



## FC - 36 : NORMAL OCCUPANCY

### SECTION PROPERTIES (PER FOOT OF WIDTH)

IMPERIAL	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus		Deflection Moment of Inertia (in <sup>4</sup> )	Specified Web Crippling Data			
				Midspan	Support		P <sub>e1</sub> End (lb)	P <sub>e2</sub> End (lb)	P <sub>i1</sub> Interior (lb)	P <sub>i2</sub> Interior (lb)
				(in <sup>3</sup> )	(in <sup>3</sup> )					
0.0120	0.61	80	0.0108	0.0083	0.0071	29.5	7.37	57.2	9.73	
0.0135	0.68	80	0.0121	0.0095	0.0079	38.1	9.52	73.8	12.6	
0.0150	0.75	80	0.0134	0.0107	0.0088	47.8	12.0	92.5	15.7	
0.0180	0.89	80	0.0160	0.0132	0.0106	70.8	17.7	137	23.2	

### MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (in.)		1-SPAN				2-SPAN				3-SPAN			
		BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)			
		0.0120	0.0135	0.0150	0.0180	0.0120	0.0135	0.0150	0.0180	0.0120	0.0135	0.0150	0.0180
18	S	114	128	142	169	88	100	113	139	110	126	142	174
	D	203	228	253	303	487	547	607	727	383	431	478	573
24	S	64	72	80	95	49	56	64	78	62	71	80	98
	D	86	96	107	128	205	231	256	307	162	182	202	242
30	S	41	46	51	61	32	36	41	50	40	45	51	63
	D	44	49	55	65	105	118	131	157	83	93	103	124
36	S	28	32	35	42	22	25	28	35	27	31	35	44
	D	25	28	32	38	61	68	76	91	48	54	60	72
42	S	21	23	26	31	16	18	21	26	20	23	26	32
	D	16	18	20	24	38	43	48	57	30	34	38	45
48	S	16	18	20	24	12	14	16	20	15	18	20	24
	D	11	12	13	16	26	29	32	38	20	23	25	30
54	S				19		11	13	15	12	14	16	19
	D				11		20	22	27	14	16	18	21
60	S							10	13		11	13	16
	D							16	20		12	13	15
66	S								10				13
	D								15				12
72	S												
	D												

#### Notes:

- 1 Based on ASTM A 653 structural grade steel.
  - 2 Values in row "S" are based on strength.
  - 3 Values in row "D" are based on deflection of 1/180th span.
  - 4 Web crippling not included in strength calculations. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-07