



Monarch Rib Panel

Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.397	0.075	0.184	0.0046	0.0132	0.516	0.0064	0.0141	0.581
26	60 *	0.84	0.546	0.135	0.341	0.0067	0.0199	0.803	0.0097	0.0216	0.918

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

NOTES:

1. All calculations for the properties of Monarch Rib panels are calculated in accordance with the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".

1. Va = allowable transverse shear per foot of panel width.
2. Pa,end = allowable web crippling load at the panel end support per foot of panel width.
3. Pa,int = allowable web crippling load at interior panel supports per foot of panel width.
4. Ixe = effective moment of inertia per foot of panel width at nominal moment capacity.
5. Sxe = effective section modulus per foot of panel width at nominal moment capacity.
6. Maxo = allowable bending moment based on initiation of yielding.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.