

Metal Wall & Roof Systems
North America

Morin Exposed Series Metal Wall System Corrugated Span Charts

Innovative Single Element
Building Envelope Solution

PLANET PASSIONATE

Morin
By Kingspan

Product Data

Morin Exposed Series Range

The Morin Exposed Series features seventeen unique profiles (produced in several facilities). For wall applications, all Exposed Series panels are reversible with many asymmetrical panels offering a completely different profile per side chosen.

Corrugated Profile Options (See other booklets for additional options)

- **Exposed C-29-E Profile A/Profile B**
- **Exposed C-29-W Profile A/Profile B**
- **Exposed C-29-S Profile A/Profile B**
- **Exposed C-37-W Profile A/Profile B**
- **Exposed C-37-S Profile A/Profile B**
- **Exposed C-40-E Profile A/Profile B**
- **Exposed C-40-W Profile A/Profile B**

Applications

Weather-resistant or rainscreen rear-ventillated applications. Installed in Vertical or Horizontal orientations.

Available Lengths

Standard Lengths (ft)	5′ – 30′ (1.52 – 9.14m)

Shorter and longer lengths available on request.

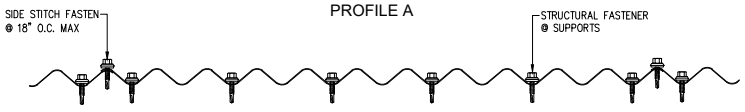
Standard Notes:

1. Numbers in the tables indicate clear span distance between the structural supports.
2. Section properties listed are for the solid base sheet.
3. Load and span values listed do not include consideration of fastener with washer/oversize washer, to be determined by qualified personnel.
4. Refer to the following page for fastening pattern across the panel (along the support) and side lap/side stitch fastening.
5. This table is intended as a guide to the allowable loads (ASD) and spans for the panel product, however, actual assembly conditions must be determined by a qualified individual.
6. Deflection limit is L/180 unless otherwise noted.
7. Galvalume material confirming to ASTM A792
8. Aluminum material confirming to 3003-H14; reach out to Morin technical for anodized (5005-H34) or any other Aluminum material
9. Please refer to Morin website for span charts pertaining to perforated panels.
10. For project specific calculations, please contact Morin Technical Services at 800-640-9501.

Corrugated Profiles
Fastening Patterns:

PROFILE A

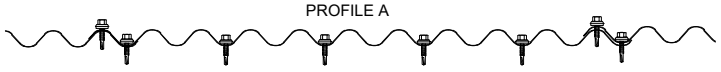
C-29-E FASTENING PATTERN
PROFILE A



C-29-W FASTENING PATTERN
PROFILE A



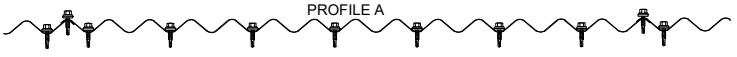
C-29-S FASTENING PATTERN
PROFILE A



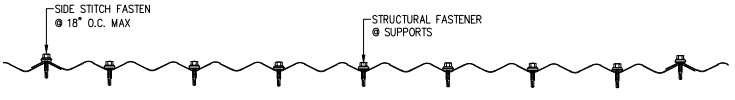
C-37-W FASTENING PATTERN
PROFILE A



C-37-S FASTENING PATTERN
PROFILE A



C-40-E FASTENING PATTERN
PROFILE A

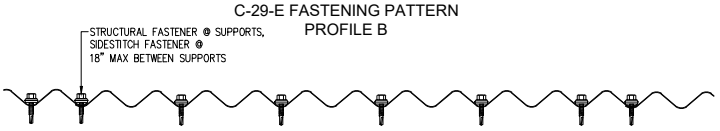


C-40-W FASTENING PATTERN
PROFILE A



PROFILE B

C-29-E FASTENING PATTERN
PROFILE B



C-29-W FASTENING PATTERN
PROFILE B



C-29-S FASTENING PATTERN
PROFILE B



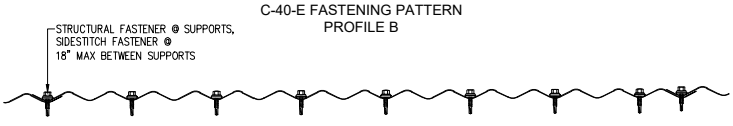
C-37-W FASTENING PATTERN
PROFILE B



C-37-S FASTENING PATTERN
PROFILE B



C-40-E FASTENING PATTERN
PROFILE B



C-40-W FASTENING PATTERN
PROFILE B



Load / Span Data

C-29-E/W/S Galvalume

24 ga — Ix: 0.034 in^4/ft, Sx: 0.075 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	7'-9"	7'-9"	8'-8"	55	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	3'-9"	5'-1"	4'-8"
25	Stress	6'-11"	6'-11"	7'-9"	60	Stress	4'-6"	4'-6"	5'-0"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	3'-8"	5'-0"	4'-7"
30	Stress	6'-4"	6'-4"	7'-1"	65	Stress	4'-4"	4'-4"	4'-10"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-7"	4'-10"	4'-5"
35	Stress	5'-10"	5'-10"	6'-7"	70	Stress	4'-2"	4'-2"	4'-8"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-6"	4'-9"	4'-4"
40	Stress	5'-6"	5'-6"	6'-1"	75	Stress	4'-0"	4'-0"	4'-6"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-5"	4'-7"	4'-3"
45	Stress	5'-2"	5'-2"	5'-9"	80	Stress	3'-10"	3'-10"	4'-4"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-4"	4'-6"	4'-2"
50	Stress	4'-11"	4'-11"	5'-6"	85	Stress	3'-9"	3'-9"	4'-2"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-3"	4'-5"	4'-1"

C-29-E/W/S Galvalume

22 ga — Ix: 0.043 in^4/ft, Sx: 0.093 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	8'-8"	8'-8"	9'-8"	55	Stress	5'-2"	5'-2"	5'-10"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-1"	5'-6"	5'-1"
25	Stress	7'-9"	7'-9"	8'-8"	60	Stress	4'-12"	4'-12"	5'-7"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-0"	5'-4"	4'-11"
30	Stress	7'-1"	7'-1"	7'-11"	65	Stress	4'-9"	4'-9"	5'-4"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-10"	5'-2"	4'-9"
35	Stress	6'-6"	6'-6"	7'-4"	70	Stress	4'-7"	4'-7"	5'-2"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-9"	5'-1"	4'-8"
40	Stress	6'-1"	6'-1"	6'-10"	75	Stress	4'-6"	4'-6"	5'-0"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-8"	5'-0"	4'-7"
45	Stress	5'-9"	5'-9"	6'-5"	80	Stress	4'-4"	4'-4"	4'-10"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-7"	4'-10"	4'-6"
50	Stress	5'-6"	5'-6"	6'-1"	85	Stress	4'-2"	4'-2"	4'-8"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-6"	4'-9"	4'-4"

See page 2 for standard notes

C-29-E/W/S Galvalume

20 ga — Ix: 0.059 in^4/ft, Sx: 0.103 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	9'-1"	9'-1"	10'-2"	55	Stress	5'-6"	5'-6"	6'-1"
	Deflection	6'-5"	8'-7"	7'-11"		Deflection	4'-7"	6'-2"	5'-8"
25	Stress	8'-1"	8'-1"	9'-1"	60	Stress	5'-3"	5'-3"	5'-10"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-5"	6'-0"	5'-6"
30	Stress	7'-5"	7'-5"	8'-3"	65	Stress	5'-0"	5'-0"	5'-7"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-4"	5'-10"	5'-4"
35	Stress	6'-10"	6'-10"	7'-8"	70	Stress	4'-10"	4'-10"	5'-5"
	Deflection	5'-3"	7'-2"	6'-7"		Deflection	4'-2"	5'-8"	5'-2"
40	Stress	6'-5"	6'-5"	7'-2"	75	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	4'-1"	5'-6"	5'-1"
45	Stress	6'-0"	6'-0"	6'-9"	80	Stress	4'-6"	4'-6"	5'-1"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	4'-0"	5'-5"	5'-0"
50	Stress	5'-9"	5'-9"	6'-5"	85	Stress	4'-5"	4'-5"	4'-11"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-11"	5'-4"	4'-11"

C-29-E/W/S Galvalume

18 ga — Ix: 0.058 in^4/ft, Sx: 0.149 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	10'-11"	10'-11"	12'-2"	55	Stress	6'-7"	6'-7"	7'-4"
	Deflection	6'-4"	8'-7"	7'-10"		Deflection	4'-6"	6'-1"	5'-7"
25	Stress	9'-9"	9'-9"	10'-11"	60	Stress	6'-4"	6'-4"	7'-0"
	Deflection	5'-11"	7'-11"	7'-4"		Deflection	4'-5"	5'-11"	5'-5"
30	Stress	8'-11"	8'-11"	9'-11"	65	Stress	6'-1"	6'-1"	6'-9"
	Deflection	5'-6"	7'-6"	6'-10"		Deflection	4'-3"	5'-9"	5'-4"
35	Stress	8'-3"	8'-3"	9'-3"	70	Stress	5'-10"	5'-10"	6'-6"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-2"	5'-8"	5'-2"
40	Stress	7'-8"	7'-8"	8'-7"	75	Stress	5'-8"	5'-8"	6'-4"
	Deflection	5'-0"	6'-10"	6'-3"		Deflection	4'-1"	5'-6"	5'-1"
45	Stress	7'-3"	7'-3"	8'-1"	80	Stress	5'-5"	5'-5"	6'-1"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	4'-0"	5'-5"	4'-11"
50	Stress	6'-11"	6'-11"	7'-8"	85	Stress	5'-3"	5'-3"	5'-11"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-11"	5'-3"	4'-10"

See page 2 for standard notes

Load / Span Data

C-29-E/W/S
Aluminum

0.032 in

Ix: 0.046 in^4/ft
Sx: 0.099 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	5'-9"	5'-9"	6'-5"	55	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	2'-11"	3'-11"	3'-7"
25	Stress	5'-2"	5'-2"	5'-9"	60	Stress	3'-4"	3'-4"	3'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-10"	3'-10"	3'-6"
30	Stress	4'-8"	4'-8"	5'-3"	65	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-9"	3'-9"	3'-5"
35	Stress	4'-4"	4'-4"	4'-10"	70	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-8"	3'-7"	3'-4"
40	Stress	4'-1"	4'-1"	4'-7"	75	Stress	3'-0"	3'-0"	3'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	3'-10"	3'-10"	4'-3"	80	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"
50	Stress	3'-8"	3'-8"	4'-1"	85	Stress	2'-10"	2'-10"	3'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-1"

C-29-E/W/S
Aluminum

0.040 in

Ix: 0.057 in^4/ft
Sx: 0.13 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	6'-7"	6'-7"	7'-4"	55	Stress	4'-0"	4'-0"	4'-5"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-2"	4'-3"	3'-11"
25	Stress	5'-11"	5'-11"	6'-7"	60	Stress	3'-10"	3'-10"	4'-3"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-0"	4'-1"	3'-9"
30	Stress	5'-4"	5'-4"	6'-0"	65	Stress	3'-8"	3'-8"	4'-1"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	4'-0"	3'-8"
35	Stress	5'-0"	5'-0"	5'-7"	70	Stress	3'-6"	3'-6"	3'-11"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-7"
40	Stress	4'-8"	4'-8"	5'-2"	75	Stress	3'-5"	3'-5"	3'-10"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-6"
45	Stress	4'-5"	4'-5"	4'-11"	80	Stress	3'-3"	3'-3"	3'-8"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-9"	3'-5"
50	Stress	4'-2"	4'-2"	4'-8"	85	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-8"	3'-4"

See page 2 for standard notes

C-29-E/W/S
Aluminum

0.050 in

Ix: 0.071 in^4/ft
Sx: 0.152 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	7'-1"	7'-1"	7'-11"	55	Stress	4'-4"	4'-4"	4'-10"
	Deflection	4'-9"	6'-5"	5'-10"		Deflection	3'-5"	4'-7"	4'-2"
25	Stress	6'-4"	6'-4"	7'-1"	60	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"
30	Stress	5'-10"	5'-10"	6'-6"	65	Stress	3'-11"	3'-11"	4'-5"
	Deflection	4'-2"	5'-7"	5'-1"		Deflection	3'-2"	4'-4"	4'-0"
35	Stress	5'-5"	5'-5"	6'-0"	70	Stress	3'-10"	3'-10"	4'-3"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	5'-0"	5'-0"	5'-8"	75	Stress	3'-8"	3'-8"	4'-1"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-1"	3'-9"
45	Stress	4'-9"	4'-9"	5'-4"	80	Stress	3'-7"	3'-7"	4'-0"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
50	Stress	4'-6"	4'-6"	5'-0"	85	Stress	3'-5"	3'-5"	3'-10"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"

See page 2 for standard notes

Load / Span Data

C-37-W Galvalume

24 ga Ix: 0.034 in^4/ft
Sx: 0.075 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	7'-9"	7'-9"	8'-8"	55	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	3'-9"	5'-1"	4'-8"
25	Stress	6'-11"	6'-11"	7'-9"	60	Stress	4'-6"	4'-6"	5'-0"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	3'-8"	4'-11"	4'-7"
30	Stress	6'-4"	6'-4"	7'-1"	65	Stress	4'-4"	4'-4"	4'-10"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-7"	4'-10"	4'-5"
35	Stress	5'-10"	5'-10"	6'-7"	70	Stress	4'-2"	4'-2"	4'-8"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-6"	4'-8"	4'-4"
40	Stress	5'-6"	5'-6"	6'-2"	75	Stress	4'-0"	4'-0"	4'-6"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-5"	4'-7"	4'-3"
45	Stress	5'-2"	5'-2"	5'-9"	80	Stress	3'-11"	3'-11"	4'-4"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-4"	4'-6"	4'-2"
50	Stress	4'-11"	4'-11"	5'-6"	85	Stress	3'-9"	3'-9"	4'-2"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-3"	4'-5"	4'-1"

C-37-W Galvalume

22 ga Ix: 0.044 in^4/ft
Sx: 0.101 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	9'-0"	9'-0"	10'-1"	55	Stress	5'-5"	5'-5"	6'-1"
	Deflection	5'-9"	7'-10"	7'-2"		Deflection	4'-2"	5'-7"	5'-1"
25	Stress	8'-1"	8'-1"	9'-0"	60	Stress	5'-2"	5'-2"	5'-10"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-0"	5'-5"	5'-0"
30	Stress	7'-4"	7'-4"	8'-3"	65	Stress	5'-0"	5'-0"	5'-7"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-11"	5'-3"	4'-10"
35	Stress	6'-10"	6'-10"	7'-7"	70	Stress	4'-10"	4'-10"	5'-5"
	Deflection	4'-10"	6'-6"	5'-11"		Deflection	3'-10"	5'-2"	4'-9"
40	Stress	6'-4"	6'-4"	7'-1"	75	Stress	4'-8"	4'-8"	5'-2"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-9"	5'-0"	4'-7"
45	Stress	6'-0"	6'-0"	6'-9"	80	Stress	4'-6"	4'-6"	5'-0"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-8"	4'-11"	4'-6"
50	Stress	5'-8"	5'-8"	6'-4"	85	Stress	4'-4"	4'-4"	4'-11"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-7"	4'-10"	4'-5"

See page 2 for standard notes

C-37-W Galvalume

20 ga

Ix: 0.051 in^4/ft
Sx: 0.112 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	9'-5"	9'-5"	10'-7"	55	Stress	5'-8"	5'-8"	6'-4"
	Deflection	6'-1"	8'-2"	7'-6"		Deflection	4'-4"	5'-10"	5'-4"
25	Stress	8'-5"	8'-5"	9'-5"	60	Stress	5'-5"	5'-5"	6'-1"
	Deflection	5'-7"	7'-7"	7'-0"		Deflection	4'-2"	5'-8"	5'-3"
30	Stress	7'-9"	7'-9"	8'-7"	65	Stress	5'-3"	5'-3"	5'-10"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-1"	5'-6"	5'-1"
35	Stress	7'-2"	7'-2"	8'-0"	70	Stress	5'-1"	5'-1"	5'-8"
	Deflection	5'-0"	6'-9"	6'-3"		Deflection	4'-0"	5'-5"	4'-11"
40	Stress	6'-8"	6'-8"	7'-6"	75	Stress	4'-11"	4'-11"	5'-5"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-11"	5'-3"	4'-10"
45	Stress	6'-4"	6'-4"	7'-0"	80	Stress	4'-9"	4'-9"	5'-3"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-10"	5'-2"	4'-9"
50	Stress	6'-0"	6'-0"	6'-8"	85	Stress	4'-7"	4'-7"	5'-1"
	Deflection	4'-6"	6'-0"	5'-6"		Deflection	3'-9"	5'-1"	4'-8"

C-37-W Galvalume

18 ga

Ix: 0.071 in^4/ft
Sx: 0.1622 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	11'-5"	11'-5"	12'-9"	55	Stress	6'-10"	6'-10"	7'-8"
	Deflection	6'-9"	9'-2"	8'-5"		Deflection	4'-10"	6'-6"	6'-0"
25	Stress	10'-2"	10'-2"	11'-5"	60	Stress	6'-7"	6'-7"	7'-4"
	Deflection	6'-3"	8'-6"	7'-10"		Deflection	4'-8"	6'-4"	5'-10"
30	Stress	9'-4"	9'-4"	10'-5"	65	Stress	6'-4"	6'-4"	7'-1"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-7"	6'-2"	5'-8"
35	Stress	8'-7"	8'-7"	9'-8"	70	Stress	6'-1"	6'-1"	6'-10"
	Deflection	5'-7"	7'-7"	7'-0"		Deflection	4'-6"	6'-0"	5'-6"
40	Stress	8'-1"	8'-1"	9'-0"	75	Stress	5'-11"	5'-11"	6'-7"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-4"	5'-11"	5'-5"
45	Stress	7'-7"	7'-7"	8'-6"	80	Stress	5'-8"	5'-8"	6'-4"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-3"	5'-9"	5'-3"
50	Stress	7'-2"	7'-2"	8'-1"	85	Stress	5'-6"	5'-6"	6'-2"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-2"	5'-8"	5'-2"

See page 2 for standard notes

Load / Span Data

C-37-W Aluminum

0.032 in

Ix: 0.045 in^4/ft
Sx: 0.099 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	5'-9"	5'-9"	6'-5"	55	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	2'-11"	3'-11"	3'-7"
25	Stress	5'-2"	5'-2"	5'-9"	60	Stress	3'-4"	3'-4"	3'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-10"	3'-10"	3'-6"
30	Stress	4'-8"	4'-8"	5'-3"	65	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-9"	3'-8"	3'-5"
35	Stress	4'-4"	4'-4"	4'-10"	70	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-8"	3'-7"	3'-4"
40	Stress	4'-1"	4'-1"	4'-7"	75	Stress	3'-0"	3'-0"	3'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	3'-10"	3'-10"	4'-3"	80	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"
50	Stress	3'-8"	3'-8"	4'-1"	85	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-1"

C-37-W Aluminum

0.040 in

Ix: 0.057 in^4/ft
Sx: 0.13 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	6'-7"	6'-7"	7'-4"	55	Stress	4'-0"	4'-0"	4'-5"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-2"	4'-3"	3'-11"
25	Stress	5'-11"	5'-11"	6'-7"	60	Stress	3'-10"	3'-10"	4'-3"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-0"	4'-1"	3'-9"
30	Stress	5'-4"	5'-4"	6'-0"	65	Stress	3'-8"	3'-8"	4'-1"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	4'-0"	3'-8"
35	Stress	5'-0"	5'-0"	5'-7"	70	Stress	3'-6"	3'-6"	3'-11"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-7"
40	Stress	4'-8"	4'-8"	5'-2"	75	Stress	3'-5"	3'-5"	3'-10"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-6"
45	Stress	4'-5"	4'-5"	4'-11"	80	Stress	3'-3"	3'-3"	3'-8"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-9"	3'-5"
50	Stress	4'-2"	4'-2"	4'-8"	85	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-8"	3'-4"

See page 2 for standard notes

C-37-W
Aluminum

0.050 in

Ix: 0.071 in^4/ft
Sx: 0.162 in^3/ft

Load psf			Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf			Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	7.36	7'-4"	7'-4"	8'-3"	55	Stress	4'-5"	4'-5"	4'-5"	5'-0"
	Deflection	4.72	4'-9"	6'-4"	5'-10"		Deflection	3'-4"	4'-7"	4'-2"	
25	Stress	6.58	6'-7"	6'-7"	7'-4"	60	Stress	4'-3"	4'-3"	4'-9"	
	Deflection	4.38	4'-5"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"	
30	Stress	6.01	6'-0"	6'-0"	6'-9"	65	Stress	4'-1"	4'-1"	4'-7"	
	Deflection	4.12	4'-1"	5'-7"	5'-1"		Deflection	3'-2"	4'-4"	3'-11"	
35	Stress	5.56	5'-7"	5'-7"	6'-3"	70	Stress	3'-11"	3'-11"	4'-5"	
	Deflection	3.92	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"	
40	Stress	5.20	5'-2"	5'-2"	5'-10"	75	Stress	3'-10"	3'-10"	4'-3"	
	Deflection	3.75	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"	
45	Stress	4.91	4'-11"	4'-11"	5'-6"	80	Stress	3'-8"	3'-8"	4'-1"	
	Deflection	3.60	3'-7"	4'-10"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"	
50	Stress	4.65	4'-8"	4'-8"	5'-2"	85	Stress	3'-7"	3'-7"	4'-0"	
	Deflection	3.48	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"	

See page 2 for standard notes

Load / Span Data

C-40-W Galvalume

24 ga Ix: 0.009 in^4/ft Sx: 0.035 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	5'-3"	5'-3"	5'-11"	55	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	4'-9"	4'-9"	5'-3"	60	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	4'-4"	4'-4"	4'-10"	65	Stress	2'-11"	2'-11"	3'-3"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	4'-0"	4'-0"	4'-6"	70	Stress	2'-10"	2'-10"	3'-2"
	Deflection	2'-9"	3'-9"	3'-6"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	3'-9"	3'-9"	4'-2"	75	Stress	2'-9"	2'-9"	3'-1"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	3'-6"	3'-6"	3'-11"	80	Stress	2'-8"	2'-8"	2'-11"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-8"
50	Stress	3'-4"	3'-4"	3'-9"	85	Stress	2'-7"	2'-7"	2'-10"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

C-40-W Galvalume

22 ga Ix: 0.011 in^4/ft Sx: 0.044 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	5'-11"	5'-11"	6'-7"	55	Stress	3'-7"	3'-7"	4'-0"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-3"
25	Stress	5'-3"	5'-3"	5'-11"	60	Stress	3'-5"	3'-5"	3'-10"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	4'-10"	4'-10"	5'-5"	65	Stress	3'-3"	3'-3"	3'-8"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	4'-6"	4'-6"	5'-0"	70	Stress	3'-2"	3'-2"	3'-6"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	4'-2"	4'-2"	4'-8"	75	Stress	3'-1"	3'-1"	3'-5"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	3'-11"	3'-11"	4'-5"	80	Stress	2'-11"	2'-11"	3'-4"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	3'-9"	3'-9"	4'-2"	85	Stress	2'-10"	2'-10"	3'-2"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 2 for standard notes

C-40-W Galvalume

Ix: 0.013 in^4/ft
20 ga Sx: 0.052 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	6'-6"	6'-6"	7'-3"	55	Stress	3'-11"	3'-11"	4'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	5'-9"	5'-9"	6'-6"	60	Stress	3'-9"	3'-9"	4'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	5'-3"	5'-3"	5'-11"	65	Stress	3'-7"	3'-7"	4'-0"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	4'-11"	4'-11"	5'-6"	70	Stress	3'-6"	3'-6"	3'-10"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	4'-7"	4'-7"	5'-1"	75	Stress	3'-4"	3'-4"	3'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	4'-4"	4'-4"	4'-10"	80	Stress	3'-3"	3'-3"	3'-7"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	4'-1"	4'-1"	4'-7"	85	Stress	3'-2"	3'-2"	3'-6"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	2'-11"

C-40-W Galvalume

Ix: 0.018 in^4/ft
18 ga Sx: 0.07 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	7'-6"	7'-6"	8'-4"	55	Stress	4'-6"	4'-6"	5'-1"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	6'-8"	6'-8"	7'-6"	60	Stress	4'-4"	4'-4"	4'-10"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	2'-11"	4'-0"	3'-8"
30	Stress	6'-1"	6'-1"	6'-10"	65	Stress	4'-2"	4'-2"	4'-8"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-7"
35	Stress	5'-8"	5'-8"	6'-4"	70	Stress	4'-0"	4'-0"	4'-6"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-10"	3'-9"	3'-6"
40	Stress	5'-3"	5'-3"	5'-11"	75	Stress	3'-10"	3'-10"	4'-4"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-9"	3'-8"	3'-5"
45	Stress	5'-0"	5'-0"	5'-7"	80	Stress	3'-9"	3'-9"	4'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	4'-9"	4'-9"	5'-3"	85	Stress	3'-8"	3'-8"	4'-1"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"

See page 2 for standard notes

Load / Span Data

C-40-W Aluminum

0.032 in

Ix: 0.014 in^4/ft
Sx: 0.053 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	4'-2"	4'-2"	4'-8"	55	Stress	2'-6"	2'-6"	2'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-0"	2'-8"	2'-5"
25	Stress	3'-9"	3'-9"	4'-2"	60	Stress	2'-5"	2'-5"	2'-8"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	1'-11"	2'-7"	2'-4"
30	Stress	3'-5"	3'-5"	3'-10"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-10"	2'-6"	2'-4"
35	Stress	3'-2"	3'-2"	3'-6"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-10"	2'-5"	2'-3"
40	Stress	3'-0"	3'-0"	3'-4"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	2'-2"	2'-11"	2'-9"		Deflection	1'-9"	2'-5"	2'-2"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-0"	2'-9"	2'-6"		Deflection	1'-8"	2'-4"	2'-1"

C-40-W Aluminum

0.040 in

Ix: 0.015 in^4/ft
Sx: 0.055 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	4'-3"	4'-3"	4'-9"	55	Stress	2'-7"	2'-7"	2'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-0"	2'-9"	2'-6"
25	Stress	3'-10"	3'-10"	4'-3"	60	Stress	2'-6"	2'-6"	2'-9"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-8"	2'-5"
30	Stress	3'-6"	3'-6"	3'-11"	65	Stress	2'-4"	2'-4"	2'-8"
	Deflection	2'-5"	3'-4"	3'-1"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	3'-3"	3'-3"	3'-7"	70	Stress	2'-3"	2'-3"	2'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-6"	2'-4"
40	Stress	3'-0"	3'-0"	3'-4"	75	Stress	2'-2"	2'-2"	2'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-2"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

See page 2 for standard notes

C-40-W
Aluminum

0.050 in

Ix: 0.019 in^4/ft
Sx: 0.067 in^3/ft

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	4'-9"	4'-9"	5'-3"	55	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	4'-3"	4'-3"	4'-9"	60	Stress	2'-9"	2'-9"	3'-1"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	3'-10"	3'-10"	4'-4"	65	Stress	2'-7"	2'-7"	2'-11"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-1"	2'-9"	2'-6"
35	Stress	3'-7"	3'-7"	4'-0"	70	Stress	2'-6"	2'-6"	2'-10"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-0"	2'-8"	2'-6"
40	Stress	3'-4"	3'-4"	3'-9"	75	Stress	2'-5"	2'-5"	2'-9"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-8"	2'-5"
45	Stress	3'-2"	3'-2"	3'-6"	80	Stress	2'-4"	2'-4"	2'-8"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	3'-0"	3'-0"	3'-4"	85	Stress	2'-4"	2'-4"	2'-7"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

See page 2 for standard notes

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