

Metal Wall & Roof Systems  
North America



# Morin Matrix Series™ Perforated Metal Wall System Span Charts

Innovative Single Element Building Envelope  
Solution



# Product Data

## Morin Matrix Series™ Perforated Range

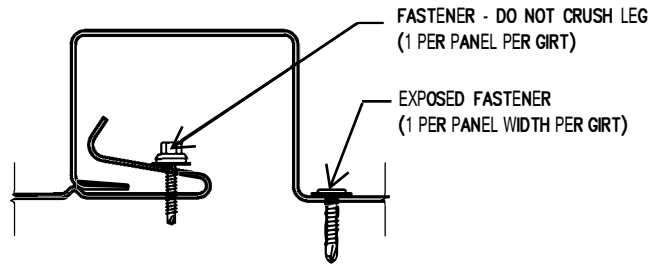
The Morin Matrix Series™ is available in ten unique panel profiles and MiterSeam corners, the designer has all the tools necessary to create the next award winning project.

Profile Options	
<p><b>Matrix MX-1</b></p>	<p><b>Matrix MX-7</b></p>
<p><b>Matrix MX-2</b></p>	<p><b>Matrix MX-8</b></p>
<p><b>Matrix MX-3</b></p>	<p><b>Matrix MX-9</b></p>
<p><b>Matrix MX-4</b></p>	<p><b>Matrix MX-10</b></p>
<p><b>Matrix MX-6</b></p>	<p><b>Matrix MX-11</b></p>

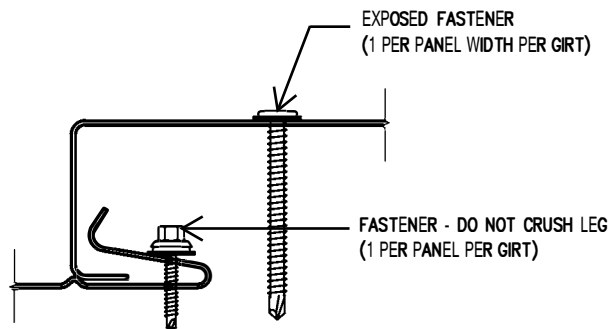
## Available Lengths

Standard Lengths (ft)	5' - 30' (1.52 - 9.14m)
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Shorter and longer lengths available on request.



MX-1, MX-3, MX-4, AND MX-11



MX-2, MX-6, MX-7, MX-8, MX-9 AND MX-10

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

## MX-1

### Aluminum Perforated

0.032 in

Ix: 0.1669 in<sup>4</sup>/ft  
Sx: 0.195 in<sup>3</sup>/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	8'-5"	8'-5"	9'-5"	55	Stress	5'-1"	5'-1"	5'-8"
	Deflection	6'-3"	8'-6"	7'-9"		Deflection	4'-6"	6'-1"	5'-7"
25	Stress	7'-7"	7'-7"	8'-5"	60	Stress	4'-11"	4'-11"	5'-5"
	Deflection	5'-10"	7'-10"	7'-3"		Deflection	4'-4"	5'-11"	5'-5"
30	Stress	6'-11"	6'-11"	7'-9"	65	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-3"	5'-9"	5'-3"
35	Stress	6'-5"	6'-5"	7'-2"	70	Stress	4'-6"	4'-6"	5'-1"
	Deflection	5'-3"	7'-0"	6'-6"		Deflection	4'-2"	5'-7"	5'-2"
40	Stress	6'-0"	6'-0"	6'-8"	75	Stress	4'-4"	4'-4"	4'-11"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-0"	5'-5"	5'-0"
45	Stress	5'-8"	5'-8"	6'-4"	80	Stress	4'-3"	4'-3"	4'-9"
	Deflection	4'-9"	6'-6"	5'-11"		Deflection	3'-11"	5'-4"	4'-11"
50	Stress	5'-4"	5'-4"	6'-0"	85	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-7"	6'-3"	5'-9"		Deflection	3'-11"	5'-3"	4'-10"

## MX-1

### Aluminum Perforated

0.032 in

Ix: 0.1262 in<sup>4</sup>/ft  
Sx: 0.1455 in<sup>3</sup>/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	7'-4"	7'-4"	8'-2"	55	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-1"	5'-6"	5'-1"
25	Stress	6'-6"	6'-6"	7'-4"	60	Stress	4'-3"	4'-3"	4'-9"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-0"	5'-4"	4'-11"
30	Stress	6'-0"	6'-0"	6'-8"	65	Stress	4'-1"	4'-1"	4'-6"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-10"	5'-3"	4'-9"
35	Stress	5'-6"	5'-6"	6'-2"	70	Stress	3'-11"	3'-11"	4'-4"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-9"	5'-1"	4'-8"
40	Stress	5'-2"	5'-2"	5'-9"	75	Stress	3'-9"	3'-9"	4'-3"
	Deflection	4'-6"	6'-2"	5'-8"		Deflection	3'-8"	5'-0"	4'-7"
45	Stress	4'-10"	4'-10"	5'-5"	80	Stress	3'-8"	3'-8"	4'-1"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-7"	4'-10"	4'-6"
50	Stress	4'-7"	4'-7"	5'-2"	85	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-6"	4'-9"	4'-5"

**MX-1**  
**Aluminum Perforated**

0.032 in

Ix: 0.104 in<sup>4</sup>/ft  
Sx: 0.1245 in<sup>3</sup>/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	6'-9"	6'-9"	7'-7"	55	Stress	4'-1"	4'-1"	4'-7"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	6'-1"	6'-1"	6'-9"	60	Stress	3'-11"	3'-11"	4'-4"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-9"	5'-0"	4'-7"
30	Stress	5'-6"	5'-6"	6'-2"	65	Stress	3'-9"	3'-9"	4'-2"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-7"	4'-11"	4'-6"
35	Stress	5'-1"	5'-1"	5'-9"	70	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-5"
40	Stress	4'-9"	4'-9"	5'-4"	75	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	4'-6"	4'-6"	5'-0"	80	Stress	3'-5"	3'-5"	3'-9"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-5"	4'-7"	4'-2"
50	Stress	4'-3"	4'-3"	4'-9"	85	Stress	3'-3"	3'-3"	3'-8"
	Deflection	3'-11"	5'-4"	4'-11"		Deflection	3'-4"	4'-6"	4'-1"

**MX-1**  
**Aluminum Perforated**

0.032 in

Ix: 0.0942 in<sup>4</sup>/ft  
Sx: 0.1164 in<sup>3</sup>/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	6'-6"	6'-6"	7'-4"	55	Stress	3'-11"	3'-11"	4'-5"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	3'-8"	5'-0"	4'-7"
25	Stress	5'-10"	5'-10"	6'-6"	60	Stress	3'-9"	3'-9"	4'-3"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-7"	4'-10"	4'-6"
30	Stress	5'-4"	5'-4"	6'-0"	65	Stress	3'-7"	3'-7"	4'-1"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-6"	4'-9"	4'-4"
35	Stress	4'-11"	4'-11"	5'-6"	70	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-5"	4'-7"	4'-3"
40	Stress	4'-7"	4'-7"	5'-2"	75	Stress	3'-4"	3'-4"	3'-9"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-4"	4'-6"	4'-2"
45	Stress	4'-4"	4'-4"	4'-10"	80	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-3"	4'-5"	4'-1"
50	Stress	4'-2"	4'-2"	4'-7"	85	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-4"	4'-0"

\*See page 3 for standard notes\*

# Load / Span Data

## MX-1

### Aluminum Perforated

0.032 in

Ix: 0.0739 in<sup>4</sup>/ft  
Sx: 0.097 in<sup>3</sup>/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	6'-0"	6'-0"	6'-8"	55	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-5"	4'-7"	4'-3"
25	Stress	5'-4"	5'-4"	6'-0"	60	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-4"	4'-6"	4'-1"
30	Stress	4'-10"	4'-10"	5'-5"	65	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-3"	4'-4"	4'-0"
35	Stress	4'-6"	4'-6"	5'-0"	70	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-2"	4'-3"	3'-11"
40	Stress	4'-3"	4'-3"	4'-9"	75	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-10"	5'-2"	4'-8"		Deflection	3'-1"	4'-2"	3'-10"
45	Stress	4'-0"	4'-0"	4'-5"	80	Stress	2'-12"	2'-12"	3'-4"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-0"	4'-1"	3'-9"
50	Stress	3'-9"	3'-9"	4'-3"	85	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-11"	4'-0"	3'-8"

## MX-1

### Aluminum Perforated

0.032 in

Ix: 0.0489 in<sup>4</sup>/ft  
Sx: 0.0728 in<sup>3</sup>/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	5'-2"	5'-2"	5'-9"	55	Stress	3'-1"	3'-1"	3'-6"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-0"	4'-0"	3'-8"
25	Stress	4'-7"	4'-7"	5'-2"	60	Stress	2'-12"	2'-12"	3'-4"
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	2'-11"	3'-11"	3'-7"
30	Stress	4'-3"	4'-3"	4'-9"	65	Stress	2'-10"	2'-10"	3'-2"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	2'-10"	3'-10"	3'-6"
35	Stress	3'-11"	3'-11"	4'-4"	70	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-6"	4'-8"	4'-3"		Deflection	2'-9"	3'-8"	3'-5"
40	Stress	3'-8"	3'-8"	4'-1"	75	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-8"	3'-7"	3'-4"
45	Stress	3'-5"	3'-5"	3'-10"	80	Stress	2'-7"	2'-7"	2'-11"
	Deflection	3'-2"	4'-4"	3'-11"		Deflection	2'-8"	3'-7"	3'-3"
50	Stress	3'-3"	3'-3"	3'-8"	85	Stress	2'-6"	2'-6"	2'-10"
	Deflection	3'-1"	4'-2"	3'-10"		Deflection	2'-7"	3'-6"	3'-2"

**MX-1**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.2083 in<sup>4</sup>/ft  
**Sx:** 0.2348 in<sup>3</sup>/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	9'-3"	9'-3"	10'-4"	55	Stress	5'-7"	5'-7"	6'-3"
	Deflection	6'-9"	9'-1"	8'-5"		Deflection	4'-10"	6'-6"	6'-0"
25	Stress	8'-4"	8'-4"	9'-3"	60	Stress	5'-4"	5'-4"	6'-0"
	Deflection	6'-3"	8'-6"	7'-9"		Deflection	4'-8"	6'-4"	5'-10"
30	Stress	7'-7"	7'-7"	8'-6"	65	Stress	5'-2"	5'-2"	5'-9"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-7"	6'-2"	5'-8"
35	Stress	7'-0"	7'-0"	7'-10"	70	Stress	4'-12"	4'-12"	5'-7"
	Deflection	5'-7"	7'-7"	6'-11"		Deflection	4'-5"	6'-0"	5'-6"
40	Stress	6'-7"	6'-7"	7'-4"	75	Stress	4'-9"	4'-9"	5'-4"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-4"	5'-10"	5'-5"
45	Stress	6'-2"	6'-2"	6'-11"	80	Stress	4'-8"	4'-8"	5'-2"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-3"	5'-9"	5'-3"
50	Stress	5'-10"	5'-10"	6'-7"	85	Stress	4'-6"	4'-6"	5'-0"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-2"	5'-8"	5'-2"

**MX-1**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.2975 in<sup>4</sup>/ft  
**Sx:** 0.1807 in<sup>3</sup>/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	8'-2"	8'-2"	9'-1"	55	Stress	4'-11"	4'-11"	5'-6"
	Deflection	7'-7"	10'-3"	9'-5"		Deflection	5'-5"	7'-4"	6'-9"
25	Stress	7'-3"	7'-3"	8'-2"	60	Stress	4'-8"	4'-8"	5'-3"
	Deflection	7'-1"	9'-6"	8'-9"		Deflection	5'-3"	7'-1"	6'-7"
30	Stress	6'-8"	6'-8"	7'-5"	65	Stress	4'-6"	4'-6"	5'-1"
	Deflection	6'-8"	9'-0"	8'-3"		Deflection	5'-2"	6'-11"	6'-4"
35	Stress	6'-2"	6'-2"	6'-11"	70	Stress	4'-4"	4'-4"	4'-10"
	Deflection	6'-4"	8'-6"	7'-10"		Deflection	5'-0"	6'-9"	6'-3"
40	Stress	5'-9"	5'-9"	6'-5"	75	Stress	4'-2"	4'-2"	4'-8"
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	4'-11"	6'-7"	6'-1"
45	Stress	5'-5"	5'-5"	6'-1"	80	Stress	4'-1"	4'-1"	4'-7"
	Deflection	5'-10"	7'-10"	7'-2"		Deflection	4'-10"	6'-6"	5'-11"
50	Stress	5'-2"	5'-2"	5'-9"	85	Stress	3'-11"	3'-11"	4'-5"
	Deflection	5'-7"	7'-7"	6'-11"		Deflection	4'-8"	6'-4"	5'-10"

\*See page 3 for standard notes\*

# Load / Span Data

MX-1 Aluminum Perforated				0.040 in				Ix: 0.1297 in <sup>4</sup> /ft Sx: 0.1546 in <sup>3</sup> /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	7'-6"	7'-6"	8'-5"	55	Stress	4'-6"	4'-6"	5'-1"
	Deflection	5'-9"	7'-9"	7'-2"		Deflection	4'-1"	5'-7"	5'-1"
25	Stress	6'-9"	6'-9"	7'-6"	60	Stress	4'-4"	4'-4"	4'-10"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-0"	5'-5"	5'-0"
30	Stress	6'-2"	6'-2"	6'-10"	65	Stress	4'-2"	4'-2"	4'-8"
	Deflection	5'-0"	6'-10"	6'-3"		Deflection	3'-11"	5'-3"	4'-10"
35	Stress	5'-8"	5'-8"	6'-4"	70	Stress	4'-0"	4'-0"	4'-6"
	Deflection	4'-9"	6'-6"	5'-11"		Deflection	3'-10"	5'-2"	4'-9"
40	Stress	5'-4"	5'-4"	5'-11"	75	Stress	3'-11"	3'-11"	4'-4"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-9"	5'-0"	4'-7"
45	Stress	5'-0"	5'-0"	5'-7"	80	Stress	3'-9"	3'-9"	4'-3"
	Deflection	4'-5"	5'-11"	5'-6"		Deflection	3'-8"	4'-11"	4'-6"
50	Stress	4'-9"	4'-9"	5'-4"	85	Stress	3'-8"	3'-8"	4'-1"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-7"	4'-10"	4'-5"

MX-1 Aluminum Perforated				0.040 in				Ix: 0.1175 in <sup>4</sup> /ft Sx: 0.1445 in <sup>3</sup> /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	7'-3"	7'-3"	8'-2"	55	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-0"	5'-5"	4'-11"
25	Stress	6'-6"	6'-6"	7'-3"	60	Stress	4'-2"	4'-2"	4'-8"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	3'-10"	5'-3"	4'-10"
30	Stress	5'-11"	5'-11"	6'-8"	65	Stress	4'-0"	4'-0"	4'-6"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	3'-9"	5'-1"	4'-8"
35	Stress	5'-6"	5'-6"	6'-2"	70	Stress	3'-11"	3'-11"	4'-4"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-8"	5'-0"	4'-7"
40	Stress	5'-2"	5'-2"	5'-9"	75	Stress	3'-9"	3'-9"	4'-2"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-7"	4'-10"	4'-5"
45	Stress	4'-10"	4'-10"	5'-5"	80	Stress	3'-8"	3'-8"	4'-1"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-6"	4'-9"	4'-4"
50	Stress	4'-7"	4'-7"	5'-2"	85	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-5"	4'-8"	4'-3"

**MX-1**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0922 in<sup>4</sup>/ft  
**Sx:** 0.1203 in<sup>3</sup>/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	6'-8"	6'-8"	7'-5"	55	Stress	4'-0"	4'-0"	4'-6"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	3'-8"	5'-0"	4'-7"
25	Stress	5'-11"	5'-11"	6'-8"	60	Stress	3'-10"	3'-10"	4'-3"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-7"	4'-10"	4'-5"
30	Stress	5'-5"	5'-5"	6'-1"	65	Stress	3'-8"	3'-8"	4'-1"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-6"	4'-8"	4'-4"
35	Stress	5'-0"	5'-0"	5'-7"	70	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-3"	5'-9"	5'-4"		Deflection	3'-5"	4'-7"	4'-2"
40	Stress	4'-8"	4'-8"	5'-3"	75	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-6"	4'-1"
45	Stress	4'-5"	4'-5"	4'-11"	80	Stress	3'-4"	3'-4"	3'-9"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-3"	4'-5"	4'-0"
50	Stress	4'-2"	4'-2"	4'-8"	85	Stress	3'-3"	3'-3"	3'-7"
	Deflection	3'-10"	5'-1"	4'-8"		Deflection	3'-2"	4'-4"	3'-11"

**MX-1**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.061 in<sup>4</sup>/ft  
**Sx:** 0.0903 in<sup>3</sup>/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	5'-9"	5'-9"	6'-5"	55	Stress	3'-6"	3'-6"	3'-11"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-2"	4'-4"	4'-0"
25	Stress	5'-2"	5'-2"	5'-9"	60	Stress	3'-4"	3'-4"	3'-9"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	4'-8"	4'-8"	5'-3"	65	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	4'-4"	4'-4"	4'-10"	70	Stress	3'-1"	3'-1"	3'-5"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-11"	4'-0"	3'-8"
40	Stress	4'-1"	4'-1"	4'-7"	75	Stress	2'-12"	2'-12"	3'-4"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	3'-10"	3'-10"	4'-3"	80	Stress	2'-11"	2'-11"	3'-3"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-10"	3'-10"	3'-6"
50	Stress	3'-8"	3'-8"	4'-1"	85	Stress	2'-9"	2'-9"	3'-1"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-9"	3'-9"	3'-5"

\*See page 3 for standard notes\*

# Load / Span Data

## MX-1

### Aluminum Perforated

0.050 in

Ix: 0.2596 in<sup>4</sup>/ft  
Sx: 0.291 in<sup>3</sup>/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	10'-4"	10'-4"	11'-7"	55	Stress	6'-3"	6'-3"	7'-0"
	Deflection	7'-3"	9'-10"	9'-0"		Deflection	5'-2"	7'-0"	6'-5"
25	Stress	9'-3"	9'-3"	10'-4"	60	Stress	5'-12"	5'-12"	6'-8"
	Deflection	6'-9"	9'-1"	8'-4"		Deflection	5'-1"	6'-10"	6'-3"
30	Stress	8'-5"	8'-5"	9'-5"	65	Stress	5'-9"	5'-9"	6'-5"
	Deflection	6'-4"	8'-7"	7'-11"		Deflection	4'-11"	6'-8"	6'-1"
35	Stress	7'-10"	7'-10"	8'-9"	70	Stress	5'-6"	5'-6"	6'-2"
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	4'-9"	6'-6"	5'-11"
40	Stress	7'-4"	7'-4"	8'-2"	75	Stress	5'-4"	5'-4"	6'-0"
	Deflection	5'-9"	7'-10"	7'-2"		Deflection	4'-8"	6'-4"	5'-10"
45	Stress	6'-11"	6'-11"	7'-8"	80	Stress	5'-2"	5'-2"	5'-9"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-7"	6'-2"	5'-8"
50	Stress	6'-6"	6'-6"	7'-4"	85	Stress	5'-0"	5'-0"	5'-7"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-6"	6'-1"	5'-7"

## MX-1

### Aluminum Perforated

0.050 in

Ix: 0.1962 in<sup>4</sup>/ft  
Sx: 0.2239 in<sup>3</sup>/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	9'-1"	9'-1"	10'-2"	150	Stress	3'-4"	3'-4"	3'-8"
	Deflection	6'-7"	8'-11"	8'-3"		Deflection	3'-5"	4'-7"	4'-2"
25	Stress	8'-1"	8'-1"	9'-1"	155	Stress	3'-3"	3'-3"	3'-8"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	7'-5"	7'-5"	8'-3"	160	Stress	3'-2"	3'-2"	3'-7"
	Deflection	5'-9"	7'-10"	7'-2"		Deflection	3'-4"	4'-6"	4'-1"
35	Stress	6'-10"	6'-10"	7'-8"	165	Stress	3'-2"	3'-2"	3'-6"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	3'-3"	4'-5"	4'-1"
40	Stress	6'-5"	6'-5"	7'-2"	170	Stress	3'-1"	3'-1"	3'-6"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	3'-3"	4'-5"	4'-0"
45	Stress	6'-0"	6'-0"	6'-9"	175	Stress	3'-1"	3'-1"	3'-5"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	3'-3"	4'-4"	4'-0"
50	Stress	5'-9"	5'-9"	6'-5"	180	Stress	3'-0"	3'-0"	3'-5"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	3'-2"	4'-4"	3'-11"

**MX-1**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1617 in<sup>4</sup>/ft  
**Sx:** 0.1916 in<sup>3</sup>/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	8'-5"	8'-5"	9'-4"	55	Stress	5'-1"	5'-1"	5'-8"
	Deflection	6'-3"	8'-5"	7'-8"		Deflection	4'-5"	6'-0"	5'-6"
25	Stress	7'-6"	7'-6"	8'-5"	60	Stress	4'-10"	4'-10"	5'-5"
	Deflection	5'-9"	7'-9"	7'-2"		Deflection	4'-4"	5'-10"	5'-4"
30	Stress	6'-10"	6'-10"	7'-8"	65	Stress	4'-8"	4'-8"	5'-2"
	Deflection	5'-5"	7'-4"	6'-9"		Deflection	4'-2"	5'-8"	5'-2"
35	Stress	6'-4"	6'-4"	7'-1"	70	Stress	4'-6"	4'-6"	5'-0"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	4'-1"	5'-6"	5'-1"
40	Stress	5'-11"	5'-11"	6'-8"	75	Stress	4'-4"	4'-4"	4'-10"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	4'-0"	5'-5"	4'-11"
45	Stress	5'-7"	5'-7"	6'-3"	80	Stress	4'-2"	4'-2"	4'-8"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-11"	5'-3"	4'-10"
50	Stress	5'-4"	5'-4"	5'-11"	85	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-10"	5'-2"	4'-9"

**MX-1**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1465 in<sup>4</sup>/ft  
**Sx:** 0.1791 in<sup>3</sup>/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	8'-1"	8'-1"	9'-1"	55	Stress	4'-11"	4'-11"	5'-6"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-3"	5'-9"	5'-4"
25	Stress	7'-3"	7'-3"	8'-1"	60	Stress	4'-8"	4'-8"	5'-3"
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-2"	5'-8"	5'-2"
30	Stress	6'-7"	6'-7"	7'-5"	65	Stress	4'-6"	4'-6"	5'-0"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-1"	5'-6"	5'-0"
35	Stress	6'-2"	6'-2"	6'-10"	70	Stress	4'-4"	4'-4"	4'-10"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-11"	5'-4"	4'-11"
40	Stress	5'-9"	5'-9"	6'-5"	75	Stress	4'-2"	4'-2"	4'-8"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-10"	5'-3"	4'-10"
45	Stress	5'-5"	5'-5"	6'-0"	80	Stress	4'-1"	4'-1"	4'-6"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-9"	5'-1"	4'-8"
50	Stress	5'-2"	5'-2"	5'-9"	85	Stress	3'-11"	3'-11"	4'-5"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-9"	5'-0"	4'-7"

\*See page 3 for standard notes\*

# Load / Span Data

## MX-1

### Aluminum Perforated

0.050 in

Ix: 0.115 in<sup>4</sup>/ft  
Sx: 0.1491 in<sup>3</sup>/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	7'-5"	7'-5"	8'-3"	55	Stress	4'-6"	4'-6"	5'-0"
	Deflection	5'-7"	7'-6"	6'-10"		Deflection	3'-11"	5'-4"	4'-11"
25	Stress	6'-7"	6'-7"	7'-5"	60	Stress	4'-3"	4'-3"	4'-9"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	3'-10"	5'-2"	4'-9"
30	Stress	6'-0"	6'-0"	6'-9"	65	Stress	4'-1"	4'-1"	4'-7"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-9"	5'-1"	4'-8"
35	Stress	5'-7"	5'-7"	6'-3"	70	Stress	3'-11"	3'-11"	4'-5"
	Deflection	4'-7"	6'-3"	5'-8"		Deflection	3'-8"	4'-11"	4'-6"
40	Stress	5'-3"	5'-3"	5'-10"	75	Stress	3'-10"	3'-10"	4'-3"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-7"	4'-10"	4'-5"
45	Stress	4'-11"	4'-11"	5'-6"	80	Stress	3'-8"	3'-8"	4'-2"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-6"	4'-9"	4'-4"
50	Stress	4'-8"	4'-8"	5'-3"	85	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-5"	4'-7"	4'-3"

## MX-1

### Aluminum Perforated

0.050 in

Ix: 0.076 in<sup>4</sup>/ft  
Sx: 0.1119 in<sup>3</sup>/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	6'-5"	6'-5"	7'-2"	55	Stress	3'-10"	3'-10"	4'-4"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-5"	4'-8"	4'-3"
25	Stress	5'-9"	5'-9"	6'-5"	60	Stress	3'-8"	3'-8"	4'-2"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-4"	4'-6"	4'-2"
30	Stress	5'-3"	5'-3"	5'-10"	65	Stress	3'-7"	3'-7"	4'-0"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	4'-10"	4'-10"	5'-5"	70	Stress	3'-5"	3'-5"	3'-10"
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-2"	4'-4"	3'-11"
40	Stress	4'-6"	4'-6"	5'-1"	75	Stress	3'-4"	3'-4"	3'-8"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-1"	4'-2"	3'-10"
45	Stress	4'-3"	4'-3"	4'-9"	80	Stress	3'-2"	3'-2"	3'-7"
	Deflection	3'-8"	5'-0"	4'-7"		Deflection	3'-1"	4'-1"	3'-9"
50	Stress	4'-1"	4'-1"	4'-6"	85	Stress	3'-1"	3'-1"	3'-6"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-0"	3'-8"

**MX-2**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.1616 in<sup>4</sup>/ft  
**Sx:** 0.2004 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-2**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.1221 in<sup>4</sup>/ft  
**Sx:** 0.1496 in<sup>3</sup>/ft  
**Perforation:** 23%

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

# Load / Span Data

**MX-2**  
**Aluminum Perforated**

0.032 in  
Ix: 0.1007 in<sup>4</sup>/ft  
Sx: 0.128 in<sup>3</sup>/ft  
Perforation: 30%

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

**MX-2**  
**Aluminum Perforated**

0.032 in  
Ix: 0.0912 in<sup>4</sup>/ft  
Sx: 0.1196 in<sup>3</sup>/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)
30	Stress	4'-0"	4'-0"	4'-6"	65	Stress	2'-9"	2'-9"	3'-0"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-6"	4'-8"	4'-4"
35	Stress	3'-8"	3'-8"	4'-2"	70	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-7"	4'-2"
40	Stress	3'-6"	3'-6"	3'-10"	75	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-4"	4'-6"	4'-1"
45	Stress	3'-3"	3'-3"	3'-8"	80	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-3"	4'-4"	4'-0"
50	Stress	3'-1"	3'-1"	3'-6"	85	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"
55	Stress	2'-11"	2'-11"	3'-4"	90	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-1"	4'-2"	3'-10"
60	Stress	2'-10"	2'-10"	3'-2"	95	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-1"	4'-1"	3'-9"

**MX-2**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.0716 in<sup>4</sup>/ft  
**Sx:** 0.0996 in<sup>3</sup>/ft  
**Perforation:** 40%

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

**MX-2**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.0473 in<sup>4</sup>/ft  
**Sx:** 0.0748 in<sup>3</sup>/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'-10"	3'-10"	4'-4"	55	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	2'-11"	4'-0"	3'-8"
25	Stress	3'-6"	3'-6"	3'-10"	60	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	2'-10"	3'-10"	3'-7"
30	Stress	3'-2"	3'-2"	3'-6"	65	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-9"	3'-9"	3'-5"
35	Stress	2'-11"	2'-11"	3'-3"	70	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-9"	3'-8"	3'-4"
40	Stress	2'-9"	2'-9"	3'-1"	75	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-3"	4'-5"	4'-1"		Deflection	2'-8"	3'-7"	3'-3"
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-3"
50	Stress	2'-5"	2'-5"	2'-9"	85	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-0"	4'-1"	3'-9"		Deflection	2'-7"	3'-5"	3'-2"

# Load / Span Data

## MX-2

### Aluminum Perforated

0.040 in

Ix: 0.2148 in<sup>4</sup>/ft  
Sx: 0.2451 in<sup>3</sup>/ft  
Perforation: 10%

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

## MX-2

### Aluminum Perforated

0.040 in

Ix: 0.1624 in<sup>4</sup>/ft  
Sx: 0.1885 in<sup>3</sup>/ft  
Perforation: 23%

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

**MX-2**  
**Aluminum Perforated**

0.040 in

Ix: 0.1338 in<sup>4</sup>/ft  
Sx: 0.1614 in<sup>3</sup>/ft  
Perforation: 30%

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

**MX-2**  
**Aluminum Perforated**

0.040 in

Ix: 0.1212 in<sup>4</sup>/ft  
Sx: 0.1508 in<sup>3</sup>/ft  
Perforation: 33%

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

# Load / Span Data

MX-2 Aluminum Perforated				0.040 in				Ix: 0.0951 in <sup>4</sup> /ft Sx: 0.1255 in <sup>3</sup> /ft Perforation: 40%	
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	5'-0"	5'-0"	5'-7"	55	Stress	3'-0"	3'-0"	3'-5"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	3'-9"	5'-0"	4'-7"
25	Stress	4'-6"	4'-6"	5'-0"	60	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-7"	4'-10"	4'-6"
30	Stress	4'-1"	4'-1"	4'-7"	65	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-6"	4'-9"	4'-4"
35	Stress	3'-9"	3'-9"	4'-3"	70	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-5"	4'-8"	4'-3"
40	Stress	3'-7"	3'-7"	4'-0"	75	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-2"	5'-7"	5'-1"		Deflection	3'-4"	4'-6"	4'-2"
45	Stress	3'-4"	3'-4"	3'-9"	80	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-3"	4'-5"	4'-1"
50	Stress	3'-2"	3'-2"	3'-7"	85	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-3"	4'-4"	4'-0"

MX-2 Aluminum Perforated				0.040 in				Ix: 0.0629 in <sup>4</sup> /ft Sx: 0.0943 in <sup>3</sup> /ft Perforation: 51%	
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	4'-4"	4'-4"	4'-10"	55	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-3"	4'-4"	4'-0"
25	Stress	3'-11"	3'-11"	4'-4"	60	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-7"	3'-7"	4'-0"	65	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	3'-3"	3'-3"	3'-8"	70	Stress	2'-4"	2'-4"	2'-7"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	3'-1"	3'-1"	3'-5"	75	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-11"	2'-11"	3'-3"	80	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-6"	4'-8"	4'-3"		Deflection	2'-10"	3'-10"	3'-7"
50	Stress	2'-9"	2'-9"	3'-1"	85	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-9"	3'-6"

**MX-2**  
**Aluminum Perforated**

0.050 in

Ix: 0.2532 in<sup>4</sup>/ft  
Sx: 0.3106 in<sup>3</sup>/ft  
Perforation: 10%

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

**MX-2**  
**Aluminum Perforated**

0.050 in

Ix: 0.1913 in<sup>4</sup>/ft  
Sx: 0.2318 in<sup>3</sup>/ft  
Perforation: 23%

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

\*See page 3 for standard notes\*

# Load / Span Data

## MX-2

### Aluminum Perforated

0.050 in

Ix: 0.1577 in<sup>4</sup>/ft  
Sx: 0.1984 in<sup>3</sup>/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	6'-4"	6'-4"	7'-1"	55	Stress	3'-10"	3'-10"	4'-3"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	4'-5"	5'-11"	5'-5"
25	Stress	5'-8"	5'-8"	6'-4"	60	Stress	3'-8"	3'-8"	4'-1"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-3"	5'-9"	5'-4"
30	Stress	5'-2"	5'-2"	5'-9"	65	Stress	3'-6"	3'-6"	3'-11"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-2"	5'-7"	5'-2"
35	Stress	4'-9"	4'-9"	5'-4"	70	Stress	3'-4"	3'-4"	3'-9"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-1"	5'-6"	5'-0"
40	Stress	4'-5"	4'-5"	5'-0"	75	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	4'-0"	5'-4"	4'-11"
45	Stress	4'-2"	4'-2"	4'-8"	80	Stress	3'-2"	3'-2"	3'-6"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-11"	5'-3"	4'-10"
50	Stress	4'-0"	4'-0"	4'-5"	85	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-6"	6'-2"	5'-8"		Deflection	3'-10"	5'-2"	4'-9"

## MX-2

### Aluminum Perforated

0.050 in

Ix: 0.1429 in<sup>4</sup>/ft  
Sx: 0.1854 in<sup>3</sup>/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	6'-1"	6'-1"	6'-10"	55	Stress	3'-8"	3'-8"	4'-1"
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-3"	5'-9"	5'-3"
25	Stress	5'-5"	5'-5"	6'-1"	60	Stress	3'-6"	3'-6"	3'-11"
	Deflection	5'-6"	7'-6"	6'-10"		Deflection	4'-2"	5'-7"	5'-1"
30	Stress	5'-0"	5'-0"	5'-7"	65	Stress	3'-5"	3'-5"	3'-9"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-0"	5'-5"	5'-0"
35	Stress	4'-7"	4'-7"	5'-2"	70	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-11"	6'-8"	6'-2"		Deflection	3'-11"	5'-4"	4'-10"
40	Stress	4'-4"	4'-4"	4'-10"	75	Stress	3'-2"	3'-2"	3'-6"
	Deflection	4'-9"	6'-5"	5'-10"		Deflection	3'-10"	5'-2"	4'-9"
45	Stress	4'-1"	4'-1"	4'-6"	80	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-9"	5'-1"	4'-8"
50	Stress	3'-10"	3'-10"	4'-4"	85	Stress	2'-11"	2'-11"	3'-4"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-8"	5'-0"	4'-7"

**MX-2**  
**Aluminum Perforated**

0.050 in

**I<sub>x</sub>:** 0.1121 in<sup>4</sup>/ft  
**S<sub>x</sub>:** 0.1543 in<sup>3</sup>/ft  
**Perforation:** 40%

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

**MX-2**  
**Aluminum Perforated**

0.050 in

**I<sub>x</sub>:** 0.0741 in<sup>4</sup>/ft  
**S<sub>x</sub>:** 0.1159 in<sup>3</sup>/ft  
**Perforation:** 51%

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

\*See page 3 for standard notes\*

# Load / Span Data

## MX-3

### Aluminum Perforated

0.032 in

Ix: 0.1384 in<sup>4</sup>/ft  
Sx: 0.1369 in<sup>3</sup>/ft  
Perforation: 10%

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

## MX-3

### Aluminum Perforated

0.032 in

Ix: 0.1046 in<sup>4</sup>/ft  
Sx: 0.1022 in<sup>3</sup>/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'-1"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	3'-10"	5'-2"	4'-9"
25	Stress	4'-1"	4'-1"	4'-6"	60	Stress	2'-7"	2'-7"	2'-11"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-9"	5'-0"	4'-7"
30	Stress	3'-8"	3'-8"	4'-2"	65	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-8"	4'-11"	4'-6"
35	Stress	3'-5"	3'-5"	3'-10"	70	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-5"	6'-0"	5'-6"		Deflection	3'-6"	4'-9"	4'-5"
40	Stress	3'-2"	3'-2"	3'-7"	75	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-5"	4'-8"	4'-3"
45	Stress	3'-0"	3'-0"	3'-4"	80	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-5"	4'-7"	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'-6"	4'-1"

**MX-3**  
**Aluminum Perforated**

0.032 in

**I<sub>x</sub>:** 0.0862 in<sup>4</sup>/ft  
**S<sub>x</sub>:** 0.0874 in<sup>3</sup>/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'-10"
	Deflection	5'-0"	6'-10"	6'-3"		Deflection	3'-7"	4'-10"	4'-5"
25	Stress	3'-9"	3'-9"	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'-10"	65	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-5"	5'-11"	5'-5"		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'-2"		Deflection	3'-4"	4'-6"	4'-1"
40	Stress	2'-11"	2'-11"	3'-4"	75	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-3"	4'-5"	4'-0"
45	Stress	2'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-2"	4'-3"	3'-11"
50	Stress	2'-8"	2'-8"	2'-11"	85	Stress	2'-0"	2'-0"	2'-3"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"

**MX-3**  
**Aluminum Perforated**

0.032 in

**I<sub>x</sub>:** 0.0781 in<sup>4</sup>/ft  
**S<sub>x</sub>:** 0.0817 in<sup>3</sup>/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)
30	Stress	3'-4"	3'-4"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-3"	4'-5"	4'-1"
35	Stress	3'-1"	3'-1"	3'-5"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-6"	5'-0"		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'-10"	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'-0"	4'-7"		Deflection	3'-1"	4'-2"	3'-10"
50	Stress	2'-7"	2'-7"	2'-10"	85	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	3'-0"	4'-1"	3'-9"
55	Stress	2'-5"	2'-5"	2'-9"	90	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	4'-0"	3'-8"
60	Stress	2'-4"	2'-4"	2'-7"	95	Stress	1'-10"	1'-10"	2'-1"
	Deflection	3'-5"	4'-7"	4'-2"		Deflection	2'-11"	3'-11"	3'-7"

\*See page 3 for standard notes\*

# Load / Span Data

## MX-3

### Aluminum Perforated

0.032 in

Ix: 0.0613 in<sup>4</sup>/ft  
Sx: 0.068 in<sup>3</sup>/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'-3"	2'-3"	2'-6"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-2"	4'-4"	4'-0"
25	Stress	3'-4"	3'-4"	3'-8"	60	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-1"	4'-2"	3'-10"
30	Stress	3'-0"	3'-0"	3'-4"	65	Stress	2'-1"	2'-1"	2'-3"
	Deflection	3'-11"	5'-4"	4'-10"		Deflection	3'-0"	4'-1"	3'-9"
35	Stress	2'-9"	2'-9"	3'-1"	70	Stress	1'-12"	1'-12"	2'-2"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	3'-0"	4'-0"	3'-8"
40	Stress	2'-7"	2'-7"	2'-11"	75	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-7"	4'-10"	4'-5"		Deflection	2'-11"	3'-11"	3'-7"
45	Stress	2'-6"	2'-6"	2'-9"	80	Stress	1'-10"	1'-10"	2'-1"
	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'-1"		Deflection	2'-9"	3'-9"	3'-5"

## MX-3

### Aluminum Perforated

0.032 in

Ix: 0.0405 in<sup>4</sup>/ft  
Sx: 0.0511 in<sup>3</sup>/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'-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'-8"		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"

**MX-3**

**Aluminum Perforated**

0.040 in

**Ix:** 0.1855 in<sup>4</sup>/ft  
**Sx:** 0.1813 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-3**

**Aluminum Perforated**

0.040 in

**Ix:** 0.1402 in<sup>4</sup>/ft  
**Sx:** 0.1353 in<sup>3</sup>/ft  
**Perforation:** 23%

Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	5'-2"	5'-2"	5'-10"	55	Stress	3'-2"	3'-2"	3'-6"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-3"	5'-8"	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'-11"	2'-11"	3'-3"
	Deflection	5'-2"	7'-0"	6'-5"		Deflection	4'-0"	5'-5"	4'-11"
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'-6"	3'-6"	3'-11"	80	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-9"	5'-0"	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"

\*See page 3 for standard notes\*

# Load / Span Data

## MX-3

### Aluminum Perforated

0.040 in

Ix: 0.1155 in<sup>4</sup>/ft  
Sx: 0.1158 in<sup>3</sup>/ft  
Perforation: 30%

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

## MX-3

### Aluminum Perforated

0.040 in

Ix: 0.1047 in<sup>4</sup>/ft  
Sx: 0.1082 in<sup>3</sup>/ft  
Perforation: 33%

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

**MX-3**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0822 in<sup>4</sup>/ft  
**Sx:** 0.0901 in<sup>3</sup>/ft  
**Perforation:** 40%

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

**MX-3**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0543 in<sup>4</sup>/ft  
**Sx:** 0.0677 in<sup>3</sup>/ft  
**Perforation:** 51%

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

\*See page 3 for standard notes\*

# Load / Span Data

## MX-3

### Aluminum Perforated

0.050 in

Ix: 0.2173 in<sup>4</sup>/ft  
Sx: 0.2129 in<sup>3</sup>/ft  
Perforation: 10%

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

## MX-3

### Aluminum Perforated

0.050 in

Ix: 0.1642 in<sup>4</sup>/ft  
Sx: 0.1589 in<sup>3</sup>/ft  
Perforation: 23%

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

**MX-3**  
**Aluminum Perforated**

0.050 in  
Ix: 0.1353 in<sup>4</sup>/ft  
Sx: 0.136 in<sup>3</sup>/ft  
Perforation: 30%

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

**MX-3**  
**Aluminum Perforated**

0.050 in  
Ix: 0.1226 in<sup>4</sup>/ft  
Sx: 0.1271 in<sup>3</sup>/ft  
Perforation: 33%

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

\*See page 3 for standard notes\*

# Load / Span Data

MX-3 Aluminum Perforated				0.050 in				Ix: 0.0962 in <sup>4</sup> /ft Sx: 0.1058 in <sup>3</sup> /ft Perforation: 40%	
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	4'-7"	4'-7"	5'-2"	55	Stress	2'-9"	2'-9"	3'-1"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	3'-9"	5'-0"	4'-7"
25	Stress	4'-1"	4'-1"	4'-7"	60	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-7"	4'-11"	4'-6"
30	Stress	3'-9"	3'-9"	4'-2"	65	Stress	2'-7"	2'-7"	2'-10"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-6"	4'-9"	4'-4"
35	Stress	3'-6"	3'-6"	3'-11"	70	Stress	2'-6"	2'-6"	2'-9"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-5"	4'-8"	4'-3"
40	Stress	3'-3"	3'-3"	3'-8"	75	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-4"	4'-6"	4'-2"
45	Stress	3'-1"	3'-1"	3'-5"	80	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	3'-3"	4'-5"	4'-1"
50	Stress	2'-11"	2'-11"	3'-3"	85	Stress	2'-3"	2'-3"	2'-6"
	Deflection	3'-10"	5'-2"	4'-9"		Deflection	3'-3"	4'-4"	4'-0"

MX-3 Aluminum Perforated				0.050 in				Ix: 0.0636 in <sup>4</sup> /ft Sx: 0.0795 in <sup>3</sup> /ft Perforation: 51%	
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	4'-0"	4'-0"	4'-5"	55	Stress	2'-5"	2'-5"	2'-8"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-3"	4'-5"	4'-0"
25	Stress	3'-7"	3'-7"	4'-0"	60	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-2"	4'-3"	3'-11"
30	Stress	3'-3"	3'-3"	3'-8"	65	Stress	2'-3"	2'-3"	2'-6"
	Deflection	4'-0"	5'-4"	4'-11"		Deflection	3'-1"	4'-2"	3'-10"
35	Stress	3'-0"	3'-0"	3'-4"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"
40	Stress	2'-10"	2'-10"	3'-2"	75	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-7"	4'-11"	4'-6"		Deflection	2'-11"	3'-11"	3'-8"
45	Stress	2'-8"	2'-8"	3'-0"	80	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-10"	3'-10"	3'-7"
50	Stress	2'-6"	2'-6"	2'-10"	85	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-4"	4'-6"	4'-2"		Deflection	2'-10"	3'-10"	3'-6"

**MX-4**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.1425 in<sup>4</sup>/ft  
**Sx:** 0.1408 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-4**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.1077 in<sup>4</sup>/ft  
**Sx:** 0.1051 in<sup>3</sup>/ft  
**Perforation:** 23%

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

\*See page 3 for standard notes\*

# Load / Span Data

## MX-4

### Aluminum Perforated

0.032 in

Ix: 0.0888 in<sup>4</sup>/ft  
Sx: 0.0899 in<sup>3</sup>/ft  
Perforation: 30%

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

## MX-4

### Aluminum Perforated

0.032 in

Ix: 0.0804 in<sup>4</sup>/ft  
Sx: 0.084 in<sup>3</sup>/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)
30	Stress	3'-4"	3'-4"	3'-9"	65	Stress	2'-3"	2'-3"	2'-7"
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-4"	4'-6"	4'-1"
35	Stress	3'-1"	3'-1"	3'-6"	70	Stress	2'-2"	2'-2"	2'-5"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-3"	4'-5"	4'-0"
40	Stress	2'-11"	2'-11"	3'-3"	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'-9"	2'-9"	3'-1"	80	Stress	2'-1"	2'-1"	2'-4"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-1"	4'-2"	3'-10"
50	Stress	2'-7"	2'-7"	2'-11"	85	Stress	1'-12"	1'-12"	2'-3"
	Deflection	3'-8"	4'-11"	4'-6"		Deflection	3'-0"	4'-1"	3'-9"
55	Stress	2'-6"	2'-6"	2'-9"	90	Stress	1'-11"	1'-11"	2'-2"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	3'-0"	4'-0"	3'-8"
60	Stress	2'-4"	2'-4"	2'-8"	95	Stress	1'-11"	1'-11"	2'-1"
	Deflection	3'-5"	4'-7"	4'-3"		Deflection	2'-11"	3'-11"	3'-8"

**MX-4**  
**Aluminum Perforated**

0.032 in  
Ix: 0.0631 in<sup>4</sup>/ft  
Sx: 0.07 in<sup>3</sup>/ft  
Perforation: 40%

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

**MX-4**  
**Aluminum Perforated**

0.032 in  
Ix: 0.0417 in<sup>4</sup>/ft  
Sx: 0.0525 in<sup>3</sup>/ft  
Perforation: 51%

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

\*See page 3 for standard notes\*

# Load / Span Data

## MX-4

### Aluminum Perforated

**Ix:** 0.1743 in<sup>4</sup>/ft  
**Sx:** 0.1717 in<sup>3</sup>/ft  
**Perforation:** 10%

0.040 in

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

## MX-4

### Aluminum Perforated

**Ix:** 0.1317 in<sup>4</sup>/ft  
**Sx:** 0.1281 in<sup>3</sup>/ft  
**Perforation:** 23%

0.040 in

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

**MX-4**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1086 in<sup>4</sup>/ft  
**Sx:** 0.1097 in<sup>3</sup>/ft  
**Perforation:** 30%

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

**MX-4**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0984 in<sup>4</sup>/ft  
**Sx:** 0.1025 in<sup>3</sup>/ft  
**Perforation:** 33%

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

\*See page 3 for standard notes\*

# Load / Span Data

## MX-4

### Aluminum Perforated

0.040 in

Ix: 0.0772 in<sup>4</sup>/ft  
Sx: 0.0853 in<sup>3</sup>/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)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)

## MX-4

### Aluminum Perforated

0.040 in

Ix: 0.051 in<sup>4</sup>/ft  
Sx: 0.0641 in<sup>3</sup>/ft  
Perforation: 51%

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

**MX-4**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.217 in<sup>4</sup>/ft  
**Sx:** 0.2128 in<sup>3</sup>/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)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)

**MX-4**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.164 in<sup>4</sup>/ft  
**Sx:** 0.1588 in<sup>3</sup>/ft  
**Perforation:** 23%

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

\*See page 3 for standard notes\*

# Load / Span Data

**MX-4**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1353 in<sup>4</sup>/ft  
**Sx:** 0.136 in<sup>3</sup>/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)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)

**MX-4**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1225 in<sup>4</sup>/ft  
**Sx:** 0.127 in<sup>3</sup>/ft  
**Perforation:** 33%

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

**MX-4**  
**Aluminum Perforated**

0.050 in

Ix: 0.0961 in<sup>4</sup>/ft  
Sx: 0.1057 in<sup>3</sup>/ft  
Perforation: 40%

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

**MX-4**  
**Aluminum Perforated**

0.050 in

Ix: 0.0636 in<sup>4</sup>/ft  
Sx: 0.0794 in<sup>3</sup>/ft  
Perforation: 51%

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

# Load / Span Data

**MX-6**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1471 in<sup>4</sup>/ft  
**Sx:** 0.1225 in<sup>3</sup>/ft  
**Perforation:** 10%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	)	)	)		)	)	)
	o	)	o		o	)	o
	)	)	)		)	)	)
	o	)	o		o	)	o
	)	)	)		)	)	)
	o	)	o		o	)	o
	)	)	)		)	)	)

**MX-6**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1111 in<sup>4</sup>/ft  
**Sx:** 0.0943 in<sup>3</sup>/ft  
**Perforation:** 23%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	)	)	)		)	)	)
	o	)	o		o	)	o
	)	)	)		)	)	)
	o	)	o		o	)	o
	)	)	)		)	)	)
	o	)	o		o	)	o
	)	)	)		)	)	)

**MX-6**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0916 in<sup>4</sup>/ft  
**Sx:** 0.0807 in<sup>3</sup>/ft  
**Perforation:** 30%

O	o	)	u	O	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

**MX-6**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0839 in<sup>4</sup>/ft  
**Sx:** 0.0754 in<sup>3</sup>/ft  
**Perforation:** 33%

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

\*See page 3 for standard notes\*

# Load / Span Data

MX-6 Aluminum Perforated				0.040 in				Ix: 0.0651 in <sup>4</sup> /ft Sx: 0.0628 in <sup>3</sup> /ft Perforation: 40%
o	o	)	u	o	o	)	u	
o	o	o	o	o	o	o	o	
o	)			o	)			
o	)			o	)			
o	)			o	)			
o	)			o	)			
o	)			o	)			
o	)			o	)			
o	)			o	)			

MX-6 Aluminum Perforated				0.040 in				Ix: 0.0431 in <sup>4</sup> /ft Sx: 0.0471 in <sup>3</sup> /ft Perforation: 51%	
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	3'-1"	3'-1"	3'-5"	55	Stress	1'-10"	1'-10"	2'-1"
	Deflection	4'-0"	5'-5"	4'-11"		Deflection	2'-10"	3'-10"	3'-6"
25	Stress	2'-9"	2'-9"	3'-1"	60	Stress	1'-9"	1'-9"	2'-0"
	Deflection	3'-9"	5'-0"	4'-7"		Deflection	2'-9"	3'-9"	3'-5"
30	Stress	2'-6"	2'-6"	2'-10"	65	Stress	1'-8"	1'-8"	1'-11"
	Deflection	3'-6"	4'-9"	4'-4"		Deflection	2'-8"	3'-8"	3'-4"
35	Stress	2'-4"	2'-4"	2'-7"	70	Stress	1'-8"	1'-8"	1'-10"
	Deflection	3'-4"	4'-6"	4'-1"		Deflection	2'-8"	3'-7"	3'-3"
40	Stress	2'-2"	2'-2"	2'-5"	75	Stress	1'-7"	1'-7"	1'-9"
	Deflection	3'-2"	4'-3"	3'-11"		Deflection	2'-7"	3'-6"	3'-2"
45	Stress	2'-1"	2'-1"	2'-3"	80	Stress	1'-6"	1'-6"	1'-9"
	Deflection	3'-1"	4'-1"	3'-9"		Deflection	2'-6"	3'-5"	3'-1"
50	Stress	1'-11"	1'-11"	2'-2"	85	Stress	1'-6"	1'-6"	1'-8"
	Deflection	2'-11"	4'-0"	3'-8"		Deflection	2'-6"	3'-4"	3'-1"

**MX-6**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1828 in<sup>4</sup>/ft  
**Sx:** 0.1562 in<sup>3</sup>/ft  
**Perforation:** 10%

o	o	)	u	o	o	)	u
o	o	o	o	o	o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

**MX-6**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1382 in<sup>4</sup>/ft  
**Sx:** 0.1166 in<sup>3</sup>/ft  
**Perforation:** 23%

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

\*See page 3 for standard notes\*

# Load / Span Data

## MX-6

### Aluminum Perforated

0.050 in

Ix: 0.1139 in<sup>4</sup>/ft  
Sx: 0.0998 in<sup>3</sup>/ft  
Perforation: 30%

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

## MX-6

### Aluminum Perforated

0.050 in

Ix: 0.1032 in<sup>4</sup>/ft  
Sx: 0.0932 in<sup>3</sup>/ft  
Perforation: 33%

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

**MX-6**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.081 in<sup>4</sup>/ft  
**Sx:** 0.0776 in<sup>3</sup>/ft  
**Perforation:** 40%

o	o	)	u	o	o	)	u
o	o	o	o	o	o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

**MX-6**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.0535 in<sup>4</sup>/ft  
**Sx:** 0.0583 in<sup>3</sup>/ft  
**Perforation:** 51%

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

\*See page 3 for standard notes\*

# Load / Span Data

**MX-7**  
**Aluminum Perforated**

0.040 in  
 Ix: 0.1599 in<sup>4</sup>/ft  
 Sx: 0.1499 in<sup>3</sup>/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'-6"	5'-6"	6'-1"	55	Stress	3'-4"	3'-4"	3'-8"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	4'-5"	6'-0"	5'-6"
25	Stress	4'-11"	4'-11"	5'-6"	60	Stress	3'-2"	3'-2"	3'-6"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-3"	5'-9"	5'-4"
30	Stress	4'-6"	4'-6"	5'-0"	65	Stress	3'-0"	3'-0"	3'-5"
	Deflection	5'-5"	7'-4"	6'-8"		Deflection	4'-2"	5'-8"	5'-2"
35	Stress	4'-2"	4'-2"	4'-8"	70	Stress	2'-11"	2'-11"	3'-3"
	Deflection	5'-2"	6'-11"	6'-4"		Deflection	4'-1"	5'-6"	5'-1"
40	Stress	3'-10"	3'-10"	4'-4"	75	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	4'-0"	5'-5"	4'-11"
45	Stress	3'-8"	3'-8"	4'-1"	80	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-9"	6'-4"	5'-10"		Deflection	3'-11"	5'-3"	4'-10"
50	Stress	3'-6"	3'-6"	3'-10"	85	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-10"	5'-2"	4'-9"

**MX-7**  
**Aluminum Perforated**

0.040 in  
 Ix: 0.1208 in<sup>4</sup>/ft  
 Sx: 0.1119 in<sup>3</sup>/ft  
 Perforation: 23%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	o	)	o		o	)	o
	o	)	o		o	)	o
	o	)	o		o	)	o
	o	)	o		o	)	o
	o	)	o		o	)	o
	o	)	o		o	)	o
	o	)	o		o	)	o

\*See page 3 for standard notes\*

**MX-7**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0996 in<sup>4</sup>/ft  
**Sx:** 0.0958 in<sup>3</sup>/ft  
**Perforation:** 30%

O	o	)	u	O	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

**MX-7**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0902 in<sup>4</sup>/ft  
**Sx:** 0.0895 in<sup>3</sup>/ft  
**Perforation:** 33%

O	o	)	u	O	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

# Load / Span Data

MX-7 Aluminum Perforated				0.040 in				Ix: 0.0708 in <sup>4</sup> /ft	Sx: 0.0745 in <sup>3</sup> /ft	Perforation: 40%
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	
20	Stress	3'-10"	3'-10"	4'-4"	55	Stress	2'-4"	2'-4"	2'-7"	
	Deflection	4'-9"	6'-4"	5'-10"		Deflection	3'-4"	4'-7"	4'-2"	
25	Stress	3'-5"	3'-5"	3'-10"	60	Stress	2'-3"	2'-3"	2'-6"	
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-3"	4'-5"	4'-1"	
30	Stress	3'-2"	3'-2"	3'-6"	65	Stress	2'-2"	2'-2"	2'-5"	
	Deflection	4'-1"	5'-7"	5'-1"		Deflection	3'-2"	4'-4"	3'-11"	
35	Stress	2'-11"	2'-11"	3'-3"	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	1'-12"	1'-12"	2'-3"	
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-0"	4'-1"	3'-9"	
45	Stress	2'-7"	2'-7"	2'-11"	80	Stress	1'-11"	1'-11"	2'-2"	
	Deflection	3'-7"	4'-10"	4'-6"		Deflection	3'-0"	4'-0"	3'-8"	
50	Stress	2'-5"	2'-5"	2'-9"	85	Stress	1'-10"	1'-10"	2'-1"	
	Deflection	3'-6"	4'-8"	4'-4"		Deflection	2'-11"	3'-11"	3'-7"	

MX-7 Aluminum Perforated				0.040 in				Ix: 0.0468 in <sup>4</sup> /ft	Sx: 0.056 in <sup>3</sup> /ft	Perforation: 51%
o		)	u	o		)	u	o		
o	)	o	)	o	)	o	)	o	)	
o	)	o	)	o	)	o	)	o	)	
o	)	o	)	o	)	o	)	o	)	
o	)	o	)	o	)	o	)	o	)	
o	)	o	)	o	)	o	)	o	)	
o	)	o	)	o	)	o	)	o	)	
o	)	o	)	o	)	o	)	o	)	

**MX-7**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.2374 in<sup>4</sup>/ft  
**Sx:** 0.211 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-7**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1794 in<sup>4</sup>/ft  
**Sx:** 0.1575 in<sup>3</sup>/ft  
**Perforation:** 23%

o		)	u	o	o	)	u
o		o	o	o	o	o	o
o	)	o	o	o	)	o	)
o	)	o	o	o	)	o	)
o	)	o	o	o	)	o	)
o	)	o	o	o	)	o	)
o	)	o	o	o	)	o	)
o	)	o	o	o	)	o	)
o	)	o	o	o	)	o	)

# Load / Span Data

<b>MX-7</b>					<b>0.050 in</b>			<b>Ix:</b> 0.1479 in <sup>4</sup> /ft
<b>Aluminum Perforated</b>								<b>Sx:</b> 0.1348 in <sup>3</sup> /ft
					<b>Perforation: 30%</b>			
o	o	)	u	o	o	)	u	
	o	o	o			o	o	
	)	)	)			)	)	
	o					o		
	)					)		
	o					o		
	)					)		
	o					o		
	)					)		
	o					o		
	)					)		

<b>MX-7</b>					<b>0.050 in</b>			<b>Ix:</b> 0.134 in <sup>4</sup> /ft
<b>Aluminum Perforated</b>								<b>Sx:</b> 0.126 in <sup>3</sup> /ft
					<b>Perforation: 33%</b>			
o	o	)	u	o	o	)	u	
	o	o	o			o	o	
	)	)	)			)	)	
	o					o		
	)					)		
	o					o		
	)					)		
	o					o		
	)					)		
	o					o		
	)					)		

**MX-7  
Aluminum Perforated**

0.050 in

Ix: 0.1052 in<sup>4</sup>/ft  
Sx: 0.1049 in<sup>3</sup>/ft  
Perforation: 40%

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

**MX-7  
Aluminum Perforated**

0.050 in

Ix: 0.0695 in<sup>4</sup>/ft  
Sx: 0.0787 in<sup>3</sup>/ft  
Perforation: 51%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

# Load / Span Data

MX-8 Aluminum Perforated				0.040 in				Ix: 0.1809 in <sup>4</sup> /ft	Sx: 0.1749 in <sup>3</sup> /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'-11"	5'-11"	6'-7"	55	Stress	3'-7"	3'-7"	4'-0"	
	Deflection	6'-5"	8'-8"	8'-0"		Deflection	4'-7"	6'-3"	5'-8"	
25	Stress	5'-3"	5'-3"	5'-11"	60	Stress	3'-5"	3'-5"	3'-10"	
	Deflection	6'-0"	8'-1"	7'-5"		Deflection	4'-6"	6'-0"	5'-7"	
30	Stress	4'-10"	4'-10"	5'-5"	65	Stress	3'-3"	3'-3"	3'-8"	
	Deflection	5'-8"	7'-7"	7'-0"		Deflection	4'-4"	5'-11"	5'-5"	
35	Stress	4'-6"	4'-6"	5'-0"	70	Stress	3'-2"	3'-2"	3'-6"	
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-3"	5'-9"	5'-3"	
40	Stress	4'-2"	4'-2"	4'-8"	75	Stress	3'-1"	3'-1"	3'-5"	
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-2"	5'-7"	5'-2"	
45	Stress	3'-11"	3'-11"	4'-5"	80	Stress	2'-11"	2'-11"	3'-4"	
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	4'-1"	5'-6"	5'-0"	
50	Stress	3'-9"	3'-9"	4'-2"	85	Stress	2'-10"	2'-10"	3'-2"	
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	4'-0"	5'-4"	4'-11"	

MX-8 Aluminum Perforated				0.040 in				Ix: 0.1367 in <sup>4</sup> /ft	Sx: 0.1305 in <sup>3</sup> /ft	Perforation: 23%
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	
20	Stress	5'-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'-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'-4"	70	Stress	2'-9"	2'-9"	3'-1"	
	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'-8"	2'-8"	2'-11"	
	Deflection	4'-8"	6'-4"	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'-1"	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'-8"	4'-11"	4'-6"	

**MX-8**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1127 in<sup>4</sup>/ft  
**Sx:** 0.1117 in<sup>3</sup>/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'-9"	4'-9"	5'-3"	55	Stress	2'-10"	2'-10"	3'-2"
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	3'-11"	5'-4"	4'-10"
25	Stress	4'-3"	4'-3"	4'-9"	60	Stress	2'-9"	2'-9"	3'-1"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	3'-10"	5'-2"	4'-9"
30	Stress	3'-10"	3'-10"	4'-4"	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'-7"	3'-7"	4'-0"	70	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-8"	4'-11"	4'-6"
40	Stress	3'-4"	3'-4"	3'-9"	75	Stress	2'-5"	2'-5"	2'-9"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-7"	4'-9"	4'-5"
45	Stress	3'-2"	3'-2"	3'-6"	80	Stress	2'-4"	2'-4"	2'-8"
	Deflection	4'-2"	5'-8"	5'-3"		Deflection	3'-6"	4'-8"	4'-4"
50	Stress	3'-0"	3'-0"	3'-4"	85	Stress	2'-4"	2'-4"	2'-7"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-5"	4'-7"	4'-3"

**MX-8**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1021 in<sup>4</sup>/ft  
**Sx:** 0.1044 in<sup>3</sup>/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)
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			

# Load / Span Data

**MX-8  
 Aluminum Perforated**

0.040 in  
 Ix: 0.0801 in<sup>4</sup>/ft  
 Sx: 0.0869 in<sup>3</sup>/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)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)

**MX-8  
 Aluminum Perforated**

0.040 in  
 Ix: 0.053 in<sup>4</sup>/ft  
 Sx: 0.0653 in<sup>3</sup>/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)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)
0	)	)	)	0	)	)	)

**MX-8**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.2267 in<sup>4</sup>/ft  
**Sx:** 0.2184 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-8**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1713 in<sup>4</sup>/ft  
**Sx:** 0.163 in<sup>3</sup>/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)
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			

\*See page 3 for standard notes\*

# Load / Span Data

**MX-8**  
**Aluminum Perforated**

0.050 in

Ix: 0.1412 in<sup>4</sup>/ft  
 Sx: 0.1395 in<sup>3</sup>/ft  
 Perforation: 30%

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

**MX-8**  
**Aluminum Perforated**

0.050 in

Ix: 0.1279 in<sup>4</sup>/ft  
 Sx: 0.1304 in<sup>3</sup>/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)
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			

**MX-8**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1004 in<sup>4</sup>/ft  
**Sx:** 0.1085 in<sup>3</sup>/ft  
**Perforation:** 40%

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

**MX-8**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.0664 in<sup>4</sup>/ft  
**Sx:** 0.0815 in<sup>3</sup>/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)
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			
0	)				0	)			

# Load / Span Data

## MX-9

### Aluminum Perforated

0.040 in

Ix: 0.2038 in<sup>4</sup>/ft  
Sx: 0.237 in<sup>3</sup>/ft  
Perforation: 10%

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

## MX-9

### Aluminum Perforated

0.040 in

Ix: 0.154 in<sup>4</sup>/ft  
Sx: 0.1769 in<sup>3</sup>/ft  
Perforation: 23%

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

MX-9 Aluminum Perforated				0.040 in				Ix: 0.1269 in <sup>4</sup> /ft Sx: 0.1514 in <sup>3</sup> /ft Perforation: 30%	
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	5'-6"	5'-6"	6'-2"	55	Stress	3'-4"	3'-4"	3'-9"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-1"	5'-6"	5'-1"
25	Stress	4'-11"	4'-11"	5'-6"	60	Stress	3'-2"	3'-2"	3'-7"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-0"	5'-4"	4'-11"
30	Stress	4'-6"	4'-6"	5'-0"	65	Stress	3'-1"	3'-1"	3'-5"
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	3'-10"	5'-3"	4'-10"
35	Stress	4'-2"	4'-2"	4'-8"	70	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-9"	5'-1"	4'-8"
40	Stress	3'-11"	3'-11"	4'-4"	75	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-8"	5'-0"	4'-7"
45	Stress	3'-8"	3'-8"	4'-1"	80	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-7"	4'-10"	4'-6"
50	Stress	3'-6"	3'-6"	3'-11"	85	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-6"	4'-9"	4'-5"

MX-9 Aluminum Perforated				0.040 in				Ix: 0.115 in <sup>4</sup> /ft Sx: 0.1415 in <sup>3</sup> /ft Perforation: 33%
o		o	)	u	o		)	u
		o	o	o			o	o
20	Stress	5'-4"	5'-4"	5'-11"	55	Stress	3'-2"	3'-2"
	Deflection	5'-7"	7'-6"	6'-10"		Deflection	3'-11"	5'-4"
25	Stress	4'-9"	4'-9"	5'-4"	60	Stress	3'-1"	3'-1"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	3'-10"	5'-2"
30	Stress	4'-4"	4'-4"	4'-10"	65	Stress	2'-11"	2'-11"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-9"	5'-1"
35	Stress	4'-0"	4'-0"	4'-6"	70	Stress	2'-10"	2'-10"
	Deflection	4'-7"	6'-3"	5'-8"		Deflection	3'-8"	4'-11"
40	Stress	3'-9"	3'-9"	4'-2"	75	Stress	2'-9"	2'-9"
	Deflection	4'-5"	5'-11"	5'-5"		Deflection	3'-7"	4'-10"
45	Stress	3'-7"	3'-7"	4'-0"	80	Stress	2'-8"	2'-8"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-6"	4'-9"
50	Stress	3'-4"	3'-4"	3'-9"	85	Stress	2'-7"	2'-7"
	Deflection	4'-1"	5'-6"	5'-1"		Deflection	3'-5"	4'-7"

# Load / Span Data

MX-9 Aluminum Perforated				0.040 in				Ix: 0.0902 in <sup>4</sup> /ft Sx: 0.1178 in <sup>3</sup> /ft Perforation: 40%	
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	4'-10"	4'-10"	5'-5"	55	Stress	2'-11"	2'-11"	3'-3"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	3'-8"	4'-11"	4'-6"
25	Stress	4'-4"	4'-4"	4'-10"	60	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-9"	6'-5"	5'-11"		Deflection	3'-7"	4'-9"	4'-5"
30	Stress	4'-0"	4'-0"	4'-5"	65	Stress	2'-8"	2'-8"	3'-0"
	Deflection	4'-6"	6'-0"	5'-6"		Deflection	3'-5"	4'-8"	4'-3"
35	Stress	3'-8"	3'-8"	4'-1"	70	Stress	2'-7"	2'-7"	2'-11"
	Deflection	4'-3"	5'-9"	5'-3"		Deflection	3'-4"	4'-7"	4'-2"
40	Stress	3'-5"	3'-5"	3'-10"	75	Stress	2'-6"	2'-6"	2'-10"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-3"	4'-5"	4'-1"
45	Stress	3'-3"	3'-3"	3'-7"	80	Stress	2'-5"	2'-5"	2'-9"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-3"	4'-4"	4'-0"
50	Stress	3'-1"	3'-1"	3'-5"	85	Stress	2'-4"	2'-4"	2'-8"
	Deflection	3'-9"	5'-1"	4'-8"		Deflection	3'-2"	4'-3"	3'-11"

MX-9 Aluminum Perforated				0.040 in				Ix: 0.0597 in <sup>4</sup> /ft Sx: 0.0884 in <sup>3</sup> /ft Perforation: 51%
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o	o	)	u	o	o	)	u
o	o	o	o	o	o	o	o
)	)	)	)	)	)	)	)
o	o	o	o	o	o	o	o
)	)	)	)	)	)	)	)
o	o	o	o	o	o	o	o
)	)	)	)	)	)	)	)
o	o	o	o	o	o	o	o
)	)	)	)	)	)	)	)

**MX-9**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.2552 in<sup>4</sup>/ft  
**Sx:** 0.2953 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-9**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1929 in<sup>4</sup>/ft  
**Sx:** 0.2204 in<sup>3</sup>/ft  
**Perforation:** 23%

o	o	)	u	o	o	)	u
o	o	o	o	o	o	o	o
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)

\*See page 3 for standard notes\*

# Load / Span Data

**MX-9**  
**Aluminum Perforated**

0.050 in  
 Ix: 0.159 in<sup>4</sup>/ft  
 Sx: 0.1886 in<sup>3</sup>/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	6'-2"	6'-2"	6'-10"	55	Stress	3'-8"	3'-8"	4'-2"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	4'-5"	5'-11"	5'-6"
25	Stress	5'-6"	5'-6"	6'-2"	60	Stress	3'-7"	3'-7"	4'-0"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-3"	5'-9"	5'-4"
30	Stress	5'-0"	5'-0"	5'-7"	65	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-2"	5'-8"	5'-2"
35	Stress	4'-8"	4'-8"	5'-2"	70	Stress	3'-3"	3'-3"	3'-8"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-1"	5'-6"	5'-1"
40	Stress	4'-4"	4'-4"	4'-10"	75	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	4'-0"	5'-4"	4'-11"
45	Stress	4'-1"	4'-1"	4'-7"	80	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-9"	6'-4"	5'-10"		Deflection	3'-11"	5'-3"	4'-10"
50	Stress	3'-11"	3'-11"	4'-4"	85	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-10"	5'-2"	4'-9"

**MX-9**  
**Aluminum Perforated**

0.050 in  
 Ix: 0.144 in<sup>4</sup>/ft  
 Sx: 0.1763 in<sup>3</sup>/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	6'-2"	6'-2"	6'-10"	55	Stress	3'-8"	3'-8"	4'-2"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	4'-5"	5'-11"	5'-6"
25	Stress	5'-6"	5'-6"	6'-2"	60	Stress	3'-7"	3'-7"	4'-0"
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-3"	5'-9"	5'-4"
30	Stress	5'-0"	5'-0"	5'-7"	65	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-5"	7'-3"	6'-8"		Deflection	4'-2"	5'-8"	5'-2"
35	Stress	4'-8"	4'-8"	5'-2"	70	Stress	3'-3"	3'-3"	3'-8"
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-1"	5'-6"	5'-1"
40	Stress	4'-4"	4'-4"	4'-10"	75	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	4'-0"	5'-4"	4'-11"
45	Stress	4'-1"	4'-1"	4'-7"	80	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-9"	6'-4"	5'-10"		Deflection	3'-11"	5'-3"	4'-10"
50	Stress	3'-11"	3'-11"	4'-4"	85	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-10"	5'-2"	4'-9"

**MX-9**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.113 in<sup>4</sup>/ft  
**Sx:** 0.1468 in<sup>3</sup>/ft  
**Perforation:** 40%

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

**MX-9**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.0747 in<sup>4</sup>/ft  
**Sx:** 0.1102 in<sup>3</sup>/ft  
**Perforation:** 51%

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

# Load / Span Data

MX-10 Aluminum Perforated				0.040 in				Ix: 0.2015 in <sup>4</sup> /ft	Sx: 0.2259 in <sup>3</sup> /ft	Perforation: 10%
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	
20	Stress	6'-9"	6'-9"	7'-6"	55	Stress	4'-1"	4'-1"	4'-6"	
	Deflection	6'-8"	9'-0"	8'-3"		Deflection	4'-9"	6'-5"	5'-11"	
25	Stress	6'-0"	6'-0"	6'-9"	60	Stress	3'-11"	3'-11"	4'-4"	
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	4'-8"	6'-3"	5'-9"	
30	Stress	5'-6"	5'-6"	6'-2"	65	Stress	3'-9"	3'-9"	4'-2"	
	Deflection	5'-10"	7'-11"	7'-3"		Deflection	4'-6"	6'-1"	5'-7"	
35	Stress	5'-1"	5'-1"	5'-8"	70	Stress	3'-7"	3'-7"	4'-0"	
	Deflection	5'-7"	7'-6"	6'-11"		Deflection	4'-5"	5'-11"	5'-5"	
40	Stress	4'-9"	4'-9"	5'-4"	75	Stress	3'-6"	3'-6"	3'-11"	
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-4"	5'-10"	5'-4"	
45	Stress	4'-6"	4'-6"	5'-0"	80	Stress	3'-4"	3'-4"	3'-9"	
	Deflection	5'-1"	6'-11"	6'-4"		Deflection	4'-3"	5'-8"	5'-3"	
50	Stress	4'-3"	4'-3"	4'-9"	85	Stress	3'-3"	3'-3"	3'-8"	
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	4'-2"	5'-7"	5'-1"	

MX-10 Aluminum Perforated				0.040 in				Ix: 0.1522 in <sup>4</sup> /ft	Sx: 0.1688 in <sup>3</sup> /ft	Perforation: 23%
o	)	o	u	o	)	o	u			
o	)	o	u	o	)	o	u			
o	)	o	u	o	)	o	u			
o	)	o	u	o	)	o	u			
o	)	o	u	o	)	o	u			
o	)	o	u	o	)	o	u			
o	)	o	u	o	)	o	u			
o	)	o	u	o	)	o	u			

\*See page 3 for standard notes\*

**MX-10**  
**Aluminum Perforated**

**0.040 in** **Ix:** 0.1255 in<sup>4</sup>/ft  
**Sx:** 0.1443 in<sup>3</sup>/ft  
**Perforation:** 30%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	

**MX-10**  
**Aluminum Perforated**

**0.040 in** **Ix:** 0.1137 in<sup>4</sup>/ft  
**Sx:** 0.1349 in<sup>3</sup>/ft  
**Perforation:** 33%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	

# Load / Span Data

## MX-10

### Aluminum Perforated

0.040 in

Ix: 0.0892 in<sup>4</sup>/ft  
 Sx: 0.1123 in<sup>3</sup>/ft  
 Perforation: 40%

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

## MX-10

### Aluminum Perforated

0.040 in

Ix: 0.059 in<sup>4</sup>/ft  
 Sx: 0.0843 in<sup>3</sup>/ft  
 Perforation: 51%

o	o	)	u	o	o	)	u
o	o	o	o	o	o	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o

**MX-10**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.2501 in<sup>4</sup>/ft  
**Sx:** 0.2794 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-10**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.189 in<sup>4</sup>/ft  
**Sx:** 0.2085 in<sup>3</sup>/ft  
**Perforation:** 23%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

# Load / Span Data

MX-10 Aluminum Perforated				0.050 in				Ix: 0.1558 in <sup>4</sup> /ft	Sx: 0.1785 in <sup>3</sup> /ft
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
20	Stress	6'-0"	6'-0"	6'-8"	55	Stress	3'-7"	3'-7"	4'-0"
	Deflection	6'-2"	8'-3"	7'-7"		Deflection	4'-5"	5'-11"	5'-5"
25	Stress	5'-4"	5'-4"	6'-0"	60	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-8"	7'-8"	7'-1"		Deflection	4'-3"	5'-9"	5'-3"
30	Stress	4'-11"	4'-11"	5'-5"	65	Stress	3'-4"	3'-4"	3'-8"
	Deflection	5'-4"	7'-3"	6'-8"		Deflection	4'-2"	5'-7"	5'-2"
35	Stress	4'-6"	4'-6"	5'-1"	70	Stress	3'-2"	3'-2"	3'-7"
	Deflection	5'-1"	6'-10"	6'-4"		Deflection	4'-0"	5'-5"	5'-0"
40	Stress	4'-3"	4'-3"	4'-9"	75	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-11"	5'-4"	4'-11"
45	Stress	4'-0"	4'-0"	4'-5"	80	Stress	2'-12"	2'-12"	3'-4"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-10"	5'-3"	4'-9"
50	Stress	3'-9"	3'-9"	4'-3"	85	Stress	2'-11"	2'-11"	3'-3"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-9"	5'-1"	4'-8"

MX-10 Aluminum Perforated				0.050 in				Ix: 0.1411 in <sup>4</sup> /ft	Sx: 0.1668 in <sup>3</sup> /ft
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0

\*See page 3 for standard notes\*

**MX-10**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.1108 in<sup>4</sup>/ft  
**Sx:** 0.1389 in<sup>3</sup>/ft  
**Perforation:** 40%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	

**MX-10**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.0732 in<sup>4</sup>/ft  
**Sx:** 0.1043 in<sup>3</sup>/ft  
**Perforation:** 51%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	
	o	)			o	)	

# Load / Span Data

**MX-11**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1732 in<sup>4</sup>/ft  
**Sx:** 0.1627 in<sup>3</sup>/ft  
**Perforation:** 10%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)

**MX-11**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1309 in<sup>4</sup>/ft  
**Sx:** 0.1214 in<sup>3</sup>/ft  
**Perforation:** 23%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)
	o	)	)		o	)	)

**MX-11**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1079 in<sup>4</sup>/ft  
**Sx:** 0.1039 in<sup>3</sup>/ft  
**Perforation:** 30%

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

**MX-11**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0977 in<sup>4</sup>/ft  
**Sx:** 0.0971 in<sup>3</sup>/ft  
**Perforation:** 33%

o		)	u	o	o	)	u
o		o	o	o	o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

# Load / Span Data

**MX-11**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0767 in<sup>4</sup>/ft  
**Sx:** 0.0809 in<sup>3</sup>/ft  
**Perforation:** 40%

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

**MX-11**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.0507 in<sup>4</sup>/ft  
**Sx:** 0.0607 in<sup>3</sup>/ft  
**Perforation:** 51%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

\*See page 3 for standard notes\*

**MX-11**  
**Aluminum Perforated**

**Ix:** 0.216 in<sup>4</sup>/ft  
**Sx:** 0.2019 in<sup>3</sup>/ft  
**Perforation:** 10%

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

**MX-11**  
**Aluminum Perforated**

**Ix:** 0.1632 in<sup>4</sup>/ft  
**Sx:** 0.1507 in<sup>3</sup>/ft  
**Perforation:** 23%

				0.050 in			
o		)	u	o	)	u	o
	o	o	o		o	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o
o	)	o	o	o	)	o	o

\*See page 3 for standard notes\*

# Load / Span Data

MX-11 Aluminum Perforated				0.050 in				Ix: 0.1345 in <sup>4</sup> /ft	Sx: 0.129 in <sup>3</sup> /ft	Perforation: 30%
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf	Single Span (ft)	Double Span (ft)	Triple Span (ft)		
20	Stress	5'-1"	5'-1"	5'-8"	55	Stress	3'-1"	3'-1"	3'-5"	
	Deflection	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'-3"	
	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'-0"	
	Deflection	4'-10"	6'-7"	6'-0"		Deflection	3'-10"	5'-2"	4'-9"	
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'-5"	6'-0"	5'-6"		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'-10"	4'-6"	

MX-11 Aluminum Perforated				0.050 in				Ix: 0.1219 in <sup>4</sup> /ft	Sx: 0.1206 in <sup>3</sup> /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)		
30	Stress	4'-0"	4'-0"	4'-6"	65	Stress	2'-9"	2'-9"	3'-1"	
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	3'-10"	5'-2"	4'-9"	
35	Stress	3'-9"	3'-9"	4'-2"	70	Stress	2'-7"	2'-7"	2'-11"	
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-9"	5'-0"	4'-7"	
40	Stress	3'-6"	3'-6"	3'-11"	75	Stress	2'-6"	2'-6"	2'-10"	
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-8"	4'-11"	4'-6"	
45	Stress	3'-3"	3'-3"	3'-8"	80	Stress	2'-5"	2'-5"	2'-9"	
	Deflection	4'-4"	5'-10"	5'-4"		Deflection	3'-7"	4'-10"	4'-5"	
50	Stress	3'-1"	3'-1"	3'-6"	85	Stress	2'-5"	2'-5"	2'-8"	
	Deflection	4'-2"	5'-7"	5'-2"		Deflection	3'-6"	4'-9"	4'-4"	
55	Stress	3'-0"	3'-0"	3'-4"	90	Stress	2'-4"	2'-4"	2'-7"	
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-5"	4'-7"	4'-3"	
60	Stress	2'-10"	2'-10"	3'-2"	95	Stress	2'-3"	2'-3"	2'-6"	
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-4"	4'-6"	4'-2"	

**MX-11**  
**Aluminum Perforated**

0.050 in

Ix: 0.0957 in<sup>4</sup>/ft  
Sx: 0.1004 in<sup>3</sup>/ft  
Perforation: 40%

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

**MX-11**  
**Aluminum Perforated**

0.050 in

Ix: 0.0633 in<sup>4</sup>/ft  
Sx: 0.0754 in<sup>3</sup>/ft  
Perforation: 51%

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

# Load / Span Data

MX-13 Aluminum Perforated				0.032 in				Ix: 0.2211 in <sup>4</sup> /ft	Sx: 0.3005 in <sup>3</sup> /ft	Perforation: 10%
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	
20	Stress	7'-9"	7'-9"	8'-8"	55	Stress	4'-8"	4'-8"	5'-3"	
	Deflection	6'-11"	9'-4"	8'-7"		Deflection	4'-11"	6'-8"	6'-1"	
25	Stress	6'-11"	6'-11"	7'-9"	60	Stress	4'-6"	4'-6"	5'-0"	
	Deflection	6'-5"	8'-8"	7'-11"		Deflection	4'-9"	6'-5"	5'-11"	
30	Stress	6'-4"	6'-4"	7'-1"	65	Stress	4'-4"	4'-4"	4'-10"	
	Deflection	6'-0"	8'-2"	7'-6"		Deflection	4'-8"	6'-3"	5'-9"	
35	Stress	5'-10"	5'-10"	6'-7"	70	Stress	4'-2"	4'-2"	4'-8"	
	Deflection	5'-9"	7'-9"	7'-1"		Deflection	4'-6"	6'-2"	5'-8"	
40	Stress	5'-6"	5'-6"	6'-2"	75	Stress	4'-0"	4'-0"	4'-6"	
	Deflection	5'-6"	7'-5"	6'-9"		Deflection	4'-5"	6'-0"	5'-6"	
45	Stress	5'-2"	5'-2"	5'-9"	80	Stress	3'-11"	3'-11"	4'-4"	
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-4"	5'-10"	5'-5"	
50	Stress	4'-11"	4'-11"	5'-6"	85	Stress	3'-9"	3'-9"	4'-2"	
	Deflection	5'-1"	6'-10"	6'-4"		Deflection	4'-3"	5'-9"	5'-3"	

MX-13 Aluminum Perforated				0.032 in				Ix: 0.1671 in <sup>4</sup> /ft	Sx: 0.2243 in <sup>3</sup> /ft	Perforation: 23%
o		)	u	o		)	u			
		o	o			o	o			
20	Stress	6'-8"	6'-8"	7'-6"	55	Stress	4'-0"	4'-0"	4'-6"	
	Deflection	6'-3"	8'-6"	7'-9"		Deflection	4'-6"	6'-1"	5'-7"	
25	Stress	6'-0"	6'-0"	6'-8"	60	Stress	3'-10"	3'-10"	4'-4"	
	Deflection	5'-10"	7'-10"	7'-3"		Deflection	4'-4"	5'-11"	5'-5"	
30	Stress	5'-6"	5'-6"	6'-1"	65	Stress	3'-9"	3'-9"	4'-2"	
	Deflection	5'-6"	7'-5"	6'-10"		Deflection	4'-3"	5'-9"	5'-3"	
35	Stress	5'-1"	5'-1"	5'-8"	70	Stress	3'-7"	3'-7"	4'-0"	
	Deflection	5'-3"	7'-0"	6'-6"		Deflection	4'-2"	5'-7"	5'-2"	
40	Stress	4'-9"	4'-9"	5'-4"	75	Stress	3'-5"	3'-5"	3'-10"	
	Deflection	5'-0"	6'-9"	6'-2"		Deflection	4'-0"	5'-5"	5'-0"	
45	Stress	4'-6"	4'-6"	5'-0"	80	Stress	3'-4"	3'-4"	3'-9"	
	Deflection	4'-9"	6'-6"	5'-11"		Deflection	3'-11"	5'-4"	4'-11"	
50	Stress	4'-3"	4'-3"	4'-9"	85	Stress	3'-3"	3'-3"	3'-8"	
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-11"	5'-3"	4'-10"	

**MX-13**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.1377 in<sup>4</sup>/ft  
**Sx:** 0.192 in<sup>3</sup>/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	6'-2"	6'-2"	6'-11"	55	Stress	3'-9"	3'-9"	4'-2"
	Deflection	5'-11"	7'-11"	7'-4"		Deflection	4'-2"	5'-8"	5'-3"
25	Stress	5'-7"	5'-7"	6'-2"	60	Stress	3'-7"	3'-7"	4'-0"
	Deflection	5'-6"	7'-5"	6'-9"		Deflection	4'-1"	5'-6"	5'-1"
30	Stress	5'-1"	5'-1"	5'-8"	65	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-2"	6'-11"	6'-5"		Deflection	4'-0"	5'-4"	4'-11"
35	Stress	4'-8"	4'-8"	5'-3"	70	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	3'-11"	5'-3"	4'-10"
40	Stress	4'-5"	4'-5"	4'-11"	75	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-9"	5'-1"	4'-8"
45	Stress	4'-2"	4'-2"	4'-7"	80	Stress	3'-1"	3'-1"	3'-6"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-8"	5'-0"	4'-7"
50	Stress	3'-11"	3'-11"	4'-5"	85	Stress	3'-0"	3'-0"	3'-4"
	Deflection	4'-4"	5'-10"	5'-5"		Deflection	3'-8"	4'-11"	4'-6"

**MX-13**  
**Aluminum Perforated**

0.032 in

**Ix:** 0.1247 in<sup>4</sup>/ft  
**Sx:** 0.1794 in<sup>3</sup>/ft  
**Perforation:** 33%

o		)	u	o		)	u
o		o	o	o		o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

# Load / Span Data

MX-13 Aluminum Perforated				0.032 in				Ix: 0.0979 in <sup>4</sup> /ft	Sx: 0.1494 in <sup>3</sup> /ft	Perforation: 40%
Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	Load psf		Single Span (ft)	Double Span (ft)	Triple Span (ft)	
20	Stress	5'-6"	5'-6"	6'-1"	55	Stress	3'-4"	3'-4"	3'-8"	
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	3'-9"	5'-1"	4'-8"	
25	Stress	4'-11"	4'-11"	5'-6"	60	Stress	3'-2"	3'-2"	3'-6"	
	Deflection	4'-11"	6'-7"	6'-1"		Deflection	3'-8"	4'-11"	4'-6"	
30	Stress	4'-6"	4'-6"	5'-0"	65	Stress	3'-0"	3'-0"	3'-5"	
	Deflection	4'-7"	6'-2"	5'-8"		Deflection	3'-7"	4'-9"	4'-5"	
35	Stress	4'-2"	4'-2"	4'-7"	70	Stress	2'-11"	2'-11"	3'-3"	
	Deflection	4'-4"	5'-11"	5'-5"		Deflection	3'-6"	4'-8"	4'-3"	
40	Stress	3'-10"	3'-10"	4'-4"	75	Stress	2'-10"	2'-10"	3'-2"	
	Deflection	4'-2"	5'-8"	5'-2"		Deflection	3'-5"	4'-7"	4'-2"	
45	Stress	3'-8"	3'-8"	4'-1"	80	Stress	2'-9"	2'-9"	3'-1"	
	Deflection	4'-0"	5'-5"	5'-0"		Deflection	3'-4"	4'-6"	4'-1"	
50	Stress	3'-5"	3'-5"	3'-10"	85	Stress	2'-8"	2'-8"	3'-0"	
	Deflection	3'-10"	5'-3"	4'-10"		Deflection	3'-3"	4'-5"	4'-0"	

MX-13 Aluminum Perforated				0.032 in				Ix: 0.0647 in <sup>4</sup> /ft	Sx: 0.1121 in <sup>3</sup> /ft	Perforation: 51%
O	o	)	u	O	o	)	u			
	o	o	o		o	o	o			
	o	)			o	)				
	o	)			o	)				
	o	)			o	)				
	o	)			o	)				
	o	)			o	)				
	o	)			o	)				
	o	)			o	)				

\*See page 3 for standard notes\*

**MX-13**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.2767 in<sup>4</sup>/ft  
**Sx:** 0.3305 in<sup>3</sup>/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	8'-2"	8'-2"	9'-1"	55	Stress	4'-11"	4'-11"	5'-6"
	Deflection	7'-5"	10'-0"	9'-3"		Deflection	5'-4"	7'-2"	6'-7"
25	Stress	7'-3"	7'-3"	8'-2"	60	Stress	4'-8"	4'-8"	5'-3"
	Deflection	6'-11"	9'-4"	8'-7"		Deflection	5'-2"	6'-11"	6'-5"
30	Stress	6'-8"	6'-8"	7'-5"	65	Stress	4'-6"	4'-6"	5'-1"
	Deflection	6'-6"	8'-9"	8'-1"		Deflection	5'-0"	6'-9"	6'-3"
35	Stress	6'-2"	6'-2"	6'-10"	70	Stress	4'-4"	4'-4"	4'-10"
	Deflection	6'-2"	8'-4"	7'-8"		Deflection	4'-11"	6'-7"	6'-1"
40	Stress	5'-9"	5'-9"	6'-5"	75	Stress	4'-2"	4'-2"	4'-8"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-9"	6'-5"	5'-11"
45	Stress	5'-5"	5'-5"	6'-1"	80	Stress	4'-1"	4'-1"	4'-7"
	Deflection	5'-8"	7'-8"	7'-0"		Deflection	4'-8"	6'-4"	5'-10"
50	Stress	5'-2"	5'-2"	5'-9"	85	Stress	3'-11"	3'-11"	4'-5"
	Deflection	5'-6"	7'-5"	6'-9"		Deflection	4'-7"	6'-2"	5'-8"

**MX-13**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.2091 in<sup>4</sup>/ft  
**Sx:** 0.2466 in<sup>3</sup>/ft  
**Perforation:** 23%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

\*See page 3 for standard notes\*

# Load / Span Data

## MX-13

### Aluminum Perforated

0.040 in

Ix: 0.1724 in<sup>4</sup>/ft  
 Sx: 0.2111 in<sup>3</sup>/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	6'-6"	6'-6"	7'-3"	55	Stress	3'-11"	3'-11"	4'-5"
	Deflection	6'-4"	8'-7"	7'-10"		Deflection	4'-6"	6'-1"	5'-7"
25	Stress	5'-10"	5'-10"	6'-6"	60	Stress	3'-9"	3'-9"	4'-2"
	Deflection	5'-11"	7'-11"	7'-4"		Deflection	4'-5"	5'-11"	5'-5"
30	Stress	5'-4"	5'-4"	5'-11"	65	Stress	3'-7"	3'-7"	4'-0"
	Deflection	5'-7"	7'-6"	6'-10"		Deflection	4'-3"	5'-9"	5'-4"
35	Stress	4'-11"	4'-11"	5'-6"	70	Stress	3'-6"	3'-6"	3'-11"
	Deflection	5'-3"	7'-1"	6'-6"		Deflection	4'-2"	5'-8"	5'-2"
40	Stress	4'-7"	4'-7"	5'-2"	75	Stress	3'-4"	3'-4"	3'-9"
	Deflection	5'-0"	6'-10"	6'-3"		Deflection	4'-1"	5'-6"	5'-1"
45	Stress	4'-4"	4'-4"	4'-10"	80	Stress	3'-3"	3'-3"	3'-8"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	4'-0"	5'-5"	4'-11"
50	Stress	4'-1"	4'-1"	4'-7"	85	Stress	3'-2"	3'-2"	3'-6"
	Deflection	4'-8"	6'-4"	5'-10"		Deflection	3'-11"	5'-3"	4'-10"

## MX-13

### Aluminum Perforated

0.040 in

Ix: 0.1561 in<sup>4</sup>/ft  
 Sx: 0.1973 in<sup>3</sup>/ft  
 Perforation: 33%

0	o	)	u	0	o	)	u
	o	o	o		o	o	o
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		
o	)			o	)		

**MX-13**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.1225 in<sup>4</sup>/ft  
**Sx:** 0.1642 in<sup>3</sup>/ft  
**Perforation:** 40%

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

**MX-13**  
**Aluminum Perforated**

0.040 in

**Ix:** 0.081 in<sup>4</sup>/ft  
**Sx:** 0.1233 in<sup>3</sup>/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)
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0
0	Stress	0	0	0	0	Stress	0	0	0
	Deflection	0	0	0		Deflection	0	0	0

\*See page 3 for standard notes\*

# Load / Span Data

**MX-13**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.3464 in<sup>4</sup>/ft  
**Sx:** 0.4113 in<sup>3</sup>/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	9'-1"	9'-1"	10'-2"	55	Stress	5'-6"	5'-6"	6'-1"
	Deflection	8'-0"	10'-10"	9'-11"		Deflection	5'-9"	7'-9"	7'-1"
25	Stress	8'-1"	8'-1"	9'-1"	60	Stress	5'-3"	5'-3"	5'-10"
	Deflection	7'-5"	10'-0"	9'-3"		Deflection	5'-7"	7'-6"	6'-11"
30	Stress	7'-5"	7'-5"	8'-3"	65	Stress	5'-0"	5'-0"	5'-7"
	Deflection	7'-0"	9'-5"	8'-8"		Deflection	5'-5"	7'-4"	6'-8"
35	Stress	6'-10"	6'-10"	7'-8"	70	Stress	4'-10"	4'-10"	5'-5"
	Deflection	6'-8"	9'-0"	8'-3"		Deflection	5'-3"	7'-1"	6'-6"
40	Stress	6'-5"	6'-5"	7'-2"	75	Stress	4'-8"	4'-8"	5'-3"
	Deflection	6'-4"	8'-7"	7'-11"		Deflection	5'-2"	6'-11"	6'-5"
45	Stress	6'-1"	6'-1"	6'-9"	80	Stress	4'-6"	4'-6"	5'-1"
	Deflection	6'-1"	8'-3"	7'-7"		Deflection	5'-1"	6'-10"	6'-3"
50	Stress	5'-9"	5'-9"	6'-5"	85	Stress	4'-5"	4'-5"	4'-11"
	Deflection	5'-11"	8'-0"	7'-4"		Deflection	4'-11"	6'-8"	6'-2"

**MX-13**  
**Aluminum Perforated**

0.050 in

**Ix:** 0.2617 in<sup>4</sup>/ft  
**Sx:** 0.3069 in<sup>3</sup>/ft  
**Perforation:** 23%

o	o	)	o	o	o	)	o	o
o	)	o	)	o	)	o	)	o
o	)	o	)	o	)	o	)	o
o	)	o	)	o	)	o	)	o
o	)	o	)	o	)	o	)	o
o	)	o	)	o	)	o	)	o
o	)	o	)	o	)	o	)	o

**MX-13**  
**Aluminum Perforated**

**Ix:** 0.2157 in<sup>4</sup>/ft  
**Sx:** 0.2627 in<sup>3</sup>/ft  
**Perforation:** 30%

0.050 in

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

**MX-13**  
**Aluminum Perforated**

**Ix:** 0.1954 in<sup>4</sup>/ft  
**Sx:** 0.2455 in<sup>3</sup>/ft  
**Perforation:** 33%

0.050 in

o	o	)	u	o	o	)	u
o	o	o	o	o	o	o	o
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)
o	)	o	)	o	)	o	)

\*See page 3 for standard notes\*

# Load / Span Data

## MX-13

### Aluminum Perforated

0.050 in

Ix: 0.1534 in<sup>4</sup>/ft  
Sx: 0.2044 in<sup>3</sup>/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	6'-5"	6'-5"	7'-2"	55	Stress	3'-10"	3'-10"	4'-4"
	Deflection	6'-1"	8'-3"	7'-7"		Deflection	4'-4"	5'-11"	5'-5"
25	Stress	5'-9"	5'-9"	6'-5"	60	Stress	3'-8"	3'-8"	4'-2"
	Deflection	5'-8"	7'-8"	7'-0"		Deflection	4'-3"	5'-9"	5'-3"
30	Stress	5'-3"	5'-3"	5'-10"	65	Stress	3'-7"	3'-7"	4'-0"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	4'-1"	5'-7"	5'-1"
35	Stress	4'-10"	4'-10"	5'-5"	70	Stress	3'-5"	3'-5"	3'-10"
	Deflection	5'-1"	6'-10"	6'-3"		Deflection	4'-0"	5'-5"	5'-0"
40	Stress	4'-6"	4'-6"	5'-1"	75	Stress	3'-4"	3'-4"	3'-8"
	Deflection	4'-10"	6'-6"	6'-0"		Deflection	3'-11"	5'-4"	4'-10"
45	Stress	4'-3"	4'-3"	4'-9"	80	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-10"	5'-2"	4'-9"
50	Stress	4'-1"	4'-1"	4'-6"	85	Stress	3'-1"	3'-1"	3'-6"
	Deflection	4'-6"	6'-1"	5'-7"		Deflection	3'-9"	5'-1"	4'-8"

## MX-13

### Aluminum Perforated

0.050 in

Ix: 0.1014 in<sup>4</sup>/ft  
Sx: 0.1535 in<sup>3</sup>/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	5'-6"	5'-6"	6'-2"	55	Stress	3'-4"	3'-4"	3'-9"
	Deflection	5'-4"	7'-2"	6'-7"		Deflection	3'-10"	5'-1"	4'-8"
25	Stress	4'-11"	4'-11"	5'-6"	60	Stress	3'-2"	3'-2"	3'-7"
	Deflection	4'-11"	6'-8"	6'-1"		Deflection	3'-8"	5'-0"	4'-7"
30	Stress	4'-6"	4'-6"	5'-1"	65	Stress	3'-1"	3'-1"	3'-5"
	Deflection	4'-8"	6'-3"	5'-9"		Deflection	3'-7"	4'-10"	4'-5"
35	Stress	4'-2"	4'-2"	4'-8"	70	Stress	2'-12"	2'-12"	3'-4"
	Deflection	4'-5"	5'-11"	5'-6"		Deflection	3'-6"	4'-9"	4'-4"
40	Stress	3'-11"	3'-11"	4'-5"	75	Stress	2'-10"	2'-10"	3'-2"
	Deflection	4'-3"	5'-8"	5'-3"		Deflection	3'-5"	4'-7"	4'-3"
45	Stress	3'-8"	3'-8"	4'-2"	80	Stress	2'-9"	2'-9"	3'-1"
	Deflection	4'-1"	5'-6"	5'-0"		Deflection	3'-4"	4'-6"	4'-2"
50	Stress	3'-6"	3'-6"	3'-11"	85	Stress	2'-8"	2'-8"	3'-0"
	Deflection	3'-11"	5'-3"	4'-10"		Deflection	3'-3"	4'-5"	4'-1"

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