Metal Wall & Roof Systems
North America

Protected by Morin By Kingspan WARRANTY

Morin Exposed Series Perforated Metal Wall System

Corrugated Span Charts

Innovative Single Element
Building Envelope Solution



Morin By Kingspan

Product Data

Morin Exposed Series Perforated 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.

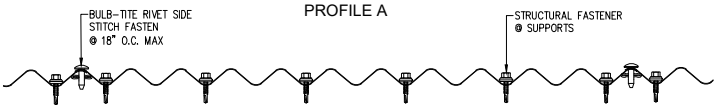
Standard Notes:

1. Numbers in the tables indicate clear span distance between the structural supports.
2. Section properties listed are for the perforated 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. For side stitch fastener use 9/32″ bulb-tite rivet.
6. 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.
7. Deflection limit is L/180 unless otherwise noted.
8. Aluminum material confirming to 3003-H14; reach out to Morin technical for anodized (5005-H34) or any other Aluminum material
9. 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



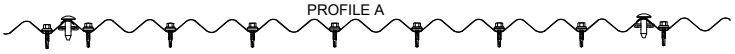
C-29-S FASTENING PATTERN
PROFILE A



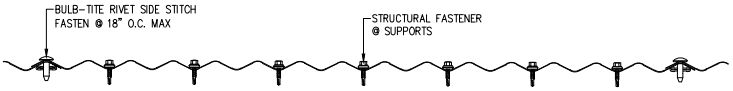
C-37-W FASTENING PATTERN
PROFILE A



C-37-S FASTENING PATTERN
PROFILE A



C-40-E FASTENING PATTERN
PROFILE A

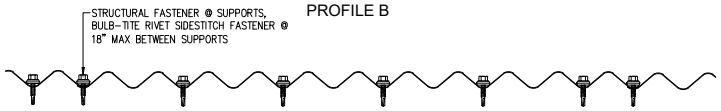


C-40-W FASTENING PATTERN
PROFILE A



PROFILE B

C-29-E FASTENING PATTERN
PROFILE B



C-29-W FASTENING PATTERN
PROFILE B



C-29-S FASTENING PATTERN
PROFILE B



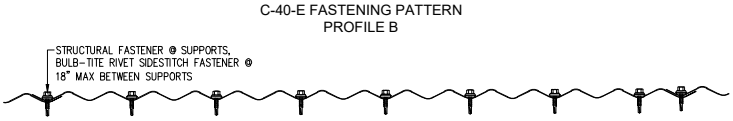
C-37-W FASTENING PATTERN
PROFILE B



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
Aluminum Perforated

0.032 in

Ix: 0.032 in^4/ft
Sx: 0.067 in^3/ft
Perforation: 10%

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’-7”	4’-11”	4’-6”		Deflection	2’-7”	3’-6”	3’-2”
25	Stress	4’-3”	4’-3”	4’-9”	60	Stress	2’-9”	2’-9”	3’-0”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-6”	3’-5”	3’-1”
30	Stress	3’-10”	3’-10”	4’-4”	65	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-2”	4’-3”	3’-11”		Deflection	2’-5”	3’-4”	3’-0”
35	Stress	3’-7”	3’-7”	4’-0”	70	Stress	2’-6”	2’-6”	2’-10”
	Deflection	3’-0”	4’-1”	3’-9”		Deflection	2’-5”	3’-3”	2’-11”
40	Stress	3’-4”	3’-4”	3’-9”	75	Stress	2’-5”	2’-5”	2’-9”
	Deflection	2’-10”	3’-11”	3’-7”		Deflection	2’-4”	3’-2”	2’-11”
45	Stress	3’-2”	3’-2”	3’-6”	80	Stress	2’-4”	2’-4”	2’-8”
	Deflection	2’-9”	3’-9”	3’-5”		Deflection	2’-3”	3’-1”	2’-10”
50	Stress	3’-0”	3’-0”	3’-4”	85	Stress	2’-3”	2’-3”	2’-7”
	Deflection	2’-8”	3’-7”	3’-4”		Deflection	2’-3”	3’-0”	2’-9”

C-29-E/W/S
Aluminum Perforated

0.032 in

Ix: 0.024 in^4/ft
Sx: 0.05 in^3/ft
Perforation: 23%

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’-1”	4’-1”	4’-7”	55	Stress	2’-5”	2’-5”	2’-9”
	Deflection	3’-4”	4’-5”	4’-1”		Deflection	2’-4”	3’-2”	2’-11”
25	Stress	3’-8”	3’-8”	4’-1”	60	Stress	2’-4”	2’-4”	2’-8”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-3”	3’-1”	2’-10”
30	Stress	3’-4”	3’-4”	3’-9”	65	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-11”	3’-11”	3’-7”		Deflection	2’-3”	3’-0”	2’-9”
35	Stress	3’-1”	3’-1”	3’-5”	70	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-9”	3’-8”	3’-5”		Deflection	2’-2”	2’-11”	2’-8”
40	Stress	2’-11”	2’-11”	3’-3”	75	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-7”	3’-6”	3’-3”		Deflection	2’-1”	2’-10”	2’-8”
45	Stress	2’-9”	2’-9”	3’-0”	80	Stress	2’-0”	2’-0”	2’-3”
	Deflection	2’-6”	3’-5”	3’-1”		Deflection	2’-1”	2’-10”	2’-7”
50	Stress	2’-7”	2’-7”	2’-11”	85	Stress	1’-12”	1’-12”	2’-2”
	Deflection	2’-5”	3’-3”	3’-0”		Deflection	2’-0”	2’-9”	2’-6”

*See page 2 for standard notes.

C-29-E/W/S
Aluminum Perforated

0.032 in

Ix: 0.02 in^4/ft
Sx: 0.043 in^3/ft
Perforation: 30%

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

C-29-E/W/S
Aluminum Perforated

0.032 in

Ix: 0.018 in^4/ft
Sx: 0.04 in^3/ft
Perforation: 33%

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

*See page 2 for standard notes.

Load / Span Data

C-29-E/W/S
Aluminum Perforated

0.032 in

Ix: 0.014 in^4/ft
Sx: 0.033 in^3/ft
Perforation: 40%

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

C-29-E/W/S
Aluminum Perforated

0.032 in

Ix: 0.009 in^4/ft
Sx: 0.025 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

C-29-E/W/S
Aluminum Perforated

0.040 in

Ix: 0.04 in^4/ft
Sx: 0.084 in^3/ft
Perforation: 10%

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’-4”	5’-4”	5’-11”	55	Stress	3’-2”	3’-2”	3’-7”
	Deflection	3’-11”	5’-3”	4’-10”		Deflection	2’-9”	3’-9”	3’-5”
25	Stress	4’-9”	4’-9”	5’-4”	60	Stress	3’-1”	3’-1”	3’-5”
	Deflection	3’-7”	4’-10”	4’-6”		Deflection	2’-8”	3’-8”	3’-4”
30	Stress	4’-4”	4’-4”	4’-10”	65	Stress	2’-11”	2’-11”	3’-3”
	Deflection	3’-5”	4’-7”	4’-3”		Deflection	2’-8”	3’-7”	3’-3”
35	Stress	4’-0”	4’-0”	4’-6”	70	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-3”	4’-4”	4’-0”		Deflection	2’-7”	3’-5”	3’-2”
40	Stress	3’-9”	3’-9”	4’-2”	75	Stress	2’-9”	2’-9”	3’-1”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-6”	3’-5”	3’-1”
45	Stress	3’-6”	3’-6”	3’-11”	80	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-5”	3’-4”	3’-0”
50	Stress	3’-4”	3’-4”	3’-9”	85	Stress	2’-7”	2’-7”	2’-11”
	Deflection	2’-10”	3’-10”	3’-7”		Deflection	2’-5”	3’-3”	3’-0”

C-29-E/W/S
Aluminum Perforated

0.040 in

Ix: 0.03 in^4/ft
Sx: 0.065 in^3/ft
Perforation: 23%

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’-8”	4’-8”	5’-2”	55	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-7”	4’-9”	4’-5”		Deflection	2’-6”	3’-5”	3’-2”
25	Stress	4’-2”	4’-2”	4’-8”	60	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-3”	4’-5”	4’-1”		Deflection	2’-5”	3’-4”	3’-1”
30	Stress	3’-10”	3’-10”	4’-3”	65	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-5”	3’-3”	3’-0”
35	Stress	3’-6”	3’-6”	3’-11”	70	Stress	2’-6”	2’-6”	2’-9”
	Deflection	2’-11”	4’-0”	3’-8”		Deflection	2’-4”	3’-2”	2’-11”
40	Stress	3’-3”	3’-3”	3’-8”	75	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-3”	3’-1”	2’-10”
45	Stress	3’-1”	3’-1”	3’-6”	80	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-8”	3’-8”	3’-4”		Deflection	2’-3”	3’-0”	2’-9”
50	Stress	2’-11”	2’-11”	3’-3”	85	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-7”	3’-6”	3’-3”		Deflection	2’-2”	2’-11”	2’-9”

*See page 2 for standard notes.

Load / Span Data

C-29-E/W/S
Aluminum Perforated

0.040 in

Ix: 0.025 in^4/ft
Sx: 0.056 in^3/ft
Perforation: 30%

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’-4”	4’-4”	4’-10”	55	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-4”	4’-6”	4’-1”		Deflection	2’-4”	3’-2”	2’-11”
25	Stress	3’-10”	3’-10”	4’-4”	60	Stress	2’-6”	2’-6”	2’-9”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-4”	3’-1”	2’-10”
30	Stress	3’-6”	3’-6”	3’-11”	65	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-11”	3’-11”	3’-7”		Deflection	2’-3”	3’-0”	2’-9”
35	Stress	3’-3”	3’-3”	3’-8”	70	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-9”	3’-9”	3’-5”		Deflection	2’-2”	2’-11”	2’-9”
40	Stress	3’-1”	3’-1”	3’-5”	75	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-2”	2’-11”	2’-8”
45	Stress	2’-10”	2’-10”	3’-3”	80	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-6”	3’-5”	3’-2”		Deflection	2’-1”	2’-10”	2’-7”
50	Stress	2’-9”	2’-9”	3’-1”	85	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-5”	3’-4”	3’-0”		Deflection	2’-1”	2’-9”	2’-6”

C-29-E/W/S
Aluminum Perforated

0.040 in

Ix: 0.022 in^4/ft
Sx: 0.052 in^3/ft
Perforation: 33%

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	3’-3”	4’-4”	4’-0”		Deflection	2’-4”	3’-1”	2’-10”
25	Stress	3’-9”	3’-9”	4’-2”	60	Stress	2’-5”	2’-5”	2’-8”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-3”	3’-0”	2’-9”
30	Stress	3’-5”	3’-5”	3’-10”	65	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-10”	3’-9”	3’-6”		Deflection	2’-2”	2’-11”	2’-8”
35	Stress	3’-2”	3’-2”	3’-6”	70	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-4”		Deflection	2’-1”	2’-10”	2’-7”
40	Stress	2’-11”	2’-11”	3’-3”	75	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-7”	3’-5”	3’-2”		Deflection	2’-1”	2’-10”	2’-7”
45	Stress	2’-9”	2’-9”	3’-1”	80	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-5”	3’-4”	3’-0”		Deflection	2’-0”	2’-9”	2’-6”
50	Stress	2’-8”	2’-8”	2’-11”	85	Stress	2’-0”	2’-0”	2’-3”
	Deflection	2’-4”	3’-2”	2’-11”		Deflection	2’-0”	2’-8”	2’-6”

*See page 2 for standard notes.

C-29-E/W/S
Aluminum Perforated

0.040 in

Ix: 0.018 in^4/ft
Sx: 0.043 in^3/ft
Perforation: 40%

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

C-29-E/W/S
Aluminum Perforated

0.040 in

Ix: 0.012 in^4/ft
Sx: 0.033 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

Load / Span Data

C-29-E/W/S
Aluminum Perforated

0.050 in

Ix: 0.05 in^4/ft
Sx: 0.102 in^3/ft
Perforation: 10%

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’-10”	5’-10”	6’-6”	55	Stress	3’-6”	3’-6”	3’-11”
	Deflection	4’-2”	5’-8”	5’-2”		Deflection	3’-0”	4’-1”	3’-9”
25	Stress	5’-3”	5’-3”	5’-10”	60	Stress	3’-4”	3’-4”	3’-9”
	Deflection	3’-11”	5’-3”	4’-10”		Deflection	2’-11”	3’-11”	3’-7”
30	Stress	4’-9”	4’-9”	5’-4”	65	Stress	3’-3”	3’-3”	3’-7”
	Deflection	3’-8”	4’-11”	4’-7”		Deflection	2’-10”	3’-10”	3’-6”
35	Stress	4’-5”	4’-5”	4’-11”	70	Stress	3’-1”	3’-1”	3’-6”
	Deflection	3’-6”	4’-8”	4’-4”		Deflection	2’-9”	3’-9”	3’-5”
40	Stress	4’-1”	4’-1”	4’-7”	75	Stress	3’-0”	3’-0”	3’-4”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-8”	3’-8”	3’-4”
45	Stress	3’-11”	3’-11”	4’-4”	80	Stress	2’-11”	2’-11”	3’-3”
	Deflection	3’-2”	4’-4”	4’-0”		Deflection	2’-8”	3’-7”	3’-3”
50	Stress	3’-8”	3’-8”	4’-1”	85	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-7”	3’-6”	3’-3”

C-29-E/W/S
Aluminum Perforated

0.050 in

Ix: 0.038 in^4/ft
Sx: 0.076 in^3/ft
Perforation: 23%

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’-0”	5’-0”	5’-8”	55	Stress	3’-0”	3’-0”	3’-5”
	Deflection	3’-10”	5’-2”	4’-9”		Deflection	2’-9”	3’-8”	3’-5”
25	Stress	4’-6”	4’-6”	5’-0”	60	Stress	2’-11”	2’-11”	3’-3”
	Deflection	3’-7”	4’-10”	4’-5”		Deflection	2’-8”	3’-7”	3’-3”
30	Stress	4’-1”	4’-1”	4’-7”	65	Stress	2’-10”	2’-10”	3’-1”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-7”	3’-6”	3’-2”
35	Stress	3’-10”	3’-10”	4’-3”	70	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-2”	4’-3”	3’-11”		Deflection	2’-6”	3’-5”	3’-1”
40	Stress	3’-7”	3’-7”	4’-0”	75	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-0”	4’-1”	3’-9”		Deflection	2’-6”	3’-4”	3’-1”
45	Stress	3’-4”	3’-4”	3’-9”	80	Stress	2’-6”	2’-6”	2’-10”
	Deflection	2’-11”	3’-11”	3’-7”		Deflection	2’-5”	3’-3”	3’-0”
50	Stress	3’-2”	3’-2”	3’-7”	85	Stress	2’-5”	2’-5”	2’-9”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-4”	3’-2”	2’-11”

*See page 2 for standard notes.

C-29-E/W/S
Aluminum Perforated

0.050 in

Ix: 0.031 in^4/ft
Sx: 0.065 in^3/ft
Perforation: 30%

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’-8”	4’-8”	5’-2”	55	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-7”	4’-10”	4’-5”		Deflection	2’-7”	3’-5”	3’-2”
25	Stress	4’-2”	4’-2”	4’-8”	60	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-6”	3’-4”	3’-1”
30	Stress	3’-10”	3’-10”	4’-3”	65	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-2”	4’-3”	3’-11”		Deflection	2’-5”	3’-3”	3’-0”
35	Stress	3’-6”	3’-6”	3’-11”	70	Stress	2’-6”	2’-6”	2’-9”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-4”	3’-2”	2’-11”
40	Stress	3’-4”	3’-4”	3’-8”	75	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-4”	3’-1”	2’-10”
45	Stress	3’-1”	3’-1”	3’-6”	80	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-9”	3’-8”	3’-5”		Deflection	2’-3”	3’-1”	2’-10”
50	Stress	2’-11”	2’-11”	3’-4”	85	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-3”	3’-0”	2’-9”

C-29-E/W/S
Aluminum Perforated

0.050 in

Ix: 0.028 in^4/ft
Sx: 0.061 in^3/ft
Perforation: 33%

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’-6”	4’-6”	5’-0”	55	Stress	2’-9”	2’-9”	3’-0”
	Deflection	3’-6”	4’-8”	4’-4”		Deflection	2’-6”	3’-4”	3’-1”
25	Stress	4’-0”	4’-0”	4’-6”	60	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-3”	4’-4”	4’-0”		Deflection	2’-5”	3’-3”	3’-0”
30	Stress	3’-8”	3’-8”	4’-1”	65	Stress	2’-6”	2’-6”	2’-10”
	Deflection	3’-0”	4’-1”	3’-9”		Deflection	2’-4”	3’-2”	2’-11”
35	Stress	3’-5”	3’-5”	3’-10”	70	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-11”	3’-11”	3’-7”		Deflection	2’-3”	3’-1”	2’-10”
40	Stress	3’-2”	3’-2”	3’-7”	75	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-9”	3’-9”	3’-5”		Deflection	2’-3”	3’-0”	2’-9”
45	Stress	3’-0”	3’-0”	3’-4”	80	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-2”	2’-11”	2’-9”
50	Stress	2’-10”	2’-10”	3’-2”	85	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-7”	3’-5”	3’-2”		Deflection	2’-2”	2’-11”	2’-8”

*See page 2 for standard notes.

Load / Span Data

C-29-E/W/S
Aluminum Perforated

0.050 in

Ix: 0.022 in^4/ft
Sx: 0.051 in^3/ft
Perforation: 40%

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’-1”	4’-1”	4’-7”	55	Stress	2’-6”	2’-6”	2’-9”
	Deflection	3’-2”	4’-4”	4’-0”		Deflection	2’-3”	3’-1”	2’-10”
25	Stress	3’-8”	3’-8”	4’-1”	60	Stress	2’-4”	2’-4”	2’-8”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-3”	3’-0”	2’-9”
30	Stress	3’-4”	3’-4”	3’-9”	65	Stress	2’-3”	2’-3”	2’-7”
	Deflection	2’-9”	3’-9”	3’-6”		Deflection	2’-2”	2’-11”	2’-8”
35	Stress	3’-1”	3’-1”	3’-6”	70	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-1”	2’-10”	2’-7”
40	Stress	2’-11”	2’-11”	3’-3”	75	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-6”	3’-5”	3’-2”		Deflection	2’-1”	2’-9”	2’-7”
45	Stress	2’-9”	2’-9”	3’-1”	80	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-5”	3’-3”	3’-0”		Deflection	2’-0”	2’-9”	2’-6”
50	Stress	2’-7”	2’-7”	2’-11”	85	Stress	1’-12”	1’-12”	2’-3”
	Deflection	2’-4”	3’-2”	2’-11”		Deflection	2’-0”	2’-8”	2’-5”

C-29-E/W/S
Aluminum Perforated

0.050 in

Ix: 0.015 in^4/ft
Sx: 0.038 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

C-37-W/S
Aluminum Perforated

0.032 in

Ix: 0.032 in^4/ft
Sx: 0.065 in^3/ft
Perforation: 10%

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’-8”	4’-8”	5’-2”	55	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-7”	4’-10”	4’-6”		Deflection	2’-7”	3’-6”	3’-2”
25	Stress	4’-2”	4’-2”	4’-8”	60	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-6”	3’-5”	3’-1”
30	Stress	3’-9”	3’-9”	4’-3”	65	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-2”	4’-3”	3’-11”		Deflection	2’-5”	3’-3”	3’-0”
35	Stress	3’-6”	3’-6”	3’-11”	70	Stress	2’-6”	2’-6”	2’-9”
	Deflection	3’-0”	4’-1”	3’-9”		Deflection	2’-5”	3’-3”	2’-11”
40	Stress	3’-3”	3’-3”	3’-8”	75	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-10”	3’-10”	3’-7”		Deflection	2’-4”	3’-2”	2’-11”
45	Stress	3’-1”	3’-1”	3’-5”	80	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-9”	3’-9”	3’-5”		Deflection	2’-3”	3’-1”	2’-10”
50	Stress	2’-11”	2’-11”	3’-3”	85	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-4”		Deflection	2’-3”	3’-0”	2’-9”

C-37-W/S
Aluminum Perforated

0.032 in

Ix: 0.024 in^4/ft
Sx: 0.05 in^3/ft
Perforation: 23%

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’-1”	4’-1”	4’-7”	55	Stress	2’-5”	2’-5”	2’-9”
	Deflection	3’-3”	4’-5”	4’-1”		Deflection	2’-4”	3’-2”	2’-11”
25	Stress	3’-8”	3’-8”	4’-1”	60	Stress	2’-4”	2’-4”	2’-7”
	Deflection	3’-1”	4’-1”	3’-9”		Deflection	2’-3”	3’-1”	2’-10”
30	Stress	3’-4”	3’-4”	3’-9”	65	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-10”	3’-11”	3’-7”		Deflection	2’-3”	3’-0”	2’-9”
35	Stress	3’-1”	3’-1”	3’-5”	70	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-9”	3’-8”	3’-5”		Deflection	2’-2”	2’-11”	2’-8”
40	Stress	2’-11”	2’-11”	3’-3”	75	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-7”	3’-6”	3’-3”		Deflection	2’-1”	2’-10”	2’-8”
45	Stress	2’-9”	2’-9”	3’-0”	80	Stress	2’-0”	2’-0”	2’-3”
	Deflection	2’-6”	3’-5”	3’-1”		Deflection	2’-1”	2’-10”	2’-7”
50	Stress	2’-7”	2’-7”	2’-11”	85	Stress	2’-0”	2’-0”	2’-2”
	Deflection	2’-5”	3’-3”	3’-0”		Deflection	2’-0”	2’-9”	2’-6”

*See page 2 for standard notes.

Load / Span Data

C-37-W/S
Aluminum Perforated — 0.032 in

Ix: 0.02 in^4/ft
Sx: 0.043 in^3/ft
Perforation: 30%

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

C-37-W/S
Aluminum Perforated — 0.032 in

Ix: 0.018 in^4/ft
Sx: 0.04 in^3/ft
Perforation: 33%

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

*See page 2 for standard notes.

C-37-W/S
Aluminum Perforated

0.032 in

Ix: 0.014 in^4/ft
Sx: 0.033 in^3/ft
Perforation: 40%

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

C-37-W/S
Aluminum Perforated

0.032 in

Ix: 0.009 in^4/ft
Sx: 0.025 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

Load / Span Data

C-37-W/S
Aluminum Perforated — 0.040 in

Ix: 0.035 in^4/ft
Sx: 0.078 in^3/ft
Perforation: 10%

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’-1”	5’-1”	5’-8”	55	Stress	3’-1”	3’-1”	3’-5”
	Deflection	3’-9”	5’-1”	4’-8”		Deflection	2’-8”	3’-7”	3’-4”
25	Stress	4’-7”	4’-7”	5’-1”	60	Stress	2’-11”	2’-11”	3’-3”
	Deflection	3’-6”	4’-8”	4’-4”		Deflection	2’-7”	3’-6”	3’-3”
30	Stress	4’-2”	4’-2”	4’-8”	65	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-3”	4’-5”	4’-1”		Deflection	2’-6”	3’-5”	3’-2”
35	Stress	3’-10”	3’-10”	4’-4”	70	Stress	2’-9”	2’-9”	3’-1”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-6”	3’-4”	3’-1”
40	Stress	3’-7”	3’-7”	4’-0”	75	Stress	2’-8”	2’-8”	2’-11”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-5”	3’-3”	3’-0”
45	Stress	3’-5”	3’-5”	3’-10”	80	Stress	2’-7”	2’-7”	2’-10”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-4”	3’-2”	2’-11”
50	Stress	3’-3”	3’-3”	3’-7”	85	Stress	2’-6”	2’-6”	2’-9”
	Deflection	2’-9”	3’-9”	3’-5”		Deflection	2’-4”	3’-1”	2’-10”

C-37-W/S
Aluminum Perforated — 0.040 in

Ix: 0.03 in^4/ft
Sx: 0.065 in^3/ft
Perforation: 23%

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’-8”	4’-8”	5’-2”	55	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-7”	4’-9”	4’-5”		Deflection	2’-6”	3’-5”	3’-2”
25	Stress	4’-2”	4’-2”	4’-8”	60	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-3”	4’-5”	4’-1”		Deflection	2’-5”	3’-4”	3’-1”
30	Stress	3’-10”	3’-10”	4’-3”	65	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-5”	3’-3”	3’-0”
35	Stress	3’-6”	3’-6”	3’-11”	70	Stress	2’-6”	2’-6”	2’-9”
	Deflection	2’-11”	4’-0”	3’-8”		Deflection	2’-4”	3’-2”	2’-11”
40	Stress	3’-3”	3’-3”	3’-8”	75	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-3”	3’-1”	2’-10”
45	Stress	3’-1”	3’-1”	3’-6”	80	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-8”	3’-8”	3’-4”		Deflection	2’-3”	3’-0”	2’-9”
50	Stress	2’-11”	2’-11”	3’-3”	85	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-7”	3’-6”	3’-3”		Deflection	2’-2”	2’-11”	2’-9”

*See page 2 for standard notes.

C-37-W/S
Aluminum Perforated

0.040 in

Ix: 0.025 in^4/ft
Sx: 0.056 in^3/ft
Perforation: 30%

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’-4”	4’-4”	4’-10”	55	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-4”	4’-6”	4’-1”		Deflection	2’-4”	3’-2”	2’-11”
25	Stress	3’-10”	3’-10”	4’-4”	60	Stress	2’-6”	2’-6”	2’-9”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-4”	3’-1”	2’-10”
30	Stress	3’-6”	3’-6”	3’-11”	65	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-11”	3’-11”	3’-7”		Deflection	2’-3”	3’-0”	2’-9”
35	Stress	3’-3”	3’-3”	3’-8”	70	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-9”	3’-9”	3’-5”		Deflection	2’-2”	2’-11”	2’-9”
40	Stress	3’-1”	3’-1”	3’-5”	75	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-2”	2’-11”	2’-8”
45	Stress	2’-10”	2’-10”	3’-3”	80	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-6”	3’-5”	3’-2”		Deflection	2’-1”	2’-10”	2’-7”
50	Stress	2’-9”	2’-9”	3’-1”	85	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-5”	3’-4”	3’-0”		Deflection	2’-1”	2’-9”	2’-6”

C-37-W/S
Aluminum Perforated

0.040 in

Ix: 0.023 in^4/ft
Sx: 0.052 in^3/ft
Perforation: 33%

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	3’-3”	4’-4”	4’-0”		Deflection	2’-4”	3’-1”	2’-10”
25	Stress	3’-9”	3’-9”	4’-2”	60	Stress	2’-5”	2’-5”	2’-8”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-3”	3’-0”	2’-9”
30	Stress	3’-5”	3’-5”	3’-10”	65	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-2”	2’-11”	2’-8”
35	Stress	3’-2”	3’-2”	3’-6”	70	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-4”		Deflection	2’-1”	2’-10”	2’-8”
40	Stress	2’-11”	2’-11”	3’-3”	75	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-7”	3’-5”	3’-2”		Deflection	2’-1”	2’-10”	2’-7”
45	Stress	2’-9”	2’-9”	3’-1”	80	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-5”	3’-4”	3’-1”		Deflection	2’-0”	2’-9”	2’-6”
50	Stress	2’-8”	2’-8”	2’-11”	85	Stress	2’-0”	2’-0”	2’-3”
	Deflection	2’-4”	3’-2”	2’-11”		Deflection	2’-0”	2’-8”	2’-6”

*See page 2 for standard notes.

Load / Span Data

C-37-W/S
Aluminum Perforated — 0.040 in

Ix: 0.018 in^4/ft
Sx: 0.043 in^3/ft
Perforation: 40%

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

C-37-W/S
Aluminum Perforated — 0.040 in

Ix: 0.012 in^4/ft
Sx: 0.033 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

C-37-W/S
Aluminum Perforated

0.050 in

Ix: 0.05 in^4/ft
Sx: 0.109 in^3/ft
Perforation: 10%

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’-0”	6’-0”	6’-9”	55	Stress	3’-8”	3’-8”	4’-1”
	Deflection	4’-2”	5’-8”	5’-2”		Deflection	3’-0”	4’-1”	3’-9”
25	Stress	5’-5”	5’-5”	6’-0”	60	Stress	3’-6”	3’-6”	3’-11”
	Deflection	3’-11”	5’-3”	4’-10”		Deflection	2’-11”	3’-11”	3’-7”
30	Stress	4’-11”	4’-11”	5’-6”	65	Stress	3’-4”	3’-4”	3’-9”
	Deflection	3’-8”	4’-11”	4’-7”		Deflection	2’-10”	3’-10”	3’-6”
35	Stress	4’-7”	4’-7”	5’-1”	70	Stress	3’-3”	3’-3”	3’-7”
	Deflection	3’-6”	4’-8”	4’-4”		Deflection	2’-9”	3’-9”	3’-5”
40	Stress	4’-3”	4’-3”	4’-9”	75	Stress	3’-1”	3’-1”	3’-6”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-8”	3’-8”	3’-4”
45	Stress	4’-0”	4’-0”	4’-6”	80	Stress	3’-0”	3’-0”	3’-4”
	Deflection	3’-2”	4’-4”	4’-0”		Deflection	2’-8”	3’-7”	3’-3”
50	Stress	3’-10”	3’-10”	4’-3”	85	Stress	2’-11”	2’-11”	3’-3”
	Deflection	3’-1”	4’-2”	3’-10”		Deflection	2’-7”	3’-6”	3’-3”

C-37-W/S
Aluminum Perforated

0.050 in

Ix: 0.038 in^4/ft
Sx: 0.081 in^3/ft
Perforation: 23%

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’-2”	5’-2”	5’-10”	55	Stress	3’-2”	3’-2”	3’-6”
	Deflection	3’-10”	5’-2”	4’-9”		Deflection	2’-9”	3’-8”	3’-5”
25	Stress	4’-8”	4’-8”	5’-2”	60	Stress	3’-0”	3’-0”	3’-4”
	Deflection	3’-7”	4’-9”	4’-5”		Deflection	2’-8”	3’-7”	3’-3”
30	Stress	4’-3”	4’-3”	4’-9”	65	Stress	2’-11”	2’-11”	3’-3”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-7”	3’-6”	3’-2”
35	Stress	3’-11”	3’-11”	4’-5”	70	Stress	2’-9”	2’-9”	3’-1”
	Deflection	3’-2”	4’-3”	3’-11”		Deflection	2’-6”	3’-5”	3’-1”
40	Stress	3’-8”	3’-8”	4’-1”	75	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-0”	4’-1”	3’-9”		Deflection	2’-5”	3’-4”	3’-1”
45	Stress	3’-6”	3’-6”	3’-11”	80	Stress	2’-7”	2’-7”	2’-11”
	Deflection	2’-11”	3’-11”	3’-7”		Deflection	2’-5”	3’-3”	3’-0”
50	Stress	3’-3”	3’-3”	3’-8”	85	Stress	2’-6”	2’-6”	2’-10”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-4”	3’-2”	2’-11”

*See page 2 for standard notes.

Load / Span Data

C-37-W/S
Aluminum Perforated — 0.050 in

Ix: 0.031 in^4/ft
Sx: 0.07 in^3/ft
Perforation: 30%

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’-10”	4’-10”	5’-5”	55	Stress	2’-11”	2’-11”	3’-3”
	Deflection	3’-7”	4’-10”	4’-5”		Deflection	2’-7”	3’-5”	3’-2”
25	Stress	4’-4”	4’-4”	4’-10”	60	Stress	2’-9”	2’-9”	3’-1”
	Deflection	3’-4”	4’-6”	4’-2”		Deflection	2’-6”	3’-4”	3’-1”
30	Stress	3’-11”	3’-11”	4’-5”	65	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-2”	4’-3”	3’-11”		Deflection	2’-5”	3’-3”	3’-0”
35	Stress	3’-8”	3’-8”	4’-1”	70	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-4”	3’-2”	2’-11”
40	Stress	3’-5”	3’-5”	3’-10”	75	Stress	2’-6”	2’-6”	2’-9”
	Deflection	2’-10”	3’-10”	3’-6”		Deflection	2’-4”	3’-1”	2’-10”
45	Stress	3’-3”	3’-3”	3’-7”	80	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-9”	3’-8”	3’-5”		Deflection	2’-3”	3’-1”	2’-10”
50	Stress	3’-1”	3’-1”	3’-5”	85	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-3”	3’-0”	2’-9”

C-37-W/S
Aluminum Perforated — 0.050 in

Ix: 0.028 in^4/ft
Sx: 0.065 in^3/ft
Perforation: 33%

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’-8”	4’-8”	5’-2”	55	Stress	2’-10”	2’-10”	3’-2”
	Deflection	3’-6”	4’-8”	4’-4”		Deflection	2’-6”	3’-4”	3’-1”
25	Stress	4’-2”	4’-2”	4’-8”	60	Stress	2’-8”	2’-8”	3’-0”
	Deflection	3’-3”	4’-4”	4’-0”		Deflection	2’-5”	3’-3”	3’-0”
30	Stress	3’-10”	3’-10”	4’-3”	65	Stress	2’-7”	2’-7”	2’-11”
	Deflection	3’-0”	4’-1”	3’-9”		Deflection	2’-4”	3’-2”	2’-11”
35	Stress	3’-6”	3’-6”	3’-11”	70	Stress	2’-6”	2’-6”	2’-9”
	Deflection	2’-11”	3’-11”	3’-7”		Deflection	2’-3”	3’-1”	2’-10”
40	Stress	3’-3”	3’-3”	3’-8”	75	Stress	2’-5”	2’-5”	2’-8”
	Deflection	2’-9”	3’-9”	3’-5”		Deflection	2’-3”	3’-0”	2’-9”
45	Stress	3’-1”	3’-1”	3’-6”	80	Stress	2’-4”	2’-4”	2’-7”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-2”	2’-11”	2’-9”
50	Stress	2’-11”	2’-11”	3’-3”	85	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-7”	3’-5”	3’-2”		Deflection	2’-2”	2’-11”	2’-8”

*See page 2 for standard notes.

C-37-W/S
Aluminum Perforated

0.050 in

Ix: 0.022 in^4/ft
Sx: 0.054 in^3/ft
Perforation: 40%

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	3’-2”	4’-4”	4’-0”		Deflection	2’-3”	3’-1”	2’-10”
25	Stress	3’-10”	3’-10”	4’-3”	60	Stress	2’-5”	2’-5”	2’-9”
	Deflection	3’-0”	4’-0”	3’-8”		Deflection	2’-3”	3’-0”	2’-9”
30	Stress	3’-6”	3’-6”	3’-10”	65	Stress	2’-4”	2’-4”	2’-8”
	Deflection	2’-9”	3’-9”	3’-6”		Deflection	2’-2”	2’-11”	2’-8”
35	Stress	3’-2”	3’-2”	3’-7”	70	Stress	2’-3”	2’-3”	2’-6”
	Deflection	2’-8”	3’-7”	3’-3”		Deflection	2’-1”	2’-10”	2’-7”
40	Stress	3’-0”	3’-0”	3’-4”	75	Stress	2’-2”	2’-2”	2’-5”
	Deflection	2’-6”	3’-5”	3’-2”		Deflection	2’-1”	2’-9”	2’-7”
45	Stress	2’-10”	2’-10”	3’-2”	80	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-5”	3’-3”	3’-0”		Deflection	2’-0”	2’-9”	2’-6”
50	Stress	2’-8”	2’-8”	3’-0”	85	Stress	2’-1”	2’-1”	2’-4”
	Deflection	2’-4”	3’-2”	2’-11”		Deflection	2’-0”	2’-8”	2’-5”

C-37-W/S
Aluminum Perforated

0.050 in

Ix: 0.015 in^4/ft
Sx: 0.041 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

Load / Span Data

C-40-E/W
Aluminum Perforated

0.032 in

Ix: 0.01 in^4/ft
Sx: 0.035 in^3/ft
Perforation: 10%

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

C-40-E/W
Aluminum Perforated

0.032 in

Ix: 0.008 in^4/ft
Sx: 0.026 in^3/ft
Perforation: 23%

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

*See page 2 for standard notes.

C-40-E/W
Aluminum Perforated

0.032 in

Ix: 0.006 in^4/ft
Sx: 0.023 in^3/ft
Perforation: 30%

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

C-40-E/W
Aluminum Perforated

0.032 in

Ix: 0.006 in^4/ft
Sx: 0.021 in^3/ft
Perforation: 33%

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

*See page 2 for standard notes.

Load / Span Data

C-40-E/W
Aluminum Perforated — 0.032 in

Ix: 0.004 in^4/ft
Sx: 0.018 in^3/ft
Perforation: 40%

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

C-40-E/W
Aluminum Perforated — 0.032 in

Ix: 0.003 in^4/ft
Sx: 0.013 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

C-40-E/W
Aluminum Perforated

0.040 in

Ix: 0.01 in^4/ft
Sx: 0.037 in^3/ft
Perforation: 10%

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

C-40-E/W
Aluminum Perforated

0.040 in

Ix: 0.008 in^4/ft
Sx: 0.027 in^3/ft
Perforation: 23%

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

*See page 2 for standard notes.

Load / Span Data

C-40-E/W
Aluminum Perforated

0.040 in

Ix: 0.007 in^4/ft
Sx: 0.023 in^3/ft
Perforation: 30%

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

C-40-E/W
Aluminum Perforated

0.040 in

Ix: 0.006 in^4/ft
Sx: 0.022 in^3/ft
Perforation: 33%

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

*See page 2 for standard notes.

C-40-E/W
Aluminum Perforated

0.040 in

Ix: 0.005 in^4/ft
Sx: 0.018 in^3/ft
Perforation: 40%

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

C-40-E/W
Aluminum Perforated

0.040 in

Ix: 0.003 in^4/ft
Sx: 0.014 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

Load / Span Data

C-40-E/W
Aluminum Perforated

0.050 in

Ix: 0.013 in^4/ft
Sx: 0.045 in^3/ft
Perforation: 10%

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

C-40-E/W
Aluminum Perforated

0.050 in

Ix: 0.01 in^4/ft
Sx: 0.034 in^3/ft
Perforation: 23%

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

*See page 2 for standard notes.

C-40-E/W
Aluminum Perforated

0.050 in

Ix: 0.008 in^4/ft
Sx: 0.029 in^3/ft
Perforation: 30%

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

C-40-E/W
Aluminum Perforated

0.050 in

Ix: 0.007 in^4/ft
Sx: 0.027 in^3/ft
Perforation: 33%

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

*See page 2 for standard notes.

Load / Span Data

C-40-E/W
Aluminum Perforated

0.050 in

Ix: 0.006 in^4/ft
Sx: 0.022 in^3/ft
Perforation: 40%

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

C-40-E/W
Aluminum Perforated

0.050 in

Ix: 0.004 in^4/ft
Sx: 0.017 in^3/ft
Perforation: 51%

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

*See page 2 for standard notes.

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