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: 162PS137-24

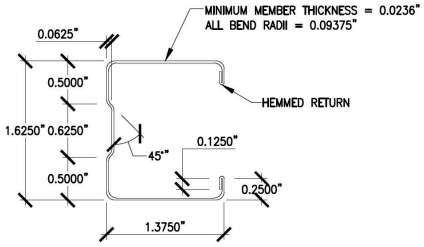
General Product Information:

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.
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	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.
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: 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 (in^2)	0.144
Ix (in^4)	0.15
Rx (in)	1.021
Iy (in^4)	0.037
Ry (in)	0.508

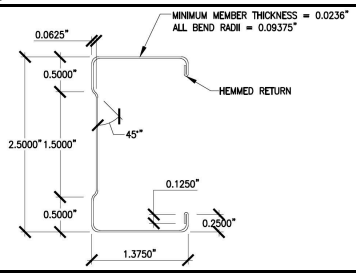
ICC - ER-3503

Effective Properties

Ixe (in^4)	0.143
Sxe (in^3)	0.11
Ma FB(in-k)	2.7
Ma 48(in-k)	2.36
Va (lb)	318

Torsional Properties

Xo (in)	-1.102
Jx1000 (in^4)	0.02958
Cw (in^6)	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.
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™

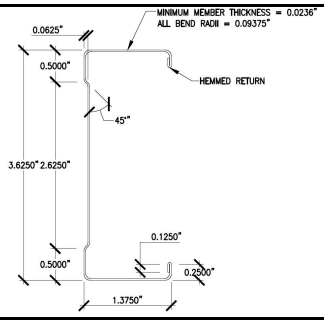
Member Designation: 362PS137-24

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 — **ICC - ER-3503**

Gross Properties		Effective Properties		Torsional Properties	
Weight (lb/ft)	0.59	Ixe (in^4)	1.067	Xo (in)	0.757
		Sxe (in^3)	0.358	Jx1000 (in^4)	0.04737
Area (in^2)	0.231	Ma FB(in-k)	8.06	Cw (in^6)	0.341
Ix (in^4)	1.161	Ma 48(in-k)	6.86	Ro (in)	2.408
Rx (in)	2.241	Va (lb)	351	ß	0.901
Iy (in^4)	0.047			Lu (in)	30.8
Ry (in)	0.451				



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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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 (in^2)	0.181
Ix (in^4)	0.444
Rx (in)	1.565
Iy (in^4)	0.043
Ry (in)	0.484

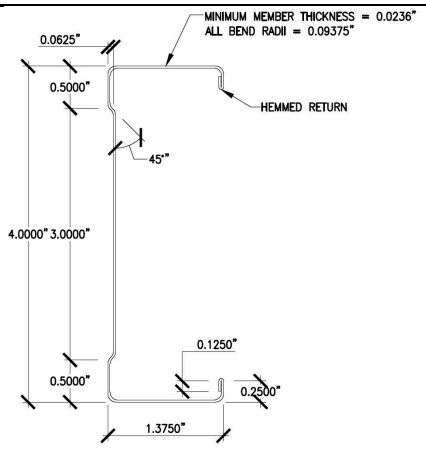
ICC - ER-3503

Effective Properties

Ixe (in^4)	0.416
Sxe (in^3)	0.199
Ma FB(in-k)	4.89
Ma 48(in-k)	4.31
Va (lb)	303

Torsional Properties

Xo (in)	-0.915
Jx1000 (in^4)	0.03721
Cw (in^6)	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

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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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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 (in^2)	0.231
Ix (in^4)	1.161
Rx (in)	2.241
Iy (in^4)	0.047
Ry (in)	0.451

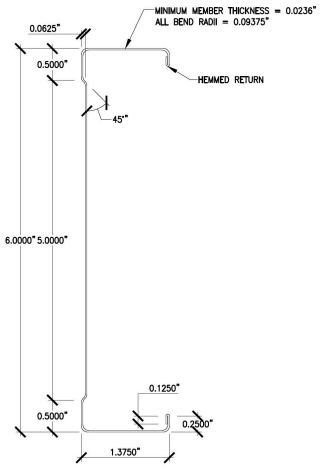
ICC - ER-3503

Effective Properties

Ixe (in^4)	1.067
Sxe (in^3)	0.358
Ma FB(in-k)	8.06
Ma 48(in-k)	6.86
Va (lb)	351

Torsional Properties

Xo (in)	-0.757
Jx1000 (in^4)	0.04737
Cw (in^6)	0.341
Ro (in)	2.408
ß	0.901
Lu (in)	30.8



Section Property Notes:

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6. Allowable moment includes cold-work of forming.
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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

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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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