Metal Wall & Roof Systems
North America

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Morin Integrity Series Perforated Metal Wall System Span Charts

Innovative Single Element Building Envelope Solution



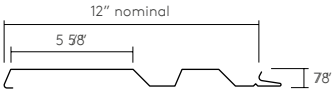
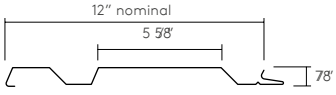
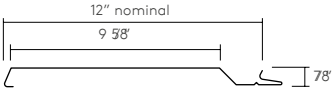
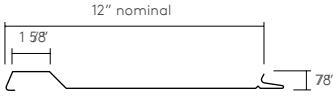
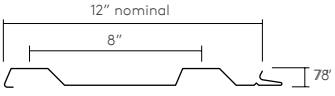
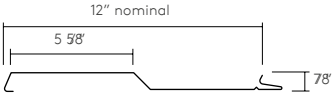
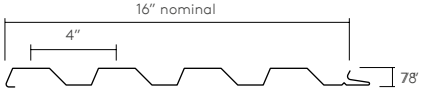
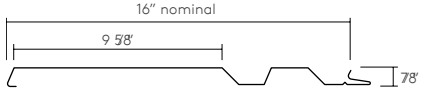
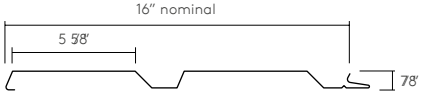
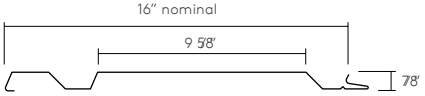
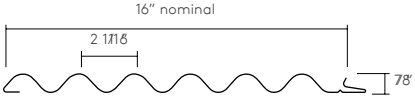
PLANET PASSIONATE

Morin® By Kingspan

Product Data

Morin Integrity Series Perforated Range

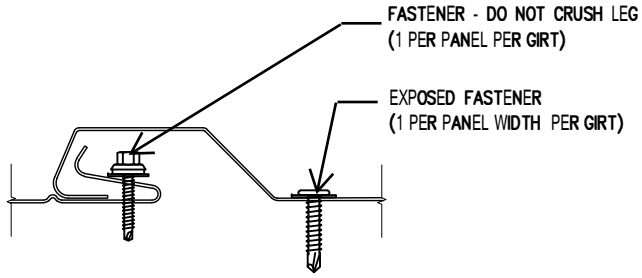
The Morin Integrity Series is a concealed fastener rainscreen/wall panel system. With a consistent depth of 7/8", it offers a minimalist design solution. Integrity Series offers 13 unique profiles featuring an asymmetrical box rib in varying configuration.

Profile Options	
Integrity X-12 	**Integrity XA-12** 
Integrity XB-12 	**Integrity XC-12** 
Integrity XD-12 	**Integrity XE-12** 
Integrity XF-12 	**Integrity XG-12** 
Integrity X-16 	**Integrity XA-16** 
Integrity XAB-16 	**Integrity XB-16** 
Integrity S-16 	

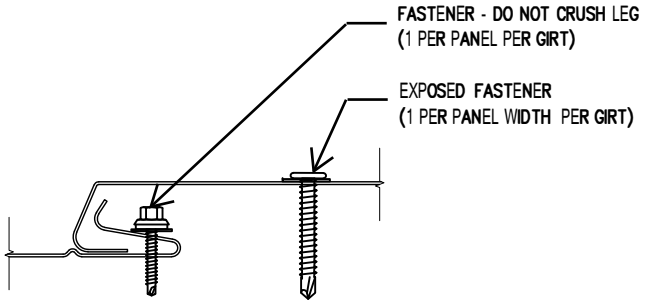
Available Lengths

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

Shorter and longer lengths available on request.



X–12, X–16, XB–12, XB–16, XD–12, XE–12, AND XF–12



XA–12, XC–12, XG–12, XA–16, AND XAB–16

HWH FASTENER OR PANCAKE HEAD FASTENER W/ STANDARD 5/8" WASHER UP TO 3/16" HOLE SIZE OR OVERSIZED 1 1/8" WASHER FOR HOLE LARGER THAN 3/16" AS REQ'D FOR TYPICAL FASTENING ASSEMBLY FOR ALL INTEGRITY PANELS

Standard Notes:

1. Numbers in the tables indicate clear span distance between the structural supports. Section properties listed are for the perforated base sheet.
2. Load and span values listed do not include consideration of fastener with washer/oversize washer (which are required for attachment), to be determined by qualified personnel.
3. Refer to above details for required exposed fastening layout of perforated panels.
4. MIP clips are not required for perforated panels.
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. Aluminum material confirming to 3003-H14; reach out to Morin technical for anodized (5005-H34) or any other Aluminum material
8. For project specific calculations, please contact Morin Technical Services at 800-640-9501.

Load / Span Data

X-12
Aluminum Perforated

0.032 in

Ix: 0.0501 in^4/ft
Sx: 0.1031 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'-6"	4'-6"	5'-1"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	4'-1"	4'-1"	4'-6"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-8"	3'-8"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-8"	4'-11"	4'-7"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	3'-3"	3'-3"	3'-7"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-8"	3'-4"
45	Stress	3'-0"	3'-0"	3'-5"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	2'-10"	2'-10"	3'-3"	85	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

X-12
Aluminum Perforated

0.032 in

Ix: 0.0379 in^4/ft
Sx: 0.077 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'-11"	3'-11"	4'-5"	55	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-3"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-2"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-12"	1'-12"	2'-2"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

See page 3 for standard notes

X-12
Aluminum Perforated

0.032 in

Ix: 0.0312 in^4/ft
Sx: 0.0659 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'-8"	3'-8"	4'-1"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

X-12
Aluminum Perforated

0.032 in

Ix: 0.0283 in^4/ft
Sx: 0.0616 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-9"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

Load / Span Data

X-12
Aluminum Perforated

0.032 in

Ix: 0.0222 in^4/ft
Sx: 0.0512 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'-2"	3'-2"	3'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-3"	3'-1"	2'-10"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-9"	2'-7"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	2'-0"	2'-8"	2'-5"

X-12
Aluminum Perforated

0.032 in

Ix: 0.0147 in^4/ft
Sx: 0.0385 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'-9"	2'-9"	3'-1"	55	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-9"	3'-6"		Deflection	2'-0"	2'-8"	2'-6"
25	Stress	2'-6"	2'-6"	2'-9"	60	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-7"	2'-5"
30	Stress	2'-3"	2'-3"	2'-6"	65	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-4"	3'-2"	2'-10"		Deflection	1'-10"	2'-6"	2'-3"
40	Stress	2'-0"	2'-0"	2'-2"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	1'-10"	1'-10"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-4"	2'-2"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-1"	2'-9"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

See page 3 for standard notes

X-12
Aluminum Perforated

0.040 in

Ix: 0.0626 in^4/ft
Sx: 0.124 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'-0"	5'-0"	5'-7"	55	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	4'-5"	4'-5"	5'-0"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	4'-1"	4'-1"	4'-7"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-9"
35	Stress	3'-9"	3'-9"	4'-3"	70	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	3'-4"	3'-4"	3'-9"	80	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	3'-2"	3'-2"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-9"	3'-6"

X-12
Aluminum Perforated

0.040 in

Ix: 0.0473 in^4/ft
Sx: 0.0954 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'-4"	4'-4"	4'-11"	55	Stress	2'-8"	2'-8"	2'-11"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	2'-11"	4'-0"	3'-8"
25	Stress	3'-11"	3'-11"	4'-4"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-10"	3'-10"	3'-7"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-9"	3'-9"	3'-5"
35	Stress	3'-4"	3'-4"	3'-8"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-8"	3'-4"
40	Stress	3'-1"	3'-1"	3'-5"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-3"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

See page 3 for standard notes

Load / Span Data

X-12
Aluminum Perforated

0.040 in

Ix: 0.039 in^4/ft
Sx: 0.082 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'-1"	4'-1"	4'-6"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-7"	3'-7"	4'-1"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	3'-4"	3'-4"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-7"	3'-5"	3'-2"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	1'-12"	1'-12"	2'-2"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	3'-0"

X-12
Aluminum Perforated

0.040 in

Ix: 0.0354 in^4/ft
Sx: 0.0763 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'-11"	3'-11"	4'-4"	55	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-8"	3'-7"	3'-4"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-7"	3'-6"	3'-3"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-6"	3'-5"	3'-2"
35	Stress	2'-11"	2'-11"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-1"	2'-10"

See page 3 for standard notes

X-12
Aluminum Perforated

0.040 in

Ix: 0.0277 in^4/ft
Sx: 0.0635 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'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-2"	2'-10"	2'-8"

X-12
Aluminum Perforated

0.040 in

Ix: 0.0183 in^4/ft
Sx: 0.0477 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'-1"	3'-1"	3'-5"	55	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-9"	3'-9"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-6"	2'-6"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-0"	2'-9"	2'-6"
35	Stress	2'-4"	2'-4"	2'-7"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-8"	2'-5"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-7"	2'-5"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-11"	1'-11"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

See page 3 for standard notes

Load / Span Data

X-12
Aluminum Perforated

0.050 in

Ix: 0.078 in^4/ft
Sx: 0.1578 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'-7"	5'-7"	6'-3"	55	Stress	3'-5"	3'-5"	3'-9"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-6"	4'-8"	4'-4"
25	Stress	5'-0"	5'-0"	5'-7"	60	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-5"	4'-7"	4'-2"
30	Stress	4'-7"	4'-7"	5'-2"	65	Stress	3'-1"	3'-1"	3'-6"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	4'-3"	4'-3"	4'-9"	70	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-1"	5'-5"	5'-0"		Deflection	3'-3"	4'-4"	4'-0"
40	Stress	4'-0"	4'-0"	4'-5"	75	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	3'-2"	4'-3"	3'-11"
45	Stress	3'-9"	3'-9"	4'-2"	80	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"
50	Stress	3'-7"	3'-7"	4'-0"	85	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-1"	3'-9"

X-12
Aluminum Perforated

0.050 in

Ix: 0.059 in^4/ft
Sx: 0.1178 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'-10"	4'-10"	5'-5"	55	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-2"	4'-3"	3'-11"
25	Stress	4'-4"	4'-4"	4'-10"	60	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	4'-0"	4'-0"	4'-5"	65	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	3'-8"	3'-8"	4'-1"	70	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-11"	3'-11"	3'-7"
40	Stress	3'-5"	3'-5"	3'-10"	75	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-10"	3'-10"	3'-7"
45	Stress	3'-3"	3'-3"	3'-7"	80	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-10"	3'-9"	3'-6"
50	Stress	3'-1"	3'-1"	3'-5"	85	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-9"	3'-8"	3'-5"

See page 3 for standard notes

X-12
Aluminum Perforated

0.050 in

Ix: 0.0486 in^4/ft
Sx: 0.1008 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'-6"	4'-6"	5'-0"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	4'-0"	4'-0"	4'-6"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-8"	3'-8"	4'-1"	65	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	3'-2"	3'-2"	3'-7"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	3'-0"	3'-0"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

X-12
Aluminum Perforated

0.050 in

Ix: 0.044 in^4/ft
Sx: 0.0942 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'-4"	4'-4"	4'-10"	55	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	2'-10"	3'-11"	3'-7"
25	Stress	3'-11"	3'-11"	4'-4"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-9"	3'-9"	3'-6"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-8"	3'-4"
35	Stress	3'-3"	3'-3"	3'-8"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-7"	3'-3"
40	Stress	3'-1"	3'-1"	3'-5"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-2"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-6"	3'-4"	3'-1"

See page 3 for standard notes

Load / Span Data

X-12
Aluminum Perforated

0.050 in

Ix: 0.0346 in^4/ft
Sx: 0.0784 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'-0"	4'-0"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-8"	3'-7"	3'-3"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-7"	3'-6"	3'-2"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-6"	3'-5"	3'-1"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-4"	3'-0"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-3"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	1'-12"	1'-12"	2'-3"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-4"	3'-1"	2'-10"

X-12
Aluminum Perforated

0.050 in

Ix: 0.0229 in^4/ft
Sx: 0.0589 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'-5"	3'-5"	3'-10"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-4"	3'-1"	2'-10"
25	Stress	3'-1"	3'-1"	3'-5"	60	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-7"	2'-7"	2'-11"	70	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
40	Stress	2'-5"	2'-5"	2'-9"	75	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	2'-3"	2'-3"	2'-7"	80	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-5"	3'-3"	2'-11"		Deflection	2'-0"	2'-8"	2'-6"

See page 3 for standard notes

X-16
Aluminum Perforated

0.032 in

Ix: 0.0395 in^4/ft
Sx: 0.0913 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'-3"	4'-3"	4'-9"	55	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-10"	3'-10"	4'-3"	60	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-6"	3'-6"	3'-11"	65	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	3'-3"	3'-3"	3'-7"	70	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-5"	3'-2"
40	Stress	3'-0"	3'-0"	3'-5"	75	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

X-16
Aluminum Perforated

0.032 in

Ix: 0.0299 in^4/ft
Sx: 0.0681 in^3/ft
Perforation: 20%

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

See page 3 for standard notes

Load / Span Data

X-16
Aluminum Perforated

0.032 in

Ix: 0.0246 in^4/ft
Sx: 0.0583 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'-5"	3'-5"	3'-10"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-4"	3'-2"	2'-11"
25	Stress	3'-1"	3'-1"	3'-5"	60	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-1"	2'-10"
30	Stress	2'-9"	2'-9"	3'-1"	65	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-0"	2'-9"
35	Stress	2'-7"	2'-7"	2'-11"	70	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	2'-11"	2'-9"
40	Stress	2'-5"	2'-5"	2'-8"	75	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	2'-3"	2'-3"	2'-7"	80	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-1"	2'-9"	2'-6"

X-16
Aluminum Perforated

0.032 in

Ix: 0.0223 in^4/ft
Sx: 0.0545 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'-4"	3'-4"	3'-8"	55	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-3"	3'-1"	2'-10"
25	Stress	2'-11"	2'-11"	3'-4"	60	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-9"	2'-7"
45	Stress	2'-2"	2'-2"	2'-6"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	2'-0"	2'-8"	2'-5"

See page 3 for standard notes

X-16
Aluminum Perforated

0.032 in

Ix: 0.0175 in^4/ft
Sx: 0.0453 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'-0"	3'-0"	3'-4"	55	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-1"	2'-10"	2'-7"
25	Stress	2'-8"	2'-8"	3'-0"	60	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-1"	2'-9"	2'-7"
30	Stress	2'-5"	2'-5"	2'-9"	65	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-0"	2'-8"	2'-6"
35	Stress	2'-3"	2'-3"	2'-7"	70	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-5"	3'-4"	3'-1"		Deflection	1'-11"	2'-8"	2'-5"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-7"	2'-4"
45	Stress	2'-0"	2'-0"	2'-3"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-10"	2'-6"	2'-4"
50	Stress	1'-11"	1'-11"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-10"	2'-6"	2'-3"

X-16
Aluminum Perforated

0.032 in

Ix: 0.0116 in^4/ft
Sx: 0.0341 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'-7"	2'-7"	2'-11"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	1'-10"	2'-6"	2'-3"
25	Stress	2'-4"	2'-4"	2'-7"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-9"	2'-5"	2'-3"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-9"	2'-4"	2'-2"
35	Stress	2'-0"	2'-0"	2'-2"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-8"	2'-4"	2'-1"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-1"	2'-9"	2'-6"		Deflection	1'-8"	2'-3"	2'-1"
45	Stress	1'-9"	1'-9"	1'-11"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-0"	2'-8"	2'-5"		Deflection	1'-7"	2'-2"	2'-0"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	1'-11"	2'-7"	2'-4"		Deflection	1'-7"	2'-2"	2'-0"

See page 3 for standard notes

Load / Span Data

X-16
Aluminum Perforated

0.040 in

Ix: 0.0494 in^4/ft
Sx: 0.1094 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'-3"	55	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	4'-2"	4'-2"	4'-8"	60	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-10"	3'-10"	4'-3"	65	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-6"	3'-6"	3'-11"	70	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	3'-4"	3'-4"	3'-8"	75	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-8"	3'-8"	3'-4"
45	Stress	3'-1"	3'-1"	3'-6"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	3'-0"	3'-0"	3'-4"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

X-16
Aluminum Perforated

0.040 in

Ix: 0.0373 in^4/ft
Sx: 0.0842 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'-6"	2'-6"	2'-9"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-4"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-6"	4'-9"	4'-5"		Deflection	2'-8"	3'-7"	3'-3"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-2"
35	Stress	3'-1"	3'-1"	3'-6"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-6"	3'-5"	3'-1"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-4"	3'-0"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	1'-12"	1'-12"	2'-3"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

See page 3 for standard notes

X-16
Aluminum Perforated

0.040 in

Ix: 0.0307 in^4/ft
Sx: 0.072 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'-10"	3'-10"	4'-3"	55	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-5"	3'-2"
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	3'-1"	3'-1"	3'-6"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-10"	2'-10"	3'-2"	70	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-8"	2'-8"	3'-0"	75	Stress	1'-12"	1'-12"	2'-2"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-6"	2'-6"	2'-10"	80	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
50	Stress	2'-5"	2'-5"	2'-8"	85	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	3'-0"	2'-9"

X-16
Aluminum Perforated

0.040 in

Ix: 0.0278 in^4/ft
Sx: 0.0673 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'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-12"	1'-12"	2'-2"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

Load / Span Data

X-16
Aluminum Perforated

0.040 in

Ix: 0.0219 in^4/ft
Sx: 0.056 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	3'-2"	4'-4"	3'-11"		Deflection	2'-3"	3'-1"	2'-10"
25	Stress	3'-0"	3'-0"	3'-4"	60	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-9"	2'-9"	3'-1"	65	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-6"	2'-6"	2'-10"	70	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	2'-4"	2'-4"	2'-8"	75	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-1"	2'-9"	2'-7"
45	Stress	2'-3"	2'-3"	2'-6"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	2'-0"	2'-8"	2'-5"

X-16
Aluminum Perforated

0.040 in

Ix: 0.0145 in^4/ft
Sx: 0.0421 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'-9"	3'-9"	3'-5"		Deflection	2'-0"	2'-8"	2'-5"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	1'-11"	2'-7"	2'-5"
30	Stress	2'-4"	2'-4"	2'-8"	65	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-10"	2'-6"	2'-4"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-10"	2'-6"	2'-3"
40	Stress	2'-1"	2'-1"	2'-4"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-2"	3'-0"	2'-9"		Deflection	1'-9"	2'-5"	2'-3"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-1"	2'-10"	2'-8"		Deflection	1'-9"	2'-4"	2'-2"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-1"	2'-9"	2'-6"		Deflection	1'-9"	2'-4"	2'-2"

See page 3 for standard notes

X-16
Aluminum Perforated

0.050 in

Ix: 0.0614 in^4/ft
Sx: 0.1388 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'-3"	5'-3"	5'-11"	55	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	4'-9"	4'-9"	5'-3"	60	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-1"	4'-3"	3'-10"
30	Stress	4'-4"	4'-4"	4'-10"	65	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	4'-0"	4'-0"	4'-5"	70	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-9"	5'-0"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	3'-9"	3'-9"	4'-2"	75	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	3'-6"	3'-6"	3'-11"	80	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	3'-4"	3'-4"	3'-9"	85	Stress	2'-7"	2'-7"	2'-10"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

X-16
Aluminum Perforated

0.050 in

Ix: 0.0496 in^4/ft
Sx: 0.1097 in^3/ft
Perforation: 20%

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

See page 3 for standard notes

Load / Span Data

X-16
Aluminum Perforated

0.050 in

Ix: 0.0464 in^4/ft
Sx: 0.1036 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'-7"	4'-7"	5'-1"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	2'-11"	3'-11"	3'-8"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-10"	3'-10"	3'-6"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-9"	3'-9"	3'-5"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-8"	3'-4"
40	Stress	3'-3"	3'-3"	3'-7"	75	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
45	Stress	3'-0"	3'-0"	3'-5"	80	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-2"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-2"

X-16
Aluminum Perforated

0.050 in

Ix: 0.0382 in^4/ft
Sx: 0.0886 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'-3"	4'-3"	4'-8"	55	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	3'-9"	3'-9"	4'-3"	60	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	3'-5"	3'-5"	3'-10"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	3'-2"	3'-2"	3'-7"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	3'-0"	3'-0"	3'-4"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-1"	2'-1"	2'-3"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

See page 3 for standard notes

X-16
Aluminum Perforated

0.050 in

Ix: 0.0346 in^4/ft
Sx: 0.0828 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'-1"	4'-1"	4'-7"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-8"	3'-7"	3'-3"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-7"	3'-6"	3'-2"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-6"	3'-5"	3'-1"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-4"	3'-0"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-9"	2'-9"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	1'-12"	1'-12"	2'-2"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-4"	3'-1"	2'-10"

X-16
Aluminum Perforated

0.050 in

Ix: 0.0272 in^4/ft
Sx: 0.069 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'-9"	3'-9"	4'-2"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-5"	3'-4"	3'-0"
25	Stress	3'-4"	3'-4"	3'-9"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-5"	3'-3"	2'-11"
30	Stress	3'-0"	3'-0"	3'-5"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-1"	2'-10"
35	Stress	2'-10"	2'-10"	3'-2"	70	Stress	1'-12"	1'-12"	2'-3"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-8"	2'-8"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-9"	3'-8"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
45	Stress	2'-6"	2'-6"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-4"	2'-4"	2'-8"	85	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

Load / Span Data

X-16
Aluminum Perforated

0.050 in

Ix: 0.018 in^4/ft
Sx: 0.0518 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'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-8"	2'-8"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-0"	2'-9"	2'-6"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-8"	2'-5"
40	Stress	2'-3"	2'-3"	2'-7"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-7"	2'-5"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-11"	2'-6"	2'-4"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-2"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-3"

XA-12
Aluminum Perforated

0.032 in

Ix: 0.0449 in^4/ft
Sx: 0.0839 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'-1"	4'-1"	4'-7"	55	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	2'-11"	3'-11"	3'-7"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-10"	3'-10"	3'-6"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-6"	4'-9"	4'-5"		Deflection	2'-9"	3'-8"	3'-5"
35	Stress	3'-1"	3'-1"	3'-6"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-7"	3'-4"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-5"	3'-2"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-6"	3'-5"	3'-1"

See page 3 for standard notes

XA-12
Aluminum **Perforated**

0.032 in

Ix: 0.0339 in^4/ft
Sx: 0.0626 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'-6"	3'-6"	3'-11"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-8"	3'-7"	3'-3"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-7"	3'-5"	3'-2"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-6"	3'-4"	3'-1"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-8"	3'-4"		Deflection	2'-3"	3'-1"	2'-10"

XA-12
Aluminum Perforated

0.032 in

Ix: 0.0279 in^4/ft
0.0536 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-6"	4'-8"	4'-3"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

Load / Span Data

XA-12
Aluminum Perforated

0.032 in

Ix: 0.0253 in^4/ft
Sx: 0.0501 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'-2"	3'-2"	3'-6"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	3'-0"	2'-9"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-7"

XA-12
Aluminum Perforated

0.032 in

Ix: 0.0199 in^4/ft
Sx: 0.0417 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'-11"	2'-11"	3'-3"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-2"	3'-0"	2'-9"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-2"	2'-11"	2'-8"
30	Stress	2'-4"	2'-4"	2'-8"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-1"	2'-10"	2'-7"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-0"	2'-9"	2'-6"
40	Stress	2'-1"	2'-1"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-0"	2'-8"	2'-6"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-8"	2'-5"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"

See page 3 for standard notes

XA-12
Aluminum Perforated

0.032 in

Ix: 0.0131 in^4/ft
Sx: 0.0313 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'-6"	2'-6"	2'-10"	55	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	1'-11"	2'-7"	2'-5"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	1'-10"	2'-6"	2'-4"
30	Stress	2'-1"	2'-1"	2'-3"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-5"	2'-3"
35	Stress	1'-11"	1'-11"	2'-1"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-9"	2'-5"	2'-2"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-4"	1'-4"	1'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-4"	2'-2"
45	Stress	1'-8"	1'-8"	1'-10"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-1"	2'-9"	2'-7"		Deflection	1'-8"	2'-3"	2'-1"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-0"	2'-8"	2'-5"		Deflection	1'-8"	2'-3"	2'-1"

XA-12
Aluminum Perforated

0.040 in

Ix: 0.0522 in^4/ft
Sx: 0.0965 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'-5"	4'-5"	4'-11"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	2'-11"	4'-0"	3'-8"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-6"	4'-9"	4'-5"		Deflection	2'-10"	3'-9"	3'-6"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-9"	3'-8"	3'-5"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"

See page 3 for standard notes

Load / Span Data

XA-12
Aluminum Perforated

0.040 in

Ix: 0.0395 in^4/ft
Sx: 0.072 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'-10"	3'-10"	4'-3"	55	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-1"	3'-1"	3'-6"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-10"	2'-10"	3'-2"	70	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-5"	3'-2"
40	Stress	2'-8"	2'-8"	3'-0"	75	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-6"	2'-6"	2'-10"	80	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-5"	2'-5"	2'-8"	85	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

XA-12
Aluminum Perforated

0.040 in

Ix: 0.0325 in^4/ft
Sx: 0.0616 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-3"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-6"	3'-5"	3'-2"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-1"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-1"	2'-10"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

XA-12
Aluminum Perforated

0.040 in

Ix: 0.0295 in^4/ft
Sx: 0.0576 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'-5"	3'-5"	3'-10"	55	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-6"	3'-5"	3'-1"
25	Stress	3'-0"	3'-0"	3'-5"	60	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-5"	3'-4"	3'-0"
30	Stress	2'-9"	2'-9"	3'-1"	65	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-3"	2'-11"
35	Stress	2'-7"	2'-7"	2'-10"	70	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-5"	2'-5"	2'-8"	75	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-3"	3'-1"	2'-10"
45	Stress	2'-3"	2'-3"	2'-6"	80	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"

XA-12
Aluminum Perforated

0.040 in

Ix: 0.0231 in^4/ft
Sx: 0.048 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'-1"	3'-1"	3'-6"	55	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-4"	3'-2"	2'-10"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-10"
30	Stress	2'-6"	2'-6"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	3'-0"	2'-9"
35	Stress	2'-4"	2'-4"	2'-7"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-6"
50	Stress	2'-0"	2'-0"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-6"

See page 3 for standard notes

Load / Span Data

XA-12
Aluminum Perforated

0.040 in

Ix: 0.0153 in^4/ft
Sx: 0.036 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'-8"	2'-8"	3'-0"	55	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-0"	2'-9"	2'-6"
25	Stress	2'-5"	2'-5"	2'-8"	60	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-0"	2'-8"	2'-5"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	2'-0"	2'-0"	2'-3"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-6"	2'-4"
40	Stress	1'-11"	1'-11"	2'-1"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-3"
45	Stress	1'-9"	1'-9"	2'-0"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-3"
50	Stress	1'-8"	1'-8"	1'-11"	85	Stress	1'-4"	1'-4"	1'-5"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

XA-12
Aluminum Perforated

0.050 in

Ix: 0.0706 in^4/ft
Sx: 0.1299 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	4'-9"	6'-4"	5'-10"		Deflection	3'-4"	4'-6"	4'-2"
25	Stress	4'-7"	4'-7"	5'-1"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"
30	Stress	4'-2"	4'-2"	4'-8"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-2"	4'-4"	3'-11"
35	Stress	3'-10"	3'-10"	4'-4"	70	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	3'-7"	3'-7"	4'-0"	75	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	3'-5"	3'-5"	3'-10"	80	Stress	2'-7"	2'-7"	2'-10"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
50	Stress	3'-3"	3'-3"	3'-7"	85	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"

See page 3 for standard notes

XA-12
Aluminum Perforated

0.050 in

Ix: 0.0534 in^4/ft
Sx: 0.097 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'-5"	4'-5"	4'-11"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-0"	4'-0"	3'-8"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-8"	3'-4"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"

XA-12
Aluminum Perforated

0.050 in

Ix: 0.044 in^4/ft
Sx: 0.083 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'-1"	4'-1"	4'-7"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	2'-10"	3'-11"	3'-7"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-9"	3'-9"	3'-6"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-8"	3'-4"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-7"	3'-3"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	2'-9"	2'-9"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-2"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-6"	3'-4"	3'-1"

See page 3 for standard notes

Load / Span Data

XA-12
Aluminum Perforated

0.050 in

Ix: 0.0399 in^4/ft
Sx: 0.0776 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'-11"	3'-11"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-1"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

XA-12
Aluminum Perforated

0.050 in

Ix: 0.0313 in^4/ft
Sx: 0.0646 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'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	3'-3"	3'-3"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-9"	2'-9"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

XA-16
Aluminum Perforated

0.040 in

Ix: 0.0207 in^4/ft
Sx: 0.0485 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'-1"	3'-1"	3'-6"	55	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-3"	3'-0"	2'-9"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-2"	2'-11"	2'-8"
30	Stress	2'-7"	2'-7"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-1"	2'-10"	2'-7"
35	Stress	2'-4"	2'-4"	2'-8"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-1"	2'-9"	2'-7"
40	Stress	2'-2"	2'-2"	2'-6"	75	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-5"
50	Stress	2'-0"	2'-0"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-5"

XA-16
Aluminum Perforated

0.040 in

Ix: 0.0503 in^4/ft
Sx: 0.083 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'-1"	4'-1"	4'-7"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-8"	3'-4"
45	Stress	2'-9"	2'-9"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

See page 3 for standard notes

Load / Span Data

XA-16
Aluminum Perforated

0.040 in

Ix: 0.038 in^4/ft
Sx: 0.062 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-10"	2'-10"	3'-3"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-2"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

XA-16
Aluminum Perforated

0.040 in

Ix: 0.0313 in^4/ft
Sx: 0.053 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

XA-16
Aluminum Perforated

0.040 in

Ix: 0.0284 in^4/ft
Sx: 0.0496 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'-2"	3'-2"	3'-6"	55	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-7"	2'-7"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-9"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

XA-16
Aluminum Perforated

0.040 in

Ix: 0.0223 in^4/ft
Sx: 0.0413 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'-10"	2'-10"	3'-3"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-3"	3'-1"	2'-10"
25	Stress	2'-7"	2'-7"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-9"	2'-7"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	1'-10"	1'-10"	2'-0"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	2'-0"	2'-8"	2'-5"

See page 3 for standard notes

Load / Span Data

XA-16
Aluminum Perforated

0.040 in

Ix: 0.0147 in^4/ft
Sx: 0.031 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'-6"	2'-6"	2'-9"	55	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-0"	2'-8"	2'-6"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-7"	2'-5"
30	Stress	2'-0"	2'-0"	2'-3"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	1'-11"	1'-11"	2'-1"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-4"	3'-2"	2'-10"		Deflection	1'-10"	2'-6"	2'-3"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	1'-8"	1'-8"	1'-10"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-2"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-1"	2'-9"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

XA-16
Aluminum Perforated

0.050 in

Ix: 0.0626 in^4/ft
Sx: 0.1017 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'-6"	4'-6"	5'-1"	55	Stress	2'-9"	2'-9"	3'-0"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	4'-0"	4'-0"	4'-6"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-8"	3'-8"	4'-1"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-9"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	3'-2"	3'-2"	3'-7"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	3'-0"	3'-0"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-9"	3'-6"

See page 3 for standard notes

XA-16
Aluminum Perforated

0.050 in

Ix: 0.0473 in^4/ft
Sx: 0.0759 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'-11"	3'-11"	4'-4"	55	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	2'-11"	4'-0"	3'-8"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-10"	3'-10"	3'-7"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-9"	3'-9"	3'-5"
35	Stress	2'-11"	2'-11"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-8"	3'-4"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-3"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

XA-16
Aluminum Perforated

0.050 in

Ix: 0.039 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	3'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-3"	3'-3"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-5"	3'-2"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-3"	2'-3"	2'-7"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

Load / Span Data

XA-16
Aluminum Perforated

0.050 in

Ix: 0.0354 in^4/ft
Sx: 0.0607 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-8"	3'-7"	3'-4"
25	Stress	3'-1"	3'-1"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-7"	3'-6"	3'-3"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-6"	3'-5"	3'-2"
35	Stress	2'-8"	2'-8"	2'-11"	70	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-2"	2'-2"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-1"	2'-10"

XA-16
Aluminum Perforated

0.050 in

Ix: 0.0277 in^4/ft
Sx: 0.0505 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'-2"	3'-2"	3'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

XA-16
Aluminum Perforated

0.050 in

Ix: 0.0183 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	2'-9"	2'-9"	3'-1"	55	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-6"	2'-6"	2'-9"	60	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-9"	3'-9"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-3"	2'-3"	2'-6"	65	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-0"	2'-9"	2'-6"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-8"	2'-5"
40	Stress	1'-11"	1'-11"	2'-2"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-7"	2'-5"
45	Stress	1'-10"	1'-10"	2'-1"	80	Stress	1'-5"	1'-5"	1'-6"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-9"	1'-9"	1'-11"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

XAB-16
Aluminum Perforated

0.040 in

Ix: 0.0503 in^4/ft
Sx: 0.0825 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'-1"	4'-1"	4'-7"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	2'-10"	2'-10"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-8"	3'-4"
45	Stress	2'-9"	2'-9"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

See page 3 for standard notes

Load / Span Data

XAB-16
Aluminum Perforated

0.040 in

Ix: 0.038 in^4/ft
Sx: 0.0616 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

XAB-16
Aluminum Perforated

0.040 in

Ix: 0.0313 in^4/ft
Sx: 0.0527 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'-3"	3'-3"	3'-8"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

XAB-16
Aluminum Perforated

0.040 in

Ix: 0.0284 in^4/ft
Sx: 0.0493 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'-2"	3'-2"	3'-6"	55	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-7"	2'-7"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-4"	2'-4"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-9"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

XAB-16
Aluminum Perforated

0.040 in

Ix: 0.0223 in^4/ft
Sx: 0.041 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'-10"	2'-10"	3'-2"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-3"	3'-1"	2'-10"
25	Stress	2'-7"	2'-7"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-9"	2'-7"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	1'-10"	1'-10"	2'-0"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	2'-0"	2'-8"	2'-5"

See page 3 for standard notes

Load / Span Data

XAB-16
Aluminum Perforated — 0.040 in

Ix: 0.0147 in^4/ft
Sx: 0.0308 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'-6"	2'-6"	2'-9"	55	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-0"	2'-8"	2'-6"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-7"	2'-5"
30	Stress	2'-0"	2'-0"	2'-3"	65	Stress	1'-5"	1'-5"	1'-6"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	1'-11"	1'-11"	2'-1"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-6"	2'-3"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	1'-8"	1'-8"	1'-10"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-2"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-1"	2'-9"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

XAB-16
Aluminum Perforated — 0.050 in

Ix: 0.0673 in^4/ft
Sx: 0.1065 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'-7"	4'-7"	5'-2"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-4"	4'-6"	4'-1"
25	Stress	4'-2"	4'-2"	4'-7"	60	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-3"	4'-4"	4'-0"
30	Stress	3'-9"	3'-9"	4'-3"	65	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	3'-6"	3'-6"	3'-11"	70	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-1"	3'-9"
40	Stress	3'-3"	3'-3"	3'-8"	75	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-0"	4'-0"	3'-8"
45	Stress	3'-1"	3'-1"	3'-5"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-6"	4'-9"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-7"

See page 3 for standard notes

XAB-16
Aluminum Perforated — 0.050 in

Ix: 0.0508 in^4/ft
Sx: 0.0795 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'-0"	4'-0"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	2'-11"	3'-11"	3'-8"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-8"	3'-4"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

XAB-16
Aluminum Perforated — 0.050 in

Ix: 0.0419 in^4/ft
Sx: 0.0681 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'-8"	3'-8"	4'-1"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	2'-10"	3'-10"	3'-6"
25	Stress	3'-4"	3'-4"	3'-8"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-9"	3'-8"	3'-5"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-6"	4'-8"	4'-3"		Deflection	2'-8"	3'-7"	3'-4"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-7"	3'-6"	3'-3"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-5"	3'-2"
45	Stress	2'-6"	2'-6"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-4"	3'-0"

See page 3 for standard notes

Load / Span Data

XAB-16
Aluminum Perforated — 0.050 in

Ix: 0.038 in^4/ft
Sx: 0.0636 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'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-2"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

XAB-16
Aluminum Perforated — 0.050 in

Ix: 0.0298 in^4/ft
Sx: 0.0529 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-6"	4'-9"	4'-5"		Deflection	2'-6"	3'-5"	3'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-5"	3'-4"	3'-0"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-3"	3'-1"	2'-10"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

XAB-16
Aluminum Perforated

0.050 in

Ix: 0.0197 in^4/ft
Sx: 0.0398 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'-10"	2'-10"	3'-2"	55	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-2"	3'-0"	2'-9"
25	Stress	2'-6"	2'-6"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-2"	2'-11"	2'-8"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-1"	2'-10"	2'-7"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-0"	2'-9"	2'-6"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-5"	1'-5"	1'-8"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-0"	2'-8"	2'-5"
45	Stress	1'-11"	1'-11"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-7"	2'-5"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"

XB-12
Aluminum Perforated

0.032 in

Ix: 0.0449 in^4/ft
Sx: 0.0838 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'-1"	4'-1"	4'-7"	55	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	2'-11"	3'-11"	3'-7"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-10"	3'-10"	3'-6"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-6"	4'-9"	4'-5"		Deflection	2'-9"	3'-8"	3'-5"
35	Stress	3'-1"	3'-1"	3'-6"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-7"	3'-4"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-5"	3'-2"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-6"	3'-5"	3'-1"

See page 3 for standard notes

Load / Span Data

XB-12
Aluminum Perforated

0.032 in

Ix: 0.0339 in^4/ft
Sx: 0.0626 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'-6"	3'-6"	3'-11"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-8"	3'-7"	3'-3"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-7"	3'-5"	3'-2"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-6"	3'-4"	3'-1"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-8"	3'-4"		Deflection	2'-3"	3'-1"	2'-10"

XB-12
Aluminum Perforated

0.032 in

Ix: 0.0279 in^4/ft
Sx: 0.0535 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-6"	4'-8"	4'-3"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

XB-12
Aluminum Perforated

0.032 in

Ix: 0.0253 in^4/ft
Sx: 0.05 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'-2"	3'-2"	3'-6"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	3'-0"	2'-9"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-7"

XB-12
Aluminum Perforated

0.032 in

Ix: 0.0199 in^4/ft
Sx: 0.0417 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'-11"	2'-11"	3'-3"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-2"	3'-0"	2'-9"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-2"	2'-11"	2'-8"
30	Stress	2'-4"	2'-4"	2'-8"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-1"	2'-10"	2'-7"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-0"	2'-9"	2'-6"
40	Stress	2'-1"	2'-1"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-0"	2'-8"	2'-6"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-8"	2'-5"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"

See page 3 for standard notes

Load / Span Data

XB-12
Aluminum Perforated

0.032 in

Ix: 0.0131 in^4/ft
Sx: 0.0313 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'-6"	2'-6"	2'-10"	55	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	1'-11"	2'-7"	2'-5"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	1'-10"	2'-6"	2'-4"
30	Stress	2'-1"	2'-1"	2'-3"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-5"	2'-3"
35	Stress	1'-11"	1'-11"	2'-1"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-9"	2'-5"	2'-2"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-4"	2'-2"
45	Stress	1'-8"	1'-8"	1'-10"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-1"	2'-9"	2'-7"		Deflection	1'-8"	2'-3"	2'-1"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-0"	2'-8"	2'-5"		Deflection	1'-8"	2'-3"	2'-1"

XB-12
Aluminum Perforated

0.040 in

Ix: 0.0563 in^4/ft
Sx: 0.1044 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'-7"	4'-7"	5'-1"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-1"	4'-3"	3'-10"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	2'-11"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-0"	4'-1"	3'-9"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	4'-0"	3'-8"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-7"
40	Stress	3'-3"	3'-3"	3'-7"	75	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-6"
45	Stress	3'-1"	3'-1"	3'-5"	80	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-9"	3'-5"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-8"	3'-4"

See page 3 for standard notes

XB-12
Aluminum Perforated

0.040 in

Ix: 0.0425 in^4/ft
Sx: 0.0779 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'-11"	3'-11"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	2'-10"	3'-10"	3'-6"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-9"	3'-9"	3'-5"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-8"	3'-8"	3'-4"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-7"	3'-6"	3'-3"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-5"	3'-2"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-1"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-5"	3'-4"	3'-1"

XB-12
Aluminum Perforated

0.040 in

Ix: 0.0351 in^4/ft
Sx: 0.0667 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'-8"	3'-8"	4'-1"	55	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-9"	5'-0"	4'-8"		Deflection	2'-8"	3'-7"	3'-4"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-7"	3'-6"	3'-2"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-6"	3'-5"	3'-1"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-4"	3'-1"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-1"	2'-10"

See page 3 for standard notes

Load / Span Data

XB-12
Aluminum Perforated

0.040 in

Ix: 0.0318 in^4/ft
Sx: 0.0623 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'-6"	3'-6"	3'-11"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

XB-12
Aluminum Perforated

0.040 in

Ix: 0.0249 in^4/ft
Sx: 0.0519 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'-3"	3'-3"	3'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-2"	2'-11"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-1"	2'-10"
30	Stress	2'-8"	2'-8"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-0"	2'-9"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	3'-0"	2'-9"
40	Stress	2'-3"	2'-3"	2'-7"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	2'-1"	2'-9"	2'-7"

See page 3 for standard notes

XB-12
Aluminum Perforated

0.040 in

Ix: 0.0165 in^4/ft
Sx: 0.039 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'-9"	2'-9"	3'-1"	55	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-1"	2'-10"	2'-7"
25	Stress	2'-6"	2'-6"	2'-9"	60	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-0"	2'-9"	2'-6"
30	Stress	2'-3"	2'-3"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-0"	2'-8"	2'-5"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-7"	2'-4"
40	Stress	2'-0"	2'-0"	2'-2"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-10"	2'-6"	2'-4"
45	Stress	1'-10"	1'-10"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-3"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-3"

XB-12
Aluminum Perforated

0.050 in

Ix: 0.0706 in^4/ft
Sx: 0.1299 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	4'-9"	6'-4"	5'-10"		Deflection	3'-4"	4'-6"	4'-2"
25	Stress	4'-7"	4'-7"	5'-1"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"
30	Stress	4'-2"	4'-2"	4'-8"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-2"	4'-4"	3'-11"
35	Stress	3'-10"	3'-10"	4'-4"	70	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	3'-7"	3'-7"	4'-0"	75	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	3'-5"	3'-5"	3'-10"	80	Stress	2'-7"	2'-7"	2'-10"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
50	Stress	3'-3"	3'-3"	3'-7"	85	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"

See page 3 for standard notes

Load / Span Data

XB-12
Aluminum Perforated

0.050 in

Ix: 0.0534 in^4/ft
Sx: 0.097 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'-5"	4'-5"	4'-11"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-0"	4'-0"	3'-8"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-8"	3'-4"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"

XB-12
Aluminum Perforated

0.050 in

Ix: 0.044 in^4/ft
Sx: 0.083 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'-1"	4'-1"	4'-7"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	2'-10"	3'-11"	3'-7"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-9"	3'-9"	3'-6"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-8"	3'-4"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-7"	3'-3"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	2'-9"	2'-9"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-2"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-6"	3'-4"	3'-1"

See page 3 for standard notes

XB-12
Aluminum Perforated

0.050 in

Ix: 0.0399 in^4/ft
Sx: 0.0776 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'-11"	3'-11"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-1"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

XB-12
Aluminum Perforated

0.050 in

Ix: 0.0313 in^4/ft
Sx: 0.0646 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'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	3'-3"	3'-3"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-9"	2'-9"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

Load / Span Data

XB-12
Aluminum Perforated

0.050 in

Ix: 0.0207 in^4/ft
Sx: 0.0485 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'-1"	3'-1"	3'-6"	55	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-3"	3'-0"	2'-9"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-2"	2'-11"	2'-8"
30	Stress	2'-7"	2'-7"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-1"	2'-10"	2'-7"
35	Stress	2'-4"	2'-4"	2'-8"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-1"	2'-9"	2'-7"
40	Stress	2'-2"	2'-2"	2'-6"	75	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-5"
50	Stress	2'-0"	2'-0"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-5"

XB-16
Aluminum Perforated

0.040 in

Ix: 0.0508 in^4/ft
Sx: 0.0834 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'-1"	4'-1"	4'-7"	55	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	2'-11"	3'-11"	3'-8"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-8"	3'-4"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

See page 3 for standard notes

XB-16
Aluminum **Perforated**

0.040 in

Ix: 0.0384 in^4/ft
Sx: 0.0623 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'-6"	3'-6"	3'-11"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

XB-16
Aluminum Perforated

0.040 in

Ix: 0.0317 in^4/ft
Sx: 0.0533 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-0"	3'-9"		Deflection	2'-5"	3'-2"	2'-11"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

Load / Span Data

XB-16
Aluminum **Perforated**

0.040 in

Ix: 0.0287 in^4/ft
Sx: 0.0498 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'-2"	3'-2"	3'-6"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-1"	2'-10"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

XB-16
Aluminum Perforated

0.040 in

Ix: 0.0317 in^4/ft
Sx: 0.0533 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-2"	2'-11"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

XB-16
Aluminum **Perforated**

0.040 in

Ix: 0.0149 in^4/ft
Sx: 0.0311 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'-6"	2'-6"	2'-9"	55	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-0"	2'-8"	2'-6"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-7"	2'-5"
30	Stress	2'-0"	2'-0"	2'-3"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-4"	3'-0"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	1'-11"	1'-11"	2'-1"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-6"	2'-3"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	1'-8"	1'-8"	1'-10"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-2"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-1"	2'-9"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

XB-16
Aluminum Perforated

0.050 in

Ix: 0.0638 in^4/ft
Sx: 0.104 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'-7"	4'-7"	5'-1"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-0"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	2'-11"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	3'-3"	3'-3"	3'-7"	75	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-11"	4'-0"	3'-8"
45	Stress	3'-0"	3'-0"	3'-5"	80	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-7"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

Load / Span Data

XB-16
Aluminum **Perforated**

0.050 in

Ix: 0.0482 in^4/ft
Sx: 0.0776 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'-11"	3'-11"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-9"		Deflection	2'-7"	3'-6"	3'-2"

XB-16
Aluminum Perforated

0.050 in

Ix: 0.0398 in^4/ft
Sx: 0.0664 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'-8"	3'-8"	4'-1"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

XB-16
Aluminum **Perforated**

0.050 in

Ix: 0.036 in^4/ft
Sx: 0.0621 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-5"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-8"	3'-8"	3'-4"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-7"	3'-6"	3'-3"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-7"	3'-5"	3'-2"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-2"	2'-11"

XB-16
Aluminum Perforated

0.050 in

Ix: 0.0398 in^4/ft
Sx: 0.0664 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'-8"	3'-8"	4'-1"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

Load / Span Data

XB-16
Aluminum **Perforated**

0.050 in

Ix: 0.0187 in^4/ft
Sx: 0.0388 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'-9"	2'-9"	3'-1"	55	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-6"	2'-6"	2'-9"	60	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-3"	2'-3"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-1"	2'-9"	2'-6"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-0"	2'-8"	2'-6"
40	Stress	2'-0"	2'-0"	2'-2"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-8"	2'-5"
45	Stress	1'-10"	1'-10"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

XC-12
Aluminum Perforated

0.040 in

Ix: 0.0513 in^4/ft
Sx: 0.0807 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	2'-11"	4'-0"	3'-8"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-7"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-6"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-8"	3'-5"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

See page 3 for standard notes

XC-12
Aluminum Perforated

0.040 in

Ix: 0.0388 in^4/ft
Sx: 0.0602 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	2'-10"	2'-10"	3'-2"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	2'-6"	2'-6"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	1'-11"	1'-11"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	1'-10"	1'-10"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	2'-11"

XC-12
Aluminum Perforated

0.040 in

Ix: 0.032 in^4/ft
Sx: 0.0515 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'-7"	2'-7"	2'-11"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-4"	2'-4"	2'-7"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-5"	1'-5"	1'-8"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	2'-0"	2'-0"	2'-3"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	1'-9"	1'-9"	1'-11"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

Load / Span Data

XC-12
Aluminum Perforated

0.040 in

Ix: 0.029 in^4/ft
Sx: 0.0482 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'-6"	2'-6"	2'-10"	55	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-1"	2'-1"	2'-4"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	1'-11"	1'-11"	2'-2"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-1"	2'-10"
40	Stress	1'-10"	1'-10"	2'-0"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
45	Stress	1'-8"	1'-8"	1'-11"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
50	Stress	1'-7"	1'-7"	1'-10"	85	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

XC-12
Aluminum Perforated

0.040 in

Ix: 0.0227 in^4/ft
Sx: 0.0401 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'-4"	2'-4"	2'-7"	55	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-4"	3'-1"	2'-10"
25	Stress	2'-1"	2'-1"	2'-4"	60	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	1'-11"	1'-11"	2'-1"	65	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	1'-9"	1'-9"	1'-11"	70	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-10"	2'-8"
40	Stress	1'-8"	1'-8"	1'-10"	75	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	1'-6"	1'-6"	1'-9"	80	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	1'-6"	1'-6"	1'-8"	85	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-5"	3'-3"	2'-11"		Deflection	2'-0"	2'-8"	2'-6"

See page 3 for standard notes

XC-12
Aluminum Perforated

0.040 in

Ix: 0.015 in^4/ft
Sx: 0.0301 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'-0"	2'-0"	2'-3"	55	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-0"	2'-9"	2'-6"
25	Stress	1'-10"	1'-10"	2'-0"	60	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-8"	2'-5"
30	Stress	1'-8"	1'-8"	1'-10"	65	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-5"	3'-4"	3'-1"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	1'-6"	1'-6"	1'-8"	70	Stress	1'-1"	1'-1"	1'-2"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-6"	2'-4"
40	Stress	1'-5"	1'-5"	1'-7"	75	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	1'-4"	1'-4"	1'-6"	80	Stress	1'-0"	1'-0"	1'-1"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-2"
50	Stress	1'-3"	1'-3"	1'-5"	85	Stress	1'-0"	1'-0"	1'-1"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

XC-12
Aluminum Perforated

0.050 in

Ix: 0.0638 in^4/ft
Sx: 0.1009 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'-8"	3'-8"	4'-1"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-0"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-8"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-7"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

Load / Span Data

XC-12
Aluminum Perforated

0.050 in

Ix: 0.0482 in^4/ft
Sx: 0.0753 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'-2"	3'-2"	3'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-1"	4'-2"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

XC-12
Aluminum Perforated

0.050 in

Ix: 0.0397 in^4/ft
Sx: 0.0645 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'-11"	2'-11"	3'-3"	55	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	2'-5"	2'-5"	2'-8"	65	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-3"	2'-3"	2'-6"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-1"	2'-1"	2'-4"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

XC-12
Aluminum Perforated

0.050 in

Ix: 0.036 in^4/ft
Sx: 0.0602 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'-10"	2'-10"	3'-2"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-8"	3'-8"	3'-4"
25	Stress	2'-6"	2'-6"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-7"	3'-6"	3'-3"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-6"	3'-5"	3'-2"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	1'-11"	1'-11"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	1'-10"	1'-10"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-2"	2'-11"

XC-12
Aluminum Perforated

0.050 in

Ix: 0.0282 in^4/ft
Sx: 0.0501 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'-7"	2'-7"	2'-11"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-4"	2'-4"	2'-7"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-1"	2'-1"	2'-4"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	1'-11"	1'-11"	2'-2"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	1'-9"	1'-9"	1'-11"	80	Stress	1'-4"	1'-4"	1'-5"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-9"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

Load / Span Data

XC-12
Aluminum Perforated

0.050 in

Ix: 0.0187 in^4/ft
Sx: 0.0377 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'-3"	2'-3"	2'-6"	55	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-0"	2'-0"	2'-3"	60	Stress	1'-4"	1'-4"	1'-5"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	1'-10"	1'-10"	2'-1"	65	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-1"	2'-9"	2'-6"
35	Stress	1'-8"	1'-8"	1'-11"	70	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-0"	2'-8"	2'-6"
40	Stress	1'-7"	1'-7"	1'-9"	75	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-8"	2'-5"
45	Stress	1'-6"	1'-6"	1'-8"	80	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-5"	1'-5"	1'-7"	85	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

XD-12
Aluminum Perforated

0.040 in

Ix: 0.037 in^4/ft
Sx: 0.0509 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	2'-7"	2'-7"	2'-11"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-4"
25	Stress	2'-4"	2'-4"	2'-7"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-8"	3'-7"	3'-3"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-7"	3'-6"	3'-2"
35	Stress	2'-0"	2'-0"	2'-2"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-6"	3'-5"	3'-1"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-4"	3'-0"
45	Stress	1'-9"	1'-9"	1'-11"	80	Stress	1'-4"	1'-4"	1'-5"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

See page 3 for standard notes

XD-12
Aluminum Perforated

0.040 in

Ix: 0.028 in^4/ft
Sx: 0.038 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	2'-3"	2'-3"	2'-6"	55	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-6"	4'-8"	4'-3"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-0"	2'-0"	2'-3"	60	Stress	1'-4"	1'-4"	1'-5"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	1'-10"	1'-10"	2'-1"	65	Stress	1'-3"	1'-3"	1'-5"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	1'-8"	1'-8"	1'-11"	70	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	1'-7"	1'-7"	1'-9"	75	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	1'-6"	1'-6"	1'-8"	80	Stress	1'-2"	1'-2"	1'-3"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	1'-5"	1'-5"	1'-7"	85	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

XD-12
Aluminum Perforated

0.040 in

Ix: 0.0231 in^4/ft
Sx: 0.0325 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'-1"	2'-1"	2'-4"	55	Stress	1'-3"	1'-3"	1'-5"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-4"	3'-2"	2'-10"
25	Stress	1'-10"	1'-10"	2'-1"	60	Stress	1'-2"	1'-2"	1'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	1'-8"	1'-8"	1'-11"	65	Stress	1'-2"	1'-2"	1'-3"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	2'-11"	2'-9"
35	Stress	1'-7"	1'-7"	1'-9"	70	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
40	Stress	1'-6"	1'-6"	1'-8"	75	Stress	1'-1"	1'-1"	1'-2"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	1'-5"	1'-5"	1'-7"	80	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-6"
50	Stress	1'-4"	1'-4"	1'-6"	85	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-6"

See page 3 for standard notes

Load / Span Data

XD-12
Aluminum Perforated

0.040 in

Ix: 0.0209 in^4/ft
Sx: 0.0304 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'-0"	2'-0"	2'-3"	55	Stress	1'-3"	1'-3"	1'-4"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-3"	3'-0"	2'-9"
25	Stress	1'-10"	1'-10"	2'-0"	60	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-2"	2'-11"	2'-8"
30	Stress	1'-8"	1'-8"	1'-10"	65	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-1"	2'-10"	2'-8"
35	Stress	1'-6"	1'-6"	1'-8"	70	Stress	1'-1"	1'-1"	1'-2"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	1'-5"	1'-5"	1'-7"	75	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
45	Stress	1'-4"	1'-4"	1'-6"	80	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-5"
50	Stress	1'-3"	1'-3"	1'-5"	85	Stress	1'-0"	1'-0"	1'-1"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-5"

XD-12
Aluminum Perforated

0.040 in

Ix: 0.0236 in^4/ft
Sx: 0.0253 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	1'-10"	1'-10"	2'-1"	55	Stress	1'-1"	1'-1"	1'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-4"	3'-2"	2'-11"
25	Stress	1'-8"	1'-8"	1'-10"	60	Stress	1'-1"	1'-1"	1'-2"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-1"	2'-10"
30	Stress	1'-6"	1'-6"	1'-8"	65	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-2"	3'-0"	2'-9"
35	Stress	1'-5"	1'-5"	1'-7"	70	Stress	1'-0"	1'-0"	1'-1"
	Deflection	2'-9"	3'-8"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
40	Stress	1'-4"	1'-4"	1'-5"	75	Stress	0'-11"	0'-11"	1'-1"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	1'-3"	1'-3"	1'-4"	80	Stress	0'-11"	0'-11"	1'-0"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-7"
50	Stress	1'-2"	1'-2"	1'-4"	85	Stress	0'-11"	0'-11"	1'-0"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"

See page 3 for standard notes

XD-12
Aluminum Perforated

0.040 in

Ix: 0.0108 in^4/ft
Sx: 0.019 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	1'-7"	1'-7"	1'-9"	55	Stress	1'-0"	1'-0"	1'-1"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	1'-10"	2'-5"	2'-3"
25	Stress	1'-5"	1'-5"	1'-7"	60	Stress	0'-11"	0'-11"	1'-0"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-9"	2'-4"	2'-2"
30	Stress	1'-4"	1'-4"	1'-5"	65	Stress	0'-11"	0'-11"	1'-0"
	Deflection	2'-2"	3'-0"	2'-9"		Deflection	1'-8"	2'-4"	2'-1"
35	Stress	1'-2"	1'-2"	1'-4"	70	Stress	0'-10"	0'-10"	0'-11"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-8"	2'-3"	2'-1"
40	Stress	1'-2"	1'-2"	1'-3"	75	Stress	0'-10"	0'-10"	0'-11"
	Deflection	2'-0"	2'-8"	2'-6"		Deflection	1'-7"	2'-2"	2'-0"
45	Stress	1'-1"	1'-1"	1'-2"	80	Stress	0'-10"	0'-10"	0'-11"
	Deflection	1'-11"	2'-7"	2'-5"		Deflection	1'-7"	2'-2"	2'-0"
50	Stress	1'-0"	1'-0"	1'-2"	85	Stress	0'-9"	0'-9"	0'-10"
	Deflection	1'-10"	2'-6"	2'-4"		Deflection	1'-7"	2'-1"	1'-11"

XD-12
Aluminum Perforated

0.050 in

Ix: 0.0428 in^4/ft
Sx: 0.0586 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	2'-10"	2'-10"	3'-1"	55	Stress	1'-8"	1'-8"	1'-11"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	2'-10"	3'-10"	3'-6"
25	Stress	2'-6"	2'-6"	2'-10"	60	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-9"	3'-9"	3'-5"
30	Stress	2'-3"	2'-3"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-8"	3'-8"	3'-4"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-8"	3'-7"	3'-3"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-2"
45	Stress	1'-10"	1'-10"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-1"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-6"	3'-4"	3'-1"

See page 3 for standard notes

Load / Span Data

XD-12
Aluminum Perforated

0.050 in

Ix: 0.0324 in^4/ft
Sx: 0.0437 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	2'-5"	2'-5"	2'-8"	55	Stress	1'-5"	1'-5"	1'-8"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-3"
25	Stress	2'-2"	2'-2"	2'-5"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-0"	2'-0"	2'-2"	65	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	1'-10"	1'-10"	2'-0"	70	Stress	1'-3"	1'-3"	1'-5"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	1'-8"	1'-8"	1'-11"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	1'-7"	1'-7"	1'-10"	80	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	1'-6"	1'-6"	1'-8"	85	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

XD-12
Aluminum Perforated

0.050 in

Ix: 0.0267 in^4/ft
Sx: 0.0374 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'-3"	2'-3"	2'-6"	55	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-0"	2'-0"	2'-3"	60	Stress	1'-3"	1'-3"	1'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	1'-10"	1'-10"	2'-0"	65	Stress	1'-3"	1'-3"	1'-5"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-1"	2'-10"
35	Stress	1'-8"	1'-8"	1'-11"	70	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	1'-7"	1'-7"	1'-9"	75	Stress	1'-2"	1'-2"	1'-3"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
45	Stress	1'-6"	1'-6"	1'-8"	80	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	1'-5"	1'-5"	1'-7"	85	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

XD-12
Aluminum Perforated

0.050 in

Ix: 0.0242 in^4/ft
Sx: 0.035 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'-2"	2'-2"	2'-5"	55	Stress	1'-4"	1'-4"	1'-5"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-4"	3'-2"	2'-11"
25	Stress	1'-11"	1'-11"	2'-2"	60	Stress	1'-3"	1'-3"	1'-5"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-3"	3'-1"	2'-10"
30	Stress	1'-9"	1'-9"	2'-0"	65	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-0"	2'-9"
35	Stress	1'-8"	1'-8"	1'-10"	70	Stress	1'-2"	1'-2"	1'-3"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-2"	2'-11"	2'-8"
40	Stress	1'-6"	1'-6"	1'-8"	75	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-1"	2'-10"	2'-8"
45	Stress	1'-5"	1'-5"	1'-7"	80	Stress	1'-1"	1'-1"	1'-2"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	1'-4"	1'-4"	1'-6"	85	Stress	1'-1"	1'-1"	1'-2"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"

XD-12
Aluminum Perforated

0.050 in

Ix: 0.019 in^4/ft
Sx: 0.0291 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'-0"	2'-0"	2'-2"	55	Stress	1'-2"	1'-2"	1'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	1'-9"	1'-9"	2'-0"	60	Stress	1'-2"	1'-2"	1'-3"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	1'-7"	1'-7"	1'-10"	65	Stress	1'-1"	1'-1"	1'-3"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-1"	2'-9"	2'-7"
35	Stress	1'-6"	1'-6"	1'-8"	70	Stress	1'-1"	1'-1"	1'-2"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-0"	2'-8"	2'-6"
40	Stress	1'-5"	1'-5"	1'-7"	75	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-8"	2'-5"
45	Stress	1'-4"	1'-4"	1'-6"	80	Stress	1'-0"	1'-0"	1'-1"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-7"	2'-5"
50	Stress	1'-3"	1'-3"	1'-5"	85	Stress	0'-11"	0'-11"	1'-1"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-11"	2'-6"	2'-4"

See page 3 for standard notes

Load / Span Data

XD-12
Aluminum Perforated

0.050 in

Ix: 0.0125 in^4/ft
Sx: 0.0219 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	1'-8"	1'-8"	1'-11"	55	Stress	1'-0"	1'-0"	1'-2"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	1'-11"	2'-7"	2'-4"
25	Stress	1'-6"	1'-6"	1'-8"	60	Stress	1'-0"	1'-0"	1'-1"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	1'-10"	2'-6"	2'-3"
30	Stress	1'-5"	1'-5"	1'-7"	65	Stress	0'-11"	0'-11"	1'-1"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-9"	2'-5"	2'-3"
35	Stress	1'-3"	1'-3"	1'-5"	70	Stress	0'-11"	0'-11"	1'-0"
	Deflection	2'-2"	3'-0"	2'-9"		Deflection	1'-9"	2'-4"	2'-2"
40	Stress	1'-2"	1'-2"	1'-4"	75	Stress	0'-11"	0'-11"	1'-0"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-8"	2'-4"	2'-1"
45	Stress	1'-2"	1'-2"	1'-3"	80	Stress	0'-10"	0'-10"	0'-11"
	Deflection	2'-0"	2'-9"	2'-6"		Deflection	1'-8"	2'-3"	2'-1"
50	Stress	1'-1"	1'-1"	1'-2"	85	Stress	0'-10"	0'-10"	0'-11"
	Deflection	1'-11"	2'-8"	2'-5"		Deflection	1'-8"	2'-2"	2'-0"

XE-12
Aluminum Perforated

0.032 in

Ix: 0.041 in^4/ft
Sx: 0.0693 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'-9"	3'-9"	4'-2"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	2'-10"	3'-9"	3'-6"
25	Stress	3'-4"	3'-4"	3'-9"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-9"	3'-8"	3'-5"
30	Stress	3'-0"	3'-0"	3'-5"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-10"	2'-10"	3'-2"	70	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-7"	3'-6"	3'-3"
40	Stress	2'-8"	2'-8"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-6"	3'-5"	3'-2"
45	Stress	2'-6"	2'-6"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
50	Stress	2'-4"	2'-4"	2'-8"	85	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

XE-12
Aluminum **Perforated**

0.032 in

Ix: 0.031 in^4/ft
Sx: 0.0518 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'-3"	3'-3"	3'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-5"	3'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	2'-8"	2'-8"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-3"	2'-3"	2'-7"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

XE-12
Aluminum Perforated

0.032 in

Ix: 0.0255 in^4/ft
Sx: 0.0443 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'-0"	3'-0"	3'-4"	55	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-8"	2'-8"	3'-0"	60	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-5"	2'-5"	2'-9"	65	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	2'-3"	2'-3"	2'-6"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	2'-1"	2'-1"	2'-4"	75	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	2'-0"	2'-0"	2'-3"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	1'-11"	1'-11"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

Load / Span Data

XE-12
Aluminum **Perforated**

0.032 in

Ix: 0.0231 in^4/ft
Sx: 0.0414 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'-11"	2'-11"	3'-3"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-4"	3'-2"	2'-11"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-10"
30	Stress	2'-4"	2'-4"	2'-8"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	3'-0"	2'-9"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-6"
50	Stress	1'-10"	1'-10"	2'-0"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-6"

XE-12
Aluminum Perforated

0.032 in

Ix: 0.0182 in^4/ft
Sx: 0.0345 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'-8"	2'-8"	2'-11"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-4"	2'-4"	2'-8"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-5"	1'-5"	1'-8"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-0"	2'-9"	2'-6"
35	Stress	2'-0"	2'-0"	2'-3"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-8"	2'-5"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-5"	3'-3"	2'-11"		Deflection	1'-11"	2'-7"	2'-5"
45	Stress	1'-9"	1'-9"	1'-11"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-2"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

See page 3 for standard notes

XE-12
Aluminum **Perforated**

0.032 in

Ix: 0.012 in^4/ft
Sx: 0.0259 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'-3"	2'-3"	2'-7"	55	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-10"	2'-6"	2'-4"
25	Stress	2'-0"	2'-0"	2'-3"	60	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-10"	2'-5"	2'-3"
30	Stress	1'-10"	1'-10"	2'-1"	65	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-9"	2'-5"	2'-2"
35	Stress	1'-9"	1'-9"	1'-11"	70	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-4"	2'-2"
40	Stress	1'-7"	1'-7"	1'-10"	75	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-8"	2'-3"	2'-1"
45	Stress	1'-6"	1'-6"	1'-8"	80	Stress	1'-2"	1'-2"	1'-3"
	Deflection	2'-0"	2'-8"	2'-6"		Deflection	1'-8"	2'-3"	2'-0"
50	Stress	1'-5"	1'-5"	1'-7"	85	Stress	1'-1"	1'-1"	1'-3"
	Deflection	1'-11"	2'-7"	2'-5"		Deflection	1'-7"	2'-2"	2'-0"

XE-12
Aluminum Perforated

0.040 in

Ix: 0.0512 in^4/ft
Sx: 0.0859 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'-2"	4'-2"	4'-8"	55	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-8"	3'-8"	4'-2"	60	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	2'-11"	4'-0"	3'-8"
30	Stress	3'-5"	3'-5"	3'-9"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-7"
35	Stress	3'-2"	3'-2"	3'-6"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-8"	3'-5"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

See page 3 for standard notes

Load / Span Data

XE-12
Aluminum **Perforated**

0.040 in

Ix: 0.0387 in^4/ft
Sx: 0.0641 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'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	2'-11"

XE-12
Aluminum Perforated

0.040 in

Ix: 0.0319 in^4/ft
Sx: 0.0549 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'-4"	3'-4"	3'-8"	55	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	3'-0"	3'-0"	3'-4"	60	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	2'-6"	2'-6"	2'-10"	70	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-3"	2'-3"	2'-6"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

XE-12
Aluminum **Perforated** 0.040 in

Ix: 0.0289 in^4/ft
Sx: 0.0513 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'-2"	3'-2"	3'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-1"	2'-10"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

XE-12
Aluminum Perforated 0.040 in

Ix: 0.0227 in^4/ft
Sx: 0.0427 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'-11"	2'-11"	3'-3"	55	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-4"	3'-1"	2'-10"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-5"	2'-5"	2'-8"	65	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-3"	2'-3"	2'-6"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-1"	2'-10"	2'-8"
40	Stress	2'-1"	2'-1"	2'-4"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-3"	2'-11"		Deflection	2'-0"	2'-8"	2'-6"

See page 3 for standard notes

Load / Span Data

XE-12
Aluminum **Perforated**

0.040 in

Ix: 0.015 in^4/ft
Sx: 0.0321 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'-6"	2'-6"	2'-10"	55	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-0"	2'-8"	2'-6"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-8"	2'-5"
30	Stress	2'-1"	2'-1"	2'-4"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-4"	3'-1"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	1'-11"	1'-11"	2'-2"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-6"	2'-4"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	1'-8"	1'-8"	1'-11"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-2"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

XE-12
Aluminum Perforated

0.050 in

Ix: 0.0638 in^4/ft
Sx: 0.1062 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'-7"	4'-7"	5'-2"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-0"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	3'-6"	3'-6"	3'-11"	70	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	3'-3"	3'-3"	3'-8"	75	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-8"
45	Stress	3'-1"	3'-1"	3'-5"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-7"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

XE-12
Aluminum **Perforated** 0.050 in

Ix: 0.0482 in^4/ft
Sx: 0.0793 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'-0"	4'-0"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

XE-12
Aluminum Perforated 0.050 in

Ix: 0.0397 in^4/ft
Sx: 0.0678 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'-8"	3'-8"	4'-1"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-4"	3'-4"	3'-8"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

Load / Span Data

XE-12
Aluminum **Perforated**

0.050 in

Ix: 0.036 in^4/ft
Sx: 0.0634 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'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-8"	3'-8"	3'-4"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-7"	3'-6"	3'-3"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-6"	3'-5"	3'-2"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-2"	2'-11"

XE-12
Aluminum Perforated

0.050 in

Ix: 0.0282 in^4/ft
Sx: 0.0528 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-9"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

XE-12
Aluminum **Perforated** 0.050 in

Ix: 0.0187 in^4/ft
Sx: 0.0396 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'-10"	2'-10"	3'-2"	55	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-6"	2'-6"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-1"	2'-9"	2'-6"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-0"	2'-8"	2'-6"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-5"	1'-5"	1'-8"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-8"	2'-5"
45	Stress	1'-11"	1'-11"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

XF-12
Aluminum Perforated 0.032 in

Ix: 0.041 in^4/ft
Sx: 0.0693 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'-9"	3'-9"	4'-2"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	2'-10"	3'-9"	3'-6"
25	Stress	3'-4"	3'-4"	3'-9"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-9"	3'-8"	3'-5"
30	Stress	3'-0"	3'-0"	3'-5"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-10"	2'-10"	3'-2"	70	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-7"	3'-6"	3'-3"
40	Stress	2'-8"	2'-8"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-6"	3'-5"	3'-2"
45	Stress	2'-6"	2'-6"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
50	Stress	2'-4"	2'-4"	2'-8"	85	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

Load / Span Data

XF-12
Aluminum **Perforated**

0.032 in

Ix: 0.031 in^4/ft
Sx: 0.0517 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'-3"	3'-3"	3'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-5"	3'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	2'-8"	2'-8"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-3"	2'-3"	2'-7"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

XF-12
Aluminum Perforated

0.032 in

Ix: 0.0255 in^4/ft
Sx: 0.0443 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'-0"	3'-0"	3'-4"	55	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-8"	2'-8"	3'-0"	60	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-5"	2'-5"	2'-9"	65	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	2'-3"	2'-3"	2'-6"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	2'-1"	2'-1"	2'-4"	75	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	2'-0"	2'-0"	2'-3"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	1'-11"	1'-11"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

XF-12
Aluminum **Perforated**

0.032 in

Ix: 0.0231 in^4/ft
Sx: 0.0414 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'-11"	2'-11"	3'-3"	55	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-4"	3'-2"	2'-11"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-10"
30	Stress	2'-4"	2'-4"	2'-8"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	3'-0"	2'-9"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-6"
50	Stress	1'-10"	1'-10"	2'-0"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-6"

XF-12
Aluminum Perforated

0.032 in

Ix: 0.0182 in^4/ft
Sx: 0.0344 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'-7"	2'-7"	2'-11"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-4"	2'-4"	2'-7"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-5"	1'-5"	1'-8"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-0"	2'-9"	2'-6"
35	Stress	2'-0"	2'-0"	2'-3"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-8"	2'-5"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-5"	3'-3"	2'-11"		Deflection	1'-11"	2'-7"	2'-5"
45	Stress	1'-9"	1'-9"	1'-11"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-2"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

See page 3 for standard notes

Load / Span Data

XF-12
Aluminum **Perforated**

0.032 in

Ix: 0.012 in^4/ft
Sx: 0.0259 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'-3"	2'-3"	2'-7"	55	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-10"	2'-6"	2'-4"
25	Stress	2'-0"	2'-0"	2'-3"	60	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-10"	2'-5"	2'-3"
30	Stress	1'-10"	1'-10"	2'-1"	65	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-9"	2'-5"	2'-2"
35	Stress	1'-9"	1'-9"	1'-11"	70	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-4"	2'-2"
40	Stress	1'-7"	1'-7"	1'-10"	75	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-8"	2'-3"	2'-1"
45	Stress	1'-6"	1'-6"	1'-8"	80	Stress	1'-2"	1'-2"	1'-3"
	Deflection	2'-0"	2'-8"	2'-6"		Deflection	1'-8"	2'-3"	2'-0"
50	Stress	1'-5"	1'-5"	1'-7"	85	Stress	1'-1"	1'-1"	1'-3"
	Deflection	1'-11"	2'-7"	2'-5"		Deflection	1'-7"	2'-2"	2'-0"

XF-12
Aluminum Perforated

0.040 in

Ix: 0.0512 in^4/ft
Sx: 0.0901 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'-3"	4'-3"	4'-9"	55	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-10"	3'-10"	4'-3"	60	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	2'-11"	4'-0"	3'-8"
30	Stress	3'-6"	3'-6"	3'-10"	65	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-7"
35	Stress	3'-2"	3'-2"	3'-7"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	3'-0"	3'-0"	3'-4"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-8"	3'-5"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

See page 3 for standard notes

XF-12
Aluminum **Perforated**

0.040 in

Ix: 0.0387 in^4/ft
Sx: 0.0672 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'-8"	3'-8"	4'-1"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	2'-11"

XF-12
Aluminum Perforated

0.040 in

Ix: 0.0319 in^4/ft
Sx: 0.0575 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'-5"	3'-5"	3'-10"	55	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	3'-0"	3'-0"	3'-5"	60	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-9"	2'-9"	3'-1"	65	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	2'-7"	2'-7"	2'-10"	70	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	2'-5"	2'-5"	2'-8"	75	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-3"	2'-3"	2'-6"	80	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

Load / Span Data

XF-12
Aluminum **Perforated**

0.040 in

Ix: 0.0289 in^4/ft
Sx: 0.0538 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-1"	2'-10"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

XF-12
Aluminum Perforated

0.040 in

Ix: 0.0227 in^4/ft
Sx: 0.0448 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'-0"	3'-0"	3'-4"	55	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-4"	3'-1"	2'-10"
25	Stress	2'-8"	2'-8"	3'-0"	60	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-5"	2'-5"	2'-9"	65	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-3"	2'-3"	2'-6"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-1"	2'-10"	2'-8"
40	Stress	2'-1"	2'-1"	2'-4"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
45	Stress	2'-0"	2'-0"	2'-3"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	1'-11"	1'-11"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-3"	2'-11"		Deflection	2'-0"	2'-8"	2'-6"

See page 3 for standard notes

XF-12
Aluminum **Perforated**

0.040 in

Ix: 0.015 in^4/ft
Sx: 0.0336 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'-7"	2'-7"	2'-11"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-0"	2'-8"	2'-6"
25	Stress	2'-4"	2'-4"	2'-7"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	1'-11"	2'-8"	2'-5"
30	Stress	2'-1"	2'-1"	2'-4"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-5"	3'-4"	3'-1"		Deflection	1'-11"	2'-7"	2'-4"
35	Stress	2'-0"	2'-0"	2'-2"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-10"	2'-6"	2'-4"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-5"	2'-3"
45	Stress	1'-9"	1'-9"	1'-11"	80	Stress	1'-4"	1'-4"	1'-5"
	Deflection	2'-2"	2'-11"	2'-8"		Deflection	1'-9"	2'-5"	2'-2"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"

XF-12
Aluminum Perforated

0.050 in

Ix: 0.0638 in^4/ft
Sx: 0.1062 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'-7"	4'-7"	5'-2"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-0"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	3'-6"	3'-6"	3'-11"	70	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	3'-3"	3'-3"	3'-8"	75	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-8"
45	Stress	3'-1"	3'-1"	3'-5"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-7"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

Load / Span Data

XF-12
Aluminum **Perforated**

0.050 in

Ix: 0.0482 in^4/ft
Sx: 0.0793 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'-0"	4'-0"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

XF-12
Aluminum Perforated

0.050 in

Ix: 0.0397 in^4/ft
Sx: 0.0678 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'-8"	3'-8"	4'-1"	55	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-4"	3'-4"	3'-8"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

XF-12
Aluminum **Perforated**

0.050 in

Ix: 0.036 in^4/ft
Sx: 0.0634 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'-7"	3'-7"	4'-0"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-8"	3'-8"	3'-4"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-7"	3'-6"	3'-3"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-6"	3'-5"	3'-2"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-2"	2'-11"

XF-12
Aluminum Perforated

0.050 in

Ix: 0.0282 in^4/ft
Sx: 0.0528 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'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-2"	2'-11"	2'-9"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

See page 3 for standard notes

Load / Span Data

XF-12
Aluminum **Perforated**

0.050 in

Ix: 0.0187 in^4/ft
Sx: 0.0396 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'-10"	2'-10"	3'-2"	55	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-6"	2'-6"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-1"	2'-9"	2'-6"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-0"	2'-8"	2'-6"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-5"	1'-5"	1'-8"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-11"	2'-8"	2'-5"
45	Stress	1'-11"	1'-11"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-3"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-4"

XG-12
Aluminum Perforated

0.032 in

Ix: 0.0482 in^4/ft
Sx: 0.0964 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'-5"	4'-5"	4'-11"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-1"	4'-2"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

See page 3 for standard notes

XG-12
Aluminum Perforated

0.032 in

Ix: 0.0364 in^4/ft
Sx: 0.072 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'-10"	3'-10"	4'-3"	55	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-8"	3'-8"	3'-4"
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-7"	3'-6"	3'-3"
30	Stress	3'-1"	3'-1"	3'-6"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-7"	3'-5"	3'-2"
35	Stress	2'-10"	2'-10"	3'-2"	70	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-6"	3'-4"	3'-1"
40	Stress	2'-8"	2'-8"	3'-0"	75	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-6"	2'-6"	2'-10"	80	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	2'-11"
50	Stress	2'-5"	2'-5"	2'-8"	85	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-4"	3'-2"	2'-11"

XG-12
Aluminum Perforated

0.032 in

Ix: 0.03 in^4/ft
Sx: 0.0616 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-9"	4'-5"		Deflection	2'-6"	3'-5"	3'-2"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-5"	3'-4"	3'-1"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-1"	2'-10"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-9"

See page 3 for standard notes

Load / Span Data

XG-12
Aluminum Perforated

0.032 in

Ix: 0.0272 in^4/ft
Sx: 0.0576 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'-5"	3'-5"	3'-10"	55	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-5"	3'-4"	3'-0"
25	Stress	3'-0"	3'-0"	3'-5"	60	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-5"	3'-2"	2'-11"
30	Stress	2'-9"	2'-9"	3'-1"	65	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-1"	2'-10"
35	Stress	2'-7"	2'-7"	2'-10"	70	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-5"	2'-5"	2'-8"	75	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-9"	3'-8"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
45	Stress	2'-3"	2'-3"	2'-6"	80	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"

XG-12
Aluminum Perforated

0.032 in

Ix: 0.0213 in^4/ft
Sx: 0.0479 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'-1"	3'-1"	3'-6"	55	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-3"	3'-1"	2'-10"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-2"	3'-0"	2'-9"
30	Stress	2'-6"	2'-6"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-4"	2'-4"	2'-7"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-8"	2'-6"
50	Stress	1'-11"	1'-11"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-8"	2'-5"

See page 3 for standard notes

XG-12
Aluminum Perforated

0.032 in

Ix: 0.0141 in^4/ft
Sx: 0.036 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'-8"	2'-8"	3'-0"	55	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-0"	2'-8"	2'-5"
25	Stress	2'-5"	2'-5"	2'-8"	60	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	1'-11"	2'-7"	2'-4"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	1'-10"	2'-6"	2'-4"
35	Stress	2'-0"	2'-0"	2'-3"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-10"	2'-5"	2'-3"
40	Stress	1'-11"	1'-11"	2'-1"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-2"	2'-11"	2'-9"		Deflection	1'-9"	2'-5"	2'-2"
45	Stress	1'-9"	1'-9"	2'-0"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-1"	2'-10"	2'-7"		Deflection	1'-9"	2'-4"	2'-2"
50	Stress	1'-8"	1'-8"	1'-11"	85	Stress	1'-4"	1'-4"	1'-5"
	Deflection	2'-0"	2'-9"	2'-6"		Deflection	1'-8"	2'-4"	2'-1"

XG-12
Aluminum Perforated

0.040 in

Ix: 0.0617 in^4/ft
Sx: 0.1211 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'-11"	4'-11"	5'-6"	55	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	4'-5"	4'-5"	4'-11"	60	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-1"	4'-3"	3'-10"
30	Stress	4'-0"	4'-0"	4'-6"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-1"	4'-1"	3'-9"
35	Stress	3'-9"	3'-9"	4'-2"	70	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-7"	2'-7"	2'-10"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	3'-3"	3'-3"	3'-8"	80	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	3'-1"	3'-1"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

See page 3 for standard notes

Load / Span Data

XG-12
Aluminum Perforated

0.040 in

Ix: 0.0467 in^4/ft
Sx: 0.0904 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'-3"	4'-3"	4'-9"	55	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	2'-11"	3'-11"	3'-8"
25	Stress	3'-10"	3'-10"	4'-3"	60	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-10"	3'-10"	3'-6"
30	Stress	3'-6"	3'-6"	3'-11"	65	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-9"	3'-9"	3'-5"
35	Stress	3'-3"	3'-3"	3'-7"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-8"	3'-4"
40	Stress	3'-0"	3'-0"	3'-4"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-2"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-2"

XG-12
Aluminum Perforated

0.040 in

Ix: 0.0385 in^4/ft
Sx: 0.0774 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'-11"	3'-11"	4'-5"	55	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-2"	2'-11"

See page 3 for standard notes

XG-12
Aluminum Perforated

0.040 in

Ix: 0.0348 in^4/ft
Sx: 0.0723 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'-10"	3'-10"	4'-3"	55	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-8"	3'-7"	3'-4"
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-7"	3'-6"	3'-2"
30	Stress	3'-1"	3'-1"	3'-6"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-6"	3'-5"	3'-1"
35	Stress	2'-10"	2'-10"	3'-3"	70	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-4"	3'-0"
40	Stress	2'-8"	2'-8"	3'-0"	75	Stress	2'-0"	2'-0"	2'-2"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
45	Stress	2'-6"	2'-6"	2'-10"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-5"	2'-5"	2'-8"	85	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-4"	3'-1"	2'-10"

XG-12
Aluminum Perforated

0.040 in

Ix: 0.0273 in^4/ft
Sx: 0.0602 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-5"	3'-4"	3'-0"
25	Stress	3'-1"	3'-1"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-5"	3'-3"	2'-11"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-10"
35	Stress	2'-7"	2'-7"	2'-11"	70	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	2'-5"	2'-5"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-8"

See page 3 for standard notes

Load / Span Data

XG-12
Aluminum Perforated — 0.040 in

Ix: 0.0181 in^4/ft
Sx: 0.0452 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'-0"	3'-0"	3'-4"	55	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-0"	4'-0"	3'-9"		Deflection	2'-2"	2'-11"	2'-8"
25	Stress	2'-8"	2'-8"	3'-0"	60	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-1"	2'-10"	2'-7"
30	Stress	2'-5"	2'-5"	2'-9"	65	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-0"	2'-9"	2'-6"
35	Stress	2'-3"	2'-3"	2'-6"	70	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-8"	2'-5"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	1'-11"	2'-7"	2'-5"
45	Stress	2'-0"	2'-0"	2'-3"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-3"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-4"
50	Stress	1'-11"	1'-11"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-2"	3'-0"	2'-9"		Deflection	1'-10"	2'-6"	2'-3"

XG-12
Aluminum Perforated — 0.050 in

Ix: 0.0748 in^4/ft
Sx: 0.1475 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'-5"	5'-5"	6'-1"	55	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-10"	6'-6"	5'-11"		Deflection	3'-5"	4'-8"	4'-3"
25	Stress	4'-10"	4'-10"	5'-5"	60	Stress	3'-2"	3'-2"	3'-6"
	Deflection	4'-6"	6'-0"	5'-6"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	4'-5"	4'-5"	5'-0"	65	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-3"	4'-5"	4'-0"
35	Stress	4'-1"	4'-1"	4'-7"	70	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-2"	4'-3"	3'-11"
40	Stress	3'-10"	3'-10"	4'-4"	75	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
45	Stress	3'-7"	3'-7"	4'-1"	80	Stress	2'-9"	2'-9"	3'-0"
	Deflection	3'-8"	4'-11"	4'-7"		Deflection	3'-0"	4'-1"	3'-9"
50	Stress	3'-5"	3'-5"	3'-10"	85	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-6"	4'-9"	4'-5"		Deflection	3'-0"	4'-0"	3'-8"

See page 3 for standard notes

XG-12
Aluminum Perforated

0.050 in

Ix: 0.0566 in^4/ft
Sx: 0.1101 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'-3"	55	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-1"	4'-3"	3'-10"
25	Stress	4'-2"	4'-2"	4'-8"	60	Stress	2'-9"	2'-9"	3'-0"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-0"	4'-1"	3'-9"
30	Stress	3'-10"	3'-10"	4'-3"	65	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	4'-0"	3'-8"
35	Stress	3'-7"	3'-7"	4'-0"	70	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-7"
40	Stress	3'-4"	3'-4"	3'-9"	75	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-6"
45	Stress	3'-2"	3'-2"	3'-6"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-9"	3'-5"
50	Stress	3'-0"	3'-0"	3'-4"	85	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-8"	3'-4"

XG-12
Aluminum Perforated

0.050 in

Ix: 0.0466 in^4/ft
Sx: 0.0942 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	4'-1"	5'-6"	5'-1"		Deflection	2'-11"	3'-11"	3'-8"
25	Stress	3'-11"	3'-11"	4'-4"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-10"	3'-10"	3'-6"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-9"	3'-9"	3'-5"
35	Stress	3'-3"	3'-3"	3'-8"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-8"	3'-4"
40	Stress	3'-1"	3'-1"	3'-5"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-2"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-2"

See page 3 for standard notes

Load / Span Data

XG-12
Aluminum Perforated

0.050 in

Ix: 0.0422 in^4/ft
Sx: 0.0881 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	4'-0"	5'-4"	4'-11"		Deflection	2'-10"	3'-10"	3'-6"
25	Stress	3'-9"	3'-9"	4'-2"	60	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-9"	3'-9"	3'-5"
30	Stress	3'-5"	3'-5"	3'-10"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-8"	3'-7"	3'-4"
35	Stress	3'-2"	3'-2"	3'-7"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-7"	3'-6"	3'-3"
40	Stress	3'-0"	3'-0"	3'-4"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-5"	3'-2"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-1"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"

XG-12
Aluminum Perforated

0.050 in

Ix: 0.0331 in^4/ft
Sx: 0.0733 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'-4"	2'-4"	2'-7"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-3"
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-6"	3'-5"	3'-2"
30	Stress	3'-2"	3'-2"	3'-6"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-6"	3'-4"	3'-1"
35	Stress	2'-11"	2'-11"	3'-3"	70	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	2'-8"	2'-8"	3'-0"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-7"	2'-7"	2'-10"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
50	Stress	2'-5"	2'-5"	2'-8"	85	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-3"	3'-1"	2'-10"

See page 3 for standard notes

XG-12
Aluminum Perforated

0.050 in

Ix: 0.0219 in^4/ft
Sx: 0.0551 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'-4"	3'-4"	3'-9"	55	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-3"	3'-1"	2'-10"
25	Stress	3'-0"	3'-0"	3'-4"	60	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-3"	3'-0"	2'-9"
30	Stress	2'-9"	2'-9"	3'-0"	65	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	2'-11"	2'-8"
35	Stress	2'-6"	2'-6"	2'-10"	70	Stress	1'-9"	1'-9"	2'-0"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-1"	2'-10"	2'-7"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-6"	3'-5"	3'-2"		Deflection	2'-1"	2'-9"	2'-7"
45	Stress	2'-3"	2'-3"	2'-6"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-5"	3'-3"	3'-0"		Deflection	2'-0"	2'-9"	2'-6"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-4"	3'-2"	2'-11"		Deflection	2'-0"	2'-8"	2'-5"

S-16
Aluminum Perforated

0.032 in

Ix: 0.0704 in^4/ft
Sx: 0.098 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'-9"	5'-9"	6'-5"	55	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-4"	4'-6"	4'-2"
25	Stress	5'-1"	5'-1"	5'-9"	60	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"
30	Stress	4'-8"	4'-8"	5'-3"	65	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	4'-4"	4'-4"	4'-10"	70	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	4'-0"	4'-0"	4'-6"	75	Stress	2'-11"	2'-11"	3'-4"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	3'-10"	3'-10"	4'-3"	80	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-0"	3'-8"
50	Stress	3'-7"	3'-7"	4'-0"	85	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"

See page 3 for standard notes

Load / Span Data

S-16
Aluminum Perforated

0.032 in

Ix: 0.0532 in^4/ft
Sx: 0.0731 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'-11"	4'-11"	5'-6"	55	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-3"	5'-9"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	4'-5"	4'-5"	4'-11"	60	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-0"	4'-0"	3'-8"
30	Stress	4'-0"	4'-0"	4'-6"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	3'-9"	3'-9"	4'-2"	70	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-7"	2'-7"	2'-10"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	3'-3"	3'-3"	3'-8"	80	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-8"	3'-4"
50	Stress	3'-1"	3'-1"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"

S-16
Aluminum Perforated

0.032 in

Ix: 0.0439 in^4/ft
Sx: 0.0626 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'-7"	4'-7"	5'-1"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	2'-10"	3'-10"	3'-7"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-9"	5'-0"	4'-8"		Deflection	2'-9"	3'-9"	3'-5"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-8"	3'-4"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-8"	3'-7"	3'-3"
40	Stress	3'-3"	3'-3"	3'-7"	75	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
45	Stress	3'-1"	3'-1"	3'-5"	80	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-2"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-6"	3'-4"	3'-1"

See page 3 for standard notes

S-16
Aluminum Perforated

0.032 in

Ix: 0.0397 in^4/ft
Sx: 0.0585 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'-5"	4'-5"	4'-11"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-7"	2'-7"	2'-10"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-7"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-10"	2'-10"	3'-1"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

S-16
Aluminum Perforated

0.032 in

Ix: 0.0312 in^4/ft
Sx: 0.0487 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'-0"	4'-0"	4'-6"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-7"	3'-5"	3'-2"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-4"	3'-1"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-8"	3'-7"	3'-3"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

Load / Span Data

S-16
Aluminum Perforated — 0.032 in

Ix: 0.0206 in^4/ft
Sx: 0.0366 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'-6"	3'-6"	3'-11"	55	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-3"	3'-0"	2'-9"
25	Stress	3'-1"	3'-1"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-2"	2'-11"	2'-8"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-9"	3'-8"	3'-5"		Deflection	2'-1"	2'-10"	2'-7"
35	Stress	2'-8"	2'-8"	2'-11"	70	Stress	1'-10"	1'-10"	2'-1"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-1"	2'-9"	2'-7"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-0"	2'-9"	2'-6"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	1'-11"
	Deflection	2'-5"	3'-3"	2'-11"		Deflection	2'-0"	2'-8"	2'-5"
50	Stress	2'-2"	2'-2"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	2'-4"	3'-1"	2'-10"		Deflection	1'-11"	2'-7"	2'-5"

S-16
Aluminum Perforated — 0.040 in

Ix: 0.0878 in^4/ft
Sx: 0.1215 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'-4"	6'-4"	7'-1"	55	Stress	3'-10"	3'-10"	4'-3"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-7"	4'-11"	4'-6"
25	Stress	5'-8"	5'-8"	6'-4"	60	Stress	3'-8"	3'-8"	4'-1"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	5'-2"	5'-2"	5'-10"	65	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	4'-10"	4'-10"	5'-5"	70	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-4"	4'-6"	4'-2"
40	Stress	4'-6"	4'-6"	5'-0"	75	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-1"
45	Stress	4'-3"	4'-3"	4'-9"	80	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	3'-2"	4'-4"	3'-11"
50	Stress	4'-0"	4'-0"	4'-6"	85	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-9"	5'-0"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"

See page 3 for standard notes

S-16
Aluminum Perforated

0.040 in

Ix: 0.066 in^4/ft
Sx: 0.0907 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'-6"	5'-6"	6'-2"	55	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-3"	4'-5"	4'-1"
25	Stress	4'-11"	4'-11"	5'-6"	60	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-3"	5'-9"	5'-4"		Deflection	3'-2"	4'-4"	4'-0"
30	Stress	4'-6"	4'-6"	5'-0"	65	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	4'-2"	4'-2"	4'-8"	70	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	3'-11"	3'-11"	4'-4"	75	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
45	Stress	3'-8"	3'-8"	4'-1"	80	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	3'-6"	3'-6"	3'-11"	85	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"

S-16
Aluminum Perforated

0.040 in

Ix: 0.0547 in^4/ft
Sx: 0.0776 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	5'-1"	5'-1"	5'-8"	55	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	4'-7"	4'-7"	5'-1"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-0"	4'-1"	3'-9"
30	Stress	4'-2"	4'-2"	4'-8"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	3'-10"	3'-10"	4'-4"	70	Stress	2'-9"	2'-9"	3'-0"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	3'-7"	3'-7"	4'-0"	75	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	3'-5"	3'-5"	3'-9"	80	Stress	2'-7"	2'-7"	2'-10"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-9"	3'-8"	3'-5"
50	Stress	3'-3"	3'-3"	3'-7"	85	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-8"	3'-7"	3'-4"

See page 3 for standard notes

Load / Span Data

S-16
Aluminum Perforated

0.040 in

Ix: 0.0495 in^4/ft
Sx: 0.0725 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'-11"	4'-11"	5'-6"	55	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	4'-5"	4'-5"	4'-11"	60	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	4'-0"	4'-0"	4'-6"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-9"	3'-9"	4'-2"	70	Stress	2'-8"	2'-8"	2'-11"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-8"	3'-8"	3'-4"
45	Stress	3'-3"	3'-3"	3'-8"	80	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	3'-1"	3'-1"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

S-16
Aluminum Perforated

0.040 in

Ix: 0.0389 in^4/ft
Sx: 0.0604 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'-6"	4'-6"	5'-0"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	4'-0"	4'-0"	4'-6"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	3'-8"	3'-8"	4'-1"	65	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-7"	3'-5"	3'-2"
40	Stress	3'-2"	3'-2"	3'-7"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	3'-0"	3'-0"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	2'-11"

See page 3 for standard notes

S-16
Aluminum Perforated

0.040 in

Ix: 0.0257 in^4/ft
Sx: 0.0453 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'-11"	3'-11"	4'-4"	55	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	2'-11"	2'-11"	3'-3"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-8"
50	Stress	2'-5"	2'-5"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

S-16
Aluminum Perforated

0.050 in

Ix: 0.1094 in^4/ft
Sx: 0.1504 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	7'-1"	7'-1"	7'-11"	55	Stress	4'-3"	4'-3"	4'-9"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	3'-11"	5'-3"	4'-10"
25	Stress	6'-4"	6'-4"	7'-1"	60	Stress	4'-1"	4'-1"	4'-7"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-9"	5'-1"	4'-8"
30	Stress	5'-9"	5'-9"	6'-6"	65	Stress	3'-11"	3'-11"	4'-5"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-8"	5'-0"	4'-7"
35	Stress	5'-4"	5'-4"	6'-0"	70	Stress	3'-9"	3'-9"	4'-3"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-7"	4'-10"	4'-5"
40	Stress	5'-0"	5'-0"	5'-7"	75	Stress	3'-8"	3'-8"	4'-1"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-6"	4'-9"	4'-4"
45	Stress	4'-9"	4'-9"	5'-3"	80	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-5"	4'-8"	4'-3"
50	Stress	4'-6"	4'-6"	5'-0"	85	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-4"	4'-7"	4'-2"

See page 3 for standard notes

Load / Span Data

S-16
Aluminum Perforated

0.050 in

Ix: 0.0827 in^4/ft
Sx: 0.1122 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	6'-1"	6'-1"	6'-10"	55	Stress	3'-8"	3'-8"	4'-1"
	Deflection	5'-0"	6'-8"	6'-2"		Deflection	3'-7"	4'-9"	4'-5"
25	Stress	5'-6"	5'-6"	6'-1"	60	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-5"	4'-8"	4'-3"
30	Stress	5'-0"	5'-0"	5'-7"	65	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-4"	5'-10"	5'-5"		Deflection	3'-4"	4'-6"	4'-2"
35	Stress	4'-7"	4'-7"	5'-2"	70	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-3"	4'-5"	4'-1"
40	Stress	4'-4"	4'-4"	4'-10"	75	Stress	3'-2"	3'-2"	3'-6"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-2"	4'-4"	4'-0"
45	Stress	4'-1"	4'-1"	4'-7"	80	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	3'-10"	3'-10"	4'-4"	85	Stress	3'-0"	3'-0"	3'-4"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-1"	4'-2"	3'-10"

S-16
Aluminum Perforated

0.050 in

Ix: 0.0681 in^4/ft
Sx: 0.096 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	5'-8"	5'-8"	6'-4"	55	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-4"	4'-6"	4'-1"
25	Stress	5'-1"	5'-1"	5'-8"	60	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-3"	4'-4"	4'-0"
30	Stress	4'-7"	4'-7"	5'-2"	65	Stress	3'-2"	3'-2"	3'-6"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	4'-3"	4'-3"	4'-9"	70	Stress	3'-0"	3'-0"	3'-5"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	4'-0"	4'-0"	4'-6"	75	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	3'-9"	3'-9"	4'-3"	80	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	4'-0"	3'-8"
50	Stress	3'-7"	3'-7"	4'-0"	85	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-11"	3'-7"

See page 3 for standard notes

S-16
Aluminum Perforated

0.050 in

Ix: 0.0617 in^4/ft
Sx: 0.0898 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	5'-6"	5'-6"	6'-1"	55	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	4'-11"	4'-11"	5'-6"	60	Stress	3'-2"	3'-2"	3'-6"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-1"	4'-3"	3'-10"
30	Stress	4'-6"	4'-6"	5'-0"	65	Stress	3'-0"	3'-0"	3'-5"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-1"	4'-1"	3'-9"
35	Stress	4'-2"	4'-2"	4'-7"	70	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	3'-10"	3'-10"	4'-4"	75	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	3'-8"	3'-8"	4'-1"	80	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	3'-6"	3'-6"	3'-10"	85	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

S-16
Aluminum Perforated

0.050 in

Ix: 0.0485 in^4/ft
Sx: 0.0747 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	5'-0"	5'-0"	5'-7"	55	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	4'-6"	4'-6"	5'-0"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	4'-1"	4'-1"	4'-7"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	3'-9"	3'-9"	4'-3"	70	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	3'-4"	3'-4"	3'-9"	80	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	3'-2"	3'-2"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

See page 3 for standard notes

Load / Span Data

S-16
Aluminum Perforated

0.050 in

Ix: 0.032 in^4/ft
Sx: 0.0561 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	4'-4"	4'-4"	4'-10"	55	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	3'-10"	3'-10"	4'-4"	60	Stress	2'-6"	2'-6"	2'-9"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	3'-6"	3'-6"	3'-11"	65	Stress	2'-5"	2'-5"	2'-8"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	3'-3"	3'-3"	3'-8"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	3'-1"	3'-1"	3'-5"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

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