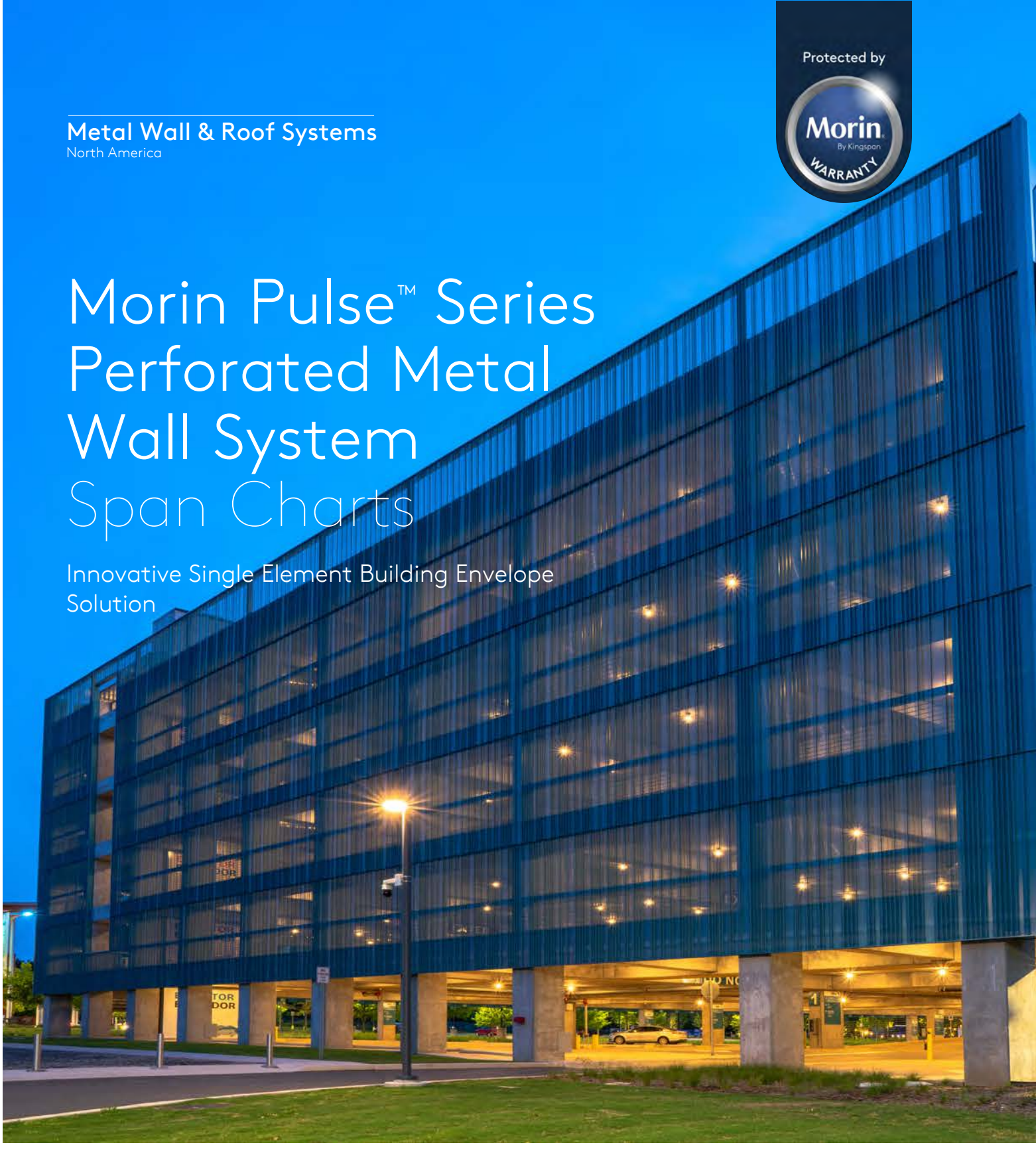
Metal Wall & Roof Systems
North America

Protected by Morin By Kingspan WARRANTY

Morin Pulse™ Series Perforated Metal Wall System Span Charts

Innovative Single Element Building Envelope Solution



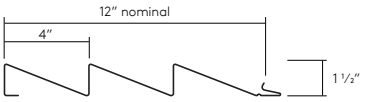
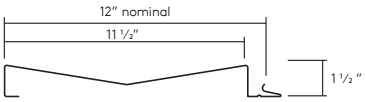
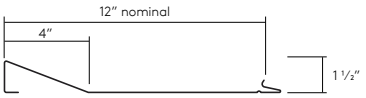
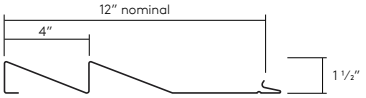
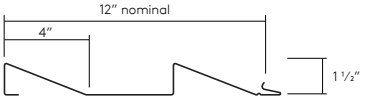
PLANET PASSIONATE

Morin® By Kingspan

Product Data

Morin Pulse™ Series Range

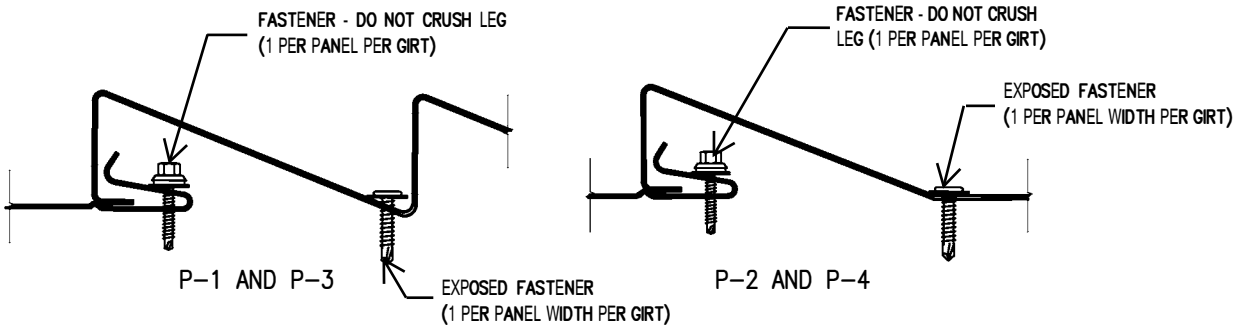
The Morin Pulse™ Series offers seven unique profiles featuring triangular ribs that emulate the electrical peaks generated by a heartbeat. The panels can be installed horizontally and/or vertically for different visual effects.

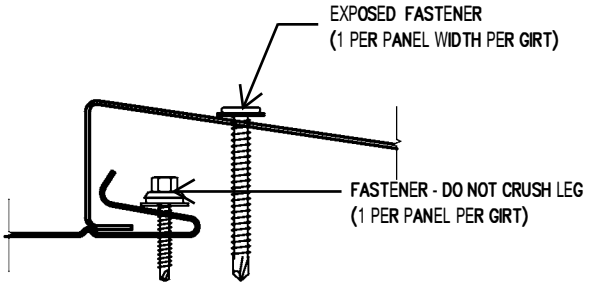
Profile Options	
Pulse P-1 	**Pulse P-9** 
Pulse P-2 	**Pulse P-10** 
Pulse P-3 	**Pulse P-11** 
Pulse P-4 	

Available Lengths

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

Shorter and longer lengths available on request.





P–9, P–10, AND P–11

HWH FASTENER OR PANCAKE HEAD FASTENER W/ STANDARD 5/8" WASHER AS REQ'D FOR TYPICAL FASTENING ASSEMBLY FOR ALL PULSE 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

P-1
Aluminum Perforated

0.032 in

Ix: 0.0864 in^4/ft
Sx: 0.0986 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"	5'-0"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	5'-0"	6'-10"	6'-3"		Deflection	3'-7"	4'-10"	4'-6"
25	Stress	4'-0"	4'-0"	4'-5"	60	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	3'-8"	3'-8"	4'-1"	65	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-5"	5'-11"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-4"	4'-6"	4'-1"
40	Stress	3'-2"	3'-2"	3'-6"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-0"
45	Stress	3'-0"	3'-0"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

P-1
Aluminum Perforated

0.032 in

Ix: 0.0653 in^4/ft
Sx: 0.0736 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'-4"	2'-4"	2'-7"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-1"
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-2"	4'-4"	3'-11"
30	Stress	3'-2"	3'-2"	3'-6"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	2'-11"	2'-11"	3'-3"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-9"	2'-9"	3'-0"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	4'-0"	3'-8"
45	Stress	2'-7"	2'-7"	2'-10"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	2'-5"	2'-5"	2'-9"	85	Stress	1'-10"	1'-10"	2'-1"
	Deflection		4'-7"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

P-1
Aluminum Perforated

0.032 in

Ix: 0.0538 in^4/ft
Sx: 0.063 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	4'-4"	5'-10"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-3"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-0"	4'-0"	3'-8"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-9"	3'-8"	3'-4"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-4"

P-1
Aluminum Perforated

0.032 in

Ix: 0.0487 in^4/ft
Sx: 0.0588 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'-4"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	3'-1"	3'-1"	3'-5"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	2'-7"	2'-7"	2'-11"	70	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	2'-5"	2'-5"	2'-9"	75	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-3"	2'-3"	2'-7"	80	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

See page 3 for standard notes

Load / Span Data

P-1
Aluminum Perforated

0.032 in

Ix: 0.0383 in^4/ft
Sx: 0.049 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'-6"	55	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-7"	2'-7"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-4"	2'-4"	2'-8"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

P-1
Aluminum Perforated

0.032 in

Ix: 0.0253 in^4/ft
Sx: 0.0368 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'-0"	55	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-5"	2'-5"	2'-9"	60	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-3"	2'-3"	2'-6"	65	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	3'-0"	2'-9"
40	Stress	1'-11"	1'-11"	2'-2"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	1'-10"	1'-10"	2'-0"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	1'-9"	1'-9"	1'-11"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-9"	2'-7"

See page 3 for standard notes

P-1
Aluminum Perforated

0.040 in

Ix: 0.1085 in^4/ft
Sx: 0.1231 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	5'-5"	7'-4"	6'-9"		Deflection	3'-11"	5'-3"	4'-10"
25	Stress	4'-5"	4'-5"	5'-0"	60	Stress	2'-10"	2'-10"	3'-2"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-9"	5'-1"	4'-8"
30	Stress	4'-1"	4'-1"	4'-6"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-8"	4'-11"	4'-7"
35	Stress	3'-9"	3'-9"	4'-2"	70	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-7"	4'-10"	4'-5"
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-6"	4'-9"	4'-4"
45	Stress	3'-4"	3'-4"	3'-8"	80	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-5"	4'-7"	4'-3"
50	Stress	3'-2"	3'-2"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-4"	4'-6"	4'-2"

P-1
Aluminum Perforated

0.040 in

Ix: 0.082 in^4/ft
Sx: 0.0919 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'-10"	55	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	3'-6"	4'-9"	4'-5"
25	Stress	3'-10"	3'-10"	4'-3"	60	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-5"	4'-8"	4'-3"
30	Stress	3'-6"	3'-6"	3'-11"	65	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-4"	4'-6"	4'-2"
35	Stress	3'-3"	3'-3"	3'-7"	70	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-3"	4'-5"	4'-1"
40	Stress	3'-0"	3'-0"	3'-5"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-2"	4'-4"	3'-11"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-3"	3'-10"
50	Stress	2'-9"	2'-9"	3'-0"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-1"	4'-2"	3'-9"

See page 3 for standard notes

Load / Span Data

P-1
Aluminum Perforated

0.040 in

Ix: 0.0676 in^4/ft
Sx: 0.0786 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'-0"	4'-0"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-4"	4'-6"	4'-1"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-3"	4'-4"	4'-0"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-6"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-0"	4'-0"	3'-8"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-9"	4'-5"		Deflection	2'-11"	3'-11"	3'-8"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-7"

P-1
Aluminum Perforated

0.040 in

Ix: 0.0612 in^4/ft
Sx: 0.0735 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	4'-6"	6'-1"	5'-7"		Deflection	3'-2"	4'-4"	4'-0"
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	3'-2"	3'-2"	3'-6"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-11"	2'-11"	3'-3"	70	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	2'-9"	2'-9"	3'-0"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-7"	2'-7"	2'-10"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-5"	2'-5"	2'-9"	85	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

See page 3 for standard notes

P-1
Aluminum Perforated

0.040 in

Ix: 0.0481 in^4/ft
Sx: 0.0612 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	4'-2"	5'-7"	5'-2"		Deflection	2'-11"	4'-0"	3'-8"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-10"	3'-11"	3'-7"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	2'-8"	2'-8"	2'-11"	70	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

P-1
Aluminum Perforated

0.040 in

Ix: 0.0318 in^4/ft
Sx: 0.0459 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'-5"	55	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-9"	2'-9"	3'-0"	60	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-6"	2'-6"	2'-9"	65	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-3"	3'-0"
35	Stress	2'-3"	2'-3"	2'-7"	70	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-0"	2'-0"	2'-3"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	1'-11"	1'-11"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

Load / Span Data

P-1
Aluminum Perforated

0.050 in

Ix: 0.1362 in^4/ft
Sx: 0.1536 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'-2"	55	Stress	3'-4"	3'-4"	3'-9"
	Deflection	5'-10"	7'-11"	7'-3"		Deflection	4'-2"	5'-8"	5'-2"
25	Stress	4'-11"	4'-11"	5'-7"	60	Stress	3'-2"	3'-2"	3'-7"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-1"	5'-6"	5'-1"
30	Stress	4'-6"	4'-6"	5'-1"	65	Stress	3'-1"	3'-1"	3'-5"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-0"	5'-4"	4'-11"
35	Stress	4'-2"	4'-2"	4'-8"	70	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-10"	5'-3"	4'-9"
40	Stress	3'-11"	3'-11"	4'-5"	75	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-9"	5'-1"	4'-8"
45	Stress	3'-8"	3'-8"	4'-2"	80	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-8"	5'-0"	4'-7"
50	Stress	3'-6"	3'-6"	3'-11"	85	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-7"	4'-11"	4'-6"

P-1
Aluminum Perforated

0.050 in

Ix: 0.1029 in^4/ft
Sx: 0.1146 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'-9"	4'-9"	5'-4"	55	Stress	2'-11"	2'-11"	3'-3"
	Deflection	5'-4"	7'-3"	6'-7"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	4'-3"	4'-3"	4'-9"	60	Stress	2'-9"	2'-9"	3'-1"
	Deflection	5'-0"	6'-8"	6'-2"		Deflection	3'-8"	5'-0"	4'-7"
30	Stress	3'-11"	3'-11"	4'-4"	65	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-8"	6'-4"	5'-9"		Deflection	3'-7"	4'-10"	4'-6"
35	Stress	3'-7"	3'-7"	4'-1"	70	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-4"
40	Stress	3'-5"	3'-5"	3'-9"	75	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	3'-2"	3'-2"	3'-7"	80	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-7"	4'-2"
50	Stress	3'-0"	3'-0"	3'-5"	85	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-4"	4'-5"	4'-1"

P-1
Aluminum Perforated

0.050 in

Ix: 0.0848 in^4/ft
Sx: 0.0981 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'-5"	4'-5"	4'-11"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	5'-0"	6'-9"	6'-3"		Deflection	3'-7"	4'-10"	4'-5"
25	Stress	4'-0"	4'-0"	4'-5"	60	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-6"	4'-8"	4'-4"
30	Stress	3'-7"	3'-7"	4'-1"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-5"	4'-7"	4'-2"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-4"	4'-5"	4'-1"
40	Stress	3'-2"	3'-2"	3'-6"	75	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-3"	4'-4"	4'-0"
45	Stress	2'-11"	2'-11"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

P-1
Aluminum Perforated

0.050 in

Ix: 0.0769 in^4/ft
Sx: 0.0917 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'-3"	4'-3"	4'-9"	55	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-6"	4'-8"	4'-3"
25	Stress	3'-10"	3'-10"	4'-3"	60	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	3'-6"	3'-6"	3'-11"	65	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	3'-3"	3'-3"	3'-7"	70	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-2"	4'-4"	4'-0"
40	Stress	3'-0"	3'-0"	3'-5"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-3"	3'-10"
45	Stress	2'-10"	2'-10"	3'-2"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-1"	3'-9"
50	Stress	2'-9"	2'-9"	3'-0"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-0"	3'-9"

See page 3 for standard notes

Load / Span Data

P-1
Aluminum Perforated

0.050 in

Ix: 0.0603 in^4/ft
Sx: 0.0763 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'-11"	3'-11"	4'-4"	55	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-6"	6'-0"	5'-7"		Deflection	3'-2"	4'-4"	3'-11"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-11"	2'-11"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-11"	4'-0"	3'-8"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-9"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

P-1
Aluminum Perforated

0.050 in

Ix: 0.0399 in^4/ft
Sx: 0.0573 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'-9"	55	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	3'-0"	3'-0"	3'-5"	60	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	2'-9"	2'-9"	3'-1"	65	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-7"	2'-7"	2'-10"	70	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-5"	2'-5"	2'-8"	75	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-3"	2'-3"	2'-6"	80	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-1"
50	Stress	2'-2"	2'-2"	2'-5"	85	Stress	1'-8"	1'-8"	1'-10"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

P-2
Aluminum Perforated

0.040 in

Ix: 0.0775 in^4/ft
Sx: 0.061 in^3/ft
Perforation: 10%

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

P-2
Aluminum Perforated

0.040 in

Ix: 0.0586 in^4/ft
Sx: 0.0455 in^3/ft
Perforation: 23%

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

See page 3 for standard notes

Load / Span Data

P-2
Aluminum Perforated

0.040 in

Ix: 0.0483 in^4/ft
Sx: 0.0389 in^3/ft
Perforation: 30%

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

P-2
Aluminum Perforated

0.040 in

Ix: 0.0437 in^4/ft
Sx: 0.0364 in^3/ft
Perforation: 33%

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

P-2
Aluminum Perforated

0.040 in

Ix: 0.0343 in^4/ft
Sx: 0.0303 in^3/ft
Perforation: 40%

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

P-2
Aluminum Perforated

0.040 in

Ix: 0.0227 in^4/ft
Sx: 0.0228 in^3/ft
Perforation: 51%

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

See page 3 for standard notes

Load / Span Data

P-2
Aluminum Perforated

0.050 in

Ix: 0.0972 in^4/ft
Sx: 0.0761 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'-11"	3'-11"	4'-4"	55	Stress	2'-4"	2'-4"	2'-8"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	3'-9"	5'-1"	4'-8"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-8"	4'-11"	4'-6"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-6"	4'-9"	4'-5"
35	Stress	2'-11"	2'-11"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-4"	5'-10"	5'-5"		Deflection	3'-5"	4'-8"	4'-3"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-4"	4'-7"	4'-2"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-4"	4'-5"	4'-1"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	3'-3"	4'-4"	4'-0"

P-2
Aluminum Perforated

0.050 in

Ix: 0.0734 in^4/ft
Sx: 0.0568 in^3/ft
Perforation: 23%

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

P-2
Aluminum Perforated

0.050 in

Ix: 0.0605 in^4/ft
Sx: 0.0486 in^3/ft
Perforation: 30%

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

P-2
Aluminum Perforated

0.050 in

Ix: 0.0548 in^4/ft
Sx: 0.0454 in^3/ft
Perforation: 33%

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

See page 3 for standard notes

Load / Span Data

P-2
Aluminum Perforated

0.050 in

Ix: 0.043 in^4/ft
Sx: 0.0378 in^3/ft
Perforation: 40%

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

P-2
Aluminum Perforated

0.050 in

Ix: 0.0285 in^4/ft
Sx: 0.0284 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'-5"	2'-5"	2'-8"	55	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-6"	3'-4"	3'-1"
25	Stress	2'-2"	2'-2"	2'-5"	60	Stress	1'-5"	1'-5"	1'-6"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-5"	3'-3"	3'-0"
30	Stress	1'-11"	1'-11"	2'-2"	65	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-4"	3'-2"	2'-11"
35	Stress	1'-10"	1'-10"	2'-0"	70	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-1"	2'-10"
40	Stress	1'-8"	1'-8"	1'-11"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-0"	2'-9"
45	Stress	1'-7"	1'-7"	1'-9"	80	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
50	Stress	1'-6"	1'-6"	1'-8"	85	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-2"	2'-11"	2'-8"

P-3
Aluminum Perforated

0.032 in

Ix: 0.0867 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	5'-1"	6'-10"	6'-3"		Deflection	3'-7"	4'-10"	4'-6"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-5"	5'-11"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-4"	4'-6"	4'-1"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-0"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

P-3
Aluminum Perforated

0.032 in

Ix: 0.0655 in^4/ft
Sx: 0.0622 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	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-1"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-2"	4'-4"	3'-11"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
45	Stress	2'-4"	2'-4"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

Load / Span Data

P-3
Aluminum Perforated

0.032 in

Ix: 0.054 in^4/ft
Sx: 0.0532 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	4'-4"	5'-10"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-0"	4'-0"	3'-8"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-9"	3'-8"	3'-4"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-4"

P-3
Aluminum Perforated

0.032 in

Ix: 0.0489 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	4'-2"	5'-8"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-6"	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'-6"	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'-4"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

P-3
Aluminum Perforated

0.032 in

Ix: 0.0384 in^4/ft
Sx: 0.0414 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'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	2'-7"	2'-7"	2'-11"	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'-8"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-2"	4'-4"	3'-11"		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'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	1'-11"	1'-11"	2'-2"	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'-5"	1'-5"	1'-7"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

P-3
Aluminum Perforated

0.032 in

Ix: 0.0254 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	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-0"	2'-0"	2'-3"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	1'-11"	1'-11"	2'-1"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	3'-0"	2'-9"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	1'-8"	1'-8"	1'-10"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

Load / Span Data

P-3
Aluminum Perforated

0.040 in

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

P-3
Aluminum Perforated

0.040 in

Ix: 0.0824 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	5'-0"	6'-8"	6'-2"		Deflection	3'-6"	4'-9"	4'-5"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-5"	4'-8"	4'-3"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-4"	4'-6"	4'-2"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-3"	4'-5"	4'-1"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-2"	4'-4"	4'-0"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-3"	3'-10"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-1"	4'-2"	3'-10"

P-3
Aluminum Perforated

0.040 in

Ix: 0.0679 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	4'-8"	6'-3"	5'-9"		Deflection	3'-4"	4'-6"	4'-1"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-3"	4'-4"	4'-0"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-0"	4'-0"	3'-9"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-7"	4'-9"	4'-5"		Deflection	2'-11"	3'-11"	3'-8"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-11"	3'-7"

P-3
Aluminum Perforated

0.040 in

Ix: 0.0615 in^4/ft
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	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-1"	4'-3"	3'-10"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-9"	5'-0"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

See page 3 for standard notes

Load / Span Data

P-3
Aluminum Perforated

0.040 in

Ix: 0.0483 in^4/ft
Sx: 0.0512 in^3/ft
Perforation: 40%

Load psf		Single Span (ft)	Double Span (ft)	Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	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'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-9"	1'-9"	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'-2"	2'-2"	2'-5"	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'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

P-3
Aluminum Perforated

0.040 in

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

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Load / Span Data

P-3
Aluminum Perforated

0.050 in

Ix: 0.1366 in^4/ft
Sx: 0.1286 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	5'-10"	7'-11"	7'-3"		Deflection	4'-2"	5'-8"	5'-2"
25	Stress	4'-6"	4'-6"	5'-1"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-1"	5'-6"	5'-1"
30	Stress	4'-2"	4'-2"	4'-8"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	5'-2"	6'-11"	6'-4"		Deflection	4'-0"	5'-4"	4'-11"
35	Stress	3'-10"	3'-10"	4'-3"	70	Stress	2'-9"	2'-9"	3'-0"
	Deflection	4'-10"	6'-7"	6'-1"		Deflection	3'-10"	5'-3"	4'-10"
40	Stress	3'-7"	3'-7"	4'-0"	75	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-9"	5'-1"	4'-8"
45	Stress	3'-5"	3'-5"	3'-9"	80	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-8"	5'-0"	4'-7"
50	Stress	3'-2"	3'-2"	3'-7"	85	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-7"	4'-11"	4'-6"

P-3
Aluminum Perforated

0.050 in

Ix: 0.1033 in^4/ft
Sx: 0.096 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"	2'-11"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	5'-0"	6'-8"	6'-2"		Deflection	3'-8"	5'-0"	4'-7"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-7"	4'-10"	4'-6"
35	Stress	3'-4"	3'-4"	3'-8"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-4"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-7"	4'-2"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-1"	2'-1"	2'-5"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-4"	4'-5"	4'-1"

See page 3 for standard notes

P-3
Aluminum Perforated

0.050 in

Ix: 0.0851 in^4/ft
Sx: 0.0821 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	5'-0"	6'-9"	6'-3"		Deflection	3'-7"	4'-10"	4'-5"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-6"	4'-8"	4'-4"
30	Stress	3'-4"	3'-4"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-5"	4'-7"	4'-2"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-4"	4'-6"	4'-1"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-3"	4'-4"	4'-0"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

P-3
Aluminum Perforated

0.050 in

Ix: 0.0771 in^4/ft
Sx: 0.0768 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'-4"	2'-4"	2'-8"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-6"	4'-8"	4'-4"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-2"	4'-4"	4'-0"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-3"	3'-10"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-9"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-1"	3'-9"

See page 3 for standard notes

Load / Span Data

P-3
Aluminum Perforated

0.050 in

Ix: 0.0605 in^4/ft
Sx: 0.0639 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	4'-6"	6'-1"	5'-7"		Deflection	3'-2"	4'-4"	4'-0"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-11"	4'-0"	3'-8"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

P-3
Aluminum Perforated

0.050 in

Ix: 0.04 in^4/ft
Sx: 0.048 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'-10"	1'-10"	2'-1"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	2'-6"	2'-6"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-4"	2'-4"	2'-7"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-1"
50	Stress	2'-0"	2'-0"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

P-4
Aluminum Perforated

0.032 in

Ix: 0.0867 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	5'-1"	6'-10"	6'-3"		Deflection	3'-7"	4'-10"	4'-6"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-5"	5'-11"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-4"	4'-6"	4'-1"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-0"
45	Stress	2'-9"	2'-9"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

P-4
Aluminum Perforated

0.032 in

Ix: 0.0655 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	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-1"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-2"	4'-4"	3'-11"
30	Stress	2'-10"	2'-10"	3'-3"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

Load / Span Data

P-4
Aluminum Perforated

0.032 in

Ix: 0.054 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	4'-4"	5'-10"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-0"	4'-0"	3'-8"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	2'-6"	2'-6"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-9"	3'-8"	3'-4"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-4"

P-4
Aluminum Perforated

0.032 in

Ix: 0.0489 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	4'-2"	5'-8"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	2'-7"	2'-7"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-6"	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'-6"	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'-4"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

P-4
Aluminum Perforated

0.032 in

Ix: 0.0384 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'-10"	5'-2"	4'-9"		Deflection	2'-9"	3'-8"	3'-5"
25	Stress	2'-7"	2'-7"	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'-6"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-2"	4'-4"	3'-11"		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'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
45	Stress	1'-11"	1'-11"	2'-2"	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'-5"	1'-5"	1'-7"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"

P-4
Aluminum Perforated

0.032 in

Ix: 0.0254 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	3'-4"	4'-6"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-0"	2'-0"	2'-3"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	1'-11"	1'-11"	2'-1"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-2"	3'-0"	2'-9"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	1'-8"	1'-8"	1'-10"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-7"	3'-5"	3'-2"		Deflection	2'-1"	2'-10"	2'-7"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

Load / Span Data

P-4
Aluminum Perforated

0.040 in

Ix: 0.109 in^4/ft
Sx: 0.1028 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	5'-5"	7'-4"	6'-9"		Deflection	3'-11"	5'-3"	4'-10"
25	Stress	4'-1"	4'-1"	4'-6"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-9"	5'-1"	4'-8"
30	Stress	3'-8"	3'-8"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-8"	5'-0"	4'-7"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-7"	4'-10"	4'-5"
40	Stress	3'-2"	3'-2"	3'-7"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-6"	4'-9"	4'-4"
45	Stress	3'-0"	3'-0"	3'-5"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-5"	4'-8"	4'-3"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-6"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-4"	4'-6"	4'-2"

P-4
Aluminum Perforated

0.040 in

Ix: 0.0824 in^4/ft
Sx: 0.0767 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	5'-0"	6'-8"	6'-2"		Deflection	3'-6"	4'-9"	4'-5"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-5"	4'-8"	4'-3"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-4"	4'-6"	4'-2"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-3"	4'-5"	4'-1"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-2"	4'-4"	4'-0"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-3"	3'-10"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-1"	4'-2"	3'-10"

P-4
Aluminum Perforated

0.040 in

Ix: 0.0679 in^4/ft
Sx: 0.0657 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'-1"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-4"	4'-6"	4'-1"
25	Stress	3'-3"	3'-3"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-3"	4'-4"	4'-0"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-0"	4'-0"	3'-9"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-7"	4'-9"	4'-5"		Deflection	2'-11"	3'-11"	3'-8"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-11"	3'-7"

P-4
Aluminum Perforated

0.040 in

Ix: 0.0615 in^4/ft
Sx: 0.0614 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	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	3'-2"	3'-2"	3'-6"	60	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-1"	4'-3"	3'-10"
30	Stress	2'-10"	2'-10"	3'-2"	65	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-9"	5'-0"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	2'-6"	2'-6"	2'-9"	75	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-4"	2'-4"	2'-7"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

See page 3 for standard notes

Load / Span Data

P-4
Aluminum Perforated

0.040 in

Ix: 0.0483 in^4/ft
Sx: 0.0511 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	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'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-9"	1'-9"	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'-2"	2'-2"	2'-5"	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'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

P-4
Aluminum Perforated

0.040 in

Ix: 0.0319 in^4/ft
Sx: 0.0384 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'-7"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-6"	2'-6"	2'-9"	60	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-3"	2'-3"	2'-6"	65	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	1'-11"	1'-11"	2'-2"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	1'-10"	1'-10"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	1'-9"	1'-9"	1'-11"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

P-4
Aluminum Perforated

0.050 in

Ix: 0.1366 in^4/ft
Sx: 0.1282 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	5'-10"	7'-11"	7'-3"		Deflection	4'-2"	5'-8"	5'-2"
25	Stress	4'-6"	4'-6"	5'-1"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-1"	5'-6"	5'-1"
30	Stress	4'-2"	4'-2"	4'-7"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	5'-2"	6'-11"	6'-4"		Deflection	4'-0"	5'-4"	4'-11"
35	Stress	3'-10"	3'-10"	4'-3"	70	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-10"	6'-7"	6'-1"		Deflection	3'-10"	5'-3"	4'-10"
40	Stress	3'-7"	3'-7"	4'-0"	75	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-9"	5'-1"	4'-8"
45	Stress	3'-5"	3'-5"	3'-9"	80	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-8"	5'-0"	4'-7"
50	Stress	3'-2"	3'-2"	3'-7"	85	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-7"	4'-11"	4'-6"

P-4
Aluminum Perforated

0.050 in

Ix: 0.1033 in^4/ft
Sx: 0.0957 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	5'-4"	7'-3"	6'-8"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	3'-11"	3'-11"	4'-4"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	5'-0"	6'-8"	6'-2"		Deflection	3'-8"	5'-0"	4'-7"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-7"	4'-10"	4'-6"
35	Stress	3'-4"	3'-4"	3'-8"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-4"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-7"	4'-2"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-4"	4'-5"	4'-1"

See page 3 for standard notes

Load / Span Data

P-4
Aluminum Perforated

0.050 in

Ix: 0.0851 in^4/ft
Sx: 0.0819 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	5'-0"	6'-9"	6'-3"		Deflection	3'-7"	4'-10"	4'-5"
25	Stress	3'-7"	3'-7"	4'-1"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-6"	4'-8"	4'-4"
30	Stress	3'-4"	3'-4"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-5"	4'-7"	4'-2"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-4"	4'-6"	4'-1"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-3"	4'-4"	4'-0"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

P-4
Aluminum Perforated

0.050 in

Ix: 0.0771 in^4/ft
Sx: 0.0766 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'-4"	2'-4"	2'-8"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-6"	4'-8"	4'-4"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-2"	4'-4"	4'-0"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-3"	3'-10"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-9"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-1"	3'-9"

P-4
Aluminum Perforated

0.050 in

Ix: 0.0605 in^4/ft
Sx: 0.0637 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	4'-6"	6'-1"	5'-7"		Deflection	3'-2"	4'-4"	4'-0"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-11"	4'-0"	3'-8"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

P-4
Aluminum Perforated

0.050 in

Ix: 0.04 in^4/ft
Sx: 0.0479 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'-10"	1'-10"	2'-1"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	2'-6"	2'-6"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-4"	2'-4"	2'-7"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-1"
50	Stress	1'-11"	1'-11"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

Load / Span Data

P-9
Aluminum Perforated

0.032 in

Ix: 0.0935 in^4/ft
Sx: 0.0699 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	5'-2"	7'-0"	6'-5"		Deflection	3'-8"	5'-0"	4'-7"
25	Stress	3'-4"	3'-4"	3'-9"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-10"	6'-6"	5'-11"		Deflection	3'-7"	4'-10"	4'-5"
30	Stress	3'-1"	3'-1"	3'-5"	65	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-6"	4'-9"	4'-4"
35	Stress	2'-10"	2'-10"	3'-2"	70	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-5"	4'-7"	4'-3"
40	Stress	2'-8"	2'-8"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-4"	4'-6"	4'-2"
45	Stress	2'-6"	2'-6"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-3"	4'-5"	4'-1"
50	Stress	2'-4"	2'-4"	2'-8"	85	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-4"	4'-0"

P-9
Aluminum Perforated

0.032 in

Ix: 0.0707 in^4/ft
Sx: 0.0522 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	4'-9"	6'-4"	5'-10"		Deflection	3'-4"	4'-6"	4'-2"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"
30	Stress	2'-8"	2'-8"	2'-11"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-2"	4'-4"	3'-11"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-3"	2'-3"	2'-7"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
50	Stress	2'-1"	2'-1"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"

See page 3 for standard notes

P-9
Aluminum Perforated

0.032 in

Ix: 0.0582 in^4/ft
Sx: 0.0447 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	4'-5"	6'-0"	5'-6"		Deflection	3'-2"	4'-3"	3'-11"
25	Stress	2'-8"	2'-8"	3'-0"	60	Stress	1'-9"	1'-9"	1'-11"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	2'-5"	2'-5"	2'-9"	65	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	3'-0"	4'-0"	3'-8"
35	Stress	2'-3"	2'-3"	2'-6"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-8"	4'-11"	4'-7"		Deflection	2'-11"	3'-11"	3'-7"
40	Stress	2'-1"	2'-1"	2'-4"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-10"	3'-10"	3'-6"
45	Stress	2'-0"	2'-0"	2'-3"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-9"	3'-9"	3'-5"
50	Stress	1'-11"	1'-11"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-9"	3'-8"	3'-5"

P-9
Aluminum Perforated

0.032 in

Ix: 0.0528 in^4/ft
Sx: 0.0418 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	4'-3"	5'-9"	5'-4"		Deflection	3'-1"	4'-1"	3'-9"
25	Stress	2'-7"	2'-7"	2'-11"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-0"	4'-0"	3'-8"
30	Stress	2'-4"	2'-4"	2'-8"	65	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-7"	4'-9"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	2'-1"	2'-1"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-8"	3'-4"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"

See page 3 for standard notes

Load / Span Data

P-9
Aluminum Perforated

0.032 in

Ix: 0.0414 in^4/ft
Sx: 0.0348 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'-11"	5'-4"	4'-11"		Deflection	2'-10"	3'-10"	3'-6"
25	Stress	2'-4"	2'-4"	2'-8"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-9"	3'-8"	3'-5"
30	Stress	2'-2"	2'-2"	2'-5"	65	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-8"	3'-7"	3'-4"
35	Stress	2'-0"	2'-0"	2'-3"	70	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-7"	3'-6"	3'-3"
40	Stress	1'-10"	1'-10"	2'-1"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
45	Stress	1'-9"	1'-9"	2'-0"	80	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
50	Stress	1'-8"	1'-8"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

P-9
Aluminum Perforated

0.032 in

Ix: 0.0274 in^4/ft
Sx: 0.0261 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'-5"	1'-5"	1'-6"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-5"	3'-4"	3'-0"
25	Stress	2'-1"	2'-1"	2'-3"	60	Stress	1'-4"	1'-4"	1'-6"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-5"	3'-3"	2'-11"
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'-9"	1'-9"	1'-11"	70	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-1"	2'-10"
40	Stress	1'-7"	1'-7"	1'-10"	75	Stress	1'-2"	1'-2"	1'-4"
	Deflection	2'-9"	3'-8"	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'-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'-2"		Deflection	2'-1"	2'-10"	2'-8"

See page 3 for standard notes

P-9
Aluminum Perforated

0.040 in

Ix: 0.0918 in^4/ft
Sx: 0.1032 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	5'-2"	6'-11"	6'-5"		Deflection	3'-8"	4'-11"	4'-7"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-7"	4'-10"	4'-5"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-6"	4'-8"	4'-4"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-7"	4'-2"
40	Stress	3'-3"	3'-3"	3'-7"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-6"	4'-1"
45	Stress	3'-0"	3'-0"	3'-5"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-3"	4'-4"	4'-0"
50	Stress	2'-10"	2'-10"	3'-3"	85	Stress	2'-2"	2'-2"	2'-6"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"

P-9
Aluminum Perforated

0.040 in

Ix: 0.0694 in^4/ft
Sx: 0.0771 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	4'-8"	6'-4"	5'-10"		Deflection	3'-4"	4'-6"	4'-2"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-4"	5'-10"	5'-5"		Deflection	3'-3"	4'-5"	4'-0"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	4'-0"	3'-8"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-11"	3'-11"	3'-7"

See page 3 for standard notes

Load / Span Data

P-9
Aluminum Perforated

0.040 in

Ix: 0.0572 in^4/ft
Sx: 0.066 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	4'-5"	5'-11"	5'-5"		Deflection	3'-2"	4'-3"	3'-11"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-1"	4'-1"	3'-9"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-0"	3'-8"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-7"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-6"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-9"	3'-5"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-9"	3'-8"	3'-4"

P-9
Aluminum Perforated

0.040 in

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

P-9
Aluminum Perforated

0.040 in

Ix: 0.0406 in^4/ft
Sx: 0.0513 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'-11"	5'-3"	4'-10"		Deflection	2'-10"	3'-9"	3'-6"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-9"	3'-8"	3'-4"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-3"	4'-5"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-2"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-0"	4'-0"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

P-9
Aluminum Perforated

0.040 in

Ix: 0.0269 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	3'-5"	4'-7"	4'-3"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-6"	2'-6"	2'-9"	60	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-3"	2'-3"	2'-6"	65	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-1"	2'-10"
35	Stress	2'-1"	2'-1"	2'-4"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	2'-0"	2'-0"	2'-2"	75	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-9"	3'-8"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
45	Stress	1'-10"	1'-10"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

Load / Span Data

P-9
Aluminum Perforated

0.050 in

Ix: 0.1154 in^4/ft
Sx: 0.1292 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	5'-7"	7'-6"	6'-11"		Deflection	4'-0"	5'-4"	4'-11"
25	Stress	4'-7"	4'-7"	5'-1"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	3'-10"	5'-2"	4'-9"
30	Stress	4'-2"	4'-2"	4'-8"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-9"	5'-1"	4'-8"
35	Stress	3'-10"	3'-10"	4'-4"	70	Stress	2'-9"	2'-9"	3'-0"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-8"	4'-11"	4'-6"
40	Stress	3'-7"	3'-7"	4'-0"	75	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-5"	5'-11"	5'-6"		Deflection	3'-7"	4'-10"	4'-5"
45	Stress	3'-5"	3'-5"	3'-9"	80	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-6"	4'-9"	4'-4"
50	Stress	3'-3"	3'-3"	3'-7"	85	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-5"	4'-8"	4'-3"

P-9
Aluminum Perforated

0.050 in

Ix: 0.0872 in^4/ft
Sx: 0.0964 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	5'-1"	6'-10"	6'-3"		Deflection	3'-7"	4'-10"	4'-6"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-4"	4'-6"	4'-2"
40	Stress	3'-1"	3'-1"	3'-6"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-0"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	3'-2"	4'-4"	3'-11"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-1"	4'-3"	3'-10"

See page 3 for standard notes

P-9
Aluminum Perforated

0.050 in

Ix: 0.0719 in^4/ft
Sx: 0.0825 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'-9"	6'-5"	5'-11"		Deflection	3'-5"	4'-7"	4'-2"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-2"	4'-4"	4'-0"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-1"	4'-3"	3'-10"
40	Stress	2'-10"	2'-10"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-1"	3'-9"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-8"

P-9
Aluminum Perforated

0.050 in

Ix: 0.0651 in^4/ft
Sx: 0.0771 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'-4"	2'-4"	2'-8"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-1"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-2"	4'-4"	3'-11"
30	Stress	3'-2"	3'-2"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-11"	4'-0"	3'-8"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	2'-6"	2'-6"	2'-9"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

Load / Span Data

P-9
Aluminum Perforated

0.050 in

Ix: 0.0511 in^4/ft
Sx: 0.0642 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	4'-3"	5'-9"	5'-3"		Deflection	3'-0"	4'-1"	3'-9"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	2'-11"	4'-0"	3'-8"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-10"	3'-10"	3'-7"
35	Stress	2'-9"	2'-9"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-9"	3'-8"	3'-5"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

P-9
Aluminum Perforated

0.050 in

Ix: 0.0338 in^4/ft
Sx: 0.0482 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'-10"	1'-10"	2'-1"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-8"	3'-7"	3'-3"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-7"	3'-5"	3'-2"
30	Stress	2'-6"	2'-6"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-6"	3'-4"	3'-1"
35	Stress	2'-4"	2'-4"	2'-7"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-10"
	Deflection	2'-11"	3'-11"	3'-8"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-4"	3'-2"	2'-11"
50	Stress	2'-0"	2'-0"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-9"	3'-8"	3'-4"		Deflection	2'-3"	3'-1"	2'-10"

See page 3 for standard notes

P-10
Aluminum Perforated

0.032 in

Ix: 0.0911 in^4/ft
Sx: 0.0877 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	5'-2"	6'-11"	6'-4"		Deflection	3'-8"	4'-11"	4'-6"
25	Stress	3'-9"	3'-9"	4'-2"	60	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-7"	4'-10"	4'-5"
30	Stress	3'-5"	3'-5"	3'-10"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-6"	4'-8"	4'-4"
35	Stress	3'-2"	3'-2"	3'-6"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-7"	4'-2"
40	Stress	3'-0"	3'-0"	3'-4"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-5"	4'-1"
45	Stress	2'-10"	2'-10"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-3"	4'-4"	4'-0"
50	Stress	2'-8"	2'-8"	3'-0"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"

P-10
Aluminum Perforated

0.032 in

Ix: 0.0689 in^4/ft
Sx: 0.0655 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'-1"	55	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-4"	4'-6"	4'-2"
25	Stress	3'-3"	3'-3"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-4"	5'-10"	5'-5"		Deflection	3'-3"	4'-4"	4'-0"
30	Stress	2'-11"	2'-11"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	4'-0"	3'-8"
50	Stress	2'-3"	2'-3"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-11"	3'-11"	3'-7"

See page 3 for standard notes

Load / Span Data

P-10
Aluminum Perforated

0.032 in

Ix: 0.0568 in^4/ft
Sx: 0.056 in^3/ft
Perforation: 30%

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

P-10
Aluminum Perforated

0.032 in

Ix: 0.0514 in^4/ft
Sx: 0.0524 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'-7"	55	Stress	1'-11"	1'-11"	2'-2"
	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'-10"	1'-10"	2'-1"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	2'-11"	4'-0"	3'-8"
30	Stress	2'-8"	2'-8"	2'-11"	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'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-10"	3'-9"	3'-6"
40	Stress	2'-3"	2'-3"	2'-7"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-4"	4'-7"	4'-2"		Deflection	2'-9"	3'-8"	3'-5"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-4"
50	Stress	2'-1"	2'-1"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

P-10
Aluminum Perforated

0.032 in

Ix: 0.0404 in^4/ft
Sx: 0.0436 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'-4"	55	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-6"
25	Stress	2'-8"	2'-8"	2'-11"	60	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-9"	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'-5"	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	2'-0"	2'-0"	2'-2"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-6"	3'-4"	3'-1"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

P-10
Aluminum Perforated

0.032 in

Ix: 0.0267 in^4/ft
Sx: 0.0327 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'-10"	55	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-3"	2'-3"	2'-7"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-1"	2'-1"	2'-4"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-4"	3'-1"	2'-10"
35	Stress	1'-11"	1'-11"	2'-2"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	1'-10"	1'-10"	2'-0"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-2"	3'-0"	2'-9"
45	Stress	1'-8"	1'-8"	1'-11"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-7"	3'-6"	3'-3"		Deflection	2'-2"	2'-11"	2'-8"
50	Stress	1'-7"	1'-7"	1'-10"	85	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-6"	3'-5"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

See page 3 for standard notes

Load / Span Data

P-10
Aluminum Perforated

0.040 in

Ix: 0.1133 in^4/ft
Sx: 0.1086 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	5'-6"	7'-5"	6'-10"		Deflection	3'-11"	5'-4"	4'-11"
25	Stress	4'-2"	4'-2"	4'-8"	60	Stress	2'-8"	2'-8"	3'-0"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	3'-10"	5'-2"	4'-9"
30	Stress	3'-10"	3'-10"	4'-3"	65	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-9"	5'-0"	4'-7"
35	Stress	3'-6"	3'-6"	3'-11"	70	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-8"	4'-11"	4'-6"
40	Stress	3'-4"	3'-4"	3'-8"	75	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-7"	4'-10"	4'-5"
45	Stress	3'-1"	3'-1"	3'-6"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-6"	4'-8"	4'-4"
50	Stress	2'-11"	2'-11"	3'-4"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-5"	4'-7"	4'-3"

P-10
Aluminum Perforated

0.040 in

Ix: 0.0856 in^4/ft
Sx: 0.0811 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'-6"	55	Stress	2'-5"	2'-5"	2'-9"
	Deflection	5'-0"	6'-9"	6'-3"		Deflection	3'-7"	4'-10"	4'-5"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-8"	6'-4"	5'-9"		Deflection	3'-6"	4'-8"	4'-4"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-5"	4'-7"	4'-2"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-4"	4'-6"	4'-1"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-3"	4'-4"	4'-0"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

See page 3 for standard notes

P-10
Aluminum Perforated

0.040 in

Ix: 0.0404 in^4/ft
Sx: 0.0436 in^3/ft
Perforation: 30%

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

P-10
Aluminum Perforated

0.040 in

Ix: 0.064 in^4/ft
Sx: 0.0648 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	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-0"
25	Stress	3'-3"	3'-3"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-11"	4'-0"	3'-8"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-11"	3'-7"
50	Stress	2'-3"	2'-3"	2'-7"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

See page 3 for standard notes

Load / Span Data

P-10
Aluminum Perforated

0.040 in

Ix: 0.0502 in^4/ft
Sx: 0.054 in^3/ft
Perforation: 40%

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	3'-3"	3'-3"	3'-8"	55	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-2"	5'-8"	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'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
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'-6"
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'-5"
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'-8"	3'-8"	3'-4"
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'-3"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-3"

P-10
Aluminum Perforated

0.040 in

Ix: 0.0332 in^4/ft
Sx: 0.0405 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'-9"	1'-9"	1'-11"
	Deflection	3'-8"	4'-11"	4'-7"		Deflection	2'-7"	3'-6"	3'-3"
25	Stress	2'-7"	2'-7"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-6"	3'-5"	3'-2"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-6"	3'-4"	3'-1"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	3'-0"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	1'-11"	1'-11"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-4"	3'-1"	2'-10"
50	Stress	1'-10"	1'-10"	2'-0"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-8"	3'-8"	3'-4"		Deflection	2'-3"	3'-1"	2'-10"

See page 3 for standard notes

P-10
Aluminum Perforated

0.050 in

Ix: 0.1408 in^4/ft
Sx: 0.1341 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'-2"	5'-2"	5'-9"	55	Stress	3'-1"	3'-1"	3'-6"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-3"	5'-9"	5'-3"
25	Stress	4'-8"	4'-8"	5'-2"	60	Stress	3'-0"	3'-0"	3'-4"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-1"	5'-7"	5'-1"
30	Stress	4'-3"	4'-3"	4'-9"	65	Stress	2'-10"	2'-10"	3'-3"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-0"	5'-5"	5'-0"
35	Stress	3'-11"	3'-11"	4'-5"	70	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	3'-11"	5'-3"	4'-10"
40	Stress	3'-8"	3'-8"	4'-1"	75	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-10"	5'-2"	4'-9"
45	Stress	3'-5"	3'-5"	3'-10"	80	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-9"	5'-1"	4'-8"
50	Stress	3'-3"	3'-3"	3'-8"	85	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-8"	4'-11"	4'-6"

P-10
Aluminum Perforated

0.050 in

Ix: 0.1064 in^4/ft
Sx: 0.1001 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'-6"	4'-6"	5'-0"	55	Stress	2'-8"	2'-8"	3'-0"
	Deflection	5'-5"	7'-4"	6'-8"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	4'-0"	4'-0"	4'-6"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	5'-0"	6'-9"	6'-3"		Deflection	3'-9"	5'-1"	4'-8"
30	Stress	3'-8"	3'-8"	4'-1"	65	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-9"	6'-4"	5'-10"		Deflection	3'-8"	4'-11"	4'-6"
35	Stress	3'-5"	3'-5"	3'-9"	70	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-7"	4'-10"	4'-5"
40	Stress	3'-2"	3'-2"	3'-6"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-3"	5'-9"	5'-4"		Deflection	3'-6"	4'-8"	4'-4"
45	Stress	3'-0"	3'-0"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-5"	4'-7"	4'-3"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-4"	4'-6"	4'-2"

See page 3 for standard notes

Load / Span Data

P-10
Aluminum Perforated

0.050 in

Ix: 0.0877 in^4/ft
Sx: 0.0857 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'-2"	4'-2"	4'-8"	55	Stress	2'-6"	2'-6"	2'-9"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-7"	4'-11"	4'-6"
25	Stress	3'-8"	3'-8"	4'-2"	60	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	3'-5"	3'-5"	3'-9"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	3'-2"	3'-2"	3'-6"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-4"	4'-6"	4'-2"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-1"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	3'-2"	4'-4"	3'-11"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-0"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"

P-10
Aluminum Perforated

0.050 in

Ix: 0.0794 in^4/ft
Sx: 0.0801 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'-0"	4'-0"	4'-6"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	3'-6"	4'-9"	4'-4"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-5"	4'-7"	4'-3"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-3"	5'-9"	5'-4"		Deflection	3'-4"	4'-6"	4'-1"
35	Stress	3'-0"	3'-0"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-3"	4'-4"	4'-0"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-2"	4'-3"	3'-11"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-2"	3'-10"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	3'-0"	4'-1"	3'-9"

P-10
Aluminum Perforated

0.050 in

Ix: 0.0623 in^4/ft
Sx: 0.0667 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'-6"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	3'-3"	3'-3"	3'-8"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-1"	4'-1"	3'-9"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
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'-9"	3'-9"	3'-6"

P-10
Aluminum Perforated

0.050 in

Ix: 0.0412 in^4/ft
Sx: 0.0501 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'-2"	3'-2"	3'-6"	55	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	2'-10"	3'-10"	3'-6"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-9"	3'-8"	3'-5"
30	Stress	2'-7"	2'-7"	2'-11"	65	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-8"	3'-7"	3'-4"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-7"	3'-6"	3'-3"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-6"	3'-5"	3'-2"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-6"	3'-4"	3'-1"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-9"
	Deflection	2'-11"	3'-11"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

See page 3 for standard notes

Load / Span Data

P-11
Aluminum Perforated

0.032 in

Ix: 00879 in^4/ft
Sx: 0.0858 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	5'-1"	6'-10"	6'-3"		Deflection	3'-7"	4'-11"	4'-6"
25	Stress	3'-8"	3'-8"	4'-2"	60	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-6"	4'-9"	4'-4"
30	Stress	3'-5"	3'-5"	3'-9"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-5"	4'-7"	4'-3"
35	Stress	3'-2"	3'-2"	3'-6"	70	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-4"	4'-6"	4'-2"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-3"	4'-5"	4'-1"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	3'-2"	4'-4"	4'-0"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"

P-11
Aluminum Perforated

0.032 in

Ix: 0.0664 in^4/ft
Sx: 0.064 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	4'-7"	6'-3"	5'-9"		Deflection	3'-4"	4'-5"	4'-1"
25	Stress	3'-2"	3'-2"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-3"	5'-9"	5'-4"		Deflection	3'-2"	4'-4"	4'-0"
30	Stress	2'-11"	2'-11"	3'-3"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	2'-8"	2'-8"	3'-0"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-6"	2'-6"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-8"	4'-11"	4'-7"		Deflection	3'-0"	4'-0"	3'-8"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"
50	Stress	2'-3"	2'-3"	2'-6"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"

P-11
Aluminum Perforated

0.032 in

Ix: 0.0548 in^4/ft
Sx: 0.0548 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	4'-4"	5'-10"	5'-4"		Deflection	3'-1"	4'-2"	3'-10"
25	Stress	3'-0"	3'-0"	3'-4"	60	Stress	1'-11"	1'-11"	2'-2"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-0"	4'-1"	3'-9"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	2'-11"	3'-11"	3'-7"
35	Stress	2'-6"	2'-6"	2'-10"	70	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-10"	3'-10"	3'-6"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-9"	3'-5"
45	Stress	2'-2"	2'-2"	2'-6"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-8"	3'-5"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-8"	3'-7"	3'-4"

P-11
Aluminum Perforated

0.032 in

Ix: 0.0496 in^4/ft
Sx: 0.0512 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	4'-2"	5'-8"	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'-11"	5'-3"	4'-10"		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'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	2'-5"	2'-5"	2'-8"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-9"	3'-9"	3'-5"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-8"	3'-8"	3'-4"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

See page 3 for standard notes

Load / Span Data

P-11
Aluminum Perforated

0.032 in

Ix: 0.0389 in^4/ft
Sx: 0.0426 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'-10"	5'-3"	4'-9"		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'-5"		Deflection	2'-8"	3'-7"	3'-4"
30	Stress	2'-5"	2'-5"	2'-8"	65	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-7"	3'-6"	3'-3"
35	Stress	2'-2"	2'-2"	2'-6"	70	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-4"	4'-0"		Deflection	2'-7"	3'-5"	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'-4"	3'-1"
45	Stress	1'-11"	1'-11"	2'-2"	80	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-5"	3'-3"	3'-0"
50	Stress	1'-10"	1'-10"	2'-1"	85	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-10"	3'-10"	3'-6"		Deflection	2'-5"	3'-3"	2'-11"

P-11
Aluminum Perforated

0.032 in

Ix: 0.0257 in^4/ft
Sx: 0.032 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	3'-4"	4'-7"	4'-2"		Deflection	2'-5"	3'-3"	3'-0"
25	Stress	2'-3"	2'-3"	2'-6"	60	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-1"	4'-3"	3'-10"		Deflection	2'-4"	3'-2"	2'-11"
30	Stress	2'-1"	2'-1"	2'-4"	65	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-3"	3'-1"	2'-10"
35	Stress	1'-11"	1'-11"	2'-2"	70	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-10"	3'-9"	3'-6"		Deflection	2'-3"	3'-0"	2'-9"
40	Stress	1'-9"	1'-9"	2'-0"	75	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-2"	2'-11"	2'-8"
45	Stress	1'-8"	1'-8"	1'-11"	80	Stress	1'-3"	1'-3"	1'-5"
	Deflection	2'-7"	3'-6"	3'-2"		Deflection	2'-1"	2'-10"	2'-8"
50	Stress	1'-7"	1'-7"	1'-9"	85	Stress	1'-3"	1'-3"	1'-4"
	Deflection	2'-6"	3'-4"	3'-1"		Deflection	2'-1"	2'-10"	2'-7"

P-11
Aluminum Perforated

0.040 in

Ix: 0.1093 in^4/ft
Sx: 0.1063 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	5'-5"	7'-4"	6'-9"		Deflection	3'-11"	5'-3"	4'-10"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	3'-0"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-9"	5'-1"	4'-8"
30	Stress	3'-9"	3'-9"	4'-3"	65	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-8"	5'-0"	4'-7"
35	Stress	3'-6"	3'-6"	3'-11"	70	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-7"	4'-10"	4'-5"
40	Stress	3'-3"	3'-3"	3'-8"	75	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-6"	4'-9"	4'-4"
45	Stress	3'-1"	3'-1"	3'-5"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-5"	4'-8"	4'-3"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-4"	4'-7"	4'-2"

P-11
Aluminum Perforated

0.040 in

Ix: 0.0826 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	5'-0"	6'-8"	6'-2"		Deflection	3'-7"	4'-9"	4'-5"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-5"	4'-8"	4'-3"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-4"	5'-10"	5'-5"		Deflection	3'-4"	4'-6"	4'-2"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-3"	4'-5"	4'-1"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-2"	4'-4"	4'-0"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-1"	4'-2"	3'-10"

See page 3 for standard notes

Load / Span Data

P-11
Aluminum Perforated

0.040 in

Ix: 0.0681 in^4/ft
Sx: 0.0679 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'-8"	6'-3"	5'-9"		Deflection	3'-4"	4'-6"	4'-1"
25	Stress	3'-4"	3'-4"	3'-8"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-3"	4'-4"	4'-0"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-1"	2'-1"	2'-3"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-2"	4'-3"	3'-11"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	2'-0"	2'-0"	2'-2"
	Deflection	3'-10"	5'-3"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-0"	4'-1"	3'-9"
45	Stress	2'-5"	2'-5"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	4'-0"	3'-8"
50	Stress	2'-4"	2'-4"	2'-7"	85	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-10"	3'-11"	3'-7"

P-11
Aluminum Perforated

0.040 in

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

P-11
Aluminum Perforated

0.040 in

Ix: 0.0484 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	4'-2"	5'-7"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	2'-11"	2'-11"	3'-3"	60	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	2'-8"	2'-8"	3'-0"	65	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-9"	3'-6"
35	Stress	2'-5"	2'-5"	2'-9"	70	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-5"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	2'-4"	2'-4"	2'-7"	75	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-4"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	2'-2"	2'-2"	2'-5"	80	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-1"	2'-1"	2'-4"	85	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

P-11
Aluminum Perforated

0.040 in

Ix: 0.032 in^4/ft
Sx: 0.0397 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'-7"	4'-11"	4'-6"		Deflection	2'-7"	3'-6"	3'-2"
25	Stress	2'-6"	2'-6"	2'-10"	60	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-6"	3'-5"	3'-1"
30	Stress	2'-4"	2'-4"	2'-7"	65	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-5"	3'-4"	3'-0"
35	Stress	2'-2"	2'-2"	2'-5"	70	Stress	1'-6"	1'-6"	1'-8"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-5"	3'-3"	2'-11"
40	Stress	2'-0"	2'-0"	2'-3"	75	Stress	1'-5"	1'-5"	1'-8"
	Deflection	2'-10"	3'-11"	3'-7"		Deflection	2'-4"	3'-2"	2'-11"
45	Stress	1'-11"	1'-11"	2'-1"	80	Stress	1'-5"	1'-5"	1'-7"
	Deflection	2'-9"	3'-9"	3'-5"		Deflection	2'-3"	3'-1"	2'-10"
50	Stress	1'-9"	1'-9"	2'-0"	85	Stress	1'-4"	1'-4"	1'-6"
	Deflection	2'-8"	3'-7"	3'-4"		Deflection	2'-3"	3'-0"	2'-9"

See page 3 for standard notes

Load / Span Data

P-11
Aluminum Perforated

0.050 in

Ix: 0.1359 in^4/ft
Sx: 0.1311 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'-9"	55	Stress	3'-1"	3'-1"	3'-5"
	Deflection	5'-10"	7'-11"	7'-3"		Deflection	4'-2"	5'-8"	5'-2"
25	Stress	4'-7"	4'-7"	5'-1"	60	Stress	2'-11"	2'-11"	3'-4"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-1"	5'-6"	5'-0"
30	Stress	4'-2"	4'-2"	4'-8"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	3'-11"	5'-4"	4'-11"
35	Stress	3'-10"	3'-10"	4'-4"	70	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-10"	5'-3"	4'-9"
40	Stress	3'-7"	3'-7"	4'-1"	75	Stress	2'-8"	2'-8"	2'-11"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-9"	5'-1"	4'-8"
45	Stress	3'-5"	3'-5"	3'-10"	80	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-6"	6'-0"	5'-7"		Deflection	3'-8"	5'-0"	4'-7"
50	Stress	3'-3"	3'-3"	3'-7"	85	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-7"	4'-11"	4'-6"

P-11
Aluminum Perforated

0.050 in

Ix: 0.1027 in^4/ft
Sx: 0.0979 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	5'-4"	7'-2"	6'-7"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	3'-11"	3'-11"	4'-5"	60	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	3'-8"	5'-0"	4'-7"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-8"	6'-4"	5'-9"		Deflection	3'-7"	4'-10"	4'-6"
35	Stress	3'-4"	3'-4"	3'-9"	70	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-4"
40	Stress	3'-2"	3'-2"	3'-6"	75	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	2'-11"	2'-11"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-6"	4'-2"
50	Stress	2'-10"	2'-10"	3'-2"	85	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-4"	4'-5"	4'-1"

P-11
Aluminum Perforated

0.050 in

Ix: 0.0846 in^4/ft
Sx: 0.0838 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'-6"	2'-6"	2'-9"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-7"	4'-10"	4'-5"
25	Stress	3'-8"	3'-8"	4'-1"	60	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-6"	4'-8"	4'-4"
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-5"	4'-7"	4'-2"
35	Stress	3'-1"	3'-1"	3'-6"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-4"	4'-5"	4'-1"
40	Stress	2'-11"	2'-11"	3'-3"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-3"	4'-4"	4'-0"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

P-11
Aluminum Perforated

0.050 in

Ix: 0.0767 in^4/ft
Sx: 0.0783 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	4'-10"	6'-6"	6'-0"		Deflection	3'-5"	4'-8"	4'-3"
25	Stress	3'-6"	3'-6"	3'-11"	60	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	3'-3"	3'-3"	3'-7"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-2"	4'-4"	3'-11"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
45	Stress	2'-8"	2'-8"	2'-11"	80	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-1"	3'-9"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-0"	3'-8"

See page 3 for standard notes

Load / Span Data

P-11
Aluminum Perforated

0.050 in

Ix: 0.0602 in^4/ft
Sx: 0.0652 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	4'-6"	6'-0"	5'-6"		Deflection	3'-2"	4'-4"	3'-11"
25	Stress	3'-3"	3'-3"	3'-7"	60	Stress	2'-1"	2'-1"	2'-4"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	2'-11"	2'-11"	3'-4"	65	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	2'-11"	4'-0"	3'-8"
40	Stress	2'-7"	2'-7"	2'-10"	75	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-7"	4'-9"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-5"	2'-5"	2'-8"	80	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	2'-3"	2'-3"	2'-7"	85	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

P-11
Aluminum Perforated

0.050 in

Ix: 0.0398 in^4/ft
Sx: 0.0489 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'-2"	3'-2"	3'-6"	55	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	2'-9"	3'-9"	3'-5"
25	Stress	2'-10"	2'-10"	3'-2"	60	Stress	1'-10"	1'-10"	2'-0"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-8"	3'-8"	3'-4"
30	Stress	2'-7"	2'-7"	2'-10"	65	Stress	1'-9"	1'-9"	1'-11"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-8"	3'-7"	3'-3"
35	Stress	2'-4"	2'-4"	2'-8"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-3"	4'-4"	4'-0"		Deflection	2'-7"	3'-6"	3'-2"
40	Stress	2'-3"	2'-3"	2'-6"	75	Stress	1'-7"	1'-7"	1'-10"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-6"	3'-5"	3'-1"
45	Stress	2'-1"	2'-1"	2'-4"	80	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-0"	4'-0"	3'-8"		Deflection	2'-5"	3'-4"	3'-0"
50	Stress	2'-0"	2'-0"	2'-3"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-10"	3'-10"	3'-7"		Deflection	2'-5"	3'-3"	3'-0"

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