Perma-Clad Panel

Panel Section Properties											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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	0.398	0.133	0.184	0.0037	0.0120	0.490	0.0061	0.0124	0.543
26	60 *	0.84	0.548	0.239	0.341	0.0055	0.0168	0.702	0.0091	0.0187	0.843

* 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 Perma-Clad 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.