4"
24	13'1"	13'11"	11'5"	11'5"	11'5"	10'0"	10'0"	10'10"	9'1"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
Name:
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Contractor Information:
Name:
Contact:
Phone:

Product Specification Submittal

PrimeStud™

Member Designation: 362PS137-24

General Product Information:

Web Width (in):	3.625	Flange Width (in):	1.375
Design Thickness (in):	0.0236	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Weight (lb/ft)	0.59
Area (in²)	0.231
Ix (in⁴)	1.161
Rx (in)	2.241
Iy (in⁴)	0.047
Ry (in)	0.451

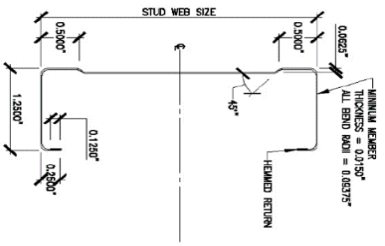
ICC - ER-3503

Effective Properties

Ixe (in⁴)	1.067
Sxe (in³)	0.358
Ma FB(in-k)	8.06
Ma 48(in-k)	6.86
Va (lb)	351

Torsional Properties

Xo (in)	0.757
Jx1000 (in⁴)	0.04737
Cw (in⁶)	0.341
Ro (in)	2.408
ß	0.901
Lu (in)	30.8



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	20'6"	16'3"	14'3"	17'11"	14'3"	12'5"	16'3"	12'11"	11'3"
16	18'8"	14'9"	12'11"	16'3"	12'11"	11'3"	14'8"	11'9"	10'3"
24	16'3"	12'11"	11'3"	13'10"f	11'3"	9'10"	12'0"f	10'3"	8'11"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
Name:
Adress:

Contractor Information:
Name:
Contact:
Phone:

Product Specification Submittal

PrimeStud™

Member Designation: 400PS125-15

General Product Information:

Web Width:	4	Flange Width:	1.25
Design Thickness:	0.0158	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.112
Ix (in⁴)	0.27
Rx (in)	1.552
Iy (in⁴)	0.022
Ry (in)	0.441

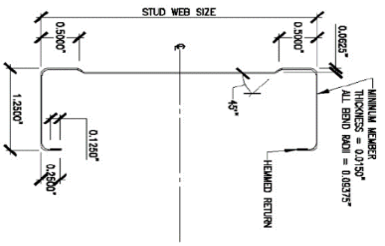
ICC - ER-3503

Effective Properties

Ixe (in⁴)	0.235
Sxe (in³)	0.107
Ma FB(in-k)	2.62
Ma 48(in-k)	2.19
Va (lb)	232

Torsional Properties

Xo (in)	-0.816
Jx1000 (in⁴)	0.00933
Cw (in⁶)	0.073
Ro (in)	1.808
ß	0.796
Lu (in)	31.7



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	18'4"	14'6"	12'8"	15'3" f	12'8"	11'1"	13'2" f	11'6"	10'1"
16	16'1" f	13'2"	11'6"	13'2" f	11'6"	10'1"	11'5" f	10'6"	9'2"
24	13'2" f	11'6"	10'1"	10'9"	10'1"	8'9"	9'4" f	9'2"	8'0"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:

Name:

Adress:

Contractor Information:

Name:

Contact:

Phone:

Product Specification Submittal

PrimeStud™

Member Designation: 400PS137-19

General Product Information:

Web Width:	4	Flange Width:	1.375
Design Thickness:	0.0189	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.139
Ix (in⁴)	0.341
Rx (in)	1.568
Iy (in⁴)	0.033
Ry (in)	0.486

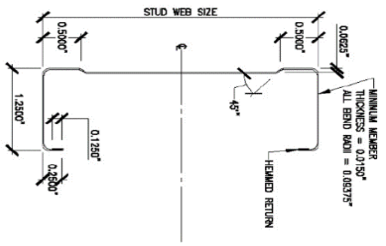
ICC - ER-3503

Effective Properties

Ixe (in⁴)	0.301
Sxe (in³)	0.138
Ma FB(in-k)	3.39
Ma 48(in-k)	3.00
Va (lb)	245

Torsional Properties

Xo (in)	-0.918
Jx1000 (in⁴)	0.01651
Cw (in⁶)	0.108
Ro (in)	1.881
ß	0.762
Lu (in)	34.9



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	17'9"	17'9"	15'6"	15'6"	15'6"	13'7"	14'1"	14'1"	12'4"
16	16'2"	16'2"	14'1"	14'1"	14'1"	12'4"	12'10"	12'10"	11'2"
24	14'1"	14'1"	12'4"	12'3" f	12'3" f	10'9"	10'7" f	10'7" f	9'9"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
Name:
Adress:

Contractor Information:
Name:
Contact:
Phone:

Product Specification Submittal

PrimeStud™

Member Designation: 400PS137-24

General Product Information:

Web Width:	4	Flange Width:	1.375
Design Thickness:	0.0248	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.181
Ix (in⁴)	0.444
Rx (in)	1.565
Iy (in⁴)	0.043
Ry (in)	0.484

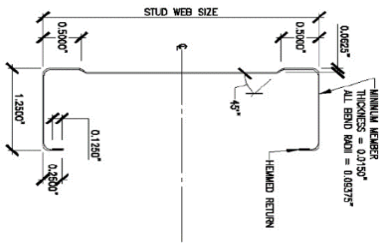
ICC - ER-3503

Effective Properties

Ixe (in⁴)	0.416
Sxe (in³)	0.199
Ma FB(in-k)	4.89
Ma 48(in-k)	4.31
Va (lb)	303

Torsional Properties

Xo (in)	-0.915
Jx1000 (in⁴)	0.03721
Cw (in⁶)	0.14
Ro (in)	1.876
ß	0.762
Lu (in)	34.8



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	22'2"	17'7"	15'4"	19'4"	15'4"	13'5"	17'7"	13'11	12'2"
16	20'1"	15'11"	13'11"	17'7"	13'11"	12'2"	15'7" f	12'8"	11'1"
24	17'7"	13'11"	12'2"	14'8" f	12'2"	10'7"	12'9" f	11'1"	9'8"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
Name:
Adress:

Contractor Information:
Name:
Contact:
Phone:

Product Specification Submittal

PrimeStud™

Member Designation: 600PS125-15

General Product Information:

Web Width:	6	Flange Width:	1.25
Design Thickness:	0.0158	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.144
Ix (in⁴)	0.709
Rx (in)	2.222
Iy (in⁴)	0.024
Ry (in)	0.409

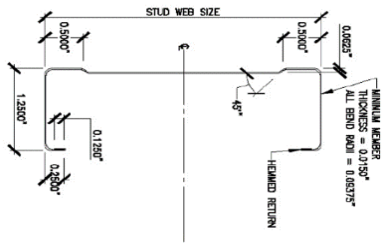
ICC - ER-3503

Effective Properties

Ixe (in⁴)	0.599
Sxe (in³)	0.174
Ma FB(in-k)	4.27
Ma 48(in-k)	3.40
Va (lb)	195

Torsional Properties

Xo (in)	-0.670
Jx1000 (in⁴)	0.01196
Cw (in⁶)	0.177
Ro (in)	2.357
ß	0.919
Lu (in)	27.4



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	23'9" f	19'10"	17'4"	19'5" f	17'4"	15'2"	16'10" f	15'9"	13'9"
16	20'8" f	18'0"	15'9"	16'10" f	15'9"	13'9"	14'7" f	14'3"	12'6"
24	16'10" f	15'9"	13'9"	13'9" f	13'9" f	12'0"	11'11" f	11'11" f	10'11"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
Name:
Adress:

Contractor Information:
Name:
Contact:
Phone:

Product Specification Submittal

PrimeStud™

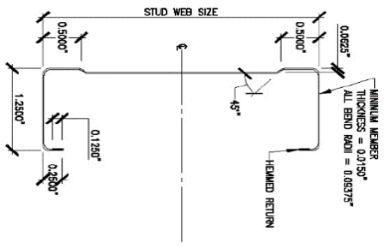
Member Designation: 600PS137-19

General Product Information:

Web Width:	6	Flange Width:	1.375
Design Thickness:	0.0189	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties		ICC - ER-3503 Effective Properties		Torsional Properties	
Area (in^2)	0.176	Ixe (in^4)	0.766	Xo (in)	-0.76
Ix (in^4)	0.889	Sxe (in^3)	0.226	Jx1000 (in^4)	0.02101
Rx (in)	2.244	Ma FB(in-k)	5.54	Cw (in^6)	0.263
Iy (in^4)	0.036	Ma 48(in-k)	4.72	Ro (in)	2.413
Ry (in)	0.453	Va (lb)	135	ß	0.910
				Lu (in)	30.4



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	24'3"	24'3"	21'2"	21'2"	21'2"	18'6"	19'2" f	19'2" f	16'10"
16	22'1"	22'1"	19'3"	19'2" f	19'2" f	16'10"	16'7" f	16'7" f	15'3"
24	19'2" f	19'2" f	16'10"	15'8" f	15'8" f	14'8"	13'7" f	13'7" f	13'4"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.

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Project Information:
Name:
Adress:

Contractor Information:
Name:
Contact:
Phone:

Product Specification Submittal

PrimeStud™

Member Designation: 600PS137-24

General Product Information:

Web Width:	6	Flange Width:	1.375
Design Thickness:	0.0248	Yield Strength:	41 KSI
Galvanized Coating:	G-60		

Section Properties

Gross Properties

Area (in²)	0.231
Ix (in⁴)	1.161
Rx (in)	2.241
Iy (in⁴)	0.047
Ry (in)	0.451

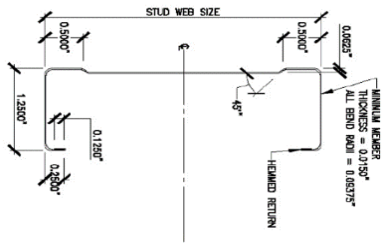
ICC - ER-3503

Effective Properties

Ixe (in⁴)	1.067
Sxe (in³)	0.358
Ma FB(in-k)	8.06
Ma 48(in-k)	6.86
Va (lb)	351

Torsional Properties

Xo (in)	-0.757
Jx1000 (in⁴)	0.04737
Cw (in⁶)	0.341
Ro (in)	2.408
ß	0.901
Lu (in)	30.8



Section Property Notes:

1. Calculated properties are based on AISI S100-12, “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. The centerline bend radius is based upon inside corner radii.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.
7. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Non-Composite Interior Wall Heights

Spacing	5 psf			7.5 psf			10 psf		
(in) O.C.	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	30'4"	24'1"	21'0"	26'6"	21'0"	18'4"	23'2" f	19'1"	16'8"
16	27'7"	21'10"	19'1"	23'2"f	19'1"	16'8"	20'0"	17'4"	15'2"
24	23'2" f	19'1"	16'8"	18'11"f	16'8"	14'7"	16'4" f	16'4" f	13'3"

Table Notes:

"f" - Flexible controls. If no letter appears, deflectional controls

1. Limiting heights are in accordance with AISI S100-07/S2-10 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear, web crippling, and deflection
3. For bending, studs are assumed to be adequately braced to develop full allowable moment. Studs are considered fully braced when unbraced length is less than UL
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. Limiting heights shown in this table are based on the steel properties only. No composite action has been accounted for.
6. No web stiffeners are required for studs with h/t > 200, web crippling and shear values have been confirmed by testing and reported in the PrimeStud properties table.