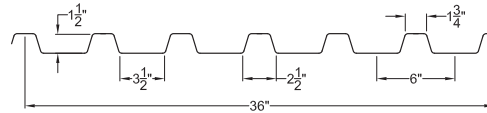


## 1.5C CONFORM DECK



### SECTION PROPERTIES

Deck Gauge	Design Thickness (in)	Deck Weight (psf)	Section Properties				V <sub>a</sub> (lbs/ft)	F <sub>y</sub> (ksi)
			I <sub>p</sub> (in <sup>4</sup> /ft)	I <sub>n</sub> (in <sup>4</sup> /ft)	S <sub>p</sub> (in <sup>3</sup> /ft)	S <sub>n</sub> (in <sup>3</sup> /ft)		
24	0.0239	1.44	0.136	0.108	0.132	0.120	2508	60
22	0.0295	1.67	0.173	0.139	0.177	0.167	2626	50
20	0.0358	2.03	0.216	0.182	0.226	0.218	3171	50
18	0.0474	2.69	0.286	0.265	0.314	0.298	4160	50

### MAXIMUM CONSTRUCTION CLEAR SPANS (S.D.I. CRITERIA) (ft-in.)

Total Slab Depth	Deck	Weight (psf)	NW Concrete N=9 145 PCF			Weight (psf)	LW Concrete N=14 110 PCF		
			1 SPAN	2 SPAN	3 SPAN		1 SPAN	2 SPAN	3 SPAN
3.5 (t=2.00)	1.5C24	37	5'-10	6'-10	6'-11	28	6'-4	7'-6	7'-7
	1.5C22	37	6'-4	7'-4	7'-6	29	6'-10	8'-0	8'-2
	1.5C20	38	7'-5	8'-5	8'-8	29	8'-1	9'-2	9'-6
	1.5C18	38	8'-5	9'-9	10'-1	30	9'-2	10'-8	11'-0
4 (t=2.50)	1.5C24	43	5'-7	6'-6	6'-8	33	6'-1	7'-2	7'-3
	1.5C22	43	6'-0	7'-0	7'-2	33	6'-7	7'-8	7'-10
	1.5C20	44	7'-1	8'-0	8'-3	34	7'-9	8'-9	9'-1
	1.5C18	44	8'-0	9'-4	9'-8	34	8'-9	10'-2	10'-6
4.5 (t=3.00)	1.5C24	49	5'-4	6'-3	6'-4	38	5'-10	6'-10	7'-0
	1.5C22	49	5'-9	6'-8	6'-10	38	6'-4	7'-4	7'-6
	1.5C20	50	6'-9	7'-8	7'-11	38	7'-5	8'-5	8'-8
	1.5C18	50	7'-9	8'-11	9'-3	39	8'-5	9'-10	10'-2
5 (t=3.50)	1.5C24	55	5'-2	6'-0	6'-2	42	5'-8	6'-7	6'-9
	1.5C22	55	5'-7	6'-5	6'-7	42	6'-1	7'-1	7'-3
	1.5C20	56	6'-6	7'-4	7'-7	43	7'-2	8'-1	8'-5
	1.5C18	56	7'-5	8'-7	8'-10	43	8'-2	9'-5	9'-9
5.5 (t=4.00)	1.5C24	61	5'-0	5'-9	5'-11	47	5'-6	6'-5	6'-6
	1.5C22	61	5'-5	6'-2	6'-4	47	5'-11	6'-10	7'-0
	1.5C20	62	6'-3	7'-1	7'-4	47	6'-11	7'-10	8'-1
	1.5C18	62	7'-2	8'-3	8'-6	48	7'-11	9'-2	9'-5
6 (t=4.50)	1.5C24	67	4'-10	5'-7	5'-9	51	5'-4	6'-2	6'-4
	1.5C22	68	5'-3	6'-0	6'-2	52	5'-9	6'-8	6'-10
	1.5C20	68	6'-1	6'-10	7'-1	52	6'-9	7'-7	7'-10
	1.5C18	69	7'-0	8'-0	8'-3	53	7'-8	8'-10	9'-2
6.5 (t=5.00)	1.5C24	73	4'-9	5'-5	5'-7	56	5'-2	6'-0	6'-2
	1.5C22	74	5'-1	5'-9	6'-0	56	5'-7	6'-5	6'-7
	1.5C20	74	5'-11	6'-7	6'-10	57	6'-6	7'-4	7'-7
	1.5C18	75	6'-10	7'-9	8'-0	57	7'-5	8'-7	8'-11

**Notes:**

1) Maximum unshored spans do not consider web crippling. Required bearing should be determined based on allowable reactions on page 43 or with the Vulcraft Unshored Span Calculator available at [www.vulcraft.com/designtools](http://www.vulcraft.com/designtools). The following conditions are required to meet the maximum unshored spans shown:

- Minimum exterior bearing length of 1.5" for 24 to 16 gage.
- Minimum interior bearing length of 2" for 24 to 16 gage.