



16" Estate Series Panel

SECTION PROPERTIES								
PANEL	Fy	WEIGHT	NEGATIVE BENDING			POSITIVE BENDING		
			Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
29	50	0.75	0.0059	0.0123	0.3668	0.0131	0.0184	0.5513
26	50	0.95	0.0833	0.0182	0.5444	0.0175	0.0246	0.7357

NOTES:

1. All calculations for the properties of Estate Series panels are calculated in accordance with the 1996 edition of the COLD-FORMED STEEL Design Manual, w/ 1999 supplement - published by the American Iron and Steel Institute (AISI).
2. Ixe is for deflection determination.
3. Sxe is for Bending.
4. Maxo is allowable bending moment.
5. All values are for the one foot of panel width.

16 " Estate Series

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		1.0	1.5	2.0	2.5	3.0	3.5	4.0
SINGLE	LIVE LOAD/DEFLECTION	194.5	129.7	91.9	58.8	40.8	26.7	17.9
2-SPAN	LIVE LOAD/DEFLECTION	182.1	108.7	61.1	39.1	27.2	20.0	15.3
3-SPAN	LIVE LOAD/DEFLECTION	207.0	135.9	76.4	48.9	34.0	25.0	19.1
4-SPAN	LIVE LOAD/DEFLECTION	199.2	126.8	71.4	45.7	31.7	23.3	17.8

26 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		1.0	1.5	2.0	2.5	3.0	3.5	4.0
SINGLE	LIVE LOAD/DEFLECTION	294.1	196.1	122.6	78.5	54.5	35.6	23.9
2-SPAN	LIVE LOAD/DEFLECTION	293.5	161.3	90.7	58.1	40.3	29.6	22.7
3-SPAN	LIVE LOAD/DEFLECTION	333.5	201.6	113.4	72.6	50.4	37.0	28.4
4-SPAN	LIVE LOAD/DEFLECTION	320.9	188.3	105.9	67.8	47.1	34.6	26.5

NOTES:

1. Allowable loads are based on uniform span lengths.
2. LIVE LOAD is limited by bending, shear, combined shear & bending, or web crippling.
3. DEFLECTION is limited by a maximum deflection ratio of L/180 of span.
4. Panel weight has not been deducted from allowable loads.