

Metal Wall & Roof Systems
North America

Protected by Morin By Kingspan WARRANTY

Morin Exposed Series Metal Wall System

Vee and Box Rib 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.

Vee and Box Rib Profile Options (See other booklets for additional options)

- **Exposed BR7-35-W Profile A/Profile B**
- **Exposed BR9-36-W Profile A/Profile B**
- **Exposed BR-28-ES Profile A/Profile B**
- **Exposed BR-35-S Profile A/Profile B**
- **Exposed E8-40-W Profile A/Profile B**
- **Exposed E-36-W Profile A/Profile B**
- **Exposed VB-31-S Profile A/Profile B**
- **Exposed VB-36-W Profile A/Profile B**
- **Exposed Y-29-ES Profile A/Profile B**
- **Exposed Y-29-W Profile A/Profile B**
- **Exposed Y-36-ES Profile A/Profile B**
- **Exposed Y-36-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.

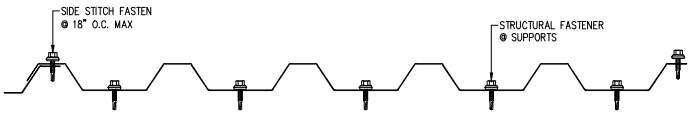
Standard Notes:

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.

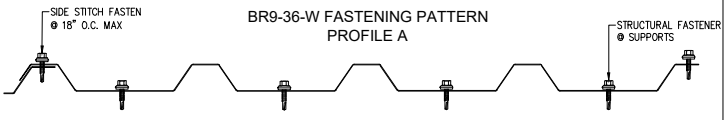
Vee Rib and Box Rib Profiles
Fastening Patterns:

PROFILE A

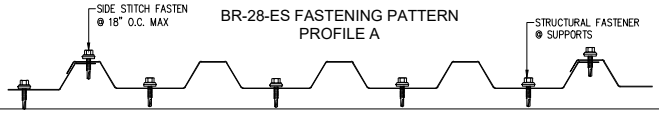
BR7-35-W FASTENING PATTERN
PROFILE A



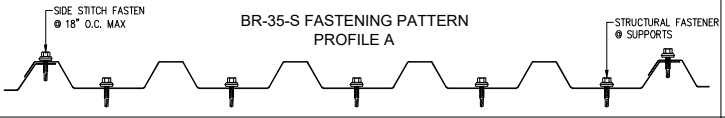
BR9-36-W FASTENING PATTERN
PROFILE A



BR-28-ES FASTENING PATTERN
PROFILE A



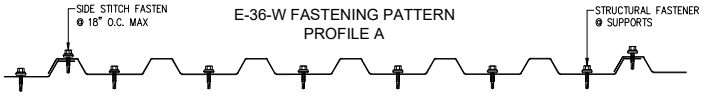
BR-35-S FASTENING PATTERN
PROFILE A



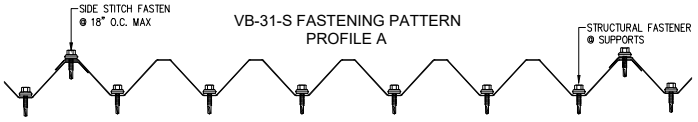
E8-40-W FASTENING PATTERN
PROFILE A



E-36-W FASTENING PATTERN
PROFILE A



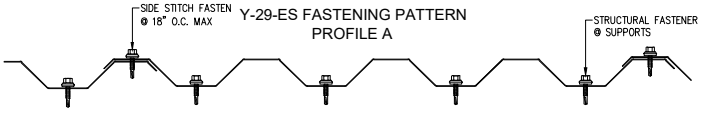
VB-31-S FASTENING PATTERN
PROFILE A



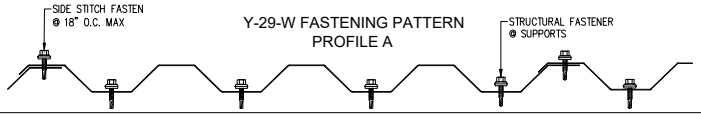
VB-36-W FASTENING PATTERN
PROFILE A



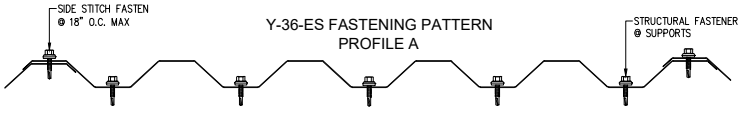
Y-29-ES FASTENING PATTERN
PROFILE A



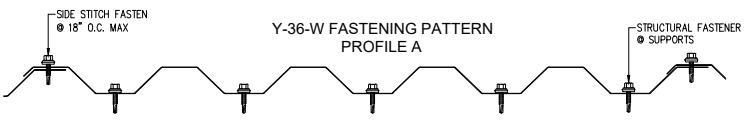
Y-29-W FASTENING PATTERN
PROFILE A



Y-36-ES FASTENING PATTERN
PROFILE A

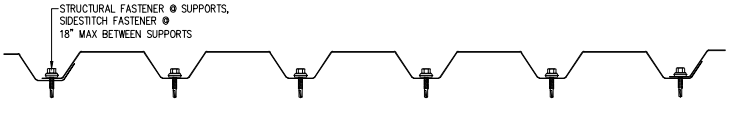


Y-36-W FASTENING PATTERN
PROFILE A

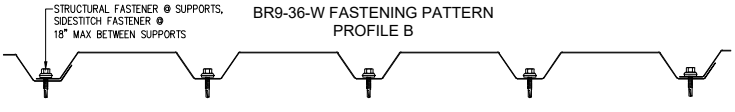


PROFILE B

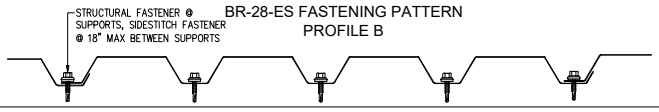
BR7-35-W FASTENING PATTERN
PROFILE B



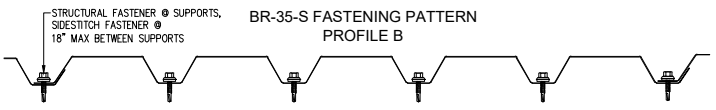
BR9-36-W FASTENING PATTERN
PROFILE B



BR-28-ES FASTENING PATTERN
PROFILE B



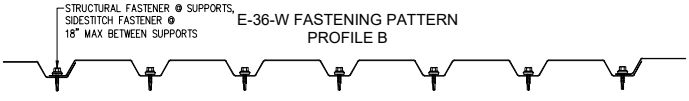
BR-35-S FASTENING PATTERN
PROFILE B



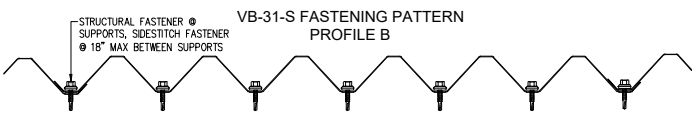
E8-40-W FASTENING PATTERN
PROFILE B



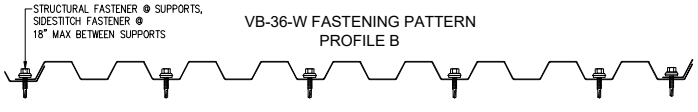
E-36-W FASTENING PATTERN
PROFILE B



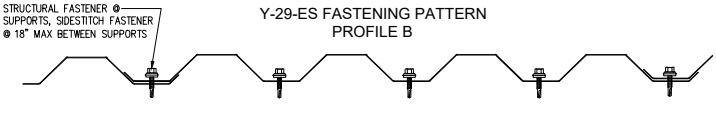
VB-31-S FASTENING PATTERN
PROFILE B



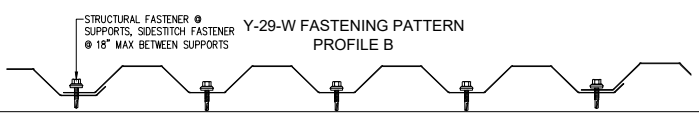
VB-36-W FASTENING PATTERN
PROFILE B



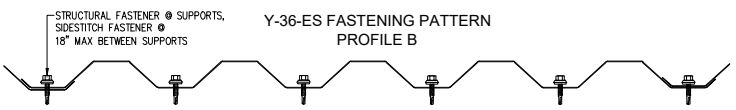
Y-29-ES FASTENING PATTERN
PROFILE B



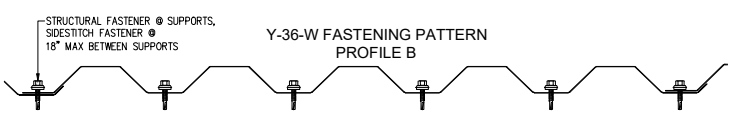
Y-29-W FASTENING PATTERN
PROFILE B



Y-36-ES FASTENING PATTERN
PROFILE B



Y-36-W FASTENING PATTERN
PROFILE B



Load / Span Data

BR7-35-W Galvalume

24 ga — Ix: 0.126 in^4/ft, Sx: 0.147 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'-10"	10'-10"	12'-1"	55	Stress	6'-6"	6'-6"	7'-4"
	Deflection	8'-2"	11'-1"	10'-2"		Deflection	5'-10"	7'-11"	7'-3"
25	Stress	9'-8"	9'-8"	10'-10"	60	Stress	6'-3"	6'-3"	7'-0"
	Deflection	7'-7"	10'-3"	9'-5"		Deflection	5'-8"	7'-8"	7'-1"
30	Stress	8'-10"	8'-10"	9'-11"	65	Stress	6'-0"	6'-0"	6'-9"
	Deflection	7'-2"	9'-8"	8'-11"		Deflection	5'-6"	7'-6"	6'-10"
35	Stress	8'-2"	8'-2"	9'-2"	70	Stress	5'-9"	5'-9"	6'-6"
	Deflection	6'-10"	9'-2"	8'-5"		Deflection	5'-5"	7'-3"	6'-8"
40	Stress	7'-8"	7'-8"	8'-7"	75	Stress	5'-7"	5'-7"	6'-3"
	Deflection	6'-6"	8'-9"	8'-1"		Deflection	5'-3"	7'-1"	6'-7"
45	Stress	7'-3"	7'-3"	8'-1"	80	Stress	5'-5"	5'-5"	6'-1"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	5'-2"	7'-0"	6'-5"
50	Stress	6'-10"	6'-10"	7'-8"	85	Stress	5'-3"	5'-3"	5'-11"
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	5'-1"	6'-10"	6'-3"

BR7-35-W Galvalume

22 ga — Ix: 0.158 in^4/ft, Sx: 0.183 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	12'-1"	12'-1"	13'-6"	55	Stress	7'-4"	7'-4"	8'-2"
	Deflection	8'-10"	11'-11"	10'-11"		Deflection	6'-4"	8'-6"	7'-10"
25	Stress	10'-10"	10'-10"	12'-1"	60	Stress	6'-12"	6'-12"	7'-10"
	Deflection	8'-2"	11'-1"	10'-2"		Deflection	6'-1"	8'-3"	7'-7"
30	Stress	9'-11"	9'-11"	11'-1"	65	Stress	6'-9"	6'-9"	7'-6"
	Deflection	7'-9"	10'-5"	9'-7"		Deflection	6'-0"	8'-1"	7'-5"
35	Stress	9'-2"	9'-2"	10'-3"	70	Stress	6'-6"	6'-6"	7'-3"
	Deflection	7'-4"	9'-11"	9'-1"		Deflection	5'-10"	7'-10"	7'-3"
40	Stress	8'-7"	8'-7"	9'-7"	75	Stress	6'-3"	6'-3"	7'-0"
	Deflection	7'-0"	9'-6"	8'-8"		Deflection	5'-8"	7'-8"	7'-1"
45	Stress	8'-1"	8'-1"	9'-0"	80	Stress	6'-1"	6'-1"	6'-9"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	5'-7"	7'-6"	6'-11"
50	Stress	7'-8"	7'-8"	8'-7"	85	Stress	5'-10"	5'-10"	6'-7"
	Deflection	6'-6"	8'-9"	8'-1"		Deflection	5'-5"	7'-4"	6'-9"

See page 2 for standard notes

BR7-35-W
Galvalume

20 ga

Ix: 0.19 in^4/ft
Sx: 0.219 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	13'-3"	13'-3"	14'-10"	55	Stress	8'-0"	8'-0"	8'-11"
	Deflection	9'-5"	12'-8"	11'-8"		Deflection	6'-8"	9'-1"	8'-4"
25	Stress	11'-10"	11'-10"	13'-3"	60	Stress	7'-8"	7'-8"	8'-7"
	Deflection	8'-9"	11'-9"	10'-10"		Deflection	6'-6"	8'-9"	8'-1"
30	Stress	10'-10"	10'-10"	12'-1"	65	Stress	7'-4"	7'-4"	8'-3"
	Deflection	8'-2"	11'-1"	10'-2"		Deflection	6'-4"	8'-7"	7'-10"
35	Stress	10'-0"	10'-0"	11'-2"	70	Stress	7'-1"	7'-1"	7'-11"
	Deflection	7'-10"	10'-6"	9'-8"		Deflection	6'-2"	8'-4"	7'-8"
40	Stress	9'-4"	9'-4"	10'-6"	75	Stress	6'-10"	6'-10"	7'-8"
	Deflection	7'-5"	10'-1"	9'-3"		Deflection	6'-1"	8'-2"	7'-6"
45	Stress	8'-10"	8'-10"	9'-10"	80	Stress	6'-7"	6'-7"	7'-5"
	Deflection	7'-2"	9'-8"	8'-11"		Deflection	5'-11"	8'-0"	7'-4"
50	Stress	8'-5"	8'-5"	9'-4"	85	Stress	6'-5"	6'-5"	7'-2"
	Deflection	6'-11"	9'-4"	8'-7"		Deflection	5'-10"	7'-10"	7'-2"

BR7-35-W
Galvalume

18 ga

Ix: 0.291 in^4/ft
Sx: 0.252 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	14'-3"	14'-3"	15'-11"	55	Stress	8'-7"	8'-7"	9'-7"
	Deflection	10'-10"	14'-7"	13'-5"		Deflection	7'-9"	10'-5"	9'-7"
25	Stress	12'-9"	12'-9"	14'-3"	60	Stress	8'-2"	8'-2"	9'-2"
	Deflection	10'-1"	13'-7"	12'-6"		Deflection	7'-6"	10'-2"	9'-4"
30	Stress	11'-7"	11'-7"	13'-0"	65	Stress	7'-11"	7'-11"	8'-10"
	Deflection	9'-6"	12'-9"	11'-9"		Deflection	7'-4"	9'-10"	9'-1"
35	Stress	10'-9"	10'-9"	12'-0"	70	Stress	7'-7"	7'-7"	8'-6"
	Deflection	9'-0"	12'-2"	11'-2"		Deflection	7'-2"	9'-8"	8'-10"
40	Stress	10'-1"	10'-1"	11'-3"	75	Stress	7'-4"	7'-4"	8'-2"
	Deflection	8'-7"	11'-7"	10'-8"		Deflection	7'-0"	9'-5"	8'-8"
45	Stress	9'-6"	9'-6"	10'-7"	80	Stress	7'-1"	7'-1"	7'-11"
	Deflection	8'-3"	11'-2"	10'-3"		Deflection	6'-10"	9'-3"	8'-6"
50	Stress	9'-0"	9'-0"	10'-1"	85	Stress	6'-11"	6'-11"	7'-8"
	Deflection	8'-0"	10'-9"	9'-11"		Deflection	6'-8"	9'-0"	8'-3"

See page 2 for standard notes

Load / Span Data

BR7-35-W Aluminum

0.032 in

Ix: 0.169 in^4/ft
Sx: 0.196 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'-6"	8'-6"	9'-6"	55	Stress	5'-1"	5'-1"	5'-9"
	Deflection	6'-4"	8'-6"	7'-10"		Deflection	4'-6"	6'-1"	5'-7"
25	Stress	7'-7"	7'-7"	8'-6"	60	Stress	4'-11"	4'-11"	5'-6"
	Deflection	5'-10"	7'-11"	7'-3"		Deflection	4'-4"	5'-11"	5'-5"
30	Stress	6'-11"	6'-11"	7'-9"	65	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-3"	5'-9"	5'-3"
35	Stress	6'-5"	6'-5"	7'-2"	70	Stress	4'-6"	4'-6"	5'-1"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-2"	5'-7"	5'-2"
40	Stress	6'-0"	6'-0"	6'-8"	75	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-1"	5'-6"	5'-0"
45	Stress	5'-8"	5'-8"	6'-4"	80	Stress	4'-3"	4'-3"	4'-9"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	4'-0"	5'-4"	4'-11"
50	Stress	5'-4"	5'-4"	6'-0"	85	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-11"	5'-3"	4'-10"

BR7-35-W Aluminum

0.040 in

Ix: 0.211 in^4/ft
Sx: 0.244 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'-5"
	Deflection	6'-9"	9'-2"	8'-5"		Deflection	4'-10"	6'-6"	6'-0"
25	Stress	8'-6"	8'-6"	9'-5"	60	Stress	5'-6"	5'-6"	6'-1"
	Deflection	6'-4"	8'-6"	7'-10"		Deflection	4'-8"	6'-4"	5'-10"
30	Stress	7'-9"	7'-9"	8'-8"	65	Stress	5'-3"	5'-3"	5'-10"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-7"	6'-2"	5'-8"
35	Stress	7'-2"	7'-2"	8'-0"	70	Stress	5'-1"	5'-1"	5'-8"
	Deflection	5'-8"	7'-7"	7'-0"		Deflection	4'-6"	6'-0"	5'-7"
40	Stress	6'-8"	6'-8"	7'-6"	75	Stress	4'-11"	4'-11"	5'-6"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-4"	5'-11"	5'-5"
45	Stress	6'-4"	6'-4"	7'-1"	80	Stress	4'-9"	4'-9"	5'-3"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-3"	5'-9"	5'-4"
50	Stress	6'-0"	6'-0"	6'-8"	85	Stress	4'-7"	4'-7"	5'-2"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-2"	5'-8"	5'-2"

See page 2 for standard notes

BR7-35-W
Aluminum

0.050 in

Ix: 0.264 in^4/ft
Sx: 0.304 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'-7"	10'-7"	11'-10"	55	Stress	6'-4"	6'-4"	7'-1"
	Deflection	7'-4"	9'-10"	9'-1"		Deflection	5'-3"	7'-1"	6'-6"
25	Stress	9'-5"	9'-5"	10'-7"	60	Stress	6'-1"	6'-1"	6'-10"
	Deflection	6'-9"	9'-2"	8'-5"		Deflection	5'-1"	6'-10"	6'-3"
30	Stress	8'-7"	8'-7"	9'-8"	65	Stress	5'-10"	5'-10"	6'-7"
	Deflection	6'-5"	8'-8"	7'-11"		Deflection	4'-11"	6'-8"	6'-1"
35	Stress	8'-0"	8'-0"	8'-11"	70	Stress	5'-8"	5'-8"	6'-4"
	Deflection	6'-1"	8'-2"	7'-6"		Deflection	4'-10"	6'-6"	6'-0"
40	Stress	7'-6"	7'-6"	8'-4"	75	Stress	5'-5"	5'-5"	6'-1"
	Deflection	5'-10"	7'-10"	7'-2"		Deflection	4'-8"	6'-4"	5'-10"
45	Stress	7'-0"	7'-0"	7'-10"	80	Stress	5'-3"	5'-3"	5'-11"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-7"	6'-3"	5'-9"
50	Stress	6'-8"	6'-8"	7'-6"	85	Stress	5'-1"	5'-1"	5'-9"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-6"	6'-1"	5'-7"

See page 2 for standard notes

Load / Span Data

BR9-36-W Galvalume

24 ga — Ix: 0.12 in^4/ft, Sx: 0.125 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'-0"	10'-0"	11'-2"	55	Stress	6'-0"	6'-0"	6'-9"
	Deflection	8'-1"	10'-11"	10'-0"		Deflection	5'-9"	7'-9"	7'-2"
25	Stress	8'-11"	8'-11"	10'-0"	60	Stress	5'-9"	5'-9"	6'-5"
	Deflection	7'-6"	10'-1"	9'-3"		Deflection	5'-7"	7'-7"	6'-11"
30	Stress	8'-2"	8'-2"	9'-2"	65	Stress	5'-7"	5'-7"	6'-2"
	Deflection	7'-1"	9'-6"	8'-9"		Deflection	5'-5"	7'-4"	6'-9"
35	Stress	7'-7"	7'-7"	8'-5"	70	Stress	5'-4"	5'-4"	6'-0"
	Deflection	6'-8"	9'-0"	8'-4"		Deflection	5'-4"	7'-2"	6'-7"
40	Stress	7'-1"	7'-1"	7'-11"	75	Stress	5'-2"	5'-2"	5'-9"
	Deflection	6'-5"	8'-8"	7'-11"		Deflection	5'-2"	7'-0"	6'-5"
45	Stress	6'-8"	6'-8"	7'-5"	80	Stress	5'-0"	5'-0"	5'-7"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	5'-1"	6'-10"	6'-4"
50	Stress	6'-4"	6'-4"	7'-1"	85	Stress	4'-10"	4'-10"	5'-5"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	5'-0"	6'-9"	6'-2"

BR9-36-W Galvalume

22 ga — Ix: 0.151 in^4/ft, Sx: 0.156 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'-2"	11'-2"	12'-6"	55	Stress	6'-9"	6'-9"	7'-6"
	Deflection	8'-8"	11'-9"	10'-9"		Deflection	6'-3"	8'-5"	7'-8"
25	Stress	10'-0"	10'-0"	11'-2"	60	Stress	6'-5"	6'-5"	7'-3"
	Deflection	8'-1"	10'-11"	10'-0"		Deflection	6'-0"	8'-2"	7'-6"
30	Stress	9'-1"	9'-1"	10'-2"	65	Stress	6'-2"	6'-2"	6'-11"
	Deflection	7'-7"	10'-3"	9'-5"		Deflection	5'-10"	7'-11"	7'-3"
35	Stress	8'-5"	8'-5"	9'-5"	70	Stress	6'-0"	6'-0"	6'-8"
	Deflection	7'-3"	9'-9"	8'-11"		Deflection	5'-9"	7'-9"	7'-1"
40	Stress	7'-11"	7'-11"	8'-10"	75	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-11"	9'-4"	8'-7"		Deflection	5'-7"	7'-7"	6'-11"
45	Stress	7'-5"	7'-5"	8'-4"	80	Stress	5'-7"	5'-7"	6'-3"
	Deflection	6'-8"	9'-0"	8'-3"		Deflection	5'-6"	7'-5"	6'-10"
50	Stress	7'-1"	7'-1"	7'-11"	85	Stress	5'-5"	5'-5"	6'-1"
	Deflection	6'-5"	8'-8"	7'-11"		Deflection	5'-4"	7'-3"	6'-8"

See page 2 for standard notes

BR9-36-W Galvalume

20 ga — Ix: 0.181 in^4/ft, Sx: 0.187 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	12'-3"	12'-3"	13'-8"	55	Stress	7'-4"	7'-4"	8'-3"
	Deflection	9'-3"	12'-6"	11'-5"		Deflection	6'-7"	8'-11"	8'-2"
25	Stress	10'-11"	10'-11"	12'-3"	60	Stress	7'-1"	7'-1"	7'-11"
	Deflection	8'-7"	11'-7"	10'-8"		Deflection	6'-5"	8'-8"	7'-11"
30	Stress	10'-0"	10'-0"	11'-2"	65	Stress	6'-9"	6'-9"	7'-7"
	Deflection	8'-1"	10'-11"	10'-0"		Deflection	6'-3"	8'-5"	7'-9"
35	Stress	9'-3"	9'-3"	10'-4"	70	Stress	6'-6"	6'-6"	7'-4"
	Deflection	7'-8"	10'-4"	9'-6"		Deflection	6'-1"	8'-3"	7'-7"
40	Stress	8'-8"	8'-8"	9'-8"	75	Stress	6'-4"	6'-4"	7'-1"
	Deflection	7'-4"	9'-11"	9'-1"		Deflection	5'-11"	8'-0"	7'-4"
45	Stress	8'-2"	8'-2"	9'-1"	80	Stress	6'-1"	6'-1"	6'-10"
	Deflection	7'-1"	9'-6"	8'-9"		Deflection	5'-10"	7'-10"	7'-3"
50	Stress	7'-9"	7'-9"	8'-8"	85	Stress	5'-11"	5'-11"	6'-8"
	Deflection	6'-10"	9'-2"	8'-5"		Deflection	5'-8"	7'-8"	7'-1"

BR9-36-W Galvalume

18 ga — Ix: 0.241 in^4/ft, Sx: 0.247 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	14'-1"	14'-1"	15'-9"	55	Stress	8'-6"	8'-6"	9'-6"
	Deflection	10'-2"	13'-9"	12'-7"		Deflection	7'-3"	9'-10"	9'-0"
25	Stress	12'-7"	12'-7"	14'-1"	60	Stress	8'-1"	8'-1"	9'-1"
	Deflection	9'-5"	12'-9"	11'-8"		Deflection	7'-1"	9'-6"	8'-9"
30	Stress	11'-6"	11'-6"	12'-10"	65	Stress	7'-10"	7'-10"	8'-9"
	Deflection	8'-11"	12'-0"	11'-0"		Deflection	6'-10"	9'-3"	8'-6"
35	Stress	10'-8"	10'-8"	11'-11"	70	Stress	7'-6"	7'-6"	8'-5"
	Deflection	8'-5"	11'-5"	10'-6"		Deflection	6'-8"	9'-0"	8'-4"
40	Stress	9'-11"	9'-11"	11'-1"	75	Stress	7'-3"	7'-3"	8'-1"
	Deflection	8'-1"	10'-11"	10'-0"		Deflection	6'-7"	8'-10"	8'-1"
45	Stress	9'-5"	9'-5"	10'-6"	80	Stress	7'-0"	7'-0"	7'-10"
	Deflection	7'-9"	10'-6"	9'-7"		Deflection	6'-5"	8'-8"	7'-11"
50	Stress	8'-11"	8'-11"	9'-11"	85	Stress	6'-10"	6'-10"	7'-8"
	Deflection	7'-6"	10'-1"	9'-3"		Deflection	6'-3"	8'-6"	7'-9"

See page 2 for standard notes

Load / Span Data

BR9-36-W
Aluminum

0.032 in

Ix: 0.154 in^4/ft
Sx: 0.16 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'-8"	7'-8"	8'-7"	55	Stress	4'-7"	4'-7"	5'-2"
	Deflection	6'-1"	8'-3"	7'-7"		Deflection	4'-4"	5'-11"	5'-5"
25	Stress	6'-10"	6'-10"	7'-8"	60	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-8"	7'-8"	7'-0"		Deflection	4'-3"	5'-9"	5'-3"
30	Stress	6'-3"	6'-3"	7'-0"	65	Stress	4'-3"	4'-3"	4'-9"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-2"	5'-7"	5'-1"
35	Stress	5'-9"	5'-9"	6'-6"	70	Stress	4'-1"	4'-1"	4'-7"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	4'-0"	5'-5"	5'-0"
40	Stress	5'-5"	5'-5"	6'-1"	75	Stress	3'-11"	3'-11"	4'-5"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-11"	5'-4"	4'-11"
45	Stress	5'-1"	5'-1"	5'-8"	80	Stress	3'-10"	3'-10"	4'-3"
	Deflection	4'-8"	6'-4"	5'-9"		Deflection	3'-10"	5'-2"	4'-9"
50	Stress	4'-10"	4'-10"	5'-5"	85	Stress	3'-9"	3'-9"	4'-2"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-9"	5'-1"	4'-8"

BR9-36-W
Aluminum

0.040 in

Ix: 0.193 in^4/ft
Sx: 0.199 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'-7"	8'-7"	9'-7"	55	Stress	5'-2"	5'-2"	5'-9"
	Deflection	6'-7"	8'-11"	8'-2"		Deflection	4'-8"	6'-4"	5'-10"
25	Stress	7'-8"	7'-8"	8'-7"	60	Stress	4'-11"	4'-11"	5'-6"
	Deflection	6'-1"	8'-3"	7'-7"		Deflection	4'-7"	6'-2"	5'-8"
30	Stress	7'-0"	7'-0"	7'-10"	65	Stress	4'-9"	4'-9"	5'-4"
	Deflection	5'-9"	7'-9"	7'-2"		Deflection	4'-5"	6'-0"	5'-6"
35	Stress	6'-5"	6'-5"	7'-3"	70	Stress	4'-7"	4'-7"	5'-1"
	Deflection	5'-6"	7'-5"	6'-9"		Deflection	4'-4"	5'-10"	5'-5"
40	Stress	6'-0"	6'-0"	6'-9"	75	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-3"	5'-9"	5'-3"
45	Stress	5'-8"	5'-8"	6'-4"	80	Stress	4'-3"	4'-3"	4'-9"
	Deflection	5'-0"	6'-9"	6'-3"		Deflection	4'-2"	5'-7"	5'-2"
50	Stress	5'-5"	5'-5"	6'-0"	85	Stress	4'-2"	4'-2"	4'-8"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	4'-1"	5'-6"	5'-0"

See page 2 for standard notes

BR9-36-W
Aluminum

0.050 in

Ix: 0.234 in^4/ft
Sx: 0.24 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'-6"	55	Stress	5'-8"	5'-8"	6'-4"
	Deflection	7'-0"	9'-6"	8'-8"		Deflection	5'-0"	6'-9"	6'-3"
25	Stress	8'-5"	8'-5"	9'-5"	60	Stress	5'-5"	5'-5"	6'-1"
	Deflection	6'-6"	8'-10"	8'-1"		Deflection	4'-10"	6'-7"	6'-0"
30	Stress	7'-8"	7'-8"	8'-7"	65	Stress	5'-2"	5'-2"	5'-10"
	Deflection	6'-2"	8'-3"	7'-7"		Deflection	4'-9"	6'-5"	5'-11"
35	Stress	7'-1"	7'-1"	7'-11"	70	Stress	5'-0"	5'-0"	5'-7"
	Deflection	5'-10"	7'-10"	7'-3"		Deflection	4'-7"	6'-3"	5'-9"
40	Stress	6'-8"	6'-8"	7'-5"	75	Stress	4'-10"	4'-10"	5'-5"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-6"	6'-1"	5'-7"
45	Stress	6'-3"	6'-3"	7'-0"	80	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-5"	6'-0"	5'-6"
50	Stress	5'-11"	5'-11"	6'-8"	85	Stress	4'-7"	4'-7"	5'-1"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-4"	5'-10"	5'-4"

See page 2 for standard notes

Load / Span Data

BR-28-ES Galvalume

24 ga — Ix: 0.122 in^4/ft, Sx: 0.137 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'-6"	10'-6"	11'-8"	55	Stress	6'-4"	6'-4"	7'-1"
	Deflection	8'-1"	10'-11"	10'-1"		Deflection	5'-9"	7'-10"	7'-2"
25	Stress	9'-4"	9'-4"	10'-6"	60	Stress	6'-0"	6'-0"	6'-9"
	Deflection	7'-6"	10'-2"	9'-4"		Deflection	5'-7"	7'-7"	7'-0"
30	Stress	8'-6"	8'-6"	9'-7"	65	Stress	5'-10"	5'-10"	6'-6"
	Deflection	7'-1"	9'-7"	8'-9"		Deflection	5'-6"	7'-5"	6'-9"
35	Stress	7'-11"	7'-11"	8'-10"	70	Stress	5'-7"	5'-7"	6'-3"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	5'-4"	7'-3"	6'-7"
40	Stress	7'-5"	7'-5"	8'-3"	75	Stress	5'-5"	5'-5"	6'-0"
	Deflection	6'-5"	8'-8"	8'-0"		Deflection	5'-3"	7'-1"	6'-6"
45	Stress	7'-0"	7'-0"	7'-10"	80	Stress	5'-3"	5'-3"	5'-10"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	5'-1"	6'-11"	6'-4"
50	Stress	6'-7"	6'-7"	7'-5"	85	Stress	5'-1"	5'-1"	5'-8"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	5'-0"	6'-9"	6'-3"

BR-28-ES Galvalume

22 ga — Ix: 0.156 in^4/ft, Sx: 0.173 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'-9"	11'-9"	13'-2"	55	Stress	7'-1"	7'-1"	7'-11"
	Deflection	8'-10"	11'-11"	10'-11"		Deflection	6'-3"	8'-6"	7'-9"
25	Stress	10'-6"	10'-6"	11'-9"	60	Stress	6'-10"	6'-10"	7'-7"
	Deflection	8'-2"	11'-0"	10'-2"		Deflection	6'-1"	8'-3"	7'-7"
30	Stress	9'-7"	9'-7"	10'-9"	65	Stress	6'-6"	6'-6"	7'-4"
	Deflection	7'-8"	10'-5"	9'-6"		Deflection	5'-11"	8'-0"	7'-4"
35	Stress	8'-11"	8'-11"	9'-11"	70	Stress	6'-3"	6'-3"	7'-0"
	Deflection	7'-4"	9'-10"	9'-1"		Deflection	5'-10"	7'-10"	7'-2"
40	Stress	8'-4"	8'-4"	9'-4"	75	Stress	6'-1"	6'-1"	6'-10"
	Deflection	7'-0"	9'-5"	8'-8"		Deflection	5'-8"	7'-8"	7'-0"
45	Stress	7'-10"	7'-10"	8'-9"	80	Stress	5'-11"	5'-11"	6'-7"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	5'-7"	7'-6"	6'-10"
50	Stress	7'-5"	7'-5"	8'-4"	85	Stress	5'-8"	5'-8"	6'-5"
	Deflection	6'-6"	8'-9"	8'-0"		Deflection	5'-5"	7'-4"	6'-9"

See page 2 for standard notes

BR-28-ES Galvalume

20 ga — Ix: 0.187 in^4/ft, Sx: 0.207 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	12'-10"	12'-10"	14'-5"	55	Stress	7'-9"	7'-9"	8'-8"
	Deflection	9'-4"	12'-7"	11'-7"		Deflection	6'-8"	9'-0"	8'-3"
25	Stress	11'-6"	11'-6"	12'-10"	60	Stress	7'-5"	7'-5"	8'-4"
	Deflection	8'-8"	11'-9"	10'-9"		Deflection	6'-6"	8'-9"	8'-0"
30	Stress	10'-6"	10'-6"	11'-9"	65	Stress	7'-2"	7'-2"	8'-0"
	Deflection	8'-2"	11'-0"	10'-2"		Deflection	6'-4"	8'-6"	7'-10"
35	Stress	9'-9"	9'-9"	10'-11"	70	Stress	6'-11"	6'-11"	7'-8"
	Deflection	7'-9"	10'-6"	9'-7"		Deflection	6'-2"	8'-4"	7'-8"
40	Stress	9'-1"	9'-1"	10'-2"	75	Stress	6'-8"	6'-8"	7'-5"
	Deflection	7'-5"	10'-0"	9'-2"		Deflection	6'-0"	8'-2"	7'-6"
45	Stress	8'-7"	8'-7"	9'-7"	80	Stress	6'-5"	6'-5"	7'-2"
	Deflection	7'-2"	9'-8"	8'-10"		Deflection	5'-11"	7'-11"	7'-4"
50	Stress	8'-2"	8'-2"	9'-1"	85	Stress	6'-3"	6'-3"	7'-0"
	Deflection	6'-11"	9'-4"	8'-7"		Deflection	5'-9"	7'-10"	7'-2"

BR-28-ES Galvalume

18 ga — Ix: 0.251 in^4/ft, Sx: 0.256 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	14'-4"	14'-4"	16'-0"	55	Stress	8'-8"	8'-8"	9'-8"
	Deflection	10'-4"	13'-11"	12'-9"		Deflection	7'-4"	9'-11"	9'-2"
25	Stress	12'-10"	12'-10"	14'-4"	60	Stress	8'-3"	8'-3"	9'-3"
	Deflection	9'-7"	12'-11"	11'-10"		Deflection	7'-2"	9'-8"	8'-10"
30	Stress	11'-8"	11'-8"	13'-1"	65	Stress	7'-11"	7'-11"	8'-11"
	Deflection	9'-0"	12'-2"	11'-2"		Deflection	7'-0"	9'-5"	8'-8"
35	Stress	10'-10"	10'-10"	12'-1"	70	Stress	7'-8"	7'-8"	8'-7"
	Deflection	8'-7"	11'-7"	10'-7"		Deflection	6'-10"	9'-2"	8'-5"
40	Stress	10'-1"	10'-1"	11'-4"	75	Stress	7'-5"	7'-5"	8'-3"
	Deflection	8'-2"	11'-1"	10'-2"		Deflection	6'-8"	9'-0"	8'-3"
45	Stress	9'-6"	9'-6"	10'-8"	80	Stress	7'-2"	7'-2"	8'-0"
	Deflection	7'-10"	10'-8"	9'-9"		Deflection	6'-6"	8'-9"	8'-1"
50	Stress	9'-1"	9'-1"	10'-1"	85	Stress	6'-11"	6'-11"	7'-9"
	Deflection	7'-7"	10'-3"	9'-5"		Deflection	6'-4"	8'-7"	7'-11"

See page 2 for standard notes

Load / Span Data

BR-28-ES
Aluminum

0.032 in

Ix: 0.167 in^4/ft
Sx: 0.185 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'-3"	8'-3"	9'-3"	55	Stress	5'-0"	5'-0"	5'-7"
	Deflection	6'-3"	8'-6"	7'-9"		Deflection	4'-6"	6'-1"	5'-7"
25	Stress	7'-4"	7'-4"	8'-3"	60	Stress	4'-9"	4'-9"	5'-4"
	Deflection	5'-10"	7'-10"	7'-3"		Deflection	4'-4"	5'-10"	5'-5"
30	Stress	6'-9"	6'-9"	7'-6"	65	Stress	4'-7"	4'-7"	5'-1"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-3"	5'-9"	5'-3"
35	Stress	6'-3"	6'-3"	7'-0"	70	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-2"	5'-7"	5'-1"
40	Stress	5'-10"	5'-10"	6'-6"	75	Stress	4'-3"	4'-3"	4'-9"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-0"	5'-5"	5'-0"
45	Stress	5'-6"	5'-6"	6'-2"	80	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-9"	6'-6"	5'-11"		Deflection	3'-11"	5'-4"	4'-11"
50	Stress	5'-3"	5'-3"	5'-10"	85	Stress	3'-12"	3'-12"	4'-6"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-10"	5'-3"	4'-10"

BR-28-ES
Aluminum

0.040 in

Ix: 0.208 in^4/ft
Sx: 0.23 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'-2"	9'-2"	10'-3"	55	Stress	5'-7"	5'-7"	6'-2"
	Deflection	6'-9"	9'-1"	8'-5"		Deflection	4'-10"	6'-6"	6'-0"
25	Stress	8'-3"	8'-3"	9'-2"	60	Stress	5'-4"	5'-4"	5'-11"
	Deflection	6'-3"	8'-6"	7'-9"		Deflection	4'-8"	6'-4"	5'-10"
30	Stress	7'-6"	7'-6"	8'-5"	65	Stress	5'-1"	5'-1"	5'-8"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-7"	6'-2"	5'-8"
35	Stress	6'-11"	6'-11"	7'-9"	70	Stress	4'-11"	4'-11"	5'-6"
	Deflection	5'-7"	7'-7"	6'-11"		Deflection	4'-5"	6'-0"	5'-6"
40	Stress	6'-6"	6'-6"	7'-3"	75	Stress	4'-9"	4'-9"	5'-4"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-4"	5'-10"	5'-5"
45	Stress	6'-2"	6'-2"	6'-10"	80	Stress	4'-7"	4'-7"	5'-2"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-3"	5'-9"	5'-3"
50	Stress	5'-10"	5'-10"	6'-6"	85	Stress	4'-6"	4'-6"	5'-0"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-2"	5'-8"	5'-2"

See page 2 for standard notes

BR-28-ES
Aluminum

0.050 in

Ix: 0.251 in^4/ft
Sx: 0.256 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'-8"	9'-8"	10'-10"	55	Stress	5'-10"	5'-10"	6'-6"
	Deflection	7'-2"	9'-8"	8'-11"		Deflection	5'-2"	6'-11"	6'-4"
25	Stress	8'-8"	8'-8"	9'-8"	60	Stress	5'-7"	5'-7"	6'-3"
	Deflection	6'-8"	9'-0"	8'-3"		Deflection	5'-0"	6'-9"	6'-2"
30	Stress	7'-11"	7'-11"	8'-10"	65	Stress	5'-4"	5'-4"	6'-0"
	Deflection	6'-3"	8'-6"	7'-9"		Deflection	4'-10"	6'-7"	6'-0"
35	Stress	7'-4"	7'-4"	8'-2"	70	Stress	5'-2"	5'-2"	5'-9"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-9"	6'-5"	5'-10"
40	Stress	6'-10"	6'-10"	7'-8"	75	Stress	5'-0"	5'-0"	5'-7"
	Deflection	5'-8"	7'-8"	7'-1"		Deflection	4'-8"	6'-3"	5'-9"
45	Stress	6'-6"	6'-6"	7'-3"	80	Stress	4'-10"	4'-10"	5'-5"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-6"	6'-1"	5'-7"
50	Stress	6'-2"	6'-2"	6'-10"	85	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-5"	6'-0"	5'-6"

See page 2 for standard notes

Load / Span Data

BR-35-S Galvalume

24 ga — Ix: 0.1238 in^4/ft, Sx: 0.1294 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'-2"	10'-2"	11'-5"	55	Stress	6'-2"	6'-2"	6'-10"
	Deflection	8'-2"	11'-0"	10'-1"		Deflection	5'-10"	7'-10"	7'-3"
25	Stress	9'-1"	9'-1"	10'-2"	60	Stress	5'-10"	5'-10"	6'-7"
	Deflection	7'-7"	10'-3"	9'-5"		Deflection	5'-8"	7'-8"	7'-0"
30	Stress	8'-4"	8'-4"	9'-3"	65	Stress	5'-8"	5'-8"	6'-4"
	Deflection	7'-1"	9'-7"	8'-10"		Deflection	5'-6"	7'-5"	6'-10"
35	Stress	7'-8"	7'-8"	8'-7"	70	Stress	5'-5"	5'-5"	6'-1"
	Deflection	6'-9"	9'-2"	8'-5"		Deflection	5'-4"	7'-3"	6'-8"
40	Stress	7'-2"	7'-2"	8'-1"	75	Stress	5'-3"	5'-3"	5'-10"
	Deflection	6'-6"	8'-9"	8'-0"		Deflection	5'-3"	7'-1"	6'-6"
45	Stress	6'-9"	6'-9"	7'-7"	80	Stress	5'-1"	5'-1"	5'-8"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	5'-2"	6'-11"	6'-4"
50	Stress	6'-5"	6'-5"	7'-2"	85	Stress	4'-11"	4'-11"	5'-6"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	5'-0"	6'-9"	6'-3"

BR-35-S Galvalume

22 ga — Ix: 0.163 in^4/ft, Sx: 0.176 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'-10"	11'-10"	13'-3"	55	Stress	7'-2"	7'-2"	8'-0"
	Deflection	8'-11"	12'-1"	11'-1"		Deflection	6'-4"	8'-7"	7'-11"
25	Stress	10'-7"	10'-7"	11'-10"	60	Stress	6'-10"	6'-10"	7'-8"
	Deflection	8'-3"	11'-2"	10'-3"		Deflection	6'-2"	8'-4"	7'-8"
30	Stress	9'-8"	9'-8"	10'-10"	65	Stress	6'-7"	6'-7"	7'-4"
	Deflection	7'-10"	10'-6"	9'-8"		Deflection	6'-0"	8'-2"	7'-6"
35	Stress	9'-0"	9'-0"	10'-0"	70	Stress	6'-4"	6'-4"	7'-1"
	Deflection	7'-5"	10'-0"	9'-2"		Deflection	5'-11"	7'-11"	7'-3"
40	Stress	8'-5"	8'-5"	9'-5"	75	Stress	6'-2"	6'-2"	6'-10"
	Deflection	7'-1"	9'-7"	8'-9"		Deflection	5'-9"	7'-9"	7'-1"
45	Stress	7'-11"	7'-11"	8'-10"	80	Stress	5'-11"	5'-11"	6'-8"
	Deflection	6'-10"	9'-2"	8'-5"		Deflection	5'-7"	7'-7"	7'-0"
50	Stress	7'-6"	7'-6"	8'-5"	85	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-7"	8'-10"	8'-2"		Deflection	5'-6"	7'-5"	6'-10"

See page 2 for standard notes

BR-35-S Galvalume

20 ga

Ix: 0.195 in^4/ft
Sx: 0.211 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	13'-0"	13'-0"	14'-6"	55	Stress	7'-10"	7'-10"	8'-9"
	Deflection	9'-6"	12'-10"	11'-9"		Deflection	6'-9"	9'-2"	8'-5"
25	Stress	11'-7"	11'-7"	13'-0"	60	Stress	7'-6"	7'-6"	8'-5"
	Deflection	8'-10"	11'-11"	10'-11"		Deflection	6'-7"	8'-11"	8'-2"
30	Stress	10'-7"	10'-7"	11'-10"	65	Stress	7'-3"	7'-3"	8'-1"
	Deflection	8'-3"	11'-2"	10'-3"		Deflection	6'-5"	8'-8"	7'-11"
35	Stress	9'-10"	9'-10"	11'-0"	70	Stress	6'-11"	6'-11"	7'-9"
	Deflection	7'-10"	10'-7"	9'-9"		Deflection	6'-3"	8'-5"	7'-9"
40	Stress	9'-2"	9'-2"	10'-3"	75	Stress	6'-9"	6'-9"	7'-6"
	Deflection	7'-6"	10'-2"	9'-4"		Deflection	6'-1"	8'-3"	7'-7"
45	Stress	8'-8"	8'-8"	9'-8"	80	Stress	6'-6"	6'-6"	7'-3"
	Deflection	7'-3"	9'-9"	9'-0"		Deflection	6'-0"	8'-1"	7'-5"
50	Stress	8'-3"	8'-3"	9'-2"	85	Stress	6'-4"	6'-4"	7'-1"
	Deflection	7'-0"	9'-5"	8'-8"		Deflection	5'-10"	7'-11"	7'-3"

BR-35-S Galvalume

18 ga

Ix: 0.26 in^4/ft
Sx: 0.28 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	15'-0"	15'-0"	16'-9"	55	Stress	9'-0"	9'-0"	10'-1"
	Deflection	10'-5"	14'-1"	12'-11"		Deflection	7'-5"	10'-1"	9'-3"
25	Stress	13'-5"	13'-5"	15'-0"	60	Stress	8'-8"	8'-8"	9'-8"
	Deflection	9'-8"	13'-1"	12'-0"		Deflection	7'-3"	9'-9"	9'-0"
30	Stress	12'-3"	12'-3"	13'-8"	65	Stress	8'-4"	8'-4"	9'-3"
	Deflection	9'-1"	12'-4"	11'-4"		Deflection	7'-1"	9'-6"	8'-9"
35	Stress	11'-4"	11'-4"	12'-8"	70	Stress	8'-0"	8'-0"	8'-11"
	Deflection	8'-8"	11'-8"	10'-9"		Deflection	6'-11"	9'-3"	8'-6"
40	Stress	10'-7"	10'-7"	11'-10"	75	Stress	7'-9"	7'-9"	8'-8"
	Deflection	8'-3"	11'-2"	10'-3"		Deflection	6'-9"	9'-1"	8'-4"
45	Stress	10'-0"	10'-0"	11'-2"	80	Stress	7'-6"	7'-6"	8'-4"
	Deflection	8'-0"	10'-9"	9'-11"		Deflection	6'-7"	8'-11"	8'-2"
50	Stress	9'-6"	9'-6"	10'-7"	85	Stress	7'-3"	7'-3"	8'-1"
	Deflection	7'-8"	10'-5"	9'-6"		Deflection	6'-5"	8'-8"	8'-0"

See page 2 for standard notes

Load / Span Data

BR-35-S Aluminum

0.032 in

Ix: 0.174 in^4/ft
Sx: 0.188 in^3/ft

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

BR-35-S Aluminum

0.040 in

Ix: 0.207 in^4/ft
Sx: 0.215 in^3/ft

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

See page 2 for standard notes

BR-35-S
Aluminum

0.050 in

Ix: 0.26 in^4/ft
Sx: 0.267 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'-11"	9'-11"	11'-1"	55	Stress	6'-0"	6'-0"	6'-8"
	Deflection	7'-3"	9'-10"	9'-0"		Deflection	5'-2"	7'-0"	6'-5"
25	Stress	8'-10"	8'-10"	9'-11"	60	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	5'-0"	6'-10"	6'-3"
30	Stress	8'-1"	8'-1"	9'-0"	65	Stress	5'-6"	5'-6"	6'-2"
	Deflection	6'-4"	8'-7"	7'-11"		Deflection	4'-11"	6'-8"	6'-1"
35	Stress	7'-6"	7'-6"	8'-4"	70	Stress	5'-4"	5'-4"	5'-11"
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	4'-9"	6'-6"	5'-11"
40	Stress	7'-0"	7'-0"	7'-10"	75	Stress	5'-1"	5'-1"	5'-9"
	Deflection	5'-9"	7'-9"	7'-2"		Deflection	4'-8"	6'-4"	5'-10"
45	Stress	6'-7"	6'-7"	7'-5"	80	Stress	4'-11"	4'-11"	5'-6"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-7"	6'-2"	5'-8"
50	Stress	6'-3"	6'-3"	7'-0"	85	Stress	4'-10"	4'-10"	5'-4"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-6"	6'-1"	5'-7"

See page 2 for standard notes

Load / Span Data

E8-40-W Galvalume

24 ga — Ix: 0.049 in^4/ft, Sx: 0.073 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'-8"	7'-8"	8'-6"	55	Stress	4'-7"	4'-7"	5'-2"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-3"	5'-9"	5'-3"
25	Stress	6'-10"	6'-10"	7'-8"	60	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-7"	7'-6"	6'-10"		Deflection	4'-2"	5'-7"	5'-2"
30	Stress	6'-3"	6'-3"	7'-0"	65	Stress	4'-3"	4'-3"	4'-9"
	Deflection	5'-3"	7'-0"	6'-6"		Deflection	4'-0"	5'-5"	5'-0"
35	Stress	5'-9"	5'-9"	6'-5"	70	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	3'-11"	5'-4"	4'-11"
40	Stress	5'-5"	5'-5"	6'-0"	75	Stress	3'-11"	3'-11"	4'-5"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-10"	5'-2"	4'-9"
45	Stress	5'-1"	5'-1"	5'-8"	80	Stress	3'-10"	3'-10"	4'-3"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-9"	5'-1"	4'-8"
50	Stress	4'-10"	4'-10"	5'-5"	85	Stress	3'-8"	3'-8"	4'-2"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-8"	5'-0"	4'-7"

E8-40-W Galvalume

22 ga — Ix: 0.061 in^4/ft, Sx: 0.091 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'-6"	8'-6"	9'-6"	55	Stress	5'-2"	5'-2"	5'-9"
	Deflection	6'-5"	8'-8"	8'-0"		Deflection	4'-7"	6'-2"	5'-8"
25	Stress	7'-7"	7'-7"	8'-6"	60	Stress	4'-11"	4'-11"	5'-6"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-6"	6'-0"	5'-6"
30	Stress	6'-11"	6'-11"	7'-9"	65	Stress	4'-9"	4'-9"	5'-3"
	Deflection	5'-7"	7'-7"	7'-0"		Deflection	4'-4"	5'-10"	5'-5"
35	Stress	6'-5"	6'-5"	7'-2"	70	Stress	4'-7"	4'-7"	5'-1"
	Deflection	5'-4"	7'-3"	6'-7"		Deflection	4'-3"	5'-9"	5'-3"
40	Stress	6'-0"	6'-0"	6'-9"	75	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-2"	5'-7"	5'-2"
45	Stress	5'-8"	5'-8"	6'-4"	80	Stress	4'-3"	4'-3"	4'-9"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	4'-1"	5'-6"	5'-0"
50	Stress	5'-5"	5'-5"	6'-0"	85	Stress	4'-2"	4'-2"	4'-7"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	4'-0"	5'-4"	4'-11"

See page 2 for standard notes

E8-40-W Galvalume

20 ga

Ix: 0.073 in^4/ft
Sx: 0.109 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'-4"	9'-4"	10'-5"	55	Stress	5'-7"	5'-7"	6'-3"
	Deflection	6'-10"	9'-3"	8'-6"		Deflection	4'-11"	6'-7"	6'-1"
25	Stress	8'-4"	8'-4"	9'-4"	60	Stress	5'-5"	5'-5"	6'-0"
	Deflection	6'-4"	8'-7"	7'-11"		Deflection	4'-9"	6'-5"	5'-11"
30	Stress	7'-7"	7'-7"	8'-6"	65	Stress	5'-2"	5'-2"	5'-9"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-7"	6'-3"	5'-9"
35	Stress	7'-1"	7'-1"	7'-11"	70	Stress	5'-0"	5'-0"	5'-7"
	Deflection	5'-8"	7'-8"	7'-1"		Deflection	4'-6"	6'-1"	5'-7"
40	Stress	6'-7"	6'-7"	7'-4"	75	Stress	4'-10"	4'-10"	5'-5"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-5"	5'-11"	5'-6"
45	Stress	6'-3"	6'-3"	6'-11"	80	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-4"	5'-10"	5'-4"
50	Stress	5'-11"	5'-11"	6'-7"	85	Stress	4'-6"	4'-6"	5'-1"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	4'-3"	5'-8"	5'-3"

E8-40-W Galvalume

18 ga

Ix: 0.098 in^4/ft
Sx: 0.144 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'-9"	10'-9"	12'-0"	55	Stress	6'-6"	6'-6"	7'-3"
	Deflection	7'-6"	10'-2"	9'-4"		Deflection	5'-5"	7'-3"	6'-8"
25	Stress	9'-7"	9'-7"	10'-9"	60	Stress	6'-2"	6'-2"	6'-11"
	Deflection	7'-0"	9'-5"	8'-8"		Deflection	5'-3"	7'-1"	6'-6"
30	Stress	8'-9"	8'-9"	9'-9"	65	Stress	5'-11"	5'-11"	6'-8"
	Deflection	6'-7"	8'-11"	8'-2"		Deflection	5'-1"	6'-10"	6'-4"
35	Stress	8'-1"	8'-1"	9'-1"	70	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	5'-0"	6'-8"	6'-2"
40	Stress	7'-7"	7'-7"	8'-6"	75	Stress	5'-6"	5'-6"	6'-2"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-10"	6'-7"	6'-0"
45	Stress	7'-2"	7'-2"	8'-0"	80	Stress	5'-4"	5'-4"	6'-0"
	Deflection	5'-9"	7'-9"	7'-2"		Deflection	4'-9"	6'-5"	5'-11"
50	Stress	6'-9"	6'-9"	7'-7"	85	Stress	5'-2"	5'-2"	5'-10"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-8"	6'-3"	5'-9"

See page 2 for standard notes

Load / Span Data

E8-40-W Aluminum

0.032 in

Ix: 0.065 in^4/ft
Sx: 0.097 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'-0"	6'-0"	6'-8"	55	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-1"
25	Stress	5'-4"	5'-4"	6'-0"	60	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-2"	4'-4"	3'-11"
30	Stress	4'-10"	4'-10"	5'-5"	65	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	4'-6"	4'-6"	5'-0"	70	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	4'-3"	4'-3"	4'-9"	75	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	4'-0"	3'-8"
45	Stress	4'-0"	4'-0"	4'-5"	80	Stress	2'-12"	2'-12"	3'-4"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	3'-9"	3'-9"	4'-3"	85	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

E8-40-W Aluminum

0.040 in

Ix: 0.082 in^4/ft
Sx: 0.121 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'-8"	6'-8"	7'-5"	55	Stress	4'-0"	4'-0"	4'-6"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	3'-6"	4'-9"	4'-5"
25	Stress	5'-11"	5'-11"	6'-8"	60	Stress	3'-10"	3'-10"	4'-4"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-5"	4'-8"	4'-3"
30	Stress	5'-5"	5'-5"	6'-1"	65	Stress	3'-8"	3'-8"	4'-2"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-4"	4'-6"	4'-2"
35	Stress	5'-0"	5'-0"	5'-7"	70	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-3"	4'-5"	4'-0"
40	Stress	4'-8"	4'-8"	5'-3"	75	Stress	3'-5"	3'-5"	3'-10"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-2"	4'-4"	3'-11"
45	Stress	4'-5"	4'-5"	5'-0"	80	Stress	3'-4"	3'-4"	3'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-3"	3'-10"
50	Stress	4'-3"	4'-3"	4'-8"	85	Stress	3'-3"	3'-3"	3'-7"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-1"	4'-1"	3'-9"

See page 2 for standard notes

E8-40-W
Aluminum

0.050 in

Ix: 0.103 in^4/ft
Sx: 0.15 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'-5"	7'-5"	8'-4"	55	Stress	4'-6"	4'-6"	5'-0"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	6'-8"	6'-8"	7'-5"	60	Stress	4'-3"	4'-3"	4'-10"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	3'-8"	5'-0"	4'-7"
30	Stress	6'-1"	6'-1"	6'-9"	65	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-8"	6'-4"	5'-9"		Deflection	3'-7"	4'-10"	4'-6"
35	Stress	5'-7"	5'-7"	6'-3"	70	Stress	3'-12"	3'-12"	4'-5"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-4"
40	Stress	5'-3"	5'-3"	5'-10"	75	Stress	3'-10"	3'-10"	4'-3"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	4'-11"	4'-11"	5'-6"	80	Stress	3'-9"	3'-9"	4'-2"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-6"	4'-2"
50	Stress	4'-8"	4'-8"	5'-3"	85	Stress	3'-7"	3'-7"	4'-0"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-4"	4'-5"	4'-1"

See page 2 for standard notes

Load / Span Data

E-36-W Galvalume

24 ga — Ix: 0.055 in^4/ft, Sx: 0.091 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'-6"	8'-6"	9'-6"	55	Stress	5'-2"	5'-2"	5'-9"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	4'-5"	6'-0"	5'-6"
25	Stress	7'-7"	7'-7"	8'-6"	60	Stress	4'-11"	4'-11"	5'-6"
	Deflection	5'-9"	7'-10"	7'-2"		Deflection	4'-4"	5'-10"	5'-4"
30	Stress	6'-11"	6'-11"	7'-9"	65	Stress	4'-9"	4'-9"	5'-3"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-2"	5'-8"	5'-2"
35	Stress	6'-5"	6'-5"	7'-2"	70	Stress	4'-7"	4'-7"	5'-1"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-1"	5'-6"	5'-1"
40	Stress	6'-0"	6'-0"	6'-9"	75	Stress	4'-5"	4'-5"	4'-11"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	4'-0"	5'-5"	5'-0"
45	Stress	5'-8"	5'-8"	6'-4"	80	Stress	4'-3"	4'-3"	4'-9"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-11"	5'-3"	4'-10"
50	Stress	5'-5"	5'-5"	6'-0"	85	Stress	4'-2"	4'-2"	4'-7"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-10"	5'-2"	4'-9"

E-36-W Galvalume

22 ga — Ix: 0.069 in^4/ft, Sx: 0.113 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'-6"	9'-6"	10'-8"	55	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-8"	9'-1"	8'-4"		Deflection	4'-9"	6'-6"	5'-11"
25	Stress	8'-6"	8'-6"	9'-6"	60	Stress	5'-6"	5'-6"	6'-2"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	4'-8"	6'-3"	5'-9"
30	Stress	7'-9"	7'-9"	8'-8"	65	Stress	5'-3"	5'-3"	5'-11"
	Deflection	5'-10"	7'-11"	7'-3"		Deflection	4'-6"	6'-1"	5'-7"
35	Stress	7'-2"	7'-2"	8'-0"	70	Stress	5'-1"	5'-1"	5'-8"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-5"	6'-0"	5'-6"
40	Stress	6'-9"	6'-9"	7'-6"	75	Stress	4'-11"	4'-11"	5'-6"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-4"	5'-10"	5'-4"
45	Stress	6'-4"	6'-4"	7'-1"	80	Stress	4'-9"	4'-9"	5'-4"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-3"	5'-8"	5'-3"
50	Stress	6'-0"	6'-0"	6'-9"	85	Stress	4'-7"	4'-7"	5'-2"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	4'-2"	5'-7"	5'-2"

See page 2 for standard notes

E-36-W Galvalume

20 ga

Ix: 0.083 in^4/ft
Sx: 0.135 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'-5"	10'-5"	11'-7"	55	Stress	6'-3"	6'-3"	7'-0"
	Deflection	7'-1"	9'-7"	8'-10"		Deflection	5'-1"	6'-10"	6'-4"
25	Stress	9'-3"	9'-3"	10'-5"	60	Stress	5'-12"	5'-12"	6'-8"
	Deflection	6'-7"	8'-11"	8'-2"		Deflection	4'-11"	6'-8"	6'-1"
30	Stress	8'-6"	8'-6"	9'-6"	65	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	4'-10"	6'-6"	6'-0"
35	Stress	7'-10"	7'-10"	8'-9"	70	Stress	5'-7"	5'-7"	6'-2"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-8"	6'-4"	5'-10"
40	Stress	7'-4"	7'-4"	8'-3"	75	Stress	5'-4"	5'-4"	6'-0"
	Deflection	5'-8"	7'-8"	7'-0"		Deflection	4'-7"	6'-2"	5'-8"
45	Stress	6'-11"	6'-11"	7'-9"	80	Stress	5'-2"	5'-2"	5'-10"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-6"	6'-1"	5'-7"
50	Stress	6'-7"	6'-7"	7'-4"	85	Stress	5'-0"	5'-0"	5'-8"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-5"	5'-11"	5'-5"

E-36-W Galvalume

18 ga

Ix: 0.111 in^4/ft
Sx: 0.178 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'-11"	11'-11"	13'-4"	55	Stress	7'-2"	7'-2"	8'-1"
	Deflection	7'-10"	10'-7"	9'-9"		Deflection	5'-7"	7'-7"	6'-11"
25	Stress	10'-8"	10'-8"	11'-11"	60	Stress	6'-11"	6'-11"	7'-9"
	Deflection	7'-3"	9'-10"	9'-0"		Deflection	5'-5"	7'-4"	6'-9"
30	Stress	9'-9"	9'-9"	10'-11"	65	Stress	6'-8"	6'-8"	7'-5"
	Deflection	6'-10"	9'-3"	8'-6"		Deflection	5'-4"	7'-2"	6'-7"
35	Stress	9'-0"	9'-0"	10'-1"	70	Stress	6'-5"	6'-5"	7'-2"
	Deflection	6'-6"	8'-9"	8'-1"		Deflection	5'-2"	7'-0"	6'-5"
40	Stress	8'-5"	8'-5"	9'-5"	75	Stress	6'-2"	6'-2"	6'-11"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	5'-1"	6'-10"	6'-3"
45	Stress	8'-0"	8'-0"	8'-11"	80	Stress	5'-12"	5'-12"	6'-8"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-11"	6'-8"	6'-2"
50	Stress	7'-7"	7'-7"	8'-5"	85	Stress	5'-10"	5'-10"	6'-6"
	Deflection	5'-9"	7'-10"	7'-2"		Deflection	4'-10"	6'-6"	6'-0"

See page 2 for standard notes

Load / Span Data

E-36-W Aluminum

0.032 in

Ix: 0.071 in^4/ft
Sx: 0.115 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	3'-11"	3'-11"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-9"	6'-4"	5'-10"		Deflection	3'-4"	4'-6"	4'-2"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-2"	4'-4"	3'-11"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-0"	3'-8"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"

E-36-W Aluminum

0.040 in

Ix: 0.088 in^4/ft
Sx: 0.143 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'-5"	4'-5"	4'-11"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	5'-1"	6'-10"	6'-4"		Deflection	3'-7"	4'-11"	4'-6"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-9"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-4"	4'-6"	4'-2"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-1"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	3'-2"	4'-4"	4'-0"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"

See page 2 for standard notes

E-36-W
Aluminum

0.050 in

Ix: 0.111 in^4/ft
Sx: 0.178 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'-11"	4'-11"	5'-6"	55	Stress	3'-0"	3'-0"	3'-4"
	Deflection	5'-6"	7'-5"	6'-9"		Deflection	3'-11"	5'-3"	4'-10"
25	Stress	4'-5"	4'-5"	4'-11"	60	Stress	2'-10"	2'-10"	3'-2"
	Deflection	5'-1"	6'-10"	6'-4"		Deflection	3'-10"	5'-1"	4'-8"
30	Stress	4'-0"	4'-0"	4'-6"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-8"	5'-0"	4'-7"
35	Stress	3'-9"	3'-9"	4'-2"	70	Stress	2'-8"	2'-8"	2'-11"
	Deflection	4'-6"	6'-2"	5'-8"		Deflection	3'-7"	4'-10"	4'-6"
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-4"	5'-10"	5'-5"		Deflection	3'-6"	4'-9"	4'-4"
45	Stress	3'-3"	3'-3"	3'-8"	80	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-5"	4'-8"	4'-3"
50	Stress	3'-1"	3'-1"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-5"	4'-7"	4'-2"

See page 2 for standard notes

Load / Span Data

VB-31-S Galvalume

24 ga — Ix: 0.197 in^4/ft, Sx: 0.197 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	12'-7"	12'-7"	14'-1"	55	Stress	7'-7"	7'-7"	8'-6"
	Deflection	9'-6"	12'-10"	11'-10"		Deflection	6'-10"	9'-2"	8'-5"
25	Stress	11'-3"	11'-3"	12'-7"	60	Stress	7'-3"	7'-3"	8'-1"
	Deflection	8'-10"	11'-11"	10'-11"		Deflection	6'-7"	8'-11"	8'-2"
30	Stress	10'-3"	10'-3"	11'-6"	65	Stress	7'-0"	7'-0"	7'-9"
	Deflection	8'-4"	11'-3"	10'-4"		Deflection	6'-5"	8'-8"	8'-0"
35	Stress	9'-6"	9'-6"	10'-7"	70	Stress	6'-9"	6'-9"	7'-6"
	Deflection	7'-11"	10'-8"	9'-10"		Deflection	6'-3"	8'-6"	7'-9"
40	Stress	8'-11"	8'-11"	9'-11"	75	Stress	6'-6"	6'-6"	7'-3"
	Deflection	7'-7"	10'-2"	9'-4"		Deflection	6'-2"	8'-3"	7'-7"
45	Stress	8'-4"	8'-4"	9'-4"	80	Stress	6'-3"	6'-3"	7'-0"
	Deflection	7'-3"	9'-10"	9'-0"		Deflection	6'-0"	8'-1"	7'-5"
50	Stress	7'-11"	7'-11"	8'-11"	85	Stress	6'-1"	6'-1"	6'-10"
	Deflection	7'-0"	9'-6"	8'-8"		Deflection	5'-11"	7'-11"	7'-3"

VB-31-S Galvalume

22 ga — Ix: 0.247 in^4/ft, Sx: 0.247 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	14'-1"	14'-1"	15'-8"	55	Stress	8'-6"	8'-6"	9'-6"
	Deflection	10'-3"	13'-10"	12'-9"		Deflection	7'-4"	9'-11"	9'-1"
25	Stress	12'-7"	12'-7"	14'-1"	60	Stress	8'-1"	8'-1"	9'-1"
	Deflection	9'-6"	12'-10"	11'-10"		Deflection	7'-1"	9'-7"	8'-10"
30	Stress	11'-6"	11'-6"	12'-10"	65	Stress	7'-10"	7'-10"	8'-9"
	Deflection	8'-11"	12'-1"	11'-1"		Deflection	6'-11"	9'-4"	8'-7"
35	Stress	10'-7"	10'-7"	11'-10"	70	Stress	7'-6"	7'-6"	8'-5"
	Deflection	8'-6"	11'-6"	10'-7"		Deflection	6'-9"	9'-1"	8'-4"
40	Stress	9'-11"	9'-11"	11'-1"	75	Stress	7'-3"	7'-3"	8'-1"
	Deflection	8'-2"	11'-0"	10'-1"		Deflection	6'-7"	8'-11"	8'-2"
45	Stress	9'-4"	9'-4"	10'-6"	80	Stress	7'-0"	7'-0"	7'-10"
	Deflection	7'-10"	10'-7"	9'-8"		Deflection	6'-6"	8'-9"	8'-0"
50	Stress	8'-11"	8'-11"	9'-11"	85	Stress	6'-10"	6'-10"	7'-7"
	Deflection	7'-7"	10'-2"	9'-4"		Deflection	6'-4"	8'-7"	7'-10"

See page 2 for standard notes

VB-31-S Galvalume

20 ga

Ix: 0.296 in^4/ft
Sx: 0.296 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	15'-5"	15'-5"	17'-3"	55	Stress	9'-3"	9'-3"	10'-5"
	Deflection	10'-11"	14'-9"	13'-6"		Deflection	7'-9"	10'-6"	9'-8"
25	Stress	13'-9"	13'-9"	15'-5"	60	Stress	8'-11"	8'-11"	9'-11"
	Deflection	10'-1"	13'-8"	12'-7"		Deflection	7'-7"	10'-2"	9'-4"
30	Stress	12'-7"	12'-7"	14'-1"	65	Stress	8'-6"	8'-6"	9'-7"
	Deflection	9'-6"	12'-10"	11'-10"		Deflection	7'-4"	9'-11"	9'-1"
35	Stress	11'-8"	11'-8"	13'-0"	70	Stress	8'-3"	8'-3"	9'-2"
	Deflection	9'-1"	12'-3"	11'-3"		Deflection	7'-2"	9'-8"	8'-11"
40	Stress	10'-11"	10'-11"	12'-2"	75	Stress	7'-11"	7'-11"	8'-11"
	Deflection	8'-8"	11'-8"	10'-9"		Deflection	7'-0"	9'-6"	8'-8"
45	Stress	10'-3"	10'-3"	11'-6"	80	Stress	7'-8"	7'-8"	8'-7"
	Deflection	8'-4"	11'-3"	10'-4"		Deflection	6'-10"	9'-3"	8'-6"
50	Stress	9'-9"	9'-9"	10'-11"	85	Stress	7'-6"	7'-6"	8'-4"
	Deflection	8'-0"	10'-10"	9'-11"		Deflection	6'-9"	9'-1"	8'-4"

VB-31-S Galvalume

18 ga

Ix: 0.394 in^4/ft
Sx: 0.394 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	17'-9"	17'-9"	19'-10"	55	Stress	10'-9"	10'-9"	12'-0"
	Deflection	12'-0"	16'-2"	14'-10"		Deflection	8'-7"	11'-7"	10'-7"
25	Stress	15'-11"	15'-11"	17'-9"	60	Stress	10'-3"	10'-3"	11'-6"
	Deflection	11'-2"	15'-0"	13'-10"		Deflection	8'-4"	11'-3"	10'-4"
30	Stress	14'-6"	14'-6"	16'-3"	65	Stress	9'-10"	9'-10"	11'-0"
	Deflection	10'-6"	14'-2"	13'-0"		Deflection	8'-1"	10'-11"	10'-0"
35	Stress	13'-5"	13'-5"	15'-0"	70	Stress	9'-6"	9'-6"	10'-7"
	Deflection	9'-11"	13'-5"	12'-4"		Deflection	7'-11"	10'-8"	9'-10"
40	Stress	12'-7"	12'-7"	14'-1"	75	Stress	9'-2"	9'-2"	10'-3"
	Deflection	9'-6"	12'-10"	11'-10"		Deflection	7'-9"	10'-5"	9'-7"
45	Stress	11'-10"	11'-10"	13'-3"	80	Stress	8'-11"	8'-11"	9'-11"
	Deflection	9'-2"	12'-4"	11'-4"		Deflection	7'-7"	10'-2"	9'-4"
50	Stress	11'-3"	11'-3"	12'-7"	85	Stress	8'-7"	8'-7"	9'-8"
	Deflection	8'-10"	11'-11"	10'-11"		Deflection	7'-5"	10'-0"	9'-2"

See page 2 for standard notes

Load / Span Data

VB-31-S Aluminum

0.032 in

Ix: 0.264 in^4/ft
Sx: 0.264 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'-10"	9'-10"	11'-0"	55	Stress	5'-11"	5'-11"	6'-8"
	Deflection	7'-4"	9'-10"	9'-1"		Deflection	5'-3"	7'-1"	6'-6"
25	Stress	8'-10"	8'-10"	9'-10"	60	Stress	5'-8"	5'-8"	6'-4"
	Deflection	6'-9"	9'-2"	8'-5"		Deflection	5'-1"	6'-10"	6'-3"
30	Stress	8'-0"	8'-0"	9'-0"	65	Stress	5'-5"	5'-5"	6'-1"
	Deflection	6'-5"	8'-7"	7'-11"		Deflection	4'-11"	6'-8"	6'-1"
35	Stress	7'-5"	7'-5"	8'-4"	70	Stress	5'-3"	5'-3"	5'-11"
	Deflection	6'-1"	8'-2"	7'-6"		Deflection	4'-10"	6'-6"	6'-0"
40	Stress	6'-11"	6'-11"	7'-9"	75	Stress	5'-1"	5'-1"	5'-8"
	Deflection	5'-10"	7'-10"	7'-2"		Deflection	4'-8"	6'-4"	5'-10"
45	Stress	6'-7"	6'-7"	7'-4"	80	Stress	4'-11"	4'-11"	5'-6"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-7"	6'-3"	5'-9"
50	Stress	6'-3"	6'-3"	6'-11"	85	Stress	4'-9"	4'-9"	5'-4"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-6"	6'-1"	5'-7"

VB-31-S Aluminum

0.040 in

Ix: 0.33 in^4/ft
Sx: 0.33 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'-0"	11'-0"	12'-4"	55	Stress	6'-8"	6'-8"	7'-5"
	Deflection	7'-11"	10'-8"	9'-9"		Deflection	5'-7"	7'-7"	7'-0"
25	Stress	9'-10"	9'-10"	11'-0"	60	Stress	6'-4"	6'-4"	7'-1"
	Deflection	7'-4"	9'-10"	9'-1"		Deflection	5'-6"	7'-4"	6'-9"
30	Stress	9'-0"	9'-0"	10'-0"	65	Stress	6'-1"	6'-1"	6'-10"
	Deflection	6'-11"	9'-3"	8'-6"		Deflection	5'-4"	7'-2"	6'-7"
35	Stress	8'-4"	8'-4"	9'-4"	70	Stress	5'-11"	5'-11"	6'-7"
	Deflection	6'-6"	8'-10"	8'-1"		Deflection	5'-2"	7'-0"	6'-5"
40	Stress	7'-9"	7'-9"	8'-8"	75	Stress	5'-8"	5'-8"	6'-4"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	5'-1"	6'-10"	6'-3"
45	Stress	7'-4"	7'-4"	8'-2"	80	Stress	5'-6"	5'-6"	6'-2"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	5'-0"	6'-8"	6'-2"
50	Stress	6'-11"	6'-11"	7'-9"	85	Stress	5'-4"	5'-4"	6'-0"
	Deflection	5'-10"	7'-10"	7'-2"		Deflection	4'-10"	6'-7"	6'-0"

See page 2 for standard notes

VB-31-S
Aluminum

0.050 in

Ix: 0.413 in^4/ft
Sx: 0.413 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	12'-4"	12'-4"	13'-9"	55	Stress	7'-5"	7'-5"	8'-4"
	Deflection	8'-6"	11'-5"	10'-6"		Deflection	6'-1"	8'-2"	7'-6"
25	Stress	11'-0"	11'-0"	12'-4"	60	Stress	7'-1"	7'-1"	7'-11"
	Deflection	7'-11"	10'-8"	9'-9"		Deflection	5'-11"	7'-11"	7'-4"
30	Stress	10'-1"	10'-1"	11'-3"	65	Stress	6'-10"	6'-10"	7'-8"
	Deflection	7'-5"	10'-0"	9'-2"		Deflection	5'-9"	7'-9"	7'-1"
35	Stress	9'-4"	9'-4"	10'-5"	70	Stress	6'-7"	6'-7"	7'-4"
	Deflection	7'-1"	9'-6"	8'-9"		Deflection	5'-7"	7'-7"	6'-11"
40	Stress	8'-8"	8'-8"	9'-9"	75	Stress	6'-4"	6'-4"	7'-1"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	5'-6"	7'-4"	6'-9"
45	Stress	8'-2"	8'-2"	9'-2"	80	Stress	6'-2"	6'-2"	6'-11"
	Deflection	6'-6"	8'-9"	8'-0"		Deflection	5'-4"	7'-3"	6'-8"
50	Stress	7'-9"	7'-9"	8'-8"	106	Stress	5'-4"	5'-4"	6'-0"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	4'-10"	6'-7"	6'-0"

See page 2 for standard notes

Load / Span Data

VB-36-W Galvalume

24 ga Ix: 0.067 in^4/ft
Sx: 0.136 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'-5"	10'-5"	11'-8"	55	Stress	6'-3"	6'-3"	7'-0"
	Deflection	6'-8"	8'-11"	8'-3"		Deflection	4'-9"	6'-5"	5'-10"
25	Stress	9'-4"	9'-4"	10'-5"	60	Stress	6'-0"	6'-0"	6'-9"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	4'-7"	6'-3"	5'-8"
30	Stress	8'-6"	8'-6"	9'-6"	65	Stress	5'-9"	5'-9"	6'-6"
	Deflection	5'-10"	7'-10"	7'-2"		Deflection	4'-6"	6'-1"	5'-7"
35	Stress	7'-11"	7'-11"	8'-10"	70	Stress	5'-7"	5'-7"	6'-3"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-4"	5'-11"	5'-5"
40	Stress	7'-4"	7'-4"	8'-3"	75	Stress	5'-5"	5'-5"	6'-0"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-3"	5'-9"	5'-4"
45	Stress	6'-11"	6'-11"	7'-9"	80	Stress	5'-3"	5'-3"	5'-10"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	4'-2"	5'-8"	5'-2"
50	Stress	6'-7"	6'-7"	7'-4"	85	Stress	5'-1"	5'-1"	5'-8"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	4'-1"	5'-6"	5'-1"

VB-36-W Galvalume

22 ga Ix: 0.072 in^4/ft
Sx: 0.145 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'-9"	10'-9"	12'-1"	55	Stress	6'-6"	6'-6"	7'-3"
	Deflection	6'-10"	9'-2"	8'-5"		Deflection	4'-10"	6'-7"	6'-0"
25	Stress	9'-8"	9'-8"	10'-9"	60	Stress	6'-3"	6'-3"	6'-11"
	Deflection	6'-4"	8'-6"	7'-10"		Deflection	4'-9"	6'-4"	5'-10"
30	Stress	8'-10"	8'-10"	9'-10"	65	Stress	6'-0"	6'-0"	6'-8"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-7"	6'-2"	5'-8"
35	Stress	8'-2"	8'-2"	9'-1"	70	Stress	5'-9"	5'-9"	6'-5"
	Deflection	5'-8"	7'-7"	7'-0"		Deflection	4'-6"	6'-0"	5'-7"
40	Stress	7'-7"	7'-7"	8'-6"	75	Stress	5'-7"	5'-7"	6'-3"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-4"	5'-11"	5'-5"
45	Stress	7'-2"	7'-2"	8'-0"	80	Stress	5'-5"	5'-5"	6'-0"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-3"	5'-9"	5'-4"
50	Stress	6'-10"	6'-10"	7'-7"	85	Stress	5'-3"	5'-3"	5'-10"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-2"	5'-8"	5'-2"

See page 2 for standard notes

VB-36-W Galvalume

20 ga

Ix: 0.086 in^4/ft
Sx: 0.175 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'-10"	11'-10"	13'-3"	55	Stress	7'-2"	7'-2"	8'-0"
	Deflection	7'-3"	9'-9"	8'-11"		Deflection	5'-2"	6'-11"	6'-5"
25	Stress	10'-7"	10'-7"	11'-10"	60	Stress	6'-10"	6'-10"	7'-8"
	Deflection	6'-8"	9'-0"	8'-4"		Deflection	5'-0"	6'-9"	6'-2"
30	Stress	9'-8"	9'-8"	10'-10"	65	Stress	6'-7"	6'-7"	7'-4"
	Deflection	6'-4"	8'-6"	7'-10"		Deflection	4'-10"	6'-7"	6'-0"
35	Stress	8'-11"	8'-11"	10'-0"	70	Stress	6'-4"	6'-4"	7'-1"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-9"	6'-5"	5'-11"
40	Stress	8'-4"	8'-4"	9'-4"	75	Stress	6'-1"	6'-1"	6'-10"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-8"	6'-3"	5'-9"
45	Stress	7'-11"	7'-11"	8'-10"	80	Stress	5'-11"	5'-11"	6'-7"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-7"	6'-2"	5'-8"
50	Stress	7'-6"	7'-6"	8'-4"	85	Stress	5'-9"	5'-9"	6'-5"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-5"	6'-0"	5'-6"

VB-36-W Galvalume

18 ga

Ix: 0.114 in^4/ft
Sx: 0.23 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	13'-7"	13'-7"	15'-2"	55	Stress	8'-2"	8'-2"	9'-2"
	Deflection	7'-11"	10'-9"	9'-10"		Deflection	5'-8"	7'-8"	7'-0"
25	Stress	12'-1"	12'-1"	13'-7"	60	Stress	7'-10"	7'-10"	8'-9"
	Deflection	7'-4"	9'-11"	9'-2"		Deflection	5'-6"	7'-5"	6'-10"
30	Stress	11'-1"	11'-1"	12'-4"	65	Stress	7'-6"	7'-6"	8'-5"
	Deflection	6'-11"	9'-4"	8'-7"		Deflection	5'-4"	7'-3"	6'-8"
35	Stress	10'-3"	10'-3"	11'-5"	70	Stress	7'-3"	7'-3"	8'-1"
	Deflection	6'-7"	8'-11"	8'-2"		Deflection	5'-3"	7'-1"	6'-6"
40	Stress	9'-7"	9'-7"	10'-9"	75	Stress	7'-0"	7'-0"	7'-10"
	Deflection	6'-4"	8'-6"	7'-10"		Deflection	5'-1"	6'-11"	6'-4"
45	Stress	9'-0"	9'-0"	10'-1"	80	Stress	6'-9"	6'-9"	7'-7"
	Deflection	6'-1"	8'-2"	7'-6"		Deflection	5'-0"	6'-9"	6'-2"
50	Stress	8'-7"	8'-7"	9'-7"	85	Stress	6'-7"	6'-7"	7'-4"
	Deflection	5'-10"	7'-11"	7'-3"		Deflection	4'-11"	6'-7"	6'-1"

See page 2 for standard notes

Load / Span Data

VB-36-W Aluminum

0.032 in

Ix: 0.077 in^4/ft
Sx: 0.156 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'-5"	6'-5"	7'-3"	55	Stress	3'-11"	3'-11"	4'-4"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-5"	4'-8"	4'-3"
25	Stress	5'-9"	5'-9"	6'-5"	60	Stress	3'-9"	3'-9"	4'-2"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	5'-3"	5'-3"	5'-11"	65	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	4'-11"	4'-11"	5'-5"	70	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-2"	4'-4"	3'-11"
40	Stress	4'-7"	4'-7"	5'-1"	75	Stress	3'-4"	3'-4"	3'-9"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
45	Stress	4'-4"	4'-4"	4'-10"	80	Stress	3'-3"	3'-3"	3'-7"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-1"	3'-9"
50	Stress	4'-1"	4'-1"	4'-7"	85	Stress	3'-2"	3'-2"	3'-6"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-0"	3'-8"

VB-36-W Aluminum

0.040 in

Ix: 0.096 in^4/ft
Sx: 0.191 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'-2"	6'-2"	6'-11"	55	Stress	3'-9"	3'-9"	4'-2"
	Deflection	5'-3"	7'-0"	6'-6"		Deflection	3'-9"	5'-0"	4'-7"
25	Stress	5'-6"	5'-6"	6'-2"	60	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-7"	4'-11"	4'-6"
30	Stress	5'-1"	5'-1"	5'-8"	65	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-6"	4'-9"	4'-4"
35	Stress	4'-8"	4'-8"	5'-3"	70	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-5"	4'-8"	4'-3"
40	Stress	4'-4"	4'-4"	4'-11"	75	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-4"	4'-6"	4'-2"
45	Stress	4'-1"	4'-1"	4'-7"	80	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-3"	4'-5"	4'-1"
50	Stress	3'-11"	3'-11"	4'-4"	85	Stress	3'-0"	3'-0"	3'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-3"	4'-4"	4'-0"

See page 2 for standard notes

VB-36-W
Aluminum

0.050 in

Ix: 0.104 in^4/ft
Sx: 0.209 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'-5"	7'-5"	8'-4"	55	Stress	4'-6"	4'-6"	5'-0"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	6'-8"	6'-8"	7'-5"	60	Stress	4'-4"	4'-4"	4'-10"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-9"	5'-0"	4'-7"
30	Stress	6'-1"	6'-1"	6'-10"	65	Stress	4'-2"	4'-2"	4'-7"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-7"	4'-11"	4'-6"
35	Stress	5'-8"	5'-8"	6'-4"	70	Stress	3'-12"	3'-12"	4'-5"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-5"
40	Stress	5'-3"	5'-3"	5'-11"	75	Stress	3'-10"	3'-10"	4'-4"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	5'-0"	5'-0"	5'-7"	80	Stress	3'-9"	3'-9"	4'-2"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-5"	4'-7"	4'-2"
50	Stress	4'-9"	4'-9"	5'-3"	85	Stress	3'-7"	3'-7"	4'-1"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-4"	4'-6"	4'-1"

See page 2 for standard notes

Load / Span Data

Y-29-W Galvalume

24 ga — Ix: 0.124 in^4/ft, Sx: 0.153 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'-1"	11'-1"	12'-4"	55	Stress	6'-8"	6'-8"	7'-6"
	Deflection	8'-2"	11'-0"	10'-1"		Deflection	5'-10"	7'-10"	7'-3"
25	Stress	9'-11"	9'-11"	11'-1"	60	Stress	6'-5"	6'-5"	7'-2"
	Deflection	7'-7"	10'-3"	9'-5"		Deflection	5'-8"	7'-8"	7'-0"
30	Stress	9'-0"	9'-0"	10'-1"	65	Stress	6'-2"	6'-2"	6'-10"
	Deflection	7'-1"	9'-7"	8'-10"		Deflection	5'-6"	7'-5"	6'-10"
35	Stress	8'-4"	8'-4"	9'-4"	70	Stress	5'-11"	5'-11"	6'-7"
	Deflection	6'-9"	9'-2"	8'-5"		Deflection	5'-4"	7'-3"	6'-8"
40	Stress	7'-10"	7'-10"	8'-9"	75	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-6"	8'-9"	8'-0"		Deflection	5'-3"	7'-1"	6'-6"
45	Stress	7'-5"	7'-5"	8'-3"	80	Stress	5'-6"	5'-6"	6'-2"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	5'-2"	6'-11"	6'-4"
50	Stress	7'-0"	7'-0"	7'-10"	85	Stress	5'-4"	5'-4"	6'-0"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	5'-0"	6'-10"	6'-3"

Y-29-W Galvalume

22 ga — Ix: 0.155 in^4/ft, Sx: 0.191 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	12'-4"	12'-4"	13'-10"	55	Stress	7'-5"	7'-5"	8'-4"
	Deflection	8'-9"	11'-10"	10'-11"		Deflection	6'-3"	8'-6"	7'-9"
25	Stress	11'-1"	11'-1"	12'-4"	60	Stress	7'-2"	7'-2"	8'-0"
	Deflection	8'-2"	11'-0"	10'-1"		Deflection	6'-1"	8'-3"	7'-7"
30	Stress	10'-1"	10'-1"	11'-3"	65	Stress	6'-10"	6'-10"	7'-8"
	Deflection	7'-8"	10'-4"	9'-6"		Deflection	5'-11"	8'-0"	7'-4"
35	Stress	9'-4"	9'-4"	10'-5"	70	Stress	6'-7"	6'-7"	7'-5"
	Deflection	7'-3"	9'-10"	9'-0"		Deflection	5'-9"	7'-10"	7'-2"
40	Stress	8'-9"	8'-9"	9'-9"	75	Stress	6'-5"	6'-5"	7'-2"
	Deflection	7'-0"	9'-5"	8'-8"		Deflection	5'-8"	7'-8"	7'-0"
45	Stress	8'-3"	8'-3"	9'-2"	80	Stress	6'-2"	6'-2"	6'-11"
	Deflection	6'-8"	9'-1"	8'-4"		Deflection	5'-6"	7'-6"	6'-10"
50	Stress	7'-10"	7'-10"	8'-9"	85	Stress	6'-0"	6'-0"	6'-8"
	Deflection	6'-6"	8'-9"	8'-0"		Deflection	5'-5"	7'-4"	6'-9"

See page 2 for standard notes

Y-29-W Galvalume

20 ga

Ix: 0.186 in^4/ft
Sx: 0.228 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	13'-6"	13'-6"	15'-1"	55	Stress	8'-2"	8'-2"	9'-1"
	Deflection	9'-4"	12'-7"	11'-7"		Deflection	6'-8"	9'-0"	8'-3"
25	Stress	12'-1"	12'-1"	13'-6"	60	Stress	7'-10"	7'-10"	8'-9"
	Deflection	8'-8"	11'-8"	10'-9"		Deflection	6'-6"	8'-9"	8'-0"
30	Stress	11'-0"	11'-0"	12'-4"	65	Stress	7'-6"	7'-6"	8'-5"
	Deflection	8'-2"	11'-0"	10'-1"		Deflection	6'-4"	8'-6"	7'-10"
35	Stress	10'-3"	10'-3"	11'-5"	70	Stress	7'-3"	7'-3"	8'-1"
	Deflection	7'-9"	10'-6"	9'-7"		Deflection	6'-2"	8'-4"	7'-7"
40	Stress	9'-7"	9'-7"	10'-8"	75	Stress	7'-0"	7'-0"	7'-10"
	Deflection	7'-5"	10'-0"	9'-2"		Deflection	6'-0"	8'-1"	7'-5"
45	Stress	9'-0"	9'-0"	10'-1"	80	Stress	6'-9"	6'-9"	7'-7"
	Deflection	7'-1"	9'-7"	8'-10"		Deflection	5'-11"	7'-11"	7'-4"
50	Stress	8'-6"	8'-6"	9'-7"	85	Stress	6'-7"	6'-7"	7'-4"
	Deflection	6'-11"	9'-3"	8'-6"		Deflection	5'-9"	7'-9"	7'-2"

Y-29-W Galvalume

18 ga

Ix: 0.248 in^4/ft
Sx: 0.301 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	15'-6"	15'-6"	17'-4"	55	Stress	9'-4"	9'-4"	10'-6"
	Deflection	10'-3"	13'-10"	12'-9"		Deflection	7'-4"	9'-11"	9'-1"
25	Stress	13'-11"	13'-11"	15'-6"	60	Stress	9'-0"	9'-0"	10'-0"
	Deflection	9'-6"	12'-10"	11'-10"		Deflection	7'-1"	9'-7"	8'-10"
30	Stress	12'-8"	12'-8"	14'-2"	65	Stress	8'-7"	8'-7"	9'-8"
	Deflection	9'-0"	12'-1"	11'-2"		Deflection	6'-11"	9'-4"	8'-7"
35	Stress	11'-9"	11'-9"	13'-1"	70	Stress	8'-4"	8'-4"	9'-3"
	Deflection	8'-6"	11'-6"	10'-7"		Deflection	6'-9"	9'-2"	8'-5"
40	Stress	11'-0"	11'-0"	12'-3"	75	Stress	8'-0"	8'-0"	9'-0"
	Deflection	8'-2"	11'-0"	10'-1"		Deflection	6'-7"	8'-11"	8'-2"
45	Stress	10'-4"	10'-4"	11'-7"	80	Stress	7'-9"	7'-9"	8'-8"
	Deflection	7'-10"	10'-7"	9'-9"		Deflection	6'-6"	8'-9"	8'-0"
50	Stress	9'-10"	9'-10"	11'-0"	85	Stress	7'-6"	7'-6"	8'-5"
	Deflection	7'-7"	10'-3"	9'-5"		Deflection	6'-4"	8'-7"	7'-10"

See page 2 for standard notes

Load / Span Data

Y-29-W Aluminum

0.032 in

Ix: 0.166 in^4/ft
Sx: 0.204 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'-1"	6'-1"	6'-10"	55	Stress	3'-8"	3'-8"	4'-1"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	4'-6"	6'-0"	5'-7"
25	Stress	5'-5"	5'-5"	6'-1"	60	Stress	3'-6"	3'-6"	3'-11"
	Deflection	5'-10"	7'-10"	7'-3"		Deflection	4'-4"	5'-10"	5'-5"
30	Stress	5'-0"	5'-0"	5'-7"	65	Stress	3'-4"	3'-4"	3'-9"
	Deflection	5'-6"	7'-5"	6'-9"		Deflection	4'-3"	5'-9"	5'-3"
35	Stress	4'-7"	4'-7"	5'-2"	70	Stress	3'-3"	3'-3"	3'-8"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-2"	5'-7"	5'-1"
40	Stress	4'-4"	4'-4"	4'-10"	75	Stress	3'-2"	3'-2"	3'-6"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-0"	5'-5"	5'-0"
45	Stress	4'-1"	4'-1"	4'-6"	80	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-11"	5'-4"	4'-11"
50	Stress	3'-10"	3'-10"	4'-4"	85	Stress	2'-11"	2'-11"	3'-4"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-10"	5'-3"	4'-10"

Y-29-W Aluminum

0.040 in

Ix: 0.208 in^4/ft
Sx: 0.255 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'-10"	6'-10"	7'-7"	55	Stress	4'-1"	4'-1"	4'-7"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	4'-10"	6'-6"	6'-0"
25	Stress	6'-1"	6'-1"	6'-10"	60	Stress	3'-11"	3'-11"	4'-5"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	4'-8"	6'-4"	5'-10"
30	Stress	5'-7"	5'-7"	6'-3"	65	Stress	3'-9"	3'-9"	4'-3"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-7"	6'-2"	5'-8"
35	Stress	5'-2"	5'-2"	5'-9"	70	Stress	3'-8"	3'-8"	4'-1"
	Deflection	5'-7"	7'-7"	6'-11"		Deflection	4'-5"	6'-0"	5'-6"
40	Stress	4'-10"	4'-10"	5'-5"	75	Stress	3'-6"	3'-6"	3'-11"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-4"	5'-10"	5'-5"
45	Stress	4'-6"	4'-6"	5'-1"	80	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	4'-3"	5'-9"	5'-3"
50	Stress	4'-4"	4'-4"	4'-10"	85	Stress	3'-4"	3'-4"	3'-8"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-2"	5'-7"	5'-2"

See page 2 for standard notes

Y-29-W
Aluminum

0.050 in

Ix: 0.259 in^4/ft
Sx: 0.314 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'-7"	7'-7"	8'-5"	55	Stress	4'-7"	4'-7"	5'-1"
	Deflection	7'-3"	9'-10"	9'-0"		Deflection	5'-2"	7'-0"	6'-5"
25	Stress	6'-9"	6'-9"	7'-7"	60	Stress	4'-4"	4'-4"	4'-11"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	5'-0"	6'-10"	6'-3"
30	Stress	6'-2"	6'-2"	6'-11"	65	Stress	4'-2"	4'-2"	4'-8"
	Deflection	6'-4"	8'-7"	7'-10"		Deflection	4'-11"	6'-7"	6'-1"
35	Stress	5'-9"	5'-9"	6'-5"	70	Stress	4'-0"	4'-0"	4'-6"
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	4'-9"	6'-6"	5'-11"
40	Stress	5'-4"	5'-4"	6'-0"	75	Stress	3'-11"	3'-11"	4'-4"
	Deflection	5'-9"	7'-9"	7'-2"		Deflection	4'-8"	6'-4"	5'-10"
45	Stress	5'-0"	5'-0"	5'-8"	80	Stress	3'-9"	3'-9"	4'-3"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-7"	6'-2"	5'-8"
50	Stress	4'-9"	4'-9"	5'-4"	85	Stress	3'-8"	3'-8"	4'-1"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-6"	6'-1"	5'-7"

See page 2 for standard notes

Load / Span Data

Y-36-W Galvalume

24 ga — Ix: 0.11 in^4/ft, Sx: 0.148 in^3/ft

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

Y-36-W Galvalume

22 ga — Ix: 0.138 in^4/ft, Sx: 0.184 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	12'-2"	12'-2"	13'-7"	55	Stress	7'-4"	7'-4"	8'-2"
	Deflection	8'-5"	11'-5"	10'-6"		Deflection	6'-0"	8'-2"	7'-6"
25	Stress	10'-10"	10'-10"	12'-2"	60	Stress	7'-0"	7'-0"	7'-10"
	Deflection	7'-10"	10'-7"	9'-9"		Deflection	5'-10"	7'-11"	7'-3"
30	Stress	9'-11"	9'-11"	11'-1"	65	Stress	6'-9"	6'-9"	7'-6"
	Deflection	7'-5"	9'-11"	9'-2"		Deflection	5'-8"	7'-8"	7'-1"
35	Stress	9'-2"	9'-2"	10'-3"	70	Stress	6'-6"	6'-6"	7'-3"
	Deflection	7'-0"	9'-5"	8'-8"		Deflection	5'-7"	7'-6"	6'-11"
40	Stress	8'-7"	8'-7"	9'-7"	75	Stress	6'-3"	6'-3"	7'-0"
	Deflection	6'-8"	9'-1"	8'-4"		Deflection	5'-5"	7'-4"	6'-9"
45	Stress	8'-1"	8'-1"	9'-0"	80	Stress	6'-1"	6'-1"	6'-9"
	Deflection	6'-5"	8'-8"	8'-0"		Deflection	5'-4"	7'-2"	6'-7"
50	Stress	7'-8"	7'-8"	8'-7"	85	Stress	5'-11"	5'-11"	6'-7"
	Deflection	6'-3"	8'-5"	7'-9"		Deflection	5'-3"	7'-0"	6'-6"

See page 2 for standard notes

Y-36-W Galvalume

20 ga — Ix: 0.166 in^4/ft, Sx: 0.22 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	13'-3"	13'-3"	14'-10"	55	Stress	8'-0"	8'-0"	8'-11"
	Deflection	9'-0"	12'-1"	11'-2"		Deflection	6'-5"	8'-8"	7'-11"
25	Stress	11'-10"	11'-10"	13'-3"	60	Stress	7'-8"	7'-8"	8'-7"
	Deflection	8'-4"	11'-3"	10'-4"		Deflection	6'-3"	8'-5"	7'-9"
30	Stress	10'-10"	10'-10"	12'-1"	65	Stress	7'-4"	7'-4"	8'-3"
	Deflection	7'-10"	10'-7"	9'-9"		Deflection	6'-1"	8'-2"	7'-6"
35	Stress	10'-0"	10'-0"	11'-3"	70	Stress	7'-1"	7'-1"	7'-11"
	Deflection	7'-5"	10'-1"	9'-3"		Deflection	5'-11"	8'-0"	7'-4"
40	Stress	9'-5"	9'-5"	10'-6"	75	Stress	6'-10"	6'-10"	7'-8"
	Deflection	7'-2"	9'-7"	8'-10"		Deflection	5'-9"	7'-10"	7'-2"
45	Stress	8'-10"	8'-10"	9'-11"	80	Stress	6'-8"	6'-8"	7'-5"
	Deflection	6'-10"	9'-3"	8'-6"		Deflection	5'-8"	7'-8"	7'-0"
50	Stress	8'-5"	8'-5"	9'-5"	85	Stress	6'-5"	6'-5"	7'-2"
	Deflection	6'-7"	8'-11"	8'-2"		Deflection	5'-7"	7'-6"	6'-10"

Y-36-W Galvalume

18 ga — Ix: 0.2305 in^4/ft, Sx: 0.2971 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	15'-5"	15'-5"	17'-3"	55	Stress	9'-4"	9'-4"	10'-5"
	Deflection	10'-0"	13'-6"	12'-5"		Deflection	7'-2"	9'-8"	8'-10"
25	Stress	13'-9"	13'-9"	15'-5"	60	Stress	8'-11"	8'-11"	9'-11"
	Deflection	9'-4"	12'-7"	11'-6"		Deflection	6'-11"	9'-5"	8'-7"
30	Stress	12'-7"	12'-7"	14'-1"	65	Stress	8'-7"	8'-7"	9'-7"
	Deflection	8'-9"	11'-10"	10'-10"		Deflection	6'-9"	9'-2"	8'-5"
35	Stress	11'-8"	11'-8"	13'-0"	70	Stress	8'-3"	8'-3"	9'-3"
	Deflection	8'-4"	11'-3"	10'-4"		Deflection	6'-7"	8'-11"	8'-2"
40	Stress	10'-11"	10'-11"	12'-2"	75	Stress	7'-12"	7'-12"	8'-11"
	Deflection	7'-11"	10'-9"	9'-10"		Deflection	6'-5"	8'-9"	8'-0"
45	Stress	10'-3"	10'-3"	11'-6"	80	Stress	7'-9"	7'-9"	8'-7"
	Deflection	7'-8"	10'-4"	9'-6"		Deflection	6'-4"	8'-6"	7'-10"
50	Stress	9'-9"	9'-9"	10'-11"	85	Stress	7'-6"	7'-6"	8'-4"
	Deflection	7'-5"	10'-0"	9'-2"		Deflection	6'-2"	8'-4"	7'-8"

See page 2 for standard notes

Load / Span Data

Y-36-W Aluminum

0.032 in

Ix: 0.147 in^4/ft
Sx: 0.197 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'-0"	6'-0"	6'-8"	55	Stress	3'-7"	3'-7"	4'-0"
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	4'-4"	5'-10"	5'-4"
25	Stress	5'-4"	5'-4"	6'-0"	60	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-7"	7'-7"	6'-11"		Deflection	4'-2"	5'-8"	5'-2"
30	Stress	4'-11"	4'-11"	5'-5"	65	Stress	3'-4"	3'-4"	3'-8"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-1"	5'-6"	5'-0"
35	Stress	4'-6"	4'-6"	5'-1"	70	Stress	3'-2"	3'-2"	3'-7"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-0"	5'-4"	4'-11"
40	Stress	4'-3"	4'-3"	4'-9"	75	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-11"	5'-3"	4'-10"
45	Stress	4'-0"	4'-0"	4'-5"	80	Stress	2'-12"	2'-12"	3'-4"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-10"	5'-1"	4'-8"
50	Stress	3'-9"	3'-9"	4'-3"	85	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-9"	5'-0"	4'-7"

Y-36-W Aluminum

0.040 in

Ix: 0.184 in^4/ft
Sx: 0.244 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'-8"	6'-8"	7'-5"	55	Stress	4'-0"	4'-0"	4'-6"
	Deflection	6'-6"	8'-9"	8'-1"		Deflection	4'-8"	6'-3"	5'-9"
25	Stress	6'-0"	6'-0"	6'-8"	60	Stress	3'-10"	3'-10"	4'-4"
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	4'-6"	6'-1"	5'-7"
30	Stress	5'-5"	5'-5"	6'-1"	65	Stress	3'-8"	3'-8"	4'-2"
	Deflection	5'-8"	7'-8"	7'-0"		Deflection	4'-5"	5'-11"	5'-5"
35	Stress	5'-0"	5'-0"	5'-8"	70	Stress	3'-7"	3'-7"	4'-0"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-3"	5'-9"	5'-4"
40	Stress	4'-9"	4'-9"	5'-3"	75	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	4'-2"	5'-8"	5'-2"
45	Stress	4'-5"	4'-5"	5'-0"	80	Stress	3'-4"	3'-4"	3'-9"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	4'-1"	5'-6"	5'-1"
50	Stress	4'-3"	4'-3"	4'-9"	85	Stress	3'-3"	3'-3"	3'-7"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	4'-0"	5'-5"	5'-0"

See page 2 for standard notes

Y-36-W
Aluminum

0.050 in

Ix: 0.23 in^4/ft
Sx: 0.303 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'-4"	9'-4"	10'-5"	55	Stress	5'-7"	5'-7"	6'-3"
	Deflection	7'-0"	9'-5"	8'-8"		Deflection	5'-0"	6'-9"	6'-2"
25	Stress	8'-4"	8'-4"	9'-4"	60	Stress	5'-4"	5'-4"	6'-0"
	Deflection	6'-6"	8'-9"	8'-0"		Deflection	4'-10"	6'-6"	6'-0"
30	Stress	7'-7"	7'-7"	8'-6"	65	Stress	5'-2"	5'-2"	5'-9"
	Deflection	6'-1"	8'-3"	7'-7"		Deflection	4'-9"	6'-4"	5'-10"
35	Stress	7'-0"	7'-0"	7'-10"	70	Stress	4'-12"	4'-12"	5'-7"
	Deflection	5'-10"	7'-10"	7'-2"		Deflection	4'-7"	6'-3"	5'-8"
40	Stress	6'-7"	6'-7"	7'-4"	75	Stress	4'-10"	4'-10"	5'-4"
	Deflection	5'-7"	7'-6"	6'-10"		Deflection	4'-6"	6'-1"	5'-7"
45	Stress	6'-2"	6'-2"	6'-11"	80	Stress	4'-8"	4'-8"	5'-2"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-5"	5'-11"	5'-5"
50	Stress	5'-11"	5'-11"	6'-7"	85	Stress	4'-6"	4'-6"	5'-1"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	4'-4"	5'-10"	5'-4"

See page 2 for standard notes

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