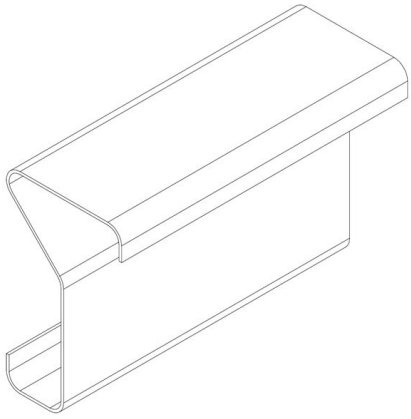
Structural Chord (16GA)

335SLC-54 (16 GA) G60 Coating



Geometric Properties

Depth (in)	3.325
Top Flange (in)	1.969
Bottom Flange (in)	0.955
Top Lip (in)	0.471
Bottom Lip (in)	0.47
Lip Angle (degree)	90
Inside Radius (in)	n/a
Radius to Centerline (in)	0.217
Design Thickness (in)	0.0566
Min# Steel Thickness	0.0538
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

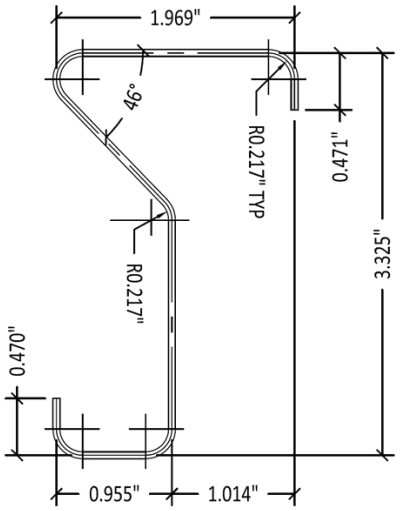
Xo (in)	0.051
Jx1000 (in4)	0.434
Cw (in6)	0.324
Ro (in)	1.634

Gross Section Properties

Area (in2)	0.407
Weight (lbs/ft)	1.383
Ix (in4)	0.665
Sx (in3)	0.338
Rx (in)	1.279
Iy (in4)	0.115
Ry (in)	0.532

Effective Section Properties

Ae (in2)	0.383
Ixe (in4)	0.654
Sxe (in3)	0.337
Mx (k-in)	10.080
My (k-in)	2.846
Vx (k)	10.629
Pa (k)	n/a



Relevant Symbols

A	Cross section area
Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
Sx	Section modulus about the X axis for extreme fiber
Sxe	Effective section modulus about the X axis for extreme fiber
Mx	Allowable bending moment about X axis
My	Allowable bending moment about Y axis
Vx	Allowable shear force in web (solid section)
J St.	Venant torsion constant
Xo	Horizontal coordinate of the shear center relative to the centroid
Cw	Torsional warping constant
Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

Codes, Standards & Green Information

- AISI S100-16: North American Specification for the Design of CFS Structural Members
- AISI S240-15:North American Standard for Cold-Formed Steel Structural Framing
- Material shall comply with ASTM A1003/A1003M
- Corrosion Protection shall comply with ASTM A653/A653M
- AISI S202-15: Code of Standard Practice for Cold-Formed Steel Structural Framing
- LEED v3 & LEED v4 credits available

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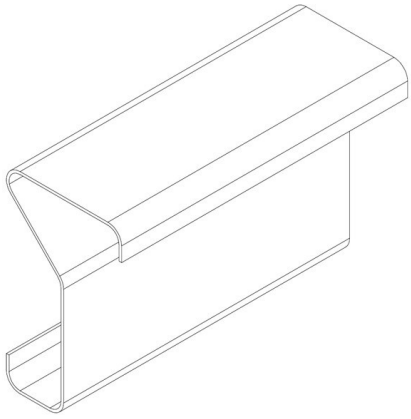
Structural Chord (18GA)

335SLC-43 (18 GA) G60 Coating



Geometric Properties

Depth (in)	3.325
Top Flange (in)	1.969
Bottom Flange (in)	0.955
Top Lip (in)	0.471
Bottom Lip (in)	0.47
Lip Angle (degree)	90
Inside Radius (in)	n/a
Radius to Centerline (in)	0.217
Design Thickness (in)	0.0451
Min# Steel Thickness	0.0428
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

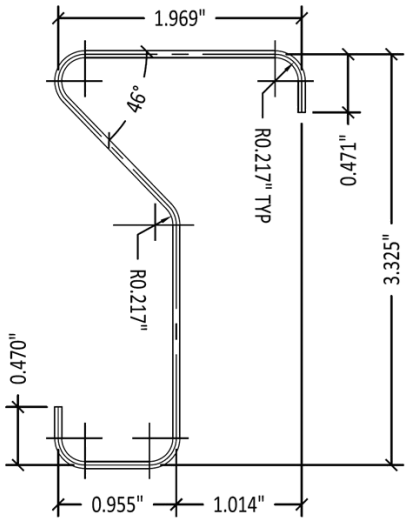
Xo (in)	0.051
Jx1000 (in4)	.0220
Cw (in6)	0.0258
Ro (in)	1.634

Gross Section Properties

Area (in2)	0.324
Weight (lbs/ft)	1.102
Ix (in4)	.0530
Sx (in3)	0.270
Rx (in)	1.279
Iy (in4)	0.0920
Ry (in)	0.532

Effective Section Properties

Ae (in2)	0.288
Ixe (in4)	0.496
Sxe (in3)	0.264
Mx (k-in)	6.731
My (k-in)	2.277
Vx (k)	7.195
Pa (k)	n/a



Relevant Symbols

A	Cross section area
Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
Sx	Section modulus about the X axis for extreme fiber
Sxe	Effective section modulus about the X axis for extreme fiber
Mx	Allowable bending moment about X axis
My	Allowable bending moment about Y axis
Vx	Allowable shear force in web (solid section)
J St.	Venant torsion constant
Xo	Horizontal coordinate of the shear center relative to the centroid
Cw	Torsional warping constant
Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

Codes, Standards & Green Information

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- LEED v3 & LEED v4 credits available

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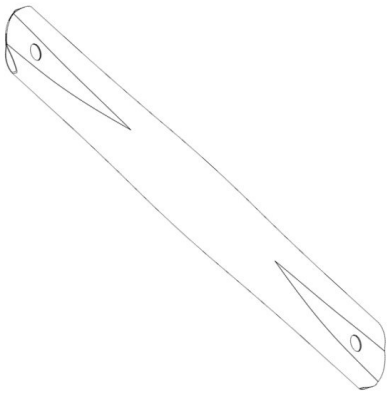
Structural Web

244SLW111-24 (22 GA) G60 Coating



Geometric Properties

Depth (in)	2.441
Top Flange (in)	1.110
Bottom Flange (in)	n/a
Top Lip (in)	n/a
Bottom Lip (in)	n/a
Lip Angle (degree)	n/a
Inside Radius (in)	n/a
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0237
Min# Steel Thickness	0.0225
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

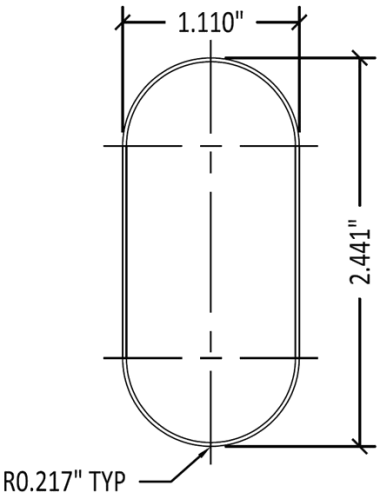
Xo (in)	n/a
Jx1000 (in4)	0.088
Cw (in6)	0.002
Ro (in)	0.932

Gross Section Properties

Area (in2)	0.144
Weight (lbs/ft)	0.490
Ix (in4)	0.094
Sx (in3)	0.077
Rx (in)	0.810
Iy (in4)	0.031
Ry (in)	0.461

Effective Section Properties

Ae (in2)	0.110
Ixe (in4)	0.094
Sxe (in3)	0.077
Mx (k-in)	1.934
My (k-in)	0.992
Vx (k)	1.182
Pa (k)	2.747



Relevant Symbols

A	Cross section area
Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
Sx	Section modulus about the X axis for extreme fiber
Sxe	Effective section modulus about the X axis for extreme fiber
Mx	Allowable bending moment about X axis
My	Allowable bending moment about Y axis
Vx	Allowable shear force in web (solid section)
J St.	Venant torsion constant
Xo	Horizontal coordinate of the shear center relative to the centroid
Cw	Torsional warping constant
Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

Codes, Standards & Green Information

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- LEED v3 & LEED v4 credits available

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PRODUCT SUBMITTAL SHEET

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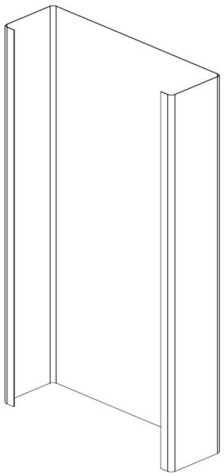
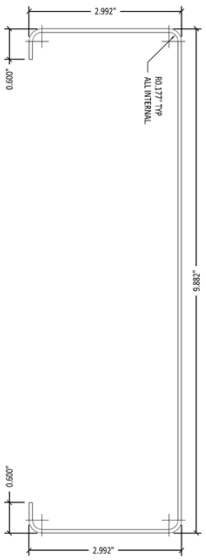
10” STRUCTURAL STUD

984SLS295-68 (14 GA) G60 Coating





Geometric Properties

Depth (in)	9.882
Top Flange (in)	2.992
Bottom Flange (in)	2.992
Top Lip (in)	0.600
Bottom Lip (in)	0.600
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0713
Min# Steel Thickness	0.0677
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

Xo (in)	-1.843
Jx1000 (in4)	1.984
Cw (in6)	21.823
Ro (in)	4.326

Gross Section Properties

Area (in2)	1.171
Weight (lbs/ft)	3.980
Ix (in4)	16.724
Sx (in3)	3.385
Rx (in)	3.780
Iy (in4)	1.204
Ry (in)	1.014

Effective Section Properties

Ae (in2)	0.576
Ixe (in4)	14.780
Sxe (in3)	2.782
Mx (k-in)	83.297
My (k-in)	14.490
Vx (k)	3.437
Pa (k)	n/a

Relevant Symbols

A	Cross section area
Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
Sx	Section modulus about the X axis for extreme fiber
Sxe	Effective section modulus about the X axis for extreme fiber
Mx	Allowable bending moment about X axis
My	Allowable bending moment about Y axis
Vx	Allowable shear force in web (solid section)
J St.	Venant torsion constant
Xo	Horizontal coordinate of the shear center relative to the centroid
Cw	Torsional warping constant
Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

Codes, Standards & Green Information

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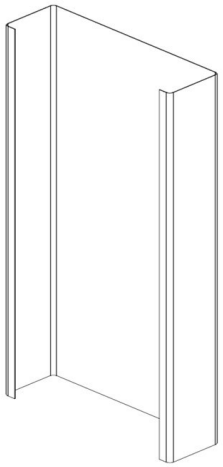
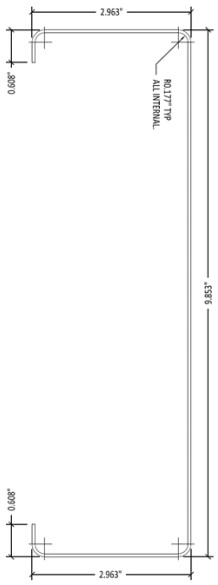
05.40.00 / Cold-Formed Metal Framing

10” STRUCTURAL STUD

984SLS295-54 (16 GA) G60 Coating





Geometric Properties

Depth (in)	9.853
Top Flange (in)	2.963
Bottom Flange (in)	2.963
Top Lip (in)	0.608
Bottom Lip (in)	0.608
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0566
Min# Steel Thickness	0.0538
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

Xo (in)	-1.844
Jx1000 (in4)	0.992
Cw (in6)	17.314
Ro (in)	4.322

Gross Section Properties

Area (in2)	0.929
Weight (lbs/ft)	3.159
Ix (in4)	13.240
Sx (in3)	2.688
Rx (in)	3.775
Iy (in4)	0.954
Ry (in)	1.014

Effective Section Properties

Ae (in2)	0.403
Ixe (in4)	10.675
Sxe (in3)	1.889
Mx (k-in)	56.544
My (k-in)	11.196
Vx (k)	1.719
Pa (k)	n/a

Relevant Symbols

A	Cross section area
Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
Sx	Section modulus about the X axis for extreme fiber
Sxe	Effective section modulus about the X axis for extreme fiber
Mx	Allowable bending moment about X axis
My	Allowable bending moment about Y axis
Vx	Allowable shear force in web (solid section)
J St.	Venant torsion constant
Xo	Horizontal coordinate of the shear center relative to the centroid
Cw	Torsional warping constant
Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

Codes, Standards & Green Information

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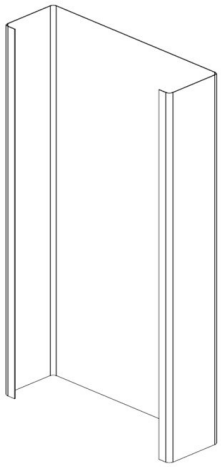
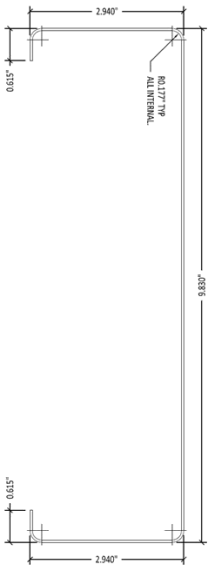
PRODUCT SUBMITTAL SHEET

05.40.00 / Cold-Formed Metal Framing

10” STRUCTURAL STUD

984SLS295-43 (18 GA) G60 Coating





Geometric Properties

Depth (in)	9.830
Top Flange (in)	2.940
Bottom Flange (in)	2.94
Top Lip (in)	0.615
Bottom Lip (in)	0.615
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0451
Min# Steel Thickness	0.0428
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

Xo (in)	-1.845
Jx1000 (in4)	0.502
Cw (in6)	13.789
Ro (in)	4.318

Gross Section Properties

Area (in2)	0.740
Weight (lbs/ft)	2.517
Ix (in4)	10.527
Sx (in3)	2.142
Rx (in)	3.771
Iy (in4)	0.760
Ry (in)	1.013

Effective Section Properties

Ae (in2)	0.287
Ixe (in4)	7.862
Sxe (in3)	1.325
Mx (k-in)	33.136
My (k-in)	8.666
Vx (k)	0.696
Pa (k)	n/a

Relevant Symbols

A	Cross section area
Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
Sx	Section modulus about the X axis for extreme fiber
Sxe	Effective section modulus about the X axis for extreme fiber
Mx	Allowable bending moment about X axis
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Vx	Allowable shear force in web (solid section)
J St.	Venant torsion constant
Xo	Horizontal coordinate of the shear center relative to the centroid
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Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

Codes, Standards & Green Information

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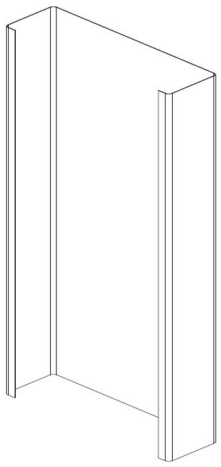
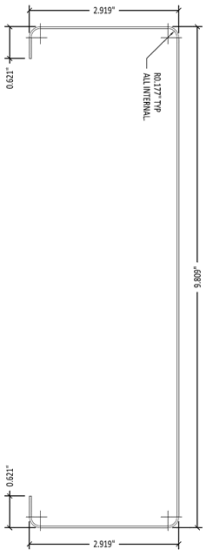
PRODUCT SUBMITTAL SHEET

05.40.00 / Cold-Formed Metal Framing

10” STRUCTURAL STUD

984SLS295-33 (20 GA) G60 Coating





Geometric Properties

Depth (in)	9.809
Top Flange (in)	2.919
Bottom Flange (in)	2.919
Top Lip (in)	0.621
Bottom Lip (in)	0.621
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0346
Min# Steel Thickness	0.0329
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

Xo (in)	-1.846
Jx1000 (in4)	0.227
Cw (in6)	10.574
Ro (in)	4.315

Gross Section Properties

Area (in2)	0.568
Weight (lbs/ft)	1.931
Ix (in4)	8.060
Sx (in3)	1.644
Rx (in)	3.767
Iy (in4)	0.582
Ry (in)	1.012

Effective Section Properties

Ae (in2)	0.196
Ixe (in4)	5.585
Sxe (in3)	0.903
Mx (k-in)	22.563
My (k-in)	6.423
Vx (k)	0.314
Pa (k)	n/a

Relevant Symbols

A	Cross section area
Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
Sx	Section modulus about the X axis for extreme fiber
Sxe	Effective section modulus about the X axis for extreme fiber
Mx	Allowable bending moment about X axis
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Vx	Allowable shear force in web (solid section)
J St.	Venant torsion constant
Xo	Horizontal coordinate of the shear center relative to the centroid
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Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

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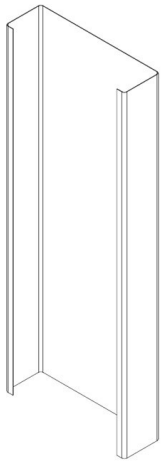
PRODUCT SUBMITTAL SHEET

05.40.00 / Cold-Formed Metal Framing

6” STRUCTURAL STUD

600SLS243-68 (14 GA) G60 Coating



Geometric Properties

Depth (in)	6.183
Top Flange (in)	2.641
Bottom Flange (in)	2.544
Top Lip (in)	0.408
Bottom Lip (in)	0.408
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0713
Min# Steel Thickness	0.0677
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

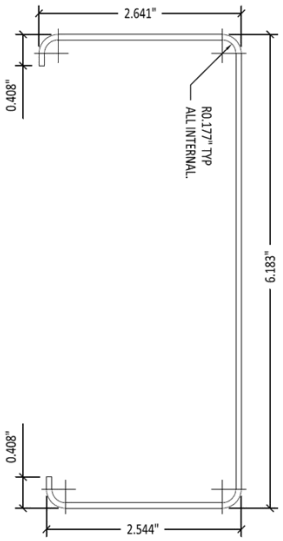
Xo (in)	-1.723
Jx1000 (in4)	1.394
Cw (in6)	4.407
Ro (in)	3.118

Gross Section Properties

Area (in2)	0.822
Weight (lbs/ft)	2.796
Ix (in4)	4.904
Sx (in3)	1.573
Rx (in)	2.442
Iy (in4)	0.642
Ry (in)	0.884

Effective Section Properties

Ae (in2)	0.506
Ixe (in4)	4.323
Sxe (in3)	1.309
Mx (k-in)	39.196
My (k-in)	9.548
Vx (k)	5.352
Pa (k)	n/a



Relevant Symbols

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Ae	Effective cross section area
Ix	Moment of inertia about the X axis
Ixe	Effective moment of inertia about X axis
Iy	Moment of inertia about the Y axis
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Xo	Horizontal coordinate of the shear center relative to the centroid
Cw	Torsional warping constant
Ro	Polar radius of gyration about the shear center
Rx	Radius of gyration
Ry	Gross radius of gyration

Codes, Standards & Green Information

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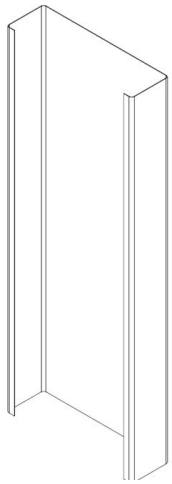
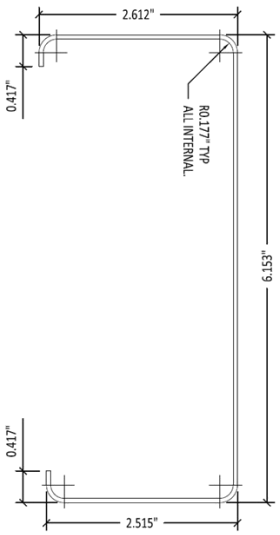
6” STRUCTURAL STUD

600SLS243-54 (16 GA) G60 Coating





Geometric Properties

Depth (in)	6.153
Top Flange (in)	2.612
Bottom Flange (in)	2.515
Top Lip (in)	0.417
Bottom Lip (in)	0.417
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0566
Min# Steel Thickness	0.0538
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

Xo (in)	-1.726
Jx1000 (in4)	0.697
Cw (in6)	3.502
Ro (in)	3.115

Gross Section Properties

Area (in2)	0.653
Weight (lbs/ft)	2.220
Ix (in4)	3.875
Sx (in3)	1.249
Rx (in)	2.436
Iy (in4)	0.510
Ry (in)	0.883

Effective Section Properties

Ae (in2)	0.353
Ixe (in4)	3.315
Sxe (in3)	0.993
Mx (k-in)	29.714
My (k-in)	7.422
Vx (k)	2.838
Pa (k)	n/a

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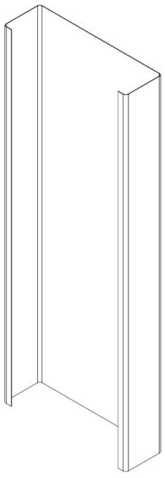
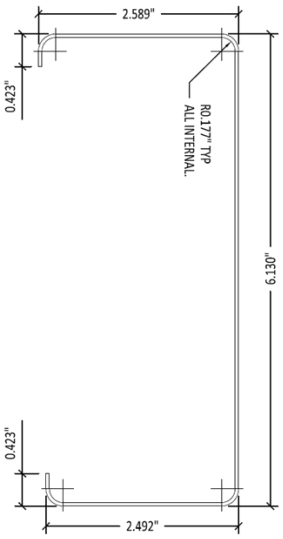
6” STRUCTURAL STUD

600SLS243-43 (18 GA) G60 Coating





Geometric Properties

Depth (in)	6.13
Top Flange (in)	2.589
Bottom Flange (in)	2.492
Top Lip (in)	0.423
Bottom Lip (in)	0.423
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0451
Min# Steel Thickness	0.0428
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

Xo (in)	-1.728
Jx1000 (in4)	0.353
Cw (in6)	2.792
Ro (in)	3.113

Gross Section Properties

Area (in2)	0.520
Weight (lbs/ft)	1.769
Ix (in4)	3.077
Sx (in3)	0.996
Rx (in)	2.432
Iy (in4)	0.406
Ry (in)	0.883

Effective Section Properties

Ae (in2)	0.248
Ixe (in4)	2.501
Sxe (in3)	0.726
Mx (k-in)	21.73
My (k-in)	5.760
Vx (k)	1.436
Pa (k)	n/a

Relevant Symbols

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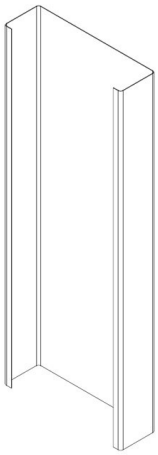
PRODUCT SUBMITTAL SHEET

05.40.00 / Cold-Formed Metal Framing

6” STRUCTURAL STUD

600SLS243-33 (20 GA) G60 Coating



Geometric Properties

Depth (in)	6.109
Top Flange (in)	2.568
Bottom Flange (in)	2.471
Top Lip (in)	0.429
Bottom Lip (in)	0.429
Lip Angle (degree)	90
Inside Radius (in)	0.177
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0346
Min# Steel Thickness	0.0329
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

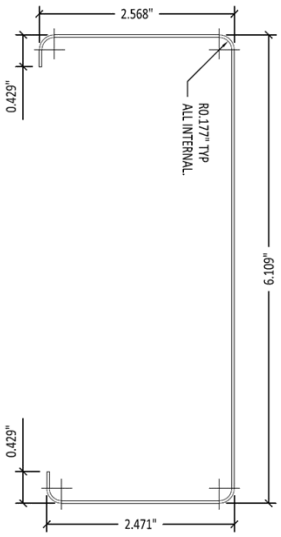
Xo (in)	-1.729
Jx1000 (in4)	0.159
Cw (in6)	2.143
Ro (in)	3.11

Gross Section Properties

Area (in2)	0.399
Weight (lbs/ft)	1.357
Ix (in4)	2.353
Sx (in3)	0.764
Rx (in)	2.428
Iy (in4)	0.311
Ry (in)	0.883

Effective Section Properties

Ae (in2)	0.165
Ixe (in4)	1.732
Sxe (in3)	0.473
Mx (k-in)	11.823
My (k-in)	4.271
Vx (k)	0.648
Pa (k)	n/a



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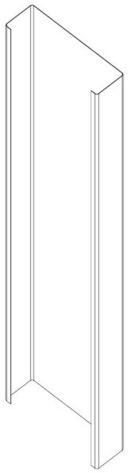
3-5/8” STRUCTURAL STUD

362SLS155-54 (16 GA) G60 Coating



Geometric Properties

Depth (in)	3.659
Top Flange (in)	1.660
Bottom Flange (in)	1.581
Top Lip (in)	0.32
Bottom Lip (in)	0.34
Lip Angle (degree)	90
Inside Radius (in)	0.165
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0566
Min# Steel Thickness	0.0538
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

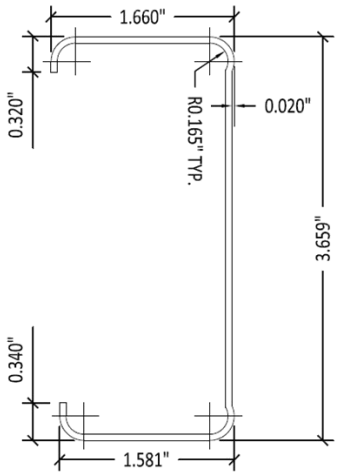
Xo (in)	-1.108
Jx1000 (in4)	0.424
Cw (in6)	0.306
Ro (in)	1.903

Gross Section Properties

Area (in2)	0.397
Weight (lbs/ft)	1.348
Ix (in4)	0.826
Sx (in3)	0.448
Rx (in)	1.443
Iy (in4)	0.122
Ry (in)	0.555

Effective Section Properties

Ae (in2)	0.325
Ixe (in4)	0.784
Sxe (in3)	0.418
Mx (k-in)	12.509
My (k-in)	3.101
Vx (k)	2.499
Pa (k)	n/a



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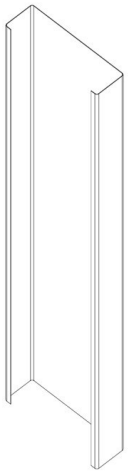
3-5/8” STRUCTURAL STUD

362SLS155-43 (18 GA) G60 Coating



Geometric Properties

Depth (in)	3.636
Top Flange (in)	1.637
Bottom Flange (in)	1.558
Top Lip (in)	0.327
Bottom Lip (in)	0.347
Lip Angle (degree)	90
Inside Radius (in)	0.165
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0451
Min# Steel Thickness	0.0428
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

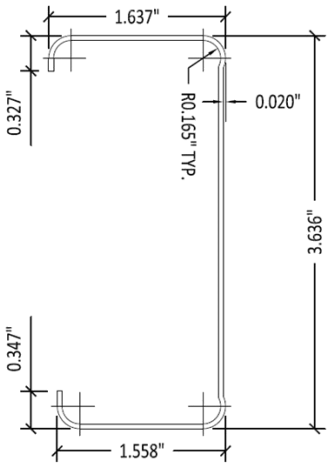
Xo (in)	-1.11
Jx1000 (in4)	0.214
Cw (in6)	0.244
Ro (in)	1.9

Gross Section Properties

Area (in2)	0.316
Weight (lbs/ft)	1.075
Ix (in4)	0.654
Sx (in3)	0.357
Rx (in)	1.438
Iy (in4)	0.097
Ry (in)	0.554

Effective Section Properties

Ae (in2)	0.230
Ixe (in4)	0.599
Sxe (in3)	0.315
Mx (k-in)	9.428
My (k-in)	2.459
Vx (k)	1.991
Pa (k)	n/a



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3-5/8” STRUCTURAL STUD

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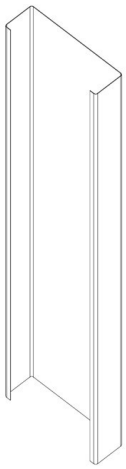


Geometric Properties

Depth (in)	3.615
Top Flange (in)	1.616
Bottom Flange (in)	1.537
Top Lip (in)	0.333
Bottom Lip (in)	0.353
Lip Angle (degree)	90
Inside Radius (in)	0.165
Radius to Centerline (in)	n/a
Design Thickness (in)	0.0346
Min# Steel Thickness	0.0329
Yield Strength, Fy (ksi)	50
Ultimate Strength, Fu (ksi)	65
Modulus of Elasticity, E (ksi)	29500

Torsional Section Properties

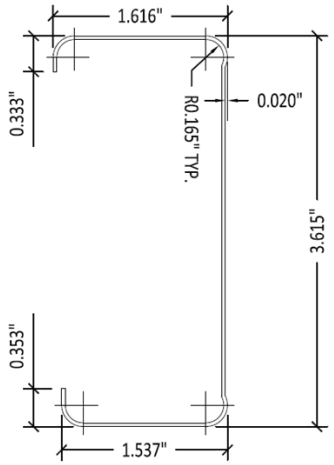
Xo (in)	-1.111
Jx1000 (in4)	0.097
Cw (in6)	0.188
Ro (in)	1.897

Gross Section Properties

Area (in2)	0.242
Weight (lbs/ft)	0.824
Ix (in4)	0.499
Sx (in3)	
Rx (in)	1.434
Iy (in4)	0.074
Ry (in)	0.553

Effective Section Properties

Ae (in2)	0.156
Ixe (in4)	0.439
Sxe (in3)	0.226
Mx (k-in)	6.770
My (k-in)	1.861
Vx (k)	1.257
Pa (k)	n/a



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