Sales@contractorsteelsystems.com

Product Submittal Data

Job Information

Company Name: MGS Contracting
Phone Number: 770-299-2295
Email: isabel@mgscontracting.com
Fax Number:

GC: Reeves Young
Phone Number: 678-750-1395

Contractor:
Phone Number:

Architect:
Phone Number:

Date:

03/05/2019

Additional Information:

Contractor Steel Systems

1470 Dale Ct
Austel, GA 30168
Phone: 919.880.5875

Contractor Steel Systems – Product Submittal Data

Product Name: 1 ½” x 1 ½” 20 GA DW Angle – 112A20 (DW)

Angle

Properties:

Leg A (in): 1 ½ ”
Leg B (in): 1 ½ “
Design Thickness: 0.0312
Min. Thickness: 0.0296
Gauge: 20
Finish: G40
Yield Strength Fy (KSI): 33

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.31066

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

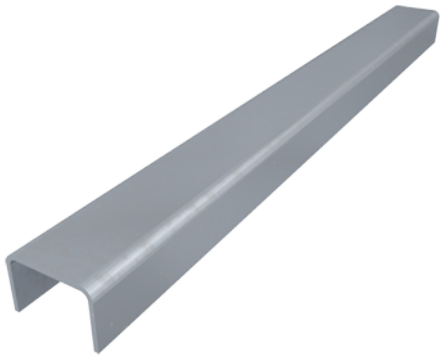
Contractor Steel Systems – Product Submittal Data

Product Name: 1 ½” 16 GA CR Channel – 112CRC

Properties:

Web (in): 1 1/2”
Design Thickness: 0.0566
Min. Thickness: 0.0538
Gauge: 16
Finish: G60
Yield Strength Fy (KSI): 50

CR Channel



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.435

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

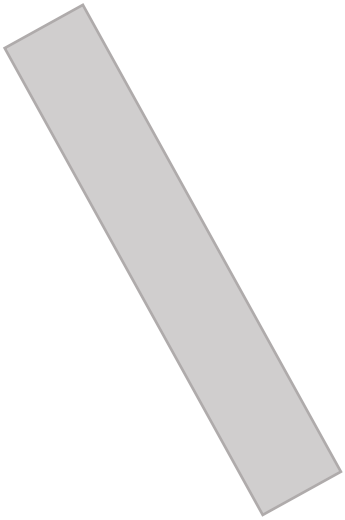
- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

Product Name: 6” 16 GA Flat Strap – 600FS-54

Properties:

Flat Strap



Web (in): 6”
Design Thickness: 0.0566
Min. Thickness: 0.0538
Gauge: 16
Finish: G60
Yield Strength Fy (KSI): 50

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.153

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

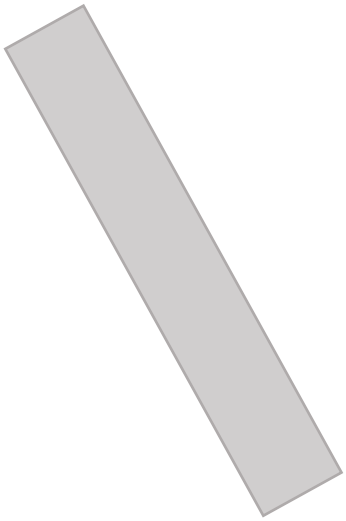
- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

Product Name: 8” 16 GA Flat Strap – 800FS-54

Properties:

Flat Strap



Web (in): 8”
Design Thickness: 0.0566
Min. Thickness: 0.0538
Gauge: 16
Finish: G60
Yield Strength Fy (KSI): 50

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.538

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

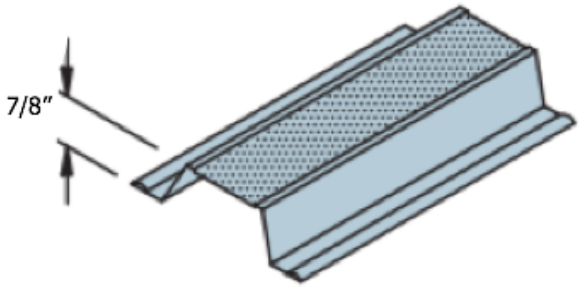
Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

Product Name: 7/8” 25 GA Furring Channel - 78DWF25

Furring Channel



Properties:

Web (in): 7/8”
Design Thickness: 0.0179
Min. Thickness: 0.0188
Gauge: 25
Finish: G40
Yield Strength Fy (KSI): 33

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.239

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

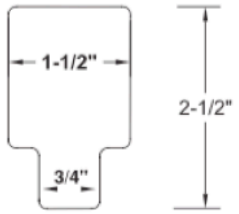
Contractor Steel Systems – Product Submittal Data

Product Name: 362S125-30

Properties:

A. Web (in): 3 5/8” Yield Strength Fy (KSI): 33
B. Flange (in): 1 1/4’’ Design Thickness: 0.0312
C. Lip (in): 1/4” Min. Thickness: 0.0296
Mils: 30 Gauge: 20
Finish: G40

Punch-Out Dimensions

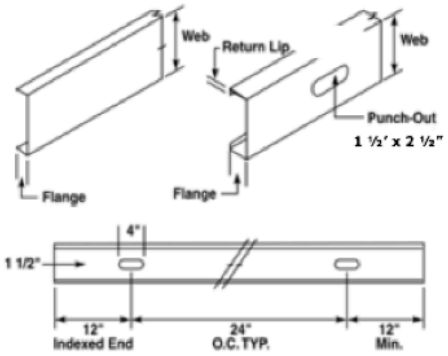


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.910
Cross Sectional Area: **A** (in^2)	.268
Moment of Inertia: **Ix** (in^4)	1.275
Radius of Gyration: **Rx** (in)	2.181
Gross Moment of Inertia: **Iy** (in^4)	0.038
Gross Radius of Gyration: **Ry** (in)	0.376

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	1.218
Section Modulus: **Sx** (in^3)	0.315

Moments:

Allowable Bending Moment: **Ma** (in-k)	6.22

Limiting Heights – Composite (ft-in)

	5 psf			10 psf			15 psf		
Spacing (in)	**L/120**	**L/240**	**L360**	**L/120**	**L240**	**L/360**	**L/120**	**L/240**	**L/360**
12	**20’ 3”**	**19’ 2”**	**16’ 9”**	**14’ 4”**	**14’ 4”**	**13’ 3”**	**11’ 8”**	**11’ 8”**	**11’ 7”**
16	**17’ 7”**	**17’ 5”**	**15’ 3”**	**12’ 5”**	**12’ 5”**	**12’ 1”**	**10’ 2”**	**10’ 2”**	**10’ 2”**
24	**14’ 4”**	**14’ 4”**	**13’ 3”**	**10’ 2”**	**10’ 2”**	**10’ 2”**	**8’ 3”**	**8’ 3”**	**8’ 3”**

Codes & Standards

- Meets or tested to: ASTM C 645
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

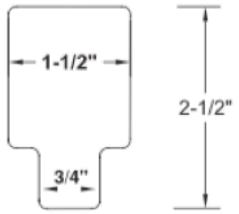
Product Name: 600S125-30

Properties:

A. Web (in): 6”
B. Flange (in): 1 1/4’’
C. Lip (in): 1/4”
Mils: 30
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0312
Min. Thickness: 0.0296
Gauge: 20

Punch-Out Dimensions

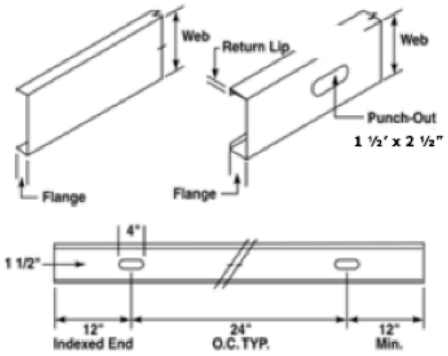


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.910
Cross Sectional Area: **A** (in^2)	.2680
Moment of Inertia: **Ix** (in^4)	1.275
Radius of Gyration: **Rx** (in)	2.181
Gross Moment of Inertia: **Iy** (in^4)	0.038
Gross Radius of Gyration: **Ry** (in)	0.376

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	1.218
Section Modulus: **Sx** (in^3)	0.315

Moments:

Allowable Bending Moment: **Ma** (in-k)	6.22

Limiting Heights – Composite (ft-in)

	5 psf			10 psf			15 psf		
Spacing (in)	**L/120**	**L/240**	**L360**	**L/120**	**L240**	**L/360**	**L/120**	**L/240**	**L/360**
12	**28’ 10”**	**28’ 4”**	**24’ 9”**	**20’ 4”**	**20’ 4”**	**19’ 8”**	**16’ 8”e**	**16’ 8”e**	**16’ 8”e**
16	**24’ 11”**	**24’ 11”**	**22’ 6”**	**17’ 8”**	**17’ 8”**	**17’ 8”**	**14’ 5”e**	**14’ 5”e**	**14’ 5”e**
24	**20’ 4”**	**20’ 4”**	**19’ 8”**	**14’ 5”e**	**14’ 5”e**	**14’ 5”e**	**11’ 9”e**	**11’ 9”e**	**11’ 9”e**

Codes & Standards

- Meets or tested to: ASTM C 645
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

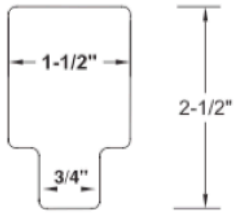
Contractor Steel Systems – Product Submittal Data

Product Name: 362S125-18

Properties:

A. Web (in): 3 5/8” Yield Strength Fy (KSI): 33
B. Flange (in): 1 1/4’’ Design Thickness: 0.0188
C. Lip (in): 1/4” Min. Thickness: 0.0179
Mils: 30 Gauge: 25
Finish: G40

Punch-Out Dimensions

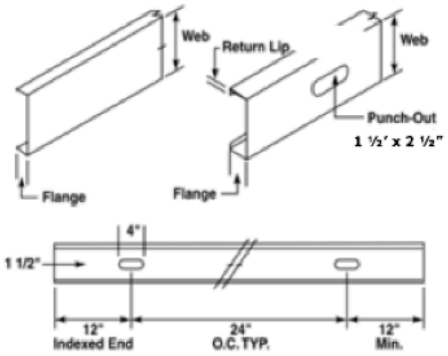


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.400
Cross Sectional Area: **A** (in^2)	0.118
Moment of Inertia: **Ix** (in^4)	0.234
Radius of Gyration: **Rx** (in)	1.409
Gross Moment of Inertia: **Iy** (in^4)	0.021
Gross Radius of Gyration: **Ry** (in)	0.421

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	0.221
Section Modulus: **Sx** (in^3)	0.075

Moments:

Allowable Bending Moment: **Ma** (in-k)	1.48

Limiting Heights – Composite (ft-in)

	5 psf			10 psf			15 psf		
Spacing (in)	**L/120**	**L/240**	**L360**	**L/120**	**L240**	**L/360**	**L/120**	**L/240**	**L/360**
12	**14’ 00”**	**14’ 0”**	**14’ 0”**	**9’ 11”e**	**9’ 11”e**	**9’ 11”e**	**8’ 1”e**	**8’ 1”e**	**8’ 1” e**
16	**12’ 2”**	**12’ 2”**	**12’ 2”**	**8’ 7”e**	**8’ 7”e**	**12’ 1”**	**7’ 0”e**	**7’0”e**	**7’ 0” e**
24	**9’ 11”e**	**9’ 11”e**	**9’ 11”e**	**7’ 0”e**	**7’ 0”e**	**10’ 2”**	**5’ 9”e**	**5’ 9”e**	**5’ 9” e**

Codes & Standards

- Meets or tested to: ASTM C 645
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

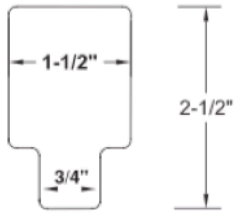
Product Name: 600S125-18

Properties:

A. Web (in): 6”
B. Flange (in): 1 1/4’’
C. Lip (in): 1/4”
Mils: 18
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0188
Min. Thickness: 0.0179
Gauge: 25

Punch-Out Dimensions

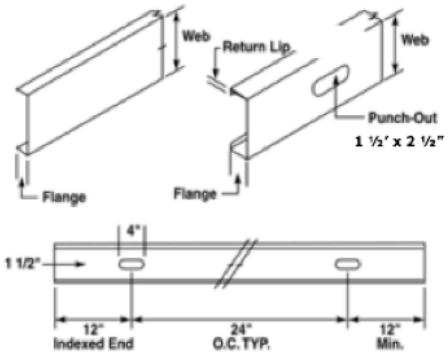


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.550
Cross Sectional Area: **A** (in^2)	0.162
Moment of Inertia: **Ix** (in^4)	0.778
Radius of Gyration: **Rx** (in)	2.189
Gross Moment of Inertia: **Iy** (in^4)	0.024
Gross Radius of Gyration: **Ry** (in)	0.382

Framing Components



Codes & Standards

- Meets or tested to: ASTM C 645
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

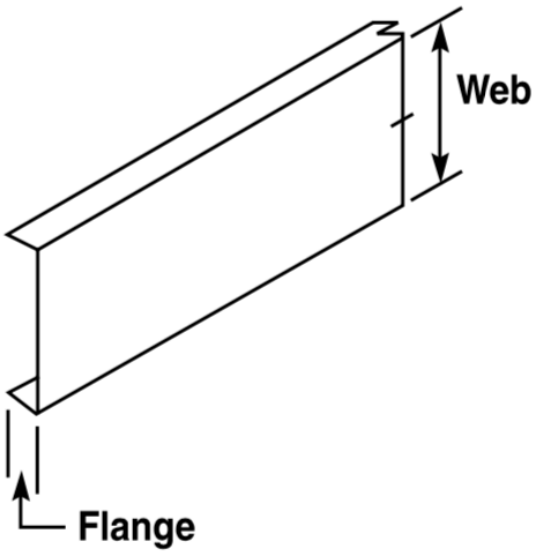
Contractor Steel Systems – Product Submittal Data

Product Name: 362T125-30

Properties:

A. Web (in): 3 5/8”	Yield Strength Fy (KSI): 33
B. Flange (in): 1 1/4’’	Design Thickness: 0.0312
Mils: 30	Min. Thickness: 0.0296
Finish: G40	Gauge: 20

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.650
Cross Sectional Area: **A** (in^2)	0.191
Moment of Inertia: **Ix** (in^4)	0.395
Section Modulus about the X-axis: **Sx** (in^3)	0.210
Radius of Gyration: **Rx** (in)	1.438
Gross Moment of Inertia: **Iy** (in^4)	0.027
Gross Radius of Gyration: **Ry** (in)	0.378

Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	0.339
Section Modulus: **Sx** (in^3)	0.152
Allowable Moment: **Ma** (in-k)	3.010

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.659
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.062
Torsional Warping Constant: **Cw** (in^6)	0.068
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	1.626
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	.8357

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

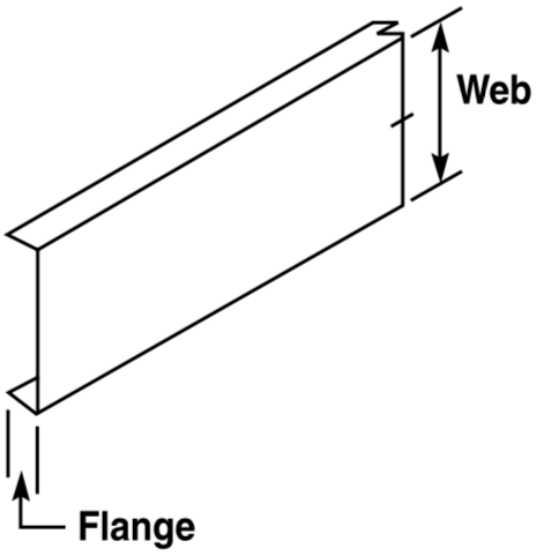
Product Name: 600T125-30

Properties:

A. Web (in): 6”
B. Flange (in): 1 1/4’’
Mils: 30
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0312
Min. Thickness: 0.0296
Gauge: 20

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.900
Cross Sectional Area: **A** (in^2)	0.265
Moment of Inertia: **Ix** (in^4)	1.288
Section Modulus about the X-axis: **Sx** (in^3)	0.419
Radius of Gyration: **Rx** (in)	2.204
Gross Moment of Inertia: **Iy** (in^4)	0.031
Gross Radius of Gyration: **Ry** (in)	0.340

Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	1.095
Section Modulus: **Sx** (in^3)	0.249
Allowable Moment: **Ma** (in-k)	4.920

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.518
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.086
Torsional Warping Constant: **Cw** (in^6)	0.215
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.289
Torsional Flexural Constant: $\beta=1-(xo/Ro)^2$	.9490

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

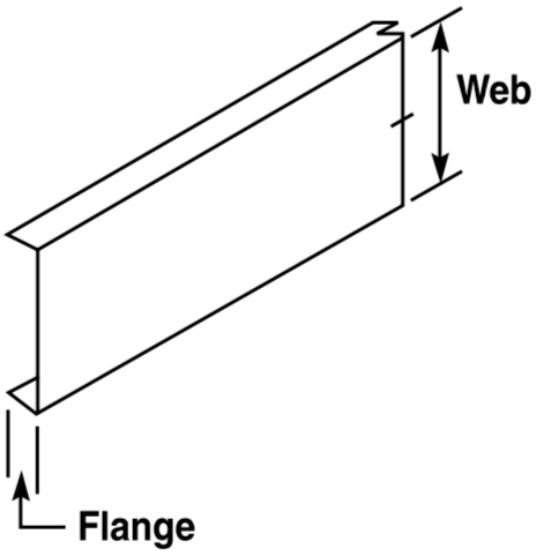
Product Name: 362T200-30

Properties:

A. Web (in): 3 5/8”
B. Flange (in): 2”
Mils: 30
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0312
Min. Thickness: 0.0296
Gauge: 20

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.810
Cross Sectional Area: **A** (in^2)	0.238
Moment of Inertia: **Ix** (in^4)	0.562
Radius of Gyration: **Rx** (in)	1.537
Gross Moment of Inertia: **Iy** (in^4)	0.099
Gross Radius of Gyration: **Ry** (in)	0.645

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.285
St. Venant Torsional Constant: **$Jx10^3$** (in^4)	0.077
Torsional Warping Constant: **Cw** (in^6)	0.245
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.105
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	0.627

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

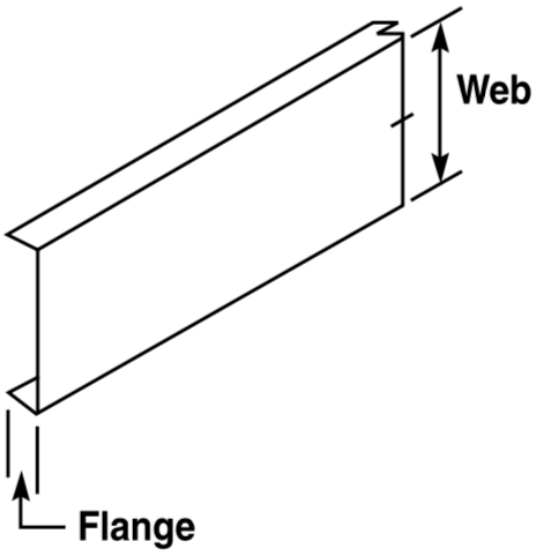
Product Name: 600T200-30

Properties:

A. Web (in): 6”
B. Flange (in): 2”
Mils: 30
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0312
Min. Thickness: 0.0296
Gauge: 20

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.061
Cross Sectional Area: **A** (in^2)	0.312
Moment of Inertia: **Ix** (in^4)	1.710
Radius of Gyration: **Rx** (in)	2.342
Gross Moment of Inertia: **Iy** (in^4)	0.114
Gross Radius of Gyration: **Ry** (in)	0.605

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.051
St. Venant Torsional Constant: **$Jx10^3$** (in^4)	0.101
Torsional Warping Constant: **Cw** (in^6)	0.754
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.637
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	0.841

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

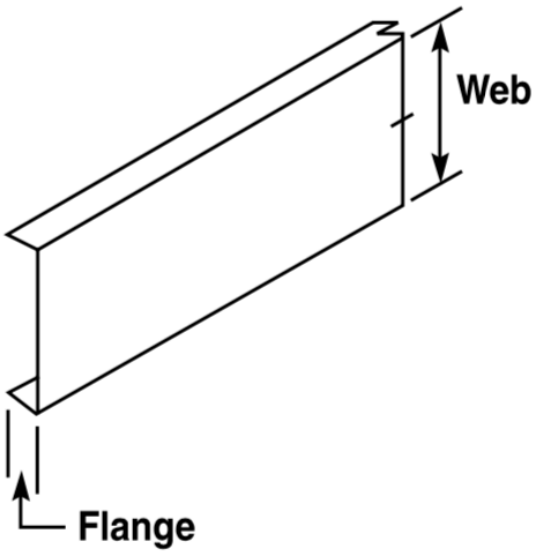
Product Name: 362T125-18

Properties:

A. Web (in): 3 5/8”
B. Flange (in): 1 1/4’’
Mils: 18
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0188
Min. Thickness: 0.0179
Gauge: 25

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.390
Cross Sectional Area: **A** (in^2)	0.115
Moment of Inertia: **Ix** (in^4)	0.237
Section Modulus about the X-axis: **Sx** (in^3)	0.126
Radius of Gyration: **Rx** (in)	1.435
Gross Moment of Inertia: **Iy** (in^4)	0.017
Gross Radius of Gyration: **Ry** (in)	0.380

Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	0.189
Section Modulus: **Sx** (in^3)	0.065
Allowable Moment: **Ma** (in-k)	1.29

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.665
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.014
Torsional Warping Constant: **Cw** (in^6)	0.042
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	1.627
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	.8329

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

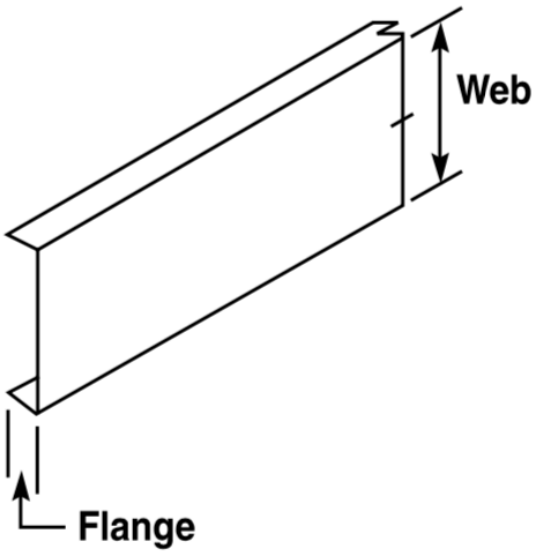
Contractor Steel Systems – Product Submittal Data

Product Name: 600T125-18

Properties:

A. Web (in): 6”	Yield Strength Fy (KSI): 33
B. Flange (in): 1 1/4’’	Design Thickness: 0.0188
Mils: 18	Min. Thickness: 0.0179
Finish: G40	Gauge: 25

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.540
Cross Sectional Area: **A** (in^2)	0.160
Moment of Inertia: **Ix** (in^4)	0.773
Section Modulus about the X-axis: **Sx** (in^3)	0.253
Radius of Gyration: **Rx** (in)	2.201
Gross Moment of Inertia: **Iy** (in^4)	0.019
Gross Radius of Gyration: **Ry** (in)	0.342

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.522
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.019
Torsional Warping Constant: **Cw** (in^6)	0.131
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.288
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	.9479

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

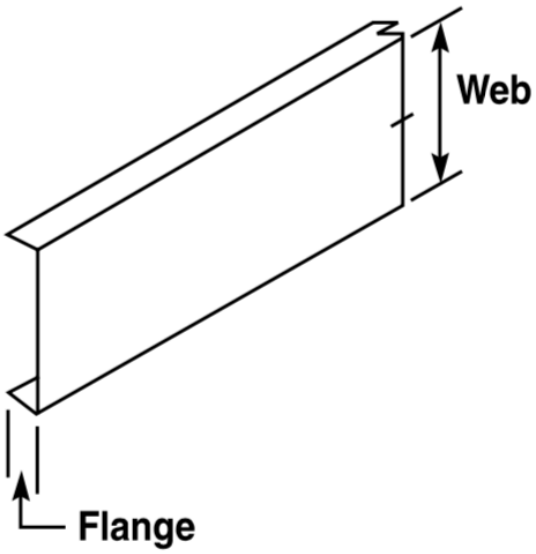
Product Name: 362T200-18

Properties:

A. Web (in): 3 5/8”
B. Flange (in): 2”
Mils: 18
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0188
Min. Thickness: 0.0179
Gauge: 25

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.490
Cross Sectional Area: **A** (in^2)	0.143
Moment of Inertia: **Ix** (in^4)	0.337
Radius of Gyration: **Rx** (in)	1.533
Gross Moment of Inertia: **Iy** (in^4)	0.060
Gross Radius of Gyration: **Ry** (in)	0.647

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.291
St. Venant Torsional Constant: **$Jx10^3$** (in^4)	0.017
Torsional Warping Constant: **Cw** (in^6)	0.148
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.106
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	.624

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

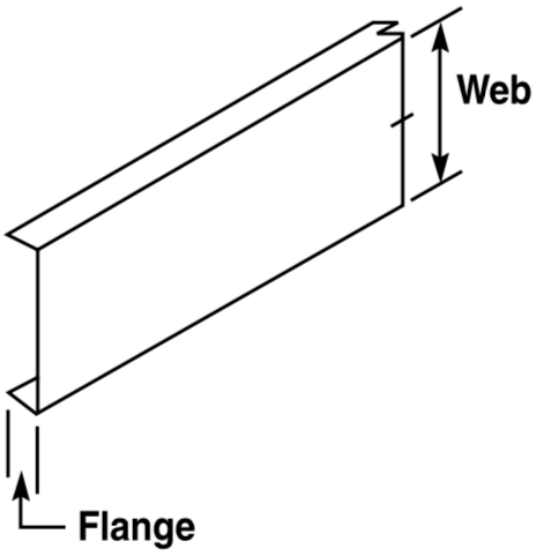
Product Name: 600T200 - 18

Properties:

A. Web (in): 6”
B. Flange (in): 2’’
Mils: 18
Finish: G40

Yield Strength Fy (KSI): 33
Design Thickness: 0.0188
Min. Thickness: 0.0179
Gauge: 25

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.640
Cross Sectional Area: **A** (in^2)	0.188
Moment of Inertia: **Ix** (in^4)	1.041
Radius of Gyration: **Rx** (in)	2.353
Gross Moment of Inertia: **Iy** (in^4)	0.069
Gross Radius of Gyration: **Ry** (in)	0.607

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.065
St. Venant Torsional Constant: **$Jx10^3$** (in^4)	0.022
Torsional Warping Constant: **Cw** (in^6)	0.464
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.653
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	0.839

Codes & Standards

- Meets or tested to: ASTM C 654
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

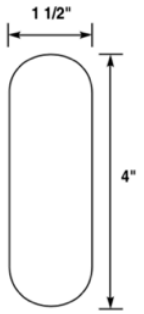
Product Name: 600S162-54

Properties:

A. Web (in): 6”
B. Flange (in): 1 5/8’’
C. Lip (in): 1/4”
Mils: 54
Finish: G60

Yield Strength Fy (KSI): 50
Design Thickness: 0.0566
Min. Thickness: 0.0538
Gauge: 16

Punch-Out Dimensions



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.890
Cross Sectional Area: **A** (in^2)	0.556
Moment of Inertia: **Ix** (in^4)	2.860
Radius of Gyration: **Rx** (in)	2.267
Gross Moment of Inertia: **Iy** (in^4)	0.180
Gross Radius of Gyration: **Ry** (in)	0.570

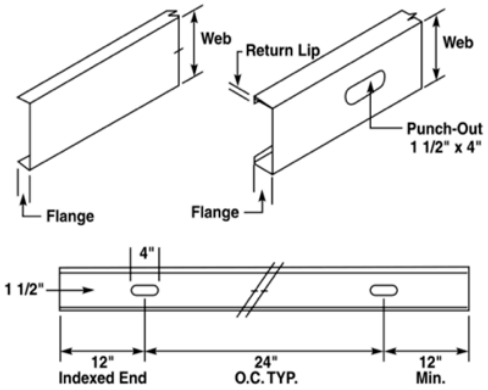
Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	2.860
Section Modulus: **Sx** (in^3)	0.916

Moments:

Allowable Bending Moment: **Ma** (in-k)	30.33

Framing Components



Limiting Heights – Composite (ft-in)

	5 psf			10 psf			15 psf		
Spacing (in)	**L/120**	**L/240**	**L360**	**L/120**	**L240**	**L/360**	**L/120**	**L/240**	**L/360**
12	**47’ 6”**	**37’ 8”**	**32’ 11”**	**37’ 8”**	**29’ 11”**	**26’ 2”**	**32’ 11”**	**26’ 2”**	**22’ 10”**
16	**43’ 2”**	**34’ 3”**	**29’ 11”**	**34’ 3”**	**27’ 2”**	**23’ 9”**	**29’ 11”**	**23’ 9”**	**20’ 9”**
24	**37’ 8”**	**29’ 11”**	**26’ 2”**	**29’ 11”**	**23’ 9”**	**20’ 9”**	**26’ 0”**	**23’ 9”**	**18’ 1”**

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

Contractor Steel Systems – Product Submittal Data

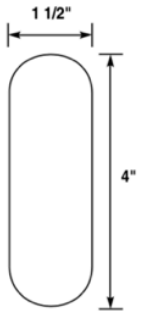
Product Name: 600S162-43

Properties:

A. Web (in): 6”
B. Flange (in): 1 5/8’’
C. Lip (in): 1/4”
Mils: 43
Finish: G60

Yield Strength Fy (KSI): 33
Design Thickness: 0.0451
Min. Thickness: 0.0428
Gauge: 18

Punch-Out Dimensions

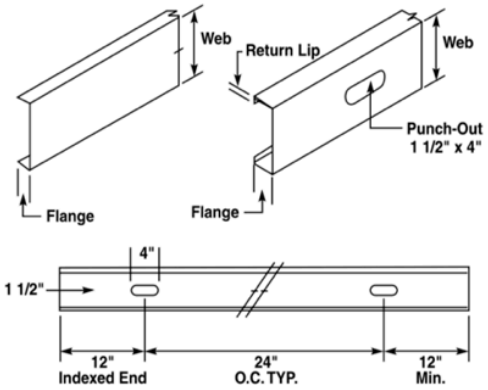


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.52
Cross Sectional Area: **A** (in^2)	.447
Moment of Inertia: **Ix** (in^4)	2.316
Radius of Gyration: **Rx** (in)	2.276
Gross Moment of Inertia: **Iy** (in^4)	0.148
Gross Radius of Gyration: **Ry** (in)	0.576

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	2.316
Section Modulus: **Sx** (in^3)	0.767

Moments:

Allowable Bending Moment: **Ma** (in-k)	16.68

Limiting Heights – Composite (ft-in)

	5 psf			10 psf			15 psf		
Spacing (in)	**L/120**	**L/240**	**L360**	**L/120**	**L240**	**L/360**	**L/120**	**L/240**	**L/360**
12	**44’ 3”**	**35’ 2”**	**30’ 8”**	**33’ 4”**	**27’ 11”**	**24’ 4”**	**27’ 3”**	**24’ 4”**	**21’ 3”**
16	**40’ 3”**	**31’ 11”**	**27’ 11”**	**28’ 11”**	**25’ 4”**	**22’ 2”**	**23’ 7”**	**22’ 2”**	**19’ 4”**
24	**33’ 4”**	**27’ 11”**	**24’ 4”**	**23’ 7”**	**22’ 2”**	**19’ 4”**	**19’ 3” e**	**19’ 3” e**	**16’ 11”**

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

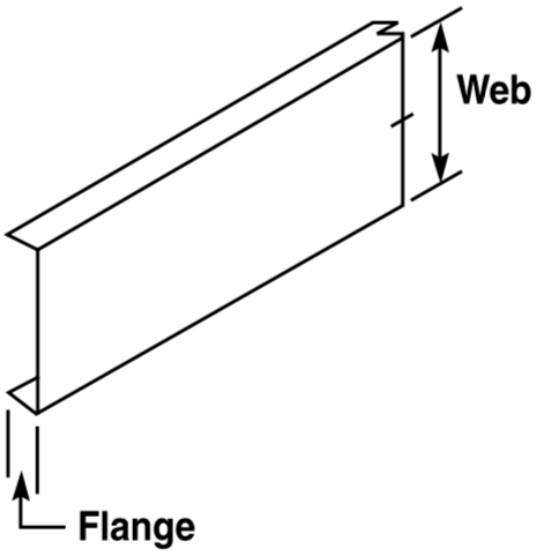
Contractor Steel Systems – Product Submittal Data

Product Name: 600T125-54

Properties:

A. Web (in): 6”	Yield Strength Fy (KSI): 50
B. Flange (in): 1 1/4’’	Design Thickness: 0.0566
Mils: 54	Min. Thickness: 0.0538
Finish: G60	Gauge: 16

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.630
Cross Sectional Area: **A** (in^2)	0.480
Moment of Inertia: **Ix** (in^4)	2.344
Section Modulus about the X-axis: **Sx** (in^3)	0.756
Radius of Gyration: **Rx** (in)	2.209
Gross Moment of Inertia: **Iy** (in^4)	0.054
Gross Radius of Gyration: **Ry** (in)	0.335

Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	2.241
Section Modulus: **Sx** (in^3)	0.592
Allowable Moment: **Ma** (in-k)	17.730

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.508
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.513
Torsional Warping Constant: **Cw** (in^6)	0.384
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.291
Torsional Flexural Constant: $\beta=1-(xo/Ro)^2$	0.951

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

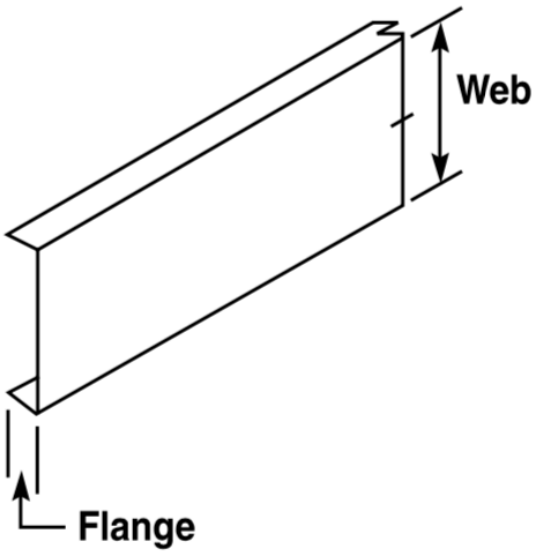
Contractor Steel Systems – Product Submittal Data

Product Name: 600T200-54

Properties:

A. Web (in): 6”	Yield Strength Fy (KSI): 50
B. Flange (in): 2”	Design Thickness: 0.0566
Mils: 54	Min. Thickness: 0.0538
Finish: G60	Gauge: 20

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.920
Cross Sectional Area: **A** (in^2)	0.565
Moment of Inertia: **Ix** (in^4)	3.145
Radius of Gyration: **Rx** (in)	2.359
Gross Moment of Inertia: **Iy** (in^4)	0.203
Gross Radius of Gyration: **Ry** (in)	0.600

Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	2.641
Section Modulus: **Sx** (in^3)	0.717
Allowable Moment: **Ma** (in-k)	21.48

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.038
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.604
Torsional Warping Constant: **Cw** (in^6)	1.381
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.646
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	0.846

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

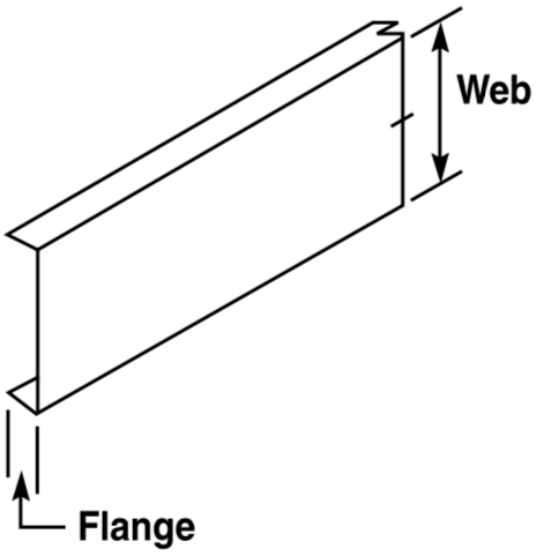
Contractor Steel Systems – Product Submittal Data

Product Name: 600T125-43

Properties:

A. Web (in): 6”	Yield Strength Fy (KSI): 33
B. Flange (in): 1 1/4’’	Design Thickness: 0.0451
Mils: 43	Min. Thickness: 0.0428
Finish: G60	Gauge: 18

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.380
Cross Sectional Area: **A** (in^2)	0.405
Moment of Inertia: **Ix** (in^4)	2.072
Section Modulus about the X-axis: **Sx** (in^3)	0.673
Radius of Gyration: **Rx** (in)	2.261
Gross Moment of Inertia: **Iy** (in^4)	0.073
Gross Radius of Gyration: **Ry** (in)	0.424

Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	1.890
Section Modulus: **Sx** (in^3)	0.474
Allowable Moment: **Ma** (in-k)	9.360

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.680
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.2750
Torsional Warping Constant: **Cw** (in^6)	0.504
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.398
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	0.9196

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information

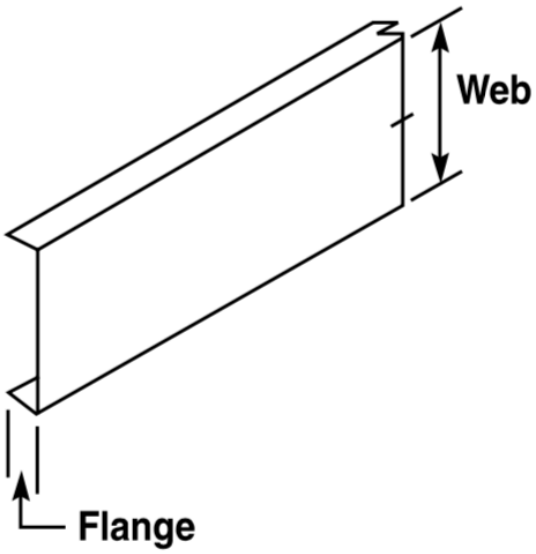
Contractor Steel Systems – Product Submittal Data

Product Name: 600T200-43

Properties:

A. Web (in): 6”	Yield Strength Fy (KSI): 33
B. Flange (in): 2”	Design Thickness: 0.0451
Mils: 43	Min. Thickness: 0.0428
Finish: G60	Gauge: 18

Metal Track



Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	1.530
Cross Sectional Area: **A** (in^2)	0.451
Moment of Inertia: **Ix** (in^4)	2.494
Radius of Gyration: **Rx** (in)	2.353
Gross Moment of Inertia: **Iy** (in^4)	0.163
Gross Radius of Gyration: **Ry** (in)	0.602

Effective Section Properties:

Moment of Inertia-Deflection: **Ix** (in^4)	2.076
Section Modulus: **Sx** (in^3)	0.565
Allowable Moment: **Ma** (in-k)	11.16

Torsional Properties:

Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.044
St. Venant Torsional Constant: **Jx10^3** (in^4)	0.305
Torsional Warping Constant: **Cw** (in^6)	1.098
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.643
Torsional Flexural Constant: **$\beta=1-(xo/Ro)^2$**	0.844

Codes & Standards

- Meets or tested to: ASTM C 955
- Galvanized steel sheet meets ASTM A 1003 & A653

Green Info

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information