



Sales@contractorsteelsystems.com

Product Submittal Data

Job Information

Company Name: Integrity Construction LLC

Phone Number: (308) 440-4024

Email: intluc@aol.com

Fax Number: (888) 780-3930

GC: BD Construction

Phone Number: (308) 234-1836

Contractor: Integrity Construction

Phone Number: (308) 440-4024

Architect: Professional Associates Ltd.

Phone Number: (402) 758-0200

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: RC-1 25GA– Resilient Channel

Properties:

Web (in): 2"

Design Thickness: 0.0188

Min. Thickness: 0.179

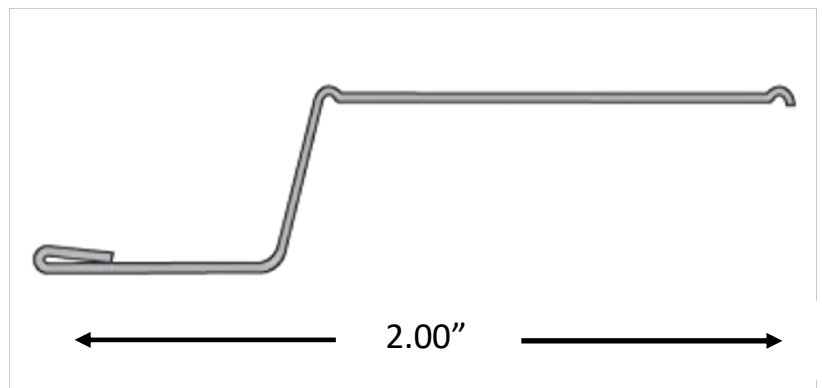
Mils: 18

Gauge: 25

Finish: G40

Yield Strength F_y (KSI): 33

RC-1 Resilient Channel



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

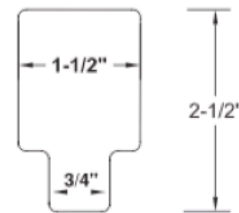
Contractor Steel Systems – Product Submittal Data

Product Name: 162S125-30

Properties:

A. Web (in): 1 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

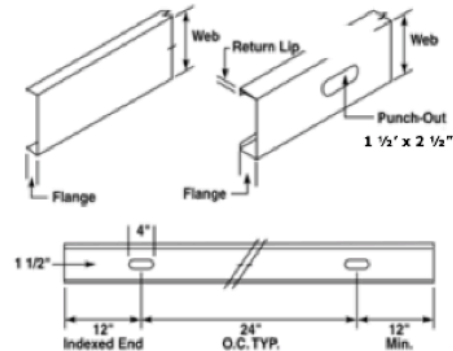


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft) 0.450
 Cross Sectional Area: **A** (in²) 0.131
 Moment of Inertia: **I_x** (in⁴) 0.061
 Radius of Gyration: **R_x** (in) 0.681
 Gross Moment of Inertia: **I_y** (in⁴) 0.026
 Gross Radius of Gyration: **R_y** (in) 0.441

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **I_x** (in⁴) 0.060
 Section Modulus: **S_x** (in³) 0.060

Moments:

Allowable Bending Moment: **Ma** (in-k) 1.19

Limiting Heights – Composite (ft-in)

Spacing (in)	5 psf			10 psf			15 psf		
	L/120	L/240	L360	L/120	L240	L/360	L/120	L/240	L/360
12	12' 7"	10' 5"	9' 1"	8' 11"	8' 3"	7' 3"	7' 3"	7' 3"	6' 4"
16	10' 11"	9' 5"	8' 3"	7' 9"	7' 6"	6' 4"	6' 4"	6' 4"	5' 9"
24	8' 11"	8' 3"	7' 3"	6' 4"	6' 4"	5' 2"	5' 2"	5' 2"	5' 0"

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

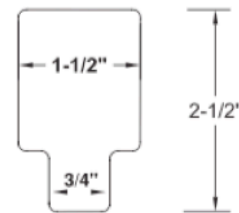
Contractor Steel Systems – Product Submittal Data

Product Name: 250S125-30

Properties:

A. Web (in): 2 1/2" 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: 20 Gauge: 20
 Finish: G40

Punch-Out Dimensions

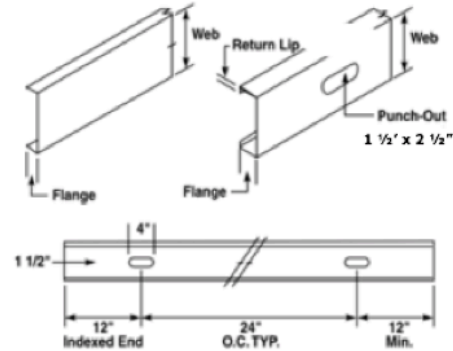


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft) 0.540
 Cross Sectional Area: **A** (in²) 0.159
 Moment of Inertia: **I_x** (in⁴) 0.161
 Radius of Gyration: **R_x** (in) 1.008
 Gross Moment of Inertia: **I_y** (in⁴) 0.030
 Gross Radius of Gyration: **R_y** (in) 0.433

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **I_x** (in⁴) 0.159
 Section Modulus: **S_x** (in³) 0.110

Moments:

Allowable Bending Moment: **Ma** (in-k) 2.170

Limiting Heights – Composite (ft-in)

Spacing (in)	5 psf			10 psf			15 psf		
	L/120	L/240	L360	L/120	L240	L/360	L/120	L/240	L/360
12	17' 0"	14' 5"	12' 7"	12' 0"	11' 5"	10' 0"	9' 10"	9' 10"	8' 9"
16	14' 9"	13' 1"	11' 5"	10' 5"	10' 4"	9' 1"	8' 6"	8' 6"	7' 11"
24	12' 0"	11' 5"	10' 0"	8' 6"	8' 6"	7' 11"	6' 11"	6' 11"	6' 11"

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

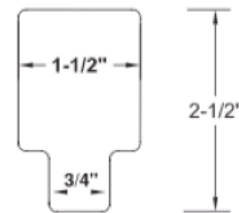
Contractor Steel Systems – Product Submittal Data

Product Name: 362S125-30

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

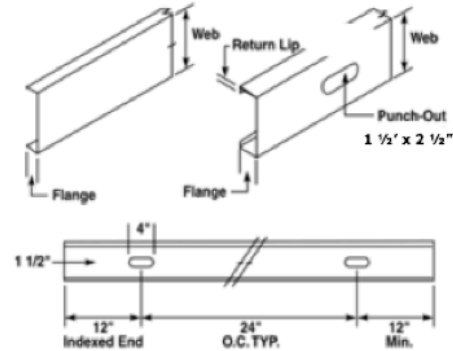


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft) 0.910
 Cross Sectional Area: **A** (in²) .268
 Moment of Inertia: **I_x** (in⁴) 1.275
 Radius of Gyration: **R_x** (in) 2.181
 Gross Moment of Inertia: **I_y** (in⁴) 0.038
 Gross Radius of Gyration: **R_y** (in) 0.376

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **I_x** (in⁴) 1.218
 Section Modulus: **S_x** (in³) 0.315

Moments:

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

Limiting Heights – Composite (ft-in)

Spacing (in)	5 psf			10 psf			15 psf		
	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

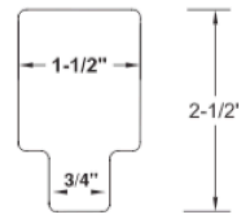
Contractor Steel Systems – Product Submittal Data

Product Name: 600S125-30

Properties:

A. Web (in): 6" Yield Strength F_y (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

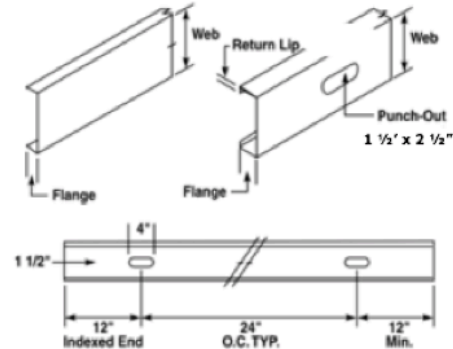


Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft) 0.910
 Cross Sectional Area: **A** (in²) .2680
 Moment of Inertia: **I_x** (in⁴) 1.275
 Radius of Gyration: **R_x** (in) 2.181
 Gross Moment of Inertia: **I_y** (in⁴) 0.038
 Gross Radius of Gyration: **R_y** (in) 0.376

Framing Components



Effective Section Properties:

Moment of Inertia-Deflection: **I_x** (in⁴) 1.218
 Section Modulus: **S_x** (in³) 0.315

Moments:

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

Limiting Heights – Composite (ft-in)

Spacing (in)	5 psf			10 psf			15 psf		
	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: 162T125-30

Properties:

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

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.440
Cross Sectional Area: A (in ²)	0.129
Moment of Inertia: I_x (in ⁴)	0.070
Section Modulus about the X-axis: S_x (in ³)	0.079
Radius of Gyration: R_x (in)	0.735
Gross Moment of Inertia: I_y (in ⁴)	0.022
Gross Radius of Gyration: R_y (in)	0.409

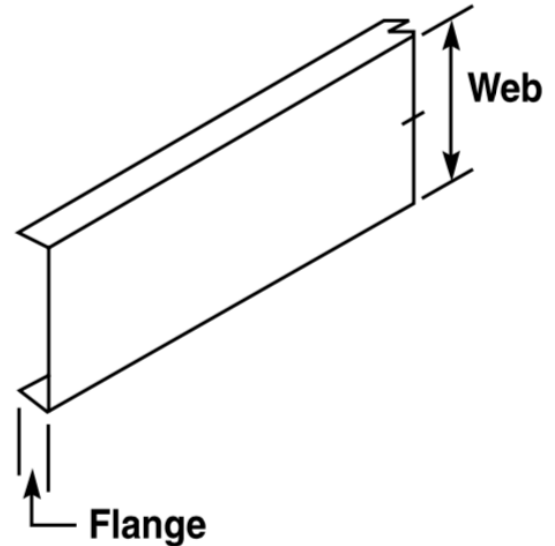
Effective Section Properties:

Moment of Inertia-Deflection: I_x (in ⁴)	0.057
Section Modulus: S_x (in ³)	0.050
Allowable Moment: M_a (in-k)	1.00

Torsional Properties:

Shear Center to Centroid on Principal X-axis: X_o (in)	-0.870
St. Venant Torsional Constant: Jx10³ (in ⁴)	0.042
Torsional Warping Constant: C_w (in ⁶)	0.012
Radius of Gyration on the Centroid Principal axis: R_o (in)	1.210
Torsional Flexural Constant: β=1-(x_o/R_o)²	.4830

Metal Track



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: 250T125-30

Properties:

A. Web (in): 2 1/2"	Yield Strength Fy (KSI): 33
B. Flange (in): 1 1/4"	Design Thickness: 0.0312
Mils: 20	Min. Thickness: 0.0296
Finish: G40	Gauge: 20

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.530
Cross Sectional Area: A (in ²)	0.156
Moment of Inertia: I_x (in ⁴)	0.173
Section Modulus about the X-axis: S_x (in ³)	0.131
Radius of Gyration: R_x (in)	1.053
Gross Moment of Inertia: I_y (in ⁴)	0.025
Gross Radius of Gyration: R_y (in)	0.397

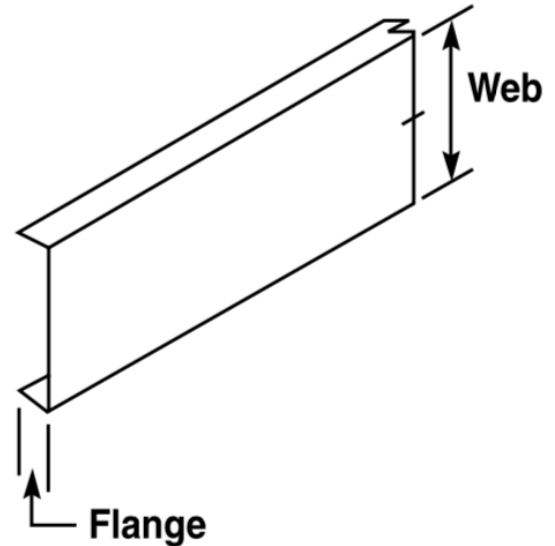
Effective Section Properties:

Moment of Inertia-Deflection: I_x (in ⁴)	0.145
Section Modulus: S_x (in ³)	0.090
Allowable Moment: M_a (in-k)	1.770

Torsional Properties:

Shear Center to Centroid on Principal X-axis: X_o (in)	-0.762
St. Venant Torsional Constant: Jx10³ (in ⁴)	0.051
Torsional Warping Constant: C_w (in ⁶)	0.030
Radius of Gyration on the Centroid Principal axis: R_o (in)	1.359
Torsional Flexural Constant: β=1-(x_o/R_o)²	.6856

Metal Track



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: 362T125-30

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

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.650
Cross Sectional Area: A (in ²)	0.191
Moment of Inertia: I_x (in ⁴)	0.395
Section Modulus about the X-axis: S_x (in ³)	0.210
Radius of Gyration: R_x (in)	1.438
Gross Moment of Inertia: I_y (in ⁴)	0.027
Gross Radius of Gyration: R_y (in)	0.378

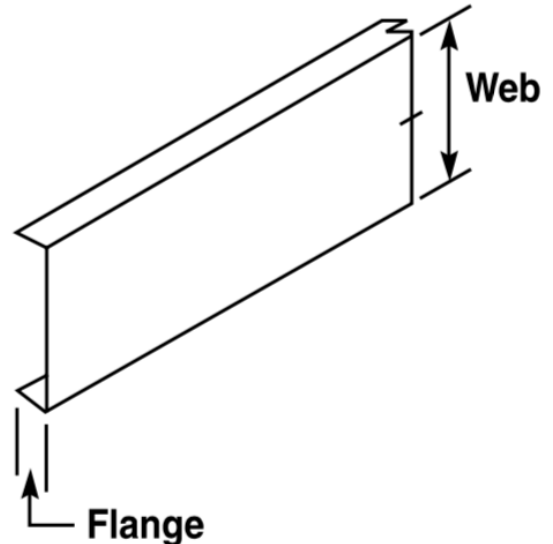
Effective Section Properties:

Moment of Inertia-Deflection: I_x (in ⁴)	0.339
Section Modulus: S_x (in ³)	0.152
Allowable Moment: M_a (in-k)	3.010

Torsional Properties:

Shear Center to Centroid on Principal X-axis: X_o (in)	-0.659
St. Venant Torsional Constant: Jx10³ (in ⁴)	0.062
Torsional Warping Constant: C_w (in ⁶)	0.068
Radius of Gyration on the Centroid Principal axis: R_o (in)	1.626
Torsional Flexural Constant: β=1-(x_o/R_o)²	.8357

Metal Track



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"	Yield Strength F_y (KSI): 33
B. Flange (in): 1 1/4"	Design Thickness: 0.0312
Mils: 30	Min. Thickness: 0.0296
Finish: G40	Gauge: 20

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft)	0.900
Cross Sectional Area: A (in ²)	0.265
Moment of Inertia: I_x (in ⁴)	1.288
Section Modulus about the X-axis: S_x (in ³)	0.419
Radius of Gyration: R_x (in)	2.204
Gross Moment of Inertia: I_y (in ⁴)	0.031
Gross Radius of Gyration: R_y (in)	0.340

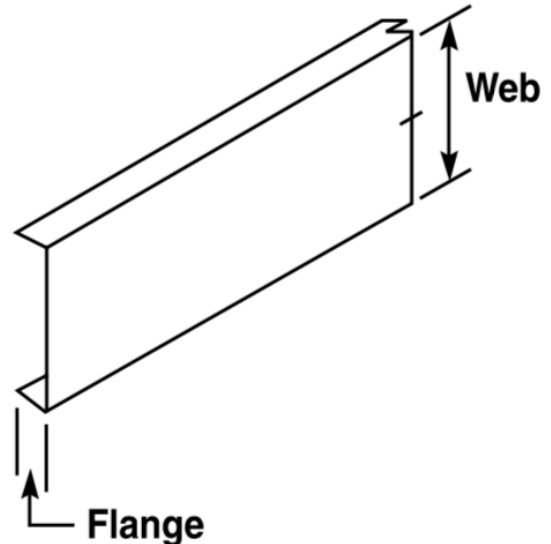
Effective Section Properties:

Moment of Inertia-Deflection: I_x (in ⁴)	1.095
Section Modulus: S_x (in ³)	0.249
Allowable Moment: M_a (in-k)	4.920

Torsional Properties:

Shear Center to Centroid on Principal X-axis: X_o (in)	-0.518
St. Venant Torsional Constant: Jx10³ (in ⁴)	0.086
Torsional Warping Constant: C_w (in ⁶)	0.215
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.289
Torsional Flexural Constant: $\beta=1-(x_o/R_o)^2$.9490

Metal Track



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: 600S162-43

Properties:

A. Web (in): 6" Yield Strength F_y (KSI): 33
 B. Flange (in): 1 5/8" Design Thickness: 0.0451
 C. Lip (in): 1/4" Min. Thickness: 0.0428
 Mils: 43 Gauge: 18
 Finish: G60

Section Properties:

Gross Section Properties:

Weight of Member: (lb/ft) 1.52
 Cross Sectional Area: A (in²) .447
 Moment of Inertia: I_x (in⁴) 2.316
 Radius of Gyration: R_x (in) 2.276
 Gross Moment of Inertia: I_y (in⁴) 0.148
 Gross Radius of Gyration: R_y (in) 0.576

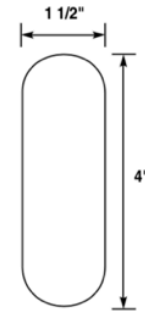
Effective Section Properties:

Moment of Inertia-Deflection: I_x (in⁴) 2.316
 Section Modulus: S_x (in³) 0.767

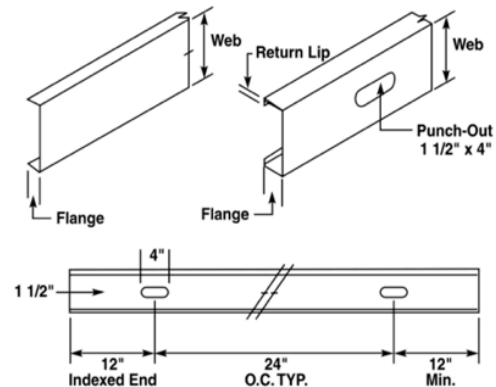
Moments:

Allowable Bending Moment: M_a (in-k) 16.68

Punch-Out Dimensions



Framing Components



Limiting Heights – Composite (ft-in)

Spacing (in)	5 psf			10 psf			15 psf		
	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