



STEEL DECK INSTITUTE

FLOOR DECK DESIGN first edition

APPENDIX A

APPENDIX A

TABLES FOR 33 KSI DECK

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LIST OF TABLES

The tables in Appendix A are for composite deck and composite deck-slabs with the yield strength of the deck equal to 33 ksi. Some SDI members manufacture deck in this yield strength. The availability of 33 ksi deck should be confirmed with specific manufacturers.

Tables found in Section 5 of the Floor Deck Design Manual that are not included in this Appendix (Tables 3, 7, 9, 10, 11, 12, and 13) are applicable to 33 ksi deck.

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Table A-1A – Composite Bare Deck Section Properties and Flexural Resistance ($F_y = 33$ ksi)

							ASD ($\Omega = 1.67$)		LRFD ($\Phi = 0.90$)	
Profile	Gage Number	Design Thickness (inches)	I_p (inch ⁴)	I_n (inch ⁴)	S_p (inch ³)	S_n (inch ³)	M_p/Ω inch-lbs	M_n/Ω inch-lbs	ΦM_p inch-lbs	ΦM_n inch-lbs
1.5x6	22	0.0295	0.1473	0.1732	0.1713	0.1804	3385	3565	5088	5358
1.5x6	20	0.0358	0.1910	0.2104	0.2122	0.2247	4193	4440	6302	6674
1.5x6	18	0.0474	0.2741	0.2791	0.2883	0.2963	5697	5855	8563	8800
1.5x6	16	0.0598	0.3528	0.3528	0.3695	0.3722	7301	7355	10974	11054
1.5x6 INV	22	0.0295	0.1732	0.1473	0.1804	0.1713	3565	3385	5358	5088
1.5x6 INV	20	0.0358	0.2104	0.1910	0.2247	0.2122	4440	4193	6674	6302
1.5x6 INV	18	0.0474	0.2791	0.2741	0.2963	0.2883	5855	5697	8800	8563
1.5x6 INV	16	0.0598	0.3528	0.3528	0.3722	0.3695	7355	7301	11054	10974
2x12	22	0.0295	0.3033	0.2947	0.2565	0.2608	5069	5154	7618	7746
2x12	20	0.0358	0.3772	0.3721	0.3384	0.3431	6687	6780	10050	10190
2x12	18	0.0474	0.5000	0.4949	0.4763	0.4677	9412	9242	14146	13891
2x12	16	0.0598	0.6315	0.6248	0.6982	0.5872	13797	11603	20737	17440
3x12	22	0.0295	0.7451	0.7545	0.4160	0.4544	8220	8979	12355	13496
3x12	20	0.0358	0.9214	0.9393	0.5447	0.5887	10764	11633	16178	17484
3x12	18	0.0474	1.2213	1.2661	0.7580	0.7863	14978	15538	22513	23353
3x12	16	0.0598	1.5426	1.6006	0.9536	0.9915	18844	19593	28322	29448

Table A-1A Notes:

1. Strength and section properties are calculated assuming $F_y = 33$ ksi. Individual deck manufacturers may supply deck using other steel yield strengths.
2. All section properties and ASD and LRFD flexural strengths are calculated in accordance with ANSI/SDI C-2011, Section 2.4.A.1, and are per foot of width.
3. p = Property in positive bending; n = Property in negative bending.

Table A-2A – Construction Span Table – 1.5x6 Composite Deck ($F_y = 33$ ksi) - 20 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 34 PSF	1.5x6x22 ga	4'-10	5'-9	5'-10
	1.5x6x20 ga	5'-8	6'-9	6'-10
	1.5x6x18 ga	7'-0	8'-3	8'-4
	1.5x6x16 ga	8'-3	9'-5	9'-9
4.00 (t=2.50) 40 PSF	1.5x6x22 ga	4'-8	5'-6	5'-7
	1.5x6x20 ga	5'-5	6'-5	6'-5
	1.5x6x18 ga	6'-8	7'-10	7'-11
	1.5x6x16 ga	7'-10	8'-11	9'-3
4.50 (t=3.00) 46 PSF	1.5x6x22 ga	4'-6	5'-3	5'-4
	1.5x6x20 ga	5'-2	6'-1	6'-2
	1.5x6x18 ga	6'-4	7'-6	7'-7
	1.5x6x16 ga	7'-6	8'-6	8'-10
5.00 (t=3.50) 52 PSF	1.5x6x22 ga	4'-4	5'-1	5'-1
	1.5x6x20 ga	5'-0	5'-10	5'-11
	1.5x6x18 ga	6'-1	7'-2	7'-3
	1.5x6x16 ga	7'-2	8'-2	8'-5
5.50 (t=4.00) 58 PSF	1.5x6x22 ga	4'-2	4'-11	4'-11
	1.5x6x20 ga	4'-10	5'-8	5'-8
	1.5x6x18 ga	5'-11	6'-10	6'-11
	1.5x6x16 ga	6'-10	7'-10	8'-1
6.00 (t=4.50) 64 PSF	1.5x6x22 ga	4'-0	4'-9	4'-9
	1.5x6x20 ga	4'-8	5'-5	5'-6
	1.5x6x18 ga	5'-8	6'-8	6'-8
	1.5x6x16 ga	6'-8	7'-6	7'-9

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 28 PSF	1.5x6x22 ga	5'-2	6'-1	6'-2
	1.5x6x20 ga	6'-0	7'-2	7'-3
	1.5x6x18 ga	7'-6	8'-10	8'-11
	1.5x6x16 ga	8'-10	10'-1	10'-5
4.00 (t=2.50) 33 PSF	1.5x6x22 ga	4'-11	5'-10	5'-11
	1.5x6x20 ga	5'-9	6'-10	6'-11
	1.5x6x18 ga	7'-2	8'-5	8'-6
	1.5x6x16 ga	8'-5	9'-7	9'-11
4.50 (t=3.00) 37 PSF	1.5x6x22 ga	4'-9	5'-7	5'-8
	1.5x6x20 ga	5'-6	6'-6	6'-7
	1.5x6x18 ga	6'-10	8'-0	8'-1
	1.5x6x16 ga	8'-0	9'-2	9'-6
4.75 (t=3.25) 40 PSF	1.5x6x22 ga	4'-8	5'-6	5'-7
	1.5x6x20 ga	5'-5	6'-5	6'-6
	1.5x6x18 ga	6'-8	7'-10	7'-11
	1.5x6x16 ga	7'-10	9'-0	9'-3
5.00 (t=3.50) 42 PSF	1.5x6x22 ga	4'-7	5'-5	5'-6
	1.5x6x20 ga	5'-4	6'-3	6'-4
	1.5x6x18 ga	6'-7	7'-8	7'-9
	1.5x6x16 ga	7'-9	8'-10	9'-1
5.75 (t=4.25) 49 PSF	1.5x6x22 ga	4'-4	5'-2	5'-3
	1.5x6x20 ga	5'-1	6'-0	6'-0
	1.5x6x18 ga	6'-3	7'-4	7'-4
	1.5x6x16 ga	7'-4	8'-4	8'-7

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Table A-2B – Construction Span Table – 1.5x6 Inverted Composite Deck ($F_y = 33$ ksi) - 20 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 39 PSF	1.5x6INVx22 ga	4'-10	5'-9	5'-10
	1.5x6INVx20 ga	5'-8	6'-8	6'-9
	1.5x6INVx18 ga	6'-10	8'-0	8'-1
	1.5x6INVx16 ga	7'-11	9'-0	9'-3
4.00 (t=2.50) 46 PSF	1.5x6INVx22 ga	4'-8	5'-6	5'-7
	1.5x6INVx20 ga	5'-5	6'-5	6'-5
	1.5x6INVx18 ga	6'-6	7'-7	7'-9
	1.5x6INVx16 ga	7'-7	8'-6	8'-10
4.50 (t=3.00) 52 PSF	1.5x6INVx22 ga	4'-6	5'-3	5'-4
	1.5x6INVx20 ga	5'-2	6'-1	6'-2
	1.5x6INVx18 ga	6'-3	7'-3	7'-5
	1.5x6INVx16 ga	7'-3	8'-2	8'-5
5.00 (t=3.50) 58 PSF	1.5x6INVx22 ga	4'-4	5'-1	5'-2
	1.5x6INVx20 ga	5'-0	5'-11	5'-11
	1.5x6INVx18 ga	6'-0	6'-11	7'-1
	1.5x6INVx16 ga	6'-11	7'-10	8'-1
5.50 (t=4.00) 64 PSF	1.5x6INVx22 ga	4'-2	4'-11	5'-0
	1.5x6INVx20 ga	4'-10	5'-8	5'-9
	1.5x6INVx18 ga	5'-10	6'-8	6'-10
	1.5x6INVx16 ga	6'-8	7'-7	7'-10
6.00 (t=4.50) 70 PSF	1.5x6INVx22 ga	4'-1	4'-9	4'-10
	1.5x6INVx20 ga	4'-8	5'-6	5'-7
	1.5x6INVx18 ga	5'-7	6'-5	6'-7
	1.5x6INVx16 ga	6'-6	7'-3	7'-6

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 32 PSF	1.5x6INVx22 ga	5'-2	6'-1	6'-2
	1.5x6INVx20 ga	6'-0	7'-2	7'-3
	1.5x6INVx18 ga	7'-4	8'-6	8'-8
	1.5x6INVx16 ga	8'-6	9'-7	9'-11
4.00 (t=2.50) 37 PSF	1.5x6INVx22 ga	4'-11	5'-10	5'-11
	1.5x6INVx20 ga	5'-10	6'-10	6'-11
	1.5x6INVx18 ga	7'-0	8'-2	8'-4
	1.5x6INVx16 ga	8'-1	9'-2	9'-6
4.50 (t=3.00) 42 PSF	1.5x6INVx22 ga	4'-9	5'-8	5'-9
	1.5x6INVx20 ga	5'-7	6'-7	6'-8
	1.5x6INVx18 ga	6'-9	7'-10	8'-0
	1.5x6INVx16 ga	7'-9	8'-10	9'-1
4.75 (t=3.25) 44 PSF	1.5x6INVx22 ga	4'-8	5'-7	5'-7
	1.5x6INVx20 ga	5'-6	6'-5	6'-6
	1.5x6INVx18 ga	6'-7	7'-8	7'-10
	1.5x6INVx16 ga	7'-8	8'-8	8'-11
5.00 (t=3.50) 46 PSF	1.5x6INVx22 ga	4'-8	5'-5	5'-6
	1.5x6INVx20 ga	5'-5	6'-4	6'-5
	1.5x6INVx18 ga	6'-6	7'-6	7'-8
	1.5x6INVx16 ga	7'-6	8'-6	8'-9
5.75 (t=4.25) 54 PSF	1.5x6INVx22 ga	4'-5	5'-2	5'-3
	1.5x6INVx20 ga	5'-2	6'-0	6'-1
	1.5x6INVx18 ga	6'-2	7'-2	7'-4
	1.5x6INVx16 ga	7'-1	8'-1	8'-4

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Table A-2C – Construction Span Table – 2x12 Composite Deck ($F_y = 33$ ksi) - 20 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
4.00 (t=2.00) 40 PSF	2x12x22 ga	5'-2	6'-4	6'-6
	2x12x20 ga	7'-6	8'-7	8'-11
	2x12x18 ga	9'-4	10'-1	10'-5
	2x12x16 ga	11'-2	11'-3	11'-7
4.50 (t=2.50) 46 PSF	2x12x22 ga	4'-6	5'-8	5'-7
	2x12x20 ga	7'-2	8'-2	8'-5
	2x12x18 ga	8'-11	9'-7	9'-10
	2x12x16 ga	10'-7	10'-8	11'-0
5.00 (t=3.00) 52 PSF	2x12x22 ga	3'-11	5'-3	4'-11
	2x12x20 ga	6'-10	7'-6	8'-1
	2x12x18 ga	8'-6	9'-1	9'-5
	2x12x16 ga	10'-2	10'-2	10'-7
5.50 (t=3.50) 58 PSF	2x12x22 ga	3'-6	4'-8	4'-5
	2x12x20 ga	6'-7	6'-11	7'-9
	2x12x18 ga	8'-2	8'-9	9'-0
	2x12x16 ga	9'-10	9'-9	10'-1
6.00 (t=4.00) 64 PSF	2x12x22 ga	3'-2	4'-3	3'-11
	2x12x20 ga	6'-4	6'-5	7'-4
	2x12x18 ga	7'-10	8'-5	8'-8
	2x12x16 ga	9'-6	9'-5	9'-9
6.50 (t=4.50) 70 PSF	2x12x22 ga	2'-10	3'-10	3'-7
	2x12x20 ga	6'-1	6'-0	6'-10
	2x12x18 ga	7'-7	8'-1	8'-4
	2x12x16 ga	9'-2	9'-1	9'-5

Minimum exterior bearing length required is 2.00 inches.
Minimum interior bearing length required is 4.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
4.00 (t=2.00) 32 PSF	2x12x22 ga	6'-6	7'-3	7'-11
	2x12x20 ga	8'-1	9'-3	9'-7
	2x12x18 ga	10'-1	10'-9	11'-2
	2x12x16 ga	11'-9	12'-0	12'-5
4.50 (t=2.50) 37 PSF	2x12x22 ga	5'-7	6'-7	7'-0
	2x12x20 ga	7'-8	8'-10	9'-1
	2x12x18 ga	9'-7	10'-3	10'-8
	2x12x16 ga	11'-4	11'-6	11'-10
5.00 (t=3.00) 42 PSF	2x12x22 ga	4'-11	6'-1	6'-2
	2x12x20 ga	7'-5	8'-5	8'-9
	2x12x18 ga	9'-2	9'-10	10'-2
	2x12x16 ga	10'-11	11'-0	11'-5
5.25 (t=3.25) 44 PSF	2x12x22 ga	4'-8	5'-10	5'-10
	2x12x20 ga	7'-3	8'-3	8'-7
	2x12x18 ga	9'-0	9'-8	10'-0
	2x12x16 ga	10'-9	10'-10	11'-2
5.50 (t=3.50) 47 PSF	2x12x22 ga	4'-5	5'-8	5'-6
	2x12x20 ga	7'-1	8'-1	8'-5
	2x12x18 ga	8'-10	9'-6	9'-10
	2x12x16 ga	10'-7	10'-7	11'-0
6.25 (t=4.25) 54 PSF	2x12x22 ga	3'-9	5'-1	4'-9
	2x12x20 ga	6'-9	7'-4	7'-11
	2x12x18 ga	8'-4	9'-0	9'-3
	2x12x16 ga	10'-1	10'-1	10'-5

Minimum exterior bearing length required is 2.00 inches.
Minimum interior bearing length required is 4.00 inches.

Table A-2D – Construction Span Table – 3x12 Composite Deck ($F_y = 33$ ksi) - 20 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
5.00 (t=2.00) 46 PSF	3x12x22 ga	4'-6	6'-0	5'-7
	3x12x20 ga	9'-9	9'-0	10'-3
	3x12x18 ga	11'-10	12'-5	12'-10
	3x12x16 ga	13'-5	13'-11	14'-5
5.50 (t=2.50) 52 PSF	3x12x22 ga	3'-11	5'-3	4'-11
	3x12x20 ga	9'-2	8'-3	9'-4
	3x12x18 ga	11'-4	11'-11	12'-4
	3x12x16 ga	12'-11	13'-4	13'-9
6.00 (t=3.00) 58 PSF	3x12x22 ga	3'-6	4'-8	4'-5
	3x12x20 ga	8'-2	7'-7	8'-8
	3x12x18 ga	10'-10	11'-5	11'-10
	3x12x16 ga	12'-4	12'-9	13'-2
6.50 (t=3.50) 64 PSF	3x12x22 ga	3'-2	4'-3	3'-11
	3x12x20 ga	7'-5	7'-0	8'-0
	3x12x18 ga	10'-4	11'-0	11'-4
	3x12x16 ga	11'-10	12'-4	12'-9
7.00 (t=4.00) 70 PSF	3x12x22 ga	2'-10	3'-10	3'-7
	3x12x20 ga	6'-9	6'-7	7'-5
	3x12x18 ga	10'-0	10'-7	10'-11
	3x12x16 ga	11'-4	11'-10	12'-3
7.50 (t=4.50) 76 PSF	3x12x22 ga	2'-8	3'-6	3'-4
	3x12x20 ga	6'-2	6'-2	7'-0
	3x12x18 ga	9'-8	10'-3	10'-7
	3x12x16 ga	11'-10	12'-8	13'-1

Minimum exterior bearing length required is 2.50 inches.
Minimum interior bearing length required is 5.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
5.00 (t=2.00) 37 PSF	3x12x22 ga	5'-7	7'-3	7'-0
	3x12x20 ga	10'-6	10'-5	11'-10
	3x12x18 ga	12'-11	13'-5	13'-10
	3x12x16 ga	14'-2	15'-0	15'-6
5.50 (t=2.50) 42 PSF	3x12x22 ga	4'-11	6'-7	6'-2
	3x12x20 ga	10'-1	9'-7	10'-11
	3x12x18 ga	12'-4	12'-10	13'-3
	3x12x16 ga	13'-9	14'-4	14'-10
6.00 (t=3.00) 47 PSF	3x12x22 ga	4'-5	5'-10	5'-6
	3x12x20 ga	9'-8	8'-11	10'-1
	3x12x18 ga	11'-9	12'-4	12'-9
	3x12x16 ga	13'-5	13'-10	14'-4
6.25 (t=3.25) 49 PSF	3x12x22 ga	4'-2	5'-7	5'-2
	3x12x20 ga	9'-6	8'-7	9'-9
	3x12x18 ga	11'-7	12'-2	12'-7
	3x12x16 ga	13'-2	13'-7	14'-1
6.50 (t=3.50) 52 PSF	3x12x22 ga	3'-11	5'-3	4'-11
	3x12x20 ga	9'-3	8'-3	9'-5
	3x12x18 ga	11'-4	11'-11	12'-4
	3x12x16 ga	12'-11	13'-4	13'-10
7.25 (t=4.25) 59 PSF	3x12x22 ga	3'-5	4'-7	4'-4
	3x12x20 ga	8'-1	7'-6	8'-7
	3x12x18 ga	10'-9	11'-4	11'-9
	3x12x16 ga	12'-3	12'-9	13'-2

Minimum exterior bearing length required is 2.50 inches.
Minimum interior bearing length required is 5.00 inches.

Table A-2E – Construction Span Table – 1.5x6 Composite Deck ($F_y = 33$ ksi) – 50 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 34 PSF	1.5x6x22 ga	4'-10	5'-3	5'-5
	1.5x6x20 ga	5'-8	5'-11	6'-1
	1.5x6x18 ga	6'-8	6'-9	7'-0
	1.5x6x16 ga	7'-7	7'-7	7'-10
4.00 (t=2.50) 40 PSF	1.5x6x22 ga	4'-8	5'-1	5'-3
	1.5x6x20 ga	5'-5	5'-8	5'-10
	1.5x6x18 ga	6'-6	6'-6	6'-9
	1.5x6x16 ga	7'-4	7'-3	7'-6
4.50 (t=3.00) 46 PSF	1.5x6x22 ga	4'-6	4'-11	5'-1
	1.5x6x20 ga	5'-2	5'-6	5'-8
	1.5x6x18 ga	6'-3	6'-4	6'-6
	1.5x6x16 ga	7'-1	7'-1	7'-3
5.00 (t=3.50) 52 PSF	1.5x6x22 ga	4'-4	4'-9	4'-11
	1.5x6x20 ga	5'-0	5'-4	5'-6
	1.5x6x18 ga	6'-1	6'-1	6'-4
	1.5x6x16 ga	6'-10	6'-10	7'-1
5.50 (t=4.00) 58 PSF	1.5x6x22 ga	4'-2	4'-7	4'-9
	1.5x6x20 ga	4'-10	5'-2	5'-4
	1.5x6x18 ga	5'-11	5'-11	6'-1
	1.5x6x16 ga	6'-8	6'-8	6'-10
6.00 (t=4.50) 64 PSF	1.5x6x22 ga	4'-0	4'-6	4'-8
	1.5x6x20 ga	4'-8	5'-0	5'-2
	1.5x6x18 ga	5'-8	5'-9	5'-11
	1.5x6x16 ga	6'-6	6'-5	6'-8

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 28 PSF	1.5x6x22 ga	5'-2	5'-6	5'-8
	1.5x6x20 ga	6'-0	6'-2	6'-4
	1.5x6x18 ga	7'-0	7'-0	7'-3
	1.5x6x16 ga	7'-10	7'-10	8'-1
4.00 (t=2.50) 33 PSF	1.5x6x22 ga	4'-11	5'-4	5'-6
	1.5x6x20 ga	5'-9	5'-11	6'-2
	1.5x6x18 ga	6'-9	6'-10	7'-0
	1.5x6x16 ga	7'-8	7'-7	7'-10
4.50 (t=3.00) 37 PSF	1.5x6x22 ga	4'-9	5'-2	5'-4
	1.5x6x20 ga	5'-6	5'-9	6'-0
	1.5x6x18 ga	6'-7	6'-7	6'-10
	1.5x6x16 ga	7'-5	7'-5	7'-8
4.75 (t=3.25) 40 PSF	1.5x6x22 ga	4'-8	5'-1	5'-3
	1.5x6x20 ga	5'-5	5'-8	5'-11
	1.5x6x18 ga	6'-6	6'-6	6'-9
	1.5x6x16 ga	7'-4	7'-4	7'-7
5.00 (t=3.50) 42 PSF	1.5x6x22 ga	4'-7	5'-0	5'-2
	1.5x6x20 ga	5'-4	5'-7	5'-10
	1.5x6x18 ga	6'-5	6'-5	6'-8
	1.5x6x16 ga	7'-3	7'-2	7'-5
5.75 (t=4.25) 49 PSF	1.5x6x22 ga	4'-4	4'-10	5'-0
	1.5x6x20 ga	5'-1	5'-5	5'-7
	1.5x6x18 ga	6'-2	6'-2	6'-5
	1.5x6x16 ga	6'-11	6'-11	7'-2

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Table A-2F – Construction Span Table – 1.5x6 Inverted Composite Deck ($F_y = 33$ ksi) – 50 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 39 PSF	1.5x6INVx22 ga	4'-10	5'-0	5'-2
	1.5x6INVx20 ga	5'-8	5'-7	5'-9
	1.5x6INVx18 ga	6'-7	6'-5	6'-8
	1.5x6INVx16 ga	7'-4	7'-3	7'-6
4.00 (t=2.50) 46 PSF	1.5x6INVx22 ga	4'-8	4'-10	5'-0
	1.5x6INVx20 ga	5'-5	5'-4	5'-6
	1.5x6INVx18 ga	6'-4	6'-3	6'-5
	1.5x6INVx16 ga	7'-1	7'-1	7'-3
4.50 (t=3.00) 52 PSF	1.5x6INVx22 ga	4'-6	4'-8	4'-10
	1.5x6INVx20 ga	5'-2	5'-2	5'-4
	1.5x6INVx18 ga	6'-2	6'-1	6'-3
	1.5x6INVx16 ga	6'-11	6'-10	7'-1
5.00 (t=3.50) 58 PSF	1.5x6INVx22 ga	4'-4	4'-6	4'-8
	1.5x6INVx20 ga	5'-0	5'-0	5'-2
	1.5x6INVx18 ga	6'-0	5'-10	6'-1
	1.5x6INVx16 ga	6'-9	6'-8	6'-10
5.50 (t=4.00) 64 PSF	1.5x6INVx22 ga	4'-2	4'-5	4'-6
	1.5x6INVx20 ga	4'-10	4'-11	5'-1
	1.5x6INVx18 ga	5'-10	5'-8	5'-11
	1.5x6INVx16 ga	6'-6	6'-5	6'-8
6.00 (t=4.50) 70 PSF	1.5x6INVx22 ga	4'-1	4'-3	4'-5
	1.5x6INVx20 ga	4'-8	4'-9	4'-11
	1.5x6INVx18 ga	5'-7	5'-7	5'-9
	1.5x6INVx16 ga	6'-4	6'-3	6'-6

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 32 PSF	1.5x6INVx22 ga	5'-2	5'-3	5'-5
	1.5x6INVx20 ga	6'-0	5'-10	6'-0
	1.5x6INVx18 ga	6'-11	6'-9	7'-0
	1.5x6INVx16 ga	7'-8	7'-7	7'-10
4.00 (t=2.50) 37 PSF	1.5x6INVx22 ga	4'-11	5'-1	5'-3
	1.5x6INVx20 ga	5'-10	5'-8	5'-10
	1.5x6INVx18 ga	6'-8	6'-7	6'-9
	1.5x6INVx16 ga	7'-6	7'-5	7'-8
4.50 (t=3.00) 42 PSF	1.5x6INVx22 ga	4'-9	4'-11	5'-1
	1.5x6INVx20 ga	5'-7	5'-6	5'-8
	1.5x6INVx18 ga	6'-6	6'-4	6'-7
	1.5x6INVx16 ga	7'-3	7'-2	7'-5
4.75 (t=3.25) 44 PSF	1.5x6INVx22 ga	4'-8	4'-10	5'-0
	1.5x6INVx20 ga	5'-6	5'-5	5'-7
	1.5x6INVx18 ga	6'-5	6'-3	6'-6
	1.5x6INVx16 ga	7'-2	7'-1	7'-4
5.00 (t=3.50) 46 PSF	1.5x6INVx22 ga	4'-8	4'-9	4'-11
	1.5x6INVx20 ga	5'-5	5'-4	5'-6
	1.5x6INVx18 ga	6'-4	6'-3	6'-5
	1.5x6INVx16 ga	7'-1	7'-0	7'-3
5.75 (t=4.25) 54 PSF	1.5x6INVx22 ga	4'-5	4'-7	4'-9
	1.5x6INVx20 ga	5'-2	5'-2	5'-4
	1.5x6INVx18 ga	6'-1	6'-0	6'-2
	1.5x6INVx16 ga	6'-10	6'-9	7'-0

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Table A-2G – Construction Span Table – 2x12 Composite Deck ($F_y = 33$ ksi) – 50 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
4.00 (t=2.00) 40 PSF	2x12x22 ga	5'-2	4'-2	4'-9
	2x12x20 ga	7'-1	6'-0	6'-10
	2x12x18 ga	8'-4	8'-1	8'-5
	2x12x16 ga	10'-1	9'-1	9'-5
4.50 (t=2.50) 46 PSF	2x12x22 ga	4'-6	3'-10	4'-5
	2x12x20 ga	6'-10	5'-7	6'-4
	2x12x18 ga	8'-1	7'-10	8'-1
	2x12x16 ga	9'-9	8'-9	9'-1
5.00 (t=3.00) 52 PSF	2x12x22 ga	3'-11	3'-8	4'-2
	2x12x20 ga	6'-7	5'-3	6'-0
	2x12x18 ga	7'-10	7'-7	7'-10
	2x12x16 ga	9'-6	8'-6	8'-10
5.50 (t=3.50) 58 PSF	2x12x22 ga	3'-6	3'-5	3'-11
	2x12x20 ga	6'-5	5'-0	5'-8
	2x12x18 ga	7'-7	7'-4	7'-7
	2x12x16 ga	9'-2	8'-3	8'-6
6.00 (t=4.00) 64 PSF	2x12x22 ga	3'-2	3'-3	3'-8
	2x12x20 ga	6'-3	4'-8	5'-4
	2x12x18 ga	7'-5	7'-2	7'-5
	2x12x16 ga	8'-11	8'-0	8'-4
6.50 (t=4.50) 70 PSF	2x12x22 ga	2'-10	3'-1	3'-6
	2x12x20 ga	6'-1	4'-5	5'-1
	2x12x18 ga	7'-3	6'-11	7'-2
	2x12x16 ga	8'-9	7'-10	8'-1

Minimum exterior bearing length required is 2.00 inches.
Minimum interior bearing length required is 4.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
4.00 (t=2.00) 32 PSF	2x12x22 ga	6'-5	4'-6	5'-2
	2x12x20 ga	7'-5	6'-7	7'-5
	2x12x18 ga	8'-9	8'-6	8'-9
	2x12x16 ga	10'-6	9'-6	9'-10
4.50 (t=2.50) 37 PSF	2x12x22 ga	5'-7	4'-3	4'-10
	2x12x20 ga	7'-2	6'-2	7'-0
	2x12x18 ga	8'-6	8'-3	8'-6
	2x12x16 ga	10'-3	9'-3	9'-7
5.00 (t=3.00) 42 PSF	2x12x22 ga	4'-11	4'-1	4'-7
	2x12x20 ga	7'-0	5'-10	6'-8
	2x12x18 ga	8'-3	8'-0	8'-3
	2x12x16 ga	10'-0	9'-0	9'-3
5.25 (t=3.25) 44 PSF	2x12x22 ga	4'-8	3'-11	4'-6
	2x12x20 ga	6'-11	5'-8	6'-6
	2x12x18 ga	8'-2	7'-11	8'-2
	2x12x16 ga	9'-10	8'-10	9'-2
5.50 (t=3.50) 47 PSF	2x12x22 ga	4'-5	3'-10	4'-4
	2x12x20 ga	6'-10	5'-7	6'-4
	2x12x18 ga	8'-1	7'-10	8'-1
	2x12x16 ga	9'-9	8'-9	9'-0
6.25 (t=4.25) 54 PSF	2x12x22 ga	3'-9	3'-7	4'-1
	2x12x20 ga	6'-7	5'-2	5'-10
	2x12x18 ga	7'-9	7'-6	7'-9
	2x12x16 ga	9'-5	8'-5	8'-8

Minimum exterior bearing length required is 2.00 inches.
Minimum interior bearing length required is 4.00 inches.

Table A-2H – Construction Span Table – 3x12 Composite Deck ($F_y = 33$ ksi) - 50 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
5.00 (t=2.00) 46 PSF	3x12x22 ga	4'-6	4'-3	4'-10
	3x12x20 ga	8'-4	6'-2	7'-0
	3x12x18 ga	10'-2	10'-3	10'-7
	3x12x16 ga	11'-5	11'-6	11'-11
5.50 (t=2.50) 52 PSF	3x12x22 ga	3'-11	4'-0	4'-7
	3x12x20 ga	7'-10	5'-9	6'-7
	3x12x18 ga	9'-11	9'-9	10'-3
	3x12x16 ga	11'-1	11'-2	11'-6
6.00 (t=3.00) 58 PSF	3x12x22 ga	3'-6	3'-9	4'-3
	3x12x20 ga	7'-4	5'-5	6'-2
	3x12x18 ga	9'-7	9'-2	10'-0
	3x12x16 ga	10'-9	10'-10	11'-2
6.50 (t=3.50) 64 PSF	3x12x22 ga	3'-2	3'-7	3'-11
	3x12x20 ga	7'-0	5'-2	5'-10
	3x12x18 ga	9'-4	8'-8	9'-8
	3x12x16 ga	10'-5	10'-6	10'-10
7.00 (t=4.00) 70 PSF	3x12x22 ga	2'-10	3'-5	3'-7
	3x12x20 ga	6'-7	4'-11	5'-7
	3x12x18 ga	9'-1	8'-3	9'-5
	3x12x16 ga	10'-2	10'-3	10'-7
7.50 (t=4.50) 76 PSF	3x12x22 ga	2'-8	3'-3	3'-4
	3x12x20 ga	6'-2	4'-8	5'-3
	3x12x18 ga	8'-11	7'-10	8'-11
	3x12x16 ga	9'-11	10'-0	10'-4

Minimum exterior bearing length required is 2.50 inches.
Minimum interior bearing length required is 5.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
5.00 (t=2.00) 37 PSF	3x12x22 ga	5'-7	4'-8	5'-4
	3x12x20 ga	9'-1	6'-9	7'-8
	3x12x18 ga	10'-8	10'-9	11'-2
	3x12x16 ga	11'-11	12'-1	12'-6
5.50 (t=2.50) 42 PSF	3x12x22 ga	4'-11	4'-5	5'-1
	3x12x20 ga	8'-8	6'-5	7'-4
	3x12x18 ga	10'-5	10'-6	10'-10
	3x12x16 ga	11'-8	11'-9	12'-2
6.00 (t=3.00) 47 PSF	3x12x22 ga	4'-5	4'-3	4'-10
	3x12x20 ga	8'-3	6'-1	6'-11
	3x12x18 ga	10'-2	10'-2	10'-7
	3x12x16 ga	11'-4	11'-5	11'-10
6.25 (t=3.25) 49 PSF	3x12x22 ga	4'-2	4'-1	4'-8
	3x12x20 ga	8'-0	5'-11	6'-9
	3x12x18 ga	10'-0	10'-0	10'-5
	3x12x16 ga	11'-3	11'-4	11'-8
6.50 (t=3.50) 52 PSF	3x12x22 ga	3'-11	4'-0	4'-7
	3x12x20 ga	7'-10	5'-10	6'-7
	3x12x18 ga	9'-11	9'-9	10'-3
	3x12x16 ga	11'-1	11'-2	11'-6
7.25 (t=4.25) 59 PSF	3x12x22 ga	3'-5	3'-9	4'-3
	3x12x20 ga	7'-4	5'-5	6'-2
	3x12x18 ga	9'-7	9'-2	9'-11
	3x12x16 ga	10'-8	10'-9	11'-2

Minimum exterior bearing length required is 2.50 inches.
Minimum interior bearing length required is 5.00 inches.

Table A-2I – Construction Span Table – 1.5x6 Composite Deck ($F_y = 33$ ksi) – 75 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 34 PSF	1.5x6x22 ga	4'-7	4'-7	4'-9
	1.5x6x20 ga	5'-1	5'-2	5'-4
	1.5x6x18 ga	5'-11	5'-11	6'-1
	1.5x6x16 ga	6'-8	6'-7	6'-10
4.00 (t=2.50) 40 PSF	1.5x6x22 ga	4'-5	4'-6	4'-7
	1.5x6x20 ga	4'-11	5'-0	5'-2
	1.5x6x18 ga	5'-9	5'-9	5'-11
	1.5x6x16 ga	6'-5	6'-5	6'-8
4.50 (t=3.00) 46 PSF	1.5x6x22 ga	4'-4	4'-4	4'-6
	1.5x6x20 ga	4'-9	4'-10	5'-0
	1.5x6x18 ga	5'-7	5'-7	5'-9
	1.5x6x16 ga	6'-4	6'-3	6'-6
5.00 (t=3.50) 52 PSF	1.5x6x22 ga	4'-2	4'-3	4'-5
	1.5x6x20 ga	4'-8	4'-9	4'-11
	1.5x6x18 ga	5'-5	5'-5	5'-8
	1.5x6x16 ga	6'-2	6'-1	6'-4
5.50 (t=4.00) 58 PSF	1.5x6x22 ga	4'-1	4'-2	4'-3
	1.5x6x20 ga	4'-7	4'-8	4'-9
	1.5x6x18 ga	5'-4	5'-4	5'-6
	1.5x6x16 ga	6'-0	6'-0	6'-2
6.00 (t=4.50) 64 PSF	1.5x6x22 ga	4'-0	4'-1	4'-2
	1.5x6x20 ga	4'-6	4'-6	4'-8
	1.5x6x18 ga	5'-2	5'-2	5'-5
	1.5x6x16 ga	5'-10	5'-10	6'-0

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 28 PSF	1.5x6x22 ga	4'-8	4'-9	4'-11
	1.5x6x20 ga	5'-2	5'-4	5'-6
	1.5x6x18 ga	6'-1	6'-1	6'-3
	1.5x6x16 ga	6'-10	6'-10	7'-1
4.00 (t=2.50) 33 PSF	1.5x6x22 ga	4'-7	4'-8	4'-9
	1.5x6x20 ga	5'-1	5'-2	5'-4
	1.5x6x18 ga	5'-11	5'-11	6'-2
	1.5x6x16 ga	6'-8	6'-8	6'-11
4.50 (t=3.00) 37 PSF	1.5x6x22 ga	4'-6	4'-6	4'-8
	1.5x6x20 ga	5'-0	5'-1	5'-3
	1.5x6x18 ga	5'-9	5'-10	6'-0
	1.5x6x16 ga	6'-6	6'-6	6'-9
4.75 (t=3.25) 40 PSF	1.5x6x22 ga	4'-5	4'-6	4'-8
	1.5x6x20 ga	4'-11	5'-0	5'-2
	1.5x6x18 ga	5'-9	5'-9	5'-11
	1.5x6x16 ga	6'-6	6'-5	6'-8
5.00 (t=3.50) 42 PSF	1.5x6x22 ga	4'-5	4'-5	4'-7
	1.5x6x20 ga	4'-10	4'-11	5'-1
	1.5x6x18 ga	5'-8	5'-8	5'-11
	1.5x6x16 ga	6'-5	6'-4	6'-7
5.75 (t=4.25) 49 PSF	1.5x6x22 ga	4'-3	4'-4	4'-5
	1.5x6x20 ga	4'-9	4'-10	5'-0
	1.5x6x18 ga	5'-6	5'-6	5'-8
	1.5x6x16 ga	6'-3	6'-2	6'-5

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Table A-2J – Construction Span Table – 1.5x6 Inverted Composite Deck ($F_y = 33$ ksi) – 75 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 39 PSF	1.5x6INVx22 ga	4'-7	4'-5	4'-6
	1.5x6INVx20 ga	5'-1	4'-10	5'-0
	1.5x6INVx18 ga	5'-10	5'-8	5'-10
	1.5x6INVx16 ga	6'-6	6'-5	6'-8
4.00 (t=2.50) 46 PSF	1.5x6INVx22 ga	4'-5	4'-3	4'-5
	1.5x6INVx20 ga	4'-11	4'-9	4'-11
	1.5x6INVx18 ga	5'-8	5'-6	5'-9
	1.5x6INVx16 ga	6'-4	6'-3	6'-6
4.50 (t=3.00) 52 PSF	1.5x6INVx22 ga	4'-4	4'-2	4'-3
	1.5x6INVx20 ga	4'-10	4'-8	4'-9
	1.5x6INVx18 ga	5'-6	5'-5	5'-7
	1.5x6INVx16 ga	6'-2	6'-1	6'-4
5.00 (t=3.50) 58 PSF	1.5x6INVx22 ga	4'-3	4'-1	4'-2
	1.5x6INVx20 ga	4'-8	4'-6	4'-8
	1.5x6INVx18 ga	5'-5	5'-3	5'-5
	1.5x6INVx16 ga	6'-0	6'-0	6'-2
5.50 (t=4.00) 64 PSF	1.5x6INVx22 ga	4'-2	3'-11	4'-1
	1.5x6INVx20 ga	4'-7	4'-5	4'-7
	1.5x6INVx18 ga	5'-3	5'-2	5'-4
	1.5x6INVx16 ga	5'-11	5'-10	6'-0
6.00 (t=4.50) 70 PSF	1.5x6INVx22 ga	4'-0	3'-10	4'-0
	1.5x6INVx20 ga	4'-6	4'-4	4'-5
	1.5x6INVx18 ga	5'-2	5'-0	5'-2
	1.5x6INVx16 ga	5'-9	5'-8	5'-11

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50 (t=2.00) 32 PSF	1.5x6INVx22 ga	4'-9	4'-6	4'-8
	1.5x6INVx20 ga	5'-3	5'-1	5'-3
	1.5x6INVx18 ga	6'-0	5'-11	6'-1
	1.5x6INVx16 ga	6'-9	6'-8	6'-11
4.00 (t=2.50) 37 PSF	1.5x6INVx22 ga	4'-7	4'-5	4'-7
	1.5x6INVx20 ga	5'-2	4'-11	5'-1
	1.5x6INVx18 ga	5'-11	5'-9	5'-11
	1.5x6INVx16 ga	6'-7	6'-6	6'-9
4.50 (t=3.00) 42 PSF	1.5x6INVx22 ga	4'-6	4'-4	4'-6
	1.5x6INVx20 ga	5'-0	4'-10	5'-0
	1.5x6INVx18 ga	5'-9	5'-8	5'-10
	1.5x6INVx16 ga	6'-5	6'-4	6'-7
4.75 (t=3.25) 44 PSF	1.5x6INVx22 ga	4'-6	4'-3	4'-5
	1.5x6INVx20 ga	5'-0	4'-9	4'-11
	1.5x6INVx18 ga	5'-8	5'-7	5'-9
	1.5x6INVx16 ga	6'-5	6'-4	6'-6
5.00 (t=3.50) 46 PSF	1.5x6INVx22 ga	4'-5	4'-3	4'-5
	1.5x6INVx20 ga	4'-11	4'-9	4'-11
	1.5x6INVx18 ga	5'-8	5'-6	5'-8
	1.5x6INVx16 ga	6'-4	6'-3	6'-5
5.75 (t=4.25) 54 PSF	1.5x6INVx22 ga	4'-3	4'-1	4'-3
	1.5x6INVx20 ga	4'-9	4'-7	4'-9
	1.5x6INVx18 ga	5'-6	5'-4	5'-6
	1.5x6INVx16 ga	6'-2	6'-1	6'-3

Minimum exterior bearing length required is 1.50 inches.
Minimum interior bearing length required is 3.00 inches.

Table A-2K – Construction Span Table – 2x12 Composite Deck ($F_y = 33$ ksi) – 75 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
4.00 (t=2.00) 40 PSF	2x12x22 ga	4'-8	3'-3	3'-8
	2x12x20 ga	6'-3	4'-8	5'-4
	2x12x18 ga	7'-5	7'-1	7'-4
	2x12x16 ga	8'-11	8'-0	8'-3
4.50 (t=2.50) 46 PSF	2x12x22 ga	4'-5	3'-1	3'-6
	2x12x20 ga	6'-1	4'-5	5'-0
	2x12x18 ga	7'-2	6'-11	7'-2
	2x12x16 ga	8'-8	7'-9	8'-0
5.00 (t=3.00) 52 PSF	2x12x22 ga	3'-11	2'-11	3'-4
	2x12x20 ga	5'-11	4'-2	4'-9
	2x12x18 ga	7'-0	6'-9	7'-0
	2x12x16 ga	8'-6	7'-7	7'-10
5.50 (t=3.50) 58 PSF	2x12x22 ga	3'-6	2'-9	3'-2
	2x12x20 ga	5'-8	4'-0	4'-7
	2x12x18 ga	6'-10	6'-7	6'-10
	2x12x16 ga	8'-3	7'-5	7'-8
6.00 (t=4.00) 64 PSF	2x12x22 ga	3'-2	2'-8	3'-0
	2x12x20 ga	5'-5	3'-10	4'-4
	2x12x18 ga	6'-8	6'-5	6'-8
	2x12x16 ga	8'-1	7'-3	7'-6
6.50 (t=4.50) 70 PSF	2x12x22 ga	2'-10	2'-6	2'-11
	2x12x20 ga	5'-3	3'-8	4'-2
	2x12x18 ga	6'-7	6'-3	6'-6
	2x12x16 ga	7'-11	7'-1	7'-4

Minimum exterior bearing length required is 2.00 inches.
Minimum interior bearing length required is 4.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
4.00 (t=2.00) 32 PSF	2x12x22 ga	5'-0	3'-5	3'-11
	2x12x20 ga	6'-5	5'-0	5'-8
	2x12x18 ga	7'-8	7'-5	7'-7
	2x12x16 ga	9'-3	8'-3	8'-7
4.50 (t=2.50) 37 PSF	2x12x22 ga	4'-9	3'-4	3'-9
	2x12x20 ga	6'-4	4'-9	5'-5
	2x12x18 ga	7'-6	7'-3	7'-5
	2x12x16 ga	9'-0	8'-1	8'-4
5.00 (t=3.00) 42 PSF	2x12x22 ga	4'-7	3'-2	3'-7
	2x12x20 ga	6'-2	4'-7	5'-2
	2x12x18 ga	7'-4	7'-1	7'-3
	2x12x16 ga	8'-10	7'-11	8'-2
5.25 (t=3.25) 44 PSF	2x12x22 ga	4'-5	3'-1	3'-6
	2x12x20 ga	6'-1	4'-6	5'-1
	2x12x18 ga	7'-3	7'-0	7'-2
	2x12x16 ga	8'-9	7'-10	8'-1
5.50 (t=3.50) 47 PSF	2x12x22 ga	4'-4	3'-0	3'-5
	2x12x20 ga	6'-1	4'-5	5'-0
	2x12x18 ga	7'-2	6'-11	7'-2
	2x12x16 ga	8'-8	7'-9	8'-0
6.25 (t=4.25) 54 PSF	2x12x22 ga	3'-9	2'-10	3'-3
	2x12x20 ga	5'-10	4'-2	4'-8
	2x12x18 ga	7'-0	6'-8	6'-11
	2x12x16 ga	8'-5	7'-6	7'-9

Minimum exterior bearing length required is 2.00 inches.
Minimum interior bearing length required is 4.00 inches.

Table A-2L – Construction Span Table – 3x12 Composite Deck ($F_y = 40$ ksi) - 75 psf Construction Load

Normal Weight Concrete (145 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
5.00 (t=2.00) 46 PSF	3x12x22 ga	4'-6	3'-4	3'-10
	3x12x20 ga	6'-7	4'-10	5'-6
	3x12x18 ga	9'-1	8'-2	9'-4
	3x12x16 ga	10'-2	10'-3	10'-7
5.50 (t=2.50) 52 PSF	3x12x22 ga	3'-11	3'-2	3'-8
	3x12x20 ga	6'-3	4'-7	5'-3
	3x12x18 ga	8'-10	7'-10	8'-11
	3x12x16 ga	9'-11	9'-11	10'-3
6.00 (t=3.00) 58 PSF	3x12x22 ga	3'-6	3'-0	3'-6
	3x12x20 ga	6'-0	4'-5	5'-0
	3x12x18 ga	8'-8	7'-5	8'-6
	3x12x16 ga	9'-8	9'-9	10'-1
6.50 (t=3.50) 64 PSF	3x12x22 ga	3'-2	2'-11	3'-4
	3x12x20 ga	5'-8	4'-2	4'-9
	3x12x18 ga	8'-5	7'-1	8'-1
	3x12x16 ga	9'-6	9'-6	9'-10
7.00 (t=4.00) 70 PSF	3x12x22 ga	2'-10	2'-9	3'-2
	3x12x20 ga	5'-5	4'-0	4'-7
	3x12x18 ga	8'-3	6'-10	7'-9
	3x12x16 ga	9'-3	9'-4	9'-7
7.50 (t=4.50) 76 PSF	3x12x22 ga	2'-8	2'-8	3'-0
	3x12x20 ga	5'-3	3'-10	4'-5
	3x12x18 ga	8'-1	6'-7	7'-5
	3x12x16 ga	9'-1	9'-1	9'-5

Minimum exterior bearing length required is 2.50 inches.
Minimum interior bearing length required is 5.00 inches.

Lightweight Concrete (115 pcf)

Total Slab Depth	Deck Type	Maximum Unshored Clear Span		
		1 span	2 span	3 span
5.00 (t=2.00) 37 PSF	3x12x22 ga	4'-11	3'-7	4'-1
	3x12x20 ga	7'-1	5'-3	5'-11
	3x12x18 ga	9'-5	8'-10	9'-9
	3x12x16 ga	10'-6	10'-7	11'-0
5.50 (t=2.50) 42 PSF	3x12x22 ga	4'-9	3'-6	3'-11
	3x12x20 ga	6'-10	5'-0	5'-8
	3x12x18 ga	9'-3	8'-6	9'-7
	3x12x16 ga	10'-4	10'-5	10'-9
6.00 (t=3.00) 47 PSF	3x12x22 ga	4'-5	3'-4	3'-9
	3x12x20 ga	6'-6	4'-10	5'-6
	3x12x18 ga	9'-1	8'-2	9'-3
	3x12x16 ga	10'-1	10'-2	10'-6
6.25 (t=3.25) 49 PSF	3x12x22 ga	4'-2	3'-3	3'-9
	3x12x20 ga	6'-5	4'-9	5'-4
	3x12x18 ga	8'-11	8'-0	9'-1
	3x12x16 ga	10'-0	10'-1	10'-5
6.50 (t=3.50) 52 PSF	3x12x22 ga	3'-11	3'-2	3'-8
	3x12x20 ga	6'-3	4'-8	5'-3
	3x12x18 ga	8'-10	7'-10	8'-11
	3x12x16 ga	9'-11	10'-0	10'-4
7.25 (t=4.25) 59 PSF	3x12x22 ga	3'-5	3'-0	3'-5
	3x12x20 ga	5'-11	4'-4	5'-0
	3x12x18 ga	8'-7	7'-5	8'-5
	3x12x16 ga	9'-8	9'-8	10'-0

Minimum exterior bearing length required is 2.50 inches.
Minimum interior bearing length required is 5.00 inches.

Tables A-2 Notes:

1. Load tables are calculated using Section Properties as shown in Table A-1 with steel yield strengths as shown. Individual deck manufacturers may supply deck using other steel yield strengths.
2. All section properties and ASD ($\Omega = 1.67$) and LRFD ($\Phi = 0.90$) uniform loads are calculated in accordance with ANSI/SDI C-2011, Section 2.4.A.1 or ANSI/SDI NC-2010, Section 2.4.A.1.
3. Span length assumes clear spans. Center-to-center spacing of supports can be used for design as a conservative assumption.
4. All construction load spans are calculated using loads and load combinations in accordance with ANSI/SDI C-2011, Section 2.4.A. or ANSI/SDI NC-2010, Section 2.4.A.
 - a. 20 psf is the minimum required construction load. 50 psf and 75 psf construction load spans are provided for instances when construction operations require greater construction loads.
5. Bending Moment formulae used for flexural stress limitations are in accordance with ANSI/SDI C-2011, Appendix A.
6. Deflection formulae for deflection limitation are in accordance with ANSI/SDI C-2011, Appendix A.

Table A-4A – 1.5x6 Composite Deck-Slab Factored Yield Moment

	Factored Yield Moment – ΦM_y (inch-kip per foot)							
	$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Normalweight Concrete (n=9)				$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Lightweight Concrete (n=14)			
Slab Depth (inches)	22 ga	20 ga	18 ga	16 ga	22 ga	20 ga	18 ga	16 ga
4	27.21	32.33	41.35	50.53	25.84	30.55	38.79	47.09
4.5	32.84	39.08	50.14	61.43	31.32	37.11	47.29	57.57
4.75	35.72	42.54	54.64	67.03	34.13	40.48	51.66	62.99
5	38.62	46.04	59.21	72.71	36.97	43.89	56.10	68.49
5.5	44.52	53.13	68.47	84.26	42.75	50.84	65.14	79.72
5.75	47.49	56.72	73.17	90.11	45.68	54.36	69.73	85.43
6	50.49	60.33	77.90	96.01	48.63	57.90	74.36	91.19
6.5	56.53	67.61	87.44	107.93	54.57	65.06	83.71	102.84
6.75	59.57	71.28	92.24	113.94	57.57	68.67	88.43	108.73
7	62.62	74.96	97.07	119.97	60.57	72.29	93.17	114.64

Table A-4B – 1.5x6 Inverted Composite Deck-Slab Factored Yield Moment

	Factored Yield Moment – ΦM_y (inch-kip per foot)							
	$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Normalweight Concrete (n=9)				$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Lightweight Concrete (n=14)			
Slab Depth (inches)	22 ga	20 ga	18 ga	16 ga	22 ga	20 ga	18 ga	16 ga
4	31.57	37.61	48.36	59.38	30.20	35.85	45.82	55.96
4.5	37.36	44.58	57.44	70.68	35.86	42.64	54.64	66.89
4.75	40.30	48.12	62.07	76.44	38.75	46.10	59.15	72.48
5	43.27	51.69	66.74	82.26	41.66	49.60	63.70	78.15
5.5	49.26	58.91	76.18	94.04	47.55	56.68	72.95	89.65
5.75	52.28	62.55	80.95	100.00	50.52	60.26	77.62	95.47
6	55.32	66.21	85.75	105.99	53.51	63.86	82.32	101.33
6.5	61.42	73.58	95.40	118.06	59.52	71.11	91.80	113.16
6.75	64.49	77.28	100.26	124.13	62.55	74.75	96.57	119.12
7	67.57	80.99	105.13	130.23	65.59	78.41	101.37	125.10

Table A-4 Notes:

1. Yield Moment is calculated in accordance with ANSI/SDI C-2011, Appendix 2 and 3.
2. Slab Depth = Overall depth of deck-slab, inclusive of deck.
3. $\Phi = 0.85$

Table A-4C – 2x12 Composite Deck-Slab Factored Yield Moment

	Factored Yield Moment – ΦM_y (inch-kip per foot)							
	$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Normalweight Concrete (n=9)				$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Lightweight Concrete (n=14)			
Slab Depth (inches)	22 ga	20 ga	18 ga	16 ga	22 ga	20 ga	18 ga	16 ga
4.5	29.24	34.90	44.84	55.02	27.93	33.22	42.43	51.79
5	34.43	41.12	52.93	65.05	32.99	39.26	50.24	61.42
5.25	37.08	44.31	57.08	70.21	35.58	42.37	54.27	66.40
5.5	39.77	47.54	61.29	75.45	38.21	45.52	58.36	71.47
6	45.22	54.09	69.86	86.12	43.56	51.93	66.71	81.84
6.25	47.98	57.41	74.20	91.54	46.27	55.19	70.95	87.11
6.5	50.76	60.76	78.58	97.00	49.00	58.47	75.23	92.44
7	56.37	67.52	87.43	108.05	54.52	65.10	83.90	103.23
7.25	59.19	70.92	91.89	113.62	57.30	68.45	88.28	108.69
7.5	62.03	74.34	96.37	119.23	60.09	71.82	92.68	114.18

Table A-4D – 3x12 Composite Deck-Slab Factored Yield Moment

	Factored Yield Moment – ΦM_y (inch-kip per foot)							
	$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Normalweight Concrete (n=9)				$F_y = 33 \text{ ksi}$ $f'_c = 3000 \text{ psi}$ Lightweight Concrete (n=14)			
Slab Depth (inches)	22 ga	20 ga	18 ga	16 ga	22 ga	20 ga	18 ga	16 ga
5.5	36.69	43.87	56.56	69.49	35.08	41.81	53.63	65.59
6	42.20	50.46	65.07	80.00	40.42	48.16	61.78	75.58
6.25	45.04	53.85	69.47	85.44	43.17	51.44	66.01	80.78
6.5	47.92	57.30	73.95	90.99	45.97	54.79	70.33	86.10
7	53.80	64.35	83.12	102.37	51.71	61.65	79.20	97.06
7.25	56.79	67.94	87.79	108.18	54.63	65.14	83.74	102.68
7.5	59.80	71.56	92.52	114.05	57.58	68.68	88.33	108.37
8	65.91	78.91	102.10	125.99	63.57	75.87	97.67	119.96
8.25	69.00	82.62	106.96	132.04	66.60	79.51	102.41	125.85
8.5	72.11	86.36	111.85	138.14	69.65	83.17	107.19	131.79

Table A-4 Notes:

1. Yield Moment is calculated in accordance with ANSI/SDI C-2011, Appendix 2 and 3.
2. Slab Depth = Overall depth of deck-slab, inclusive of deck.
3. $\Phi = 0.85$

Table A-5A – Bare Deck Shear and Web Crippling Strength – $F_y = 33$ ksi

				Web Crippling							
		Shear (lbs)		ASD (lbs)				LRFD (lbs)			
Profile	Gage Number	ASD $\Omega = 1.60$	LRFD $\Phi = 0.95$	$\Omega = 1.70$ OFE	$\Omega = 1.75$ OFI	$\Omega = 1.80$ TFE	$\Omega = 1.75$ TFI	$\Phi = 0.90$ OFE	$\Phi = 0.85$ OFI	$\Phi = 0.85$ TFE	$\Phi = 0.85$ TFI
1.5x6	22	1377	2093	535	889	514	1098	819	1322	787	1634
1.5x6	20	1653	2512	764	1291	787	1615	1169	1920	1205	2403
1.5x6	18	2159	3282	1299	2240	1465	2843	1988	3332	2241	4229
1.5x6	16	2642	4017	1959	3421	2346	4379	2997	5089	3589	6514
2x12	22	1024	1556	263	458	239	555	402	681	365	825
2x12	20	1235	1877	376	663	368	815	575	987	563	1213
2x12	18	1628	2474	640	1146	689	1434	979	1704	1054	2133
2x12	16	2011	3056	964	1743	1106	2206	1476	2593	1693	3281
3x12	22	1335	2030	275	506	233	592	421	753	356	880
3x12	20	1966	2989	395	731	363	873	605	1088	556	1298
3x12	18	2689	4088	676	1260	690	1539	1035	1874	1056	2290
3x12	16	3338	5075	1022	1912	1118	2371	1564	2844	1711	3527

Table A-5A Notes:

1. Strength is calculated assuming $F_y = 33$ ksi. Individual deck manufacturers may supply deck using other steel yield strengths.
2. All section properties and ASD and LRFD reactions and shears are calculated in accordance with ANSI/SDI C-2011, Section 2.4.A.1, and are per foot of width.
3. Web crippling designations: OFE = One Flange End Loaded; OFI = One Flange Interior Loaded; TFE = Two Flange End Loaded; TFI = Two Flange Interior Loaded.
4. Web crippling loads are calculated using the following minimum bearing lengths:
1.5x6: 1.5" exterior / 3" interior; 2x12: 2" exterior / 4" interior; 3x12: 2.5" exterior / 5" interior.

Table A-5B – Web Crippling Strength for Varied Bearing Lengths

F_y = 33 ksi			OFE	OFI	TFE	TFI
1.5 x 6	22	A	327	579	463	624
		B	1.46	0.99	0.82	1.22
	20	A	496	893	744	978
		B	1.32	0.90	0.74	1.11
	18	A	920	1687	1478	1888
		B	1.14	0.78	0.64	0.96
	16	A	1479	2742	2482	3112
		B	1.02	0.70	0.57	0.86
2 x 12	22	A	146	269	200	282
		B	1.46	0.99	0.82	1.22
	20	A	223	415	324	443
		B	1.32	0.90	0.74	1.11
	18	A	416	785	650	859
		B	1.14	0.78	0.64	0.96
	16	A	670	1276	1101	1421
		B	1.02	0.70	0.57	0.86
3 x 12	22	A	142	275	183	277
		B	1.46	0.99	0.82	1.22
	20	A	217	425	301	438
		B	1.32	0.90	0.74	1.11
	18	A	409	804	616	855
		B	1.14	0.78	0.64	0.96
	16	A	663	1308	1055	1419
		B	1.02	0.70	0.57	0.86
	Ω (ASD)		1.70	1.75	1.80	1.75
	Φ (LRFD)		0.90	0.85	0.85	0.85

Table A-5B Notes:

1. Strength is calculated assuming $F_y = 33$ ksi. Individual deck manufacturers may supply deck using other steel yield strengths.
2. All section properties are calculated in accordance with ANSI/SDI C-2011, Section 2.4.A.1.
3. Web crippling designations: OFE = One Flange End Loaded; OFI = One Flange Interior Loaded; TFE = Two Flange End Loaded; TFI = Two Flange Interior Loaded
4. Nominal web crippling strength is calculated using the following equation:

$$P_n = A(1 + B\sqrt{N}) \quad (\text{lbs})$$

Where: A and B are constants from Table A-5B.

N is the deck bearing length in inches, not less than 3/4 inch and not greater than 2.90 inch for 1.5 x 6 deck, 4.45 inch for 2 x 12 deck or 7.45 inch for 3 x 12 deck. Longer bearing lengths are permitted but do not provide greater strength.

5. ASD strength is calculated as P_n / Ω ; LRFD strength is calculated as ϕP_n .

Table A-6A – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	400	346	286	239	202	172	148	128	111	96	84	74	64	56	49
4.5	45	400	400	346	290	246	210	180	156	135	118	103	90	79	70	61
4.75	48	400	400	377	316	268	229	197	170	148	129	113	99	87	77	67
5	51	400	400	400	343	290	248	213	184	160	140	123	108	95	83	74
5.5	57	400	400	400	396	336	287	247	214	186	163	143	125	111	98	86
5.75	60	400	400	400	400	359	307	264	229	199	174	153	134	119	105	92
6	63	400	400	400	400	382	327	281	244	212	186	163	144	127	112	99
6.5	69	400	400	400	400	400	367	316	274	239	209	184	162	143	126	112
6.75	72	400	400	400	400	400	387	334	290	252	221	194	171	151	134	118
7	75	400	400	400	400	400	400	351	305	266	233	205	180	159	141	125

1.5 x 6		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	400	400	345	290	246	210	181	157	137	120	105	93	82	73	64
4.5	45	400	400	400	352	299	256	221	192	167	147	129	114	101	89	79
4.75	48	400	400	400	384	326	279	241	209	183	160	141	125	110	98	87
5	51	400	400	400	400	353	303	261	227	199	174	154	136	120	107	95
5.5	57	400	400	400	400	400	351	303	264	231	203	179	158	140	125	111
5.75	60	400	400	400	400	400	375	324	282	247	217	191	169	150	134	119
6	63	400	400	400	400	400	400	346	301	263	231	204	181	160	143	127
6.5	69	400	400	400	400	400	400	388	338	296	260	230	204	181	161	144
6.75	72	400	400	400	400	400	400	400	357	313	275	243	215	191	171	152
7	75	400	400	400	400	400	400	400	376	329	290	256	227	202	180	161

Table A-6A – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6		18 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	400	400	400	379	322	277	240	209	183	162	143	127	113	101	90
4.5	45	400	400	400	400	393	338	293	255	224	198	175	156	139	124	111
4.75	48	400	400	400	400	400	369	320	279	245	216	192	171	152	136	122
5	51	400	400	400	400	400	400	347	303	266	235	208	186	166	148	133
5.5	57	400	400	400	400	400	400	400	352	309	273	243	216	193	173	155
5.75	60	400	400	400	400	400	400	400	377	331	293	260	232	207	186	167
6	63	400	400	400	400	400	400	400	400	353	312	277	247	221	198	178
6.5	69	400	400	400	400	400	400	400	400	398	352	313	279	249	224	201
6.75	72	400	400	400	400	400	400	400	400	400	372	330	295	264	237	213
7	75	400	400	400	400	400	400	400	400	400	392	348	311	278	250	225

1.5 x 6		16 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	400	400	400	400	400	345	300	262	231	204	181	162	145	130	117
4.5	45	400	400	400	400	400	400	366	321	282	250	222	198	178	160	144
4.75	48	400	400	400	400	400	400	400	351	309	273	243	217	195	175	158
5	51	400	400	400	400	400	400	400	381	336	297	265	237	212	191	172
5.5	57	400	400	400	400	400	400	400	400	391	346	308	276	247	223	201
5.75	60	400	400	400	400	400	400	400	400	400	371	330	296	265	239	216
6	63	400	400	400	400	400	400	400	400	400	396	353	316	283	255	231
6.5	69	400	400	400	400	400	400	400	400	400	400	398	356	320	288	261
6.75	72	400	400	400	400	400	400	400	400	400	400	400	377	338	305	276
7	75	400	400	400	400	400	400	400	400	400	400	400	397	357	322	291

Table A-6B – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6 INV		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	400	400	332	278	235	201	173	149	129	113	99	86	76	66	58
4.5	50	400	400	395	331	280	239	206	178	155	135	118	104	91	80	71
4.75	53	400	400	400	358	303	259	223	193	168	146	128	113	99	87	77
5	56	400	400	400	385	326	279	240	208	181	158	138	122	107	94	83
5.5	62	400	400	400	400	372	318	274	238	207	181	159	140	123	109	96
5.75	65	400	400	400	400	396	339	292	253	220	193	169	149	131	116	103
6	68	400	400	400	400	400	359	309	268	234	204	179	158	139	123	109
6.5	74	400	400	400	400	400	399	344	299	260	228	200	177	156	138	122
6.75	77	400	400	400	400	400	400	362	314	274	240	211	186	164	145	129
7	80	400	400	400	400	400	400	380	330	288	252	222	195	173	153	136

1.5 x 6 INV		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	400	400	400	338	287	246	212	184	160	141	124	109	97	86	76
4.5	50	400	400	400	400	342	293	253	220	192	168	148	131	116	103	91
4.75	53	400	400	400	400	369	317	274	238	208	182	161	142	126	112	99
5	56	400	400	400	400	398	341	295	256	224	197	173	153	136	121	108
5.5	62	400	400	400	400	400	390	337	293	257	225	199	176	156	139	124
5.75	65	400	400	400	400	400	400	358	312	273	240	212	188	167	148	132
6	68	400	400	400	400	400	400	380	331	290	255	225	199	177	158	141
6.5	74	400	400	400	400	400	400	400	369	323	284	251	223	198	176	157
6.75	77	400	400	400	400	400	400	400	388	340	299	264	234	208	186	166
7	80	400	400	400	400	400	400	400	400	357	314	277	246	219	195	174

Table A-6B – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6 INV	18 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	400	400	400	400	378	325	282	246	216	190	169	150	134	119	107
4.5	50	400	400	400	400	400	388	336	294	258	228	202	180	160	143	129
4.75	53	400	400	400	400	400	400	364	318	280	247	219	195	174	156	140
5	56	400	400	400	400	400	400	392	343	301	266	236	210	188	168	151
5.5	62	400	400	400	400	400	400	400	393	345	305	271	241	216	194	174
5.75	65	400	400	400	400	400	400	400	400	368	325	289	257	230	206	185
6	68	400	400	400	400	400	400	400	400	390	345	306	273	244	219	197
6.5	74	400	400	400	400	400	400	400	400	400	385	342	305	273	245	221
6.75	77	400	400	400	400	400	400	400	400	400	400	360	321	287	258	232
7	80	400	400	400	400	400	400	400	400	400	400	378	337	302	271	244

1.5 x 6 INV	16 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	400	400	400	400	400	400	354	309	272	241	214	191	171	154	139
4.5	50	400	400	400	400	400	400	400	370	326	289	257	230	206	185	167
4.75	53	400	400	400	400	400	400	400	400	353	313	279	249	223	201	181
5	56	400	400	400	400	400	400	400	400	381	338	301	269	241	217	196
5.5	62	400	400	400	400	400	400	400	400	400	388	345	309	277	250	226
5.75	65	400	400	400	400	400	400	400	400	400	400	368	329	296	266	241
6	68	400	400	400	400	400	400	400	400	400	400	391	350	314	283	256
6.5	74	400	400	400	400	400	400	400	400	400	400	400	391	351	316	286
6.75	77	400	400	400	400	400	400	400	400	400	400	400	400	370	333	301
7	80	400	400	400	400	400	400	400	400	400	400	400	400	388	350	317

Table A-6C – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

2x12	22 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	369	305	255	215	183	157	135	117	101	88	77	67	58	51	44
5	51	400	360	301	255	217	186	160	139	121	105	92	80	70	61	54
5.25	54	400	389	325	275	234	201	173	150	131	114	100	87	76	67	58
5.5	57	400	400	349	295	252	216	187	162	141	123	108	94	83	72	63
6	63	400	400	399	337	288	247	214	185	162	141	124	108	95	84	73
6.25	66	400	400	400	359	306	263	227	197	172	150	132	116	102	89	78
6.5	69	400	400	400	380	324	279	241	209	183	160	140	123	108	95	84
7	75	400	400	400	400	361	311	269	234	204	179	157	138	121	107	94
7.25	78	400	400	400	400	380	327	283	246	215	188	165	145	128	113	99
7.5	81	400	400	400	400	399	343	297	258	226	198	174	153	135	119	105

2x12	20 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	400	370	310	263	225	193	168	146	127	112	98	86	76	67	59
5	51	400	400	367	311	266	229	199	173	152	133	117	103	91	81	71
5.25	54	400	400	396	336	288	248	215	187	164	144	127	112	99	88	78
5.5	57	400	400	400	361	309	267	231	202	177	155	137	121	107	95	84
6	63	400	400	400	400	353	305	265	231	202	178	157	139	123	109	97
6.25	66	400	400	400	400	376	324	282	246	216	190	167	148	131	117	104
6.5	69	400	400	400	400	398	344	299	261	229	201	178	157	140	124	110
7	75	400	400	400	400	400	383	333	291	255	225	199	176	156	139	124
7.25	78	400	400	400	400	400	400	351	306	269	237	210	186	165	147	131
7.5	81	400	400	400	400	400	400	368	322	282	249	220	195	173	154	137

Table A-6C – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

2x12	18 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	400	400	400	348	298	258	225	197	173	153	136	121	108	96	86
5	51	400	400	400	400	354	306	267	234	206	182	162	144	129	115	103
5.25	54	400	400	400	400	382	331	289	253	223	197	175	156	139	125	112
5.5	57	400	400	400	400	400	356	311	273	240	213	189	168	150	135	121
6	63	400	400	400	400	400	400	356	312	275	244	217	193	173	155	139
6.25	66	400	400	400	400	400	400	378	332	293	260	231	206	184	165	148
6.5	69	400	400	400	400	400	400	400	352	311	276	245	219	196	176	158
7	75	400	400	400	400	400	400	400	393	347	308	274	245	219	197	177
7.25	78	400	400	400	400	400	400	400	400	366	324	289	258	231	207	187
7.5	81	400	400	400	400	400	400	400	400	384	341	303	271	243	218	196

2x12	16 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	400	400	400	400	374	324	284	249	220	196	174	156	140	125	113
5	51	400	400	400	400	400	385	337	296	262	233	208	186	167	150	135
5.25	54	400	400	400	400	400	400	364	321	284	252	225	201	181	163	147
5.5	57	400	400	400	400	400	400	392	345	306	272	242	217	195	176	158
6	63	400	400	400	400	400	400	400	396	350	312	278	249	224	202	182
6.25	66	400	400	400	400	400	400	400	400	373	332	296	266	239	215	195
6.5	69	400	400	400	400	400	400	400	400	396	352	315	282	254	229	207
7	75	400	400	400	400	400	400	400	400	400	394	352	316	284	256	232
7.25	78	400	400	400	400	400	400	400	400	400	400	371	333	299	270	244
7.5	81	400	400	400	400	400	400	400	400	400	400	390	350	315	284	257

Table A-6D – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

3x12	22 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi				Normalweight Concrete (145 pcf)						
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	274	234	201	173	150	131	115	100	88	77	68	60	52	46	40
6	57	316	270	232	201	174	152	133	117	103	90	79	70	61	54	47
6.25	60	338	289	248	215	187	163	143	125	110	97	85	75	66	58	51
6.5	63	360	308	265	229	199	174	152	134	118	104	91	81	71	62	55
7	69	400	347	298	259	225	197	172	152	134	118	104	92	81	71	63
7.25	72	400	367	316	273	238	208	183	161	142	125	110	97	86	76	67
7.5	75	400	387	333	289	251	220	193	170	150	132	117	103	91	80	71
8	81	400	400	368	319	278	244	214	188	166	147	130	115	102	90	79
8.25	84	400	400	386	335	292	256	224	198	175	154	137	121	107	95	84
8.5	87	400	400	400	351	306	268	235	207	183	162	143	127	113	100	88

3x12	20 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi				Normalweight Concrete (145 pcf)						
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	335	287	247	215	187	164	145	128	113	100	89	79	70	62	55
6	57	386	331	286	248	217	190	167	148	131	116	103	92	82	73	65
6.25	60	400	354	306	266	232	204	179	159	140	125	111	99	88	78	69
6.5	63	400	377	326	283	248	217	192	169	150	133	119	106	94	84	75
7	69	400	400	367	319	279	245	216	191	170	151	134	120	107	95	85
7.25	72	400	400	388	338	295	260	229	203	180	160	143	127	114	101	90
7.5	75	400	400	400	356	312	274	242	214	190	169	151	135	120	107	96
8	81	400	400	400	394	345	304	268	237	211	188	168	150	134	120	107
8.25	84	400	400	400	400	362	318	281	249	222	197	176	157	141	126	113
8.5	87	400	400	400	400	379	333	295	261	232	207	185	165	148	132	118

Table A-6D – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

3x12	18 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi				Normalweight Concrete (145 pcf)						
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	400	381	330	288	253	223	197	176	157	140	125	113	101	91	82
6	57	400	400	381	333	292	258	228	203	181	162	146	131	118	106	96
6.25	60	400	400	400	356	312	276	244	218	194	174	156	140	126	114	103
6.5	63	400	400	400	379	333	294	261	232	207	186	167	150	135	122	110
7	69	400	400	400	400	376	332	295	262	234	210	189	170	153	138	125
7.25	72	400	400	400	400	398	351	312	278	248	223	200	180	162	147	133
7.5	75	400	400	400	400	400	371	329	293	262	235	211	190	172	155	140
8	81	400	400	400	400	400	400	365	325	291	261	235	212	191	173	156
8.25	84	400	400	400	400	400	400	383	341	305	274	246	222	201	182	164
8.5	87	400	400	400	400	400	400	400	357	320	287	258	233	211	190	173

3x12	16 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi				Normalweight Concrete (145 pcf)						
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	400	400	400	363	319	283	251	224	201	181	163	147	133	121	109
6	57	400	400	400	400	369	327	291	260	233	209	189	171	154	140	127
6.25	60	400	400	400	400	395	349	311	278	249	224	202	183	166	150	137
6.5	63	400	400	400	400	400	373	332	297	266	239	216	195	177	161	146
7	69	400	400	400	400	400	400	375	335	301	271	244	221	201	182	166
7.25	72	400	400	400	400	400	400	397	355	319	287	259	234	213	193	176
7.5	75	400	400	400	400	400	400	400	375	336	303	274	248	225	205	186
8	81	400	400	400	400	400	400	400	400	373	336	304	275	250	227	207
8.25	84	400	400	400	400	400	400	400	400	392	353	319	289	263	239	218
8.5	87	400	400	400	400	400	400	400	400	400	370	334	303	275	251	228

Table A-6E – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	400	333	277	232	197	169	146	127	110	97	85	75	66	59	52
4.5	35	400	400	336	283	240	206	178	154	135	118	104	92	82	72	64
4.75	37	400	400	367	309	262	225	194	169	148	130	114	101	90	80	71
5	39	400	400	399	335	285	245	211	184	161	141	125	110	98	87	78
5.5	44	400	400	400	389	331	284	245	214	187	164	145	129	114	102	91
5.75	46	400	400	400	400	354	304	263	229	200	176	156	138	123	109	98
6	49	400	400	400	400	377	323	280	244	213	188	166	147	131	116	104
6.5	53	400	400	400	400	400	364	316	275	241	212	188	166	148	132	118
6.75	55	400	400	400	400	400	385	334	291	255	225	199	176	157	140	125
7	57	400	400	400	400	400	400	352	307	269	237	210	186	166	148	133

1.5 x 6		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	400	398	331	279	237	204	176	154	135	119	105	93	83	74	66
4.5	35	400	400	400	340	289	249	215	188	165	145	128	114	102	91	81
4.75	37	400	400	400	371	316	272	236	206	180	159	141	125	112	100	89
5	39	400	400	400	400	344	296	257	224	197	173	154	137	122	109	98
5.5	44	400	400	400	400	399	344	298	260	229	202	179	159	142	127	114
5.75	46	400	400	400	400	400	368	319	279	245	216	192	171	153	137	123
6	49	400	400	400	400	400	392	340	297	261	231	205	182	163	146	131
6.5	53	400	400	400	400	400	400	384	335	295	261	231	206	184	165	148
6.75	55	400	400	400	400	400	400	400	355	312	276	245	218	195	175	157
7	57	400	400	400	400	400	400	400	374	329	291	258	230	206	185	166

Table A-6E – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6		18 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	400	400	400	360	307	265	230	201	177	157	139	124	111	100	90
4.5	35	400	400	400	400	376	324	282	246	217	192	171	152	137	123	111
4.75	37	400	400	400	400	400	355	309	270	238	211	187	167	150	135	122
5	39	400	400	400	400	400	386	336	294	259	230	204	183	164	147	133
5.5	44	400	400	400	400	400	400	391	343	302	268	238	213	191	172	155
5.75	46	400	400	400	400	400	400	400	368	324	287	256	229	206	185	167
6	49	400	400	400	400	400	400	400	392	346	307	273	244	219	198	178
6.5	53	400	400	400	400	400	400	400	400	391	347	309	277	249	224	202
6.75	55	400	400	400	400	400	400	400	400	400	367	327	293	263	237	215
7	57	400	400	400	400	400	400	400	400	400	387	345	309	278	251	227

1.5 x 6		16 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	400	400	400	400	378	326	284	249	220	195	174	155	140	126	114
4.5	35	400	400	400	400	400	400	349	306	270	240	214	191	172	155	140
4.75	37	400	400	400	400	400	400	382	335	296	263	235	210	189	171	155
5	39	400	400	400	400	400	400	400	366	323	287	256	230	207	187	169
5.5	44	400	400	400	400	400	400	400	400	377	335	299	268	242	218	198
5.75	46	400	400	400	400	400	400	400	400	400	360	321	288	260	235	213
6	49	400	400	400	400	400	400	400	400	400	384	343	308	277	251	227
6.5	53	400	400	400	400	400	400	400	400	400	400	389	349	314	284	258
6.75	55	400	400	400	400	400	400	400	400	400	400	400	370	333	301	273
7	57	400	400	400	400	400	400	400	400	400	400	400	391	352	318	289

Table A-6F – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6 INV		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	400	390	324	272	231	198	171	149	130	114	100	89	78	70	62
4.5	39	400	400	386	324	276	236	204	178	155	136	120	106	94	84	75
4.75	41	400	400	400	351	299	256	222	193	169	148	131	116	103	91	81
5	43	400	400	400	379	322	276	239	208	182	160	141	125	111	99	88
5.5	48	400	400	400	400	368	316	274	238	209	184	162	144	128	114	102
5.75	50	400	400	400	400	392	337	291	254	222	196	173	153	136	122	109
6	52	400	400	400	400	400	357	309	270	236	208	184	163	145	130	116
6.5	57	400	400	400	400	400	398	345	301	263	232	205	182	162	145	129
6.75	59	400	400	400	400	400	400	363	316	278	245	216	192	171	153	137
7	61	400	400	400	400	400	400	381	332	292	257	228	202	180	161	144

1.5 x 6 INV		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	400	400	389	328	279	240	208	181	159	140	124	110	98	87	78
4.5	39	400	400	400	391	333	287	248	217	190	168	148	132	118	105	94
4.75	41	400	400	400	400	361	311	269	235	206	182	161	143	128	115	103
5	43	400	400	400	400	390	335	291	254	223	197	174	155	139	124	111
5.5	48	400	400	400	400	400	384	333	291	256	226	200	178	159	143	128
5.75	50	400	400	400	400	400	400	355	310	272	241	214	190	170	152	137
6	52	400	400	400	400	400	400	377	329	289	256	227	202	181	162	146
6.5	57	400	400	400	400	400	400	400	367	323	286	254	226	202	181	163
6.75	59	400	400	400	400	400	400	400	387	340	301	267	238	213	191	172
7	61	400	400	400	400	400	400	400	400	358	316	281	251	224	201	181

Table A-6F – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

1.5 x 6 INV		18 ga		F _y = 33 ksi		f' _c = 3000 psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	400	400	400	400	364	314	273	239	210	186	165	148	132	119	107
4.5	39	400	400	400	400	400	375	326	286	252	223	198	177	159	143	129
4.75	41	400	400	400	400	400	400	354	310	274	242	216	193	173	156	140
5	43	400	400	400	400	400	400	382	335	295	262	233	209	187	168	152
5.5	48	400	400	400	400	400	400	400	385	339	301	268	240	215	194	175
5.75	50	400	400	400	400	400	400	400	400	362	321	286	256	230	207	187
6	52	400	400	400	400	400	400	400	400	384	341	304	272	244	220	199
6.5	57	400	400	400	400	400	400	400	400	400	381	340	304	273	246	223
6.75	59	400	400	400	400	400	400	400	400	400	400	358	321	288	260	235
7	61	400	400	400	400	400	400	400	400	400	400	377	337	303	274	248

1.5 x 6 INV		16 ga		F _y = 33 ksi		f' _c = 3000 psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	400	400	400	400	400	389	339	297	262	233	208	186	167	151	136
4.5	39	400	400	400	400	400	400	400	357	315	280	249	224	201	181	164
4.75	41	400	400	400	400	400	400	400	387	342	304	271	243	219	198	179
5	43	400	400	400	400	400	400	400	400	370	329	293	263	237	214	194
5.5	48	400	400	400	400	400	400	400	400	400	378	338	303	273	246	223
5.75	50	400	400	400	400	400	400	400	400	400	400	360	323	291	263	239
6	52	400	400	400	400	400	400	400	400	400	400	383	344	310	280	254
6.5	57	400	400	400	400	400	400	400	400	400	400	400	385	347	314	285
6.75	59	400	400	400	400	400	400	400	400	400	400	400	400	366	331	300
7	61	400	400	400	400	400	400	400	400	400	400	400	400	385	348	316

Table A-6G – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

2x12	22 ga	$F_y = 33$ ksi					$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)						
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	359	297	249	211	181	156	135	117	103	90	79	70	62	55	48
5	39	400	353	296	251	215	186	161	140	123	108	95	84	75	66	59
5.25	42	400	380	319	271	232	200	174	152	133	117	103	91	81	71	63
5.5	44	400	400	344	292	250	216	187	164	143	126	111	99	87	78	69
6	48	400	400	394	334	287	248	215	188	165	145	129	114	101	90	80
6.25	51	400	400	400	355	304	263	229	200	175	155	137	121	108	96	85
6.5	53	400	400	400	377	323	279	243	212	186	164	145	129	115	102	91
7	57	400	400	400	400	361	312	272	238	209	184	163	145	129	115	103
7.25	60	400	400	400	400	379	328	285	250	220	194	172	152	136	121	108
7.5	63	400	400	400	400	398	344	299	262	230	203	180	160	142	127	113

2x12	20 ga	$F_y = 33$ ksi					$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)						
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	400	358	301	256	220	190	165	145	127	112	99	88	78	70	62
5	39	400	400	358	305	262	226	197	173	152	134	119	106	94	84	75
5.25	42	400	400	386	329	282	244	213	186	164	145	129	114	102	91	81
5.5	44	400	400	400	354	304	263	229	201	177	157	139	124	110	99	88
6	48	400	400	400	400	349	302	263	231	204	180	160	143	128	114	102
6.25	51	400	400	400	400	371	321	280	246	217	192	170	152	136	121	109
6.5	53	400	400	400	400	393	341	297	261	230	204	181	162	144	129	116
7	57	400	400	400	400	400	381	333	292	258	229	203	181	162	146	131
7.25	60	400	400	400	400	400	400	350	307	271	240	214	191	171	153	138
7.5	63	400	400	400	400	400	400	367	322	284	252	224	200	179	161	144

Table A-6G – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

2x12	18 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	400	400	392	335	288	250	218	192	170	151	134	120	107	97	87
5	39	400	400	400	398	343	298	260	229	203	180	161	144	129	116	105
5.25	42	400	400	400	400	370	322	281	248	219	195	174	155	139	126	113
5.5	44	400	400	400	400	399	347	304	267	236	210	188	168	151	136	123
6	48	400	400	400	400	400	398	349	307	272	242	216	194	174	157	142
6.25	51	400	400	400	400	400	400	371	327	289	257	230	206	185	167	151
6.5	53	400	400	400	400	400	400	394	347	308	274	245	219	197	178	161
7	57	400	400	400	400	400	400	400	389	345	307	274	246	222	200	181
7.25	60	400	400	400	400	400	400	400	400	363	323	289	259	233	210	190
7.5	63	400	400	400	400	400	400	400	400	381	339	303	272	245	221	200

2x12	16 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	400	400	400	400	357	311	272	240	213	190	169	152	137	124	112
5	39	400	400	400	400	400	371	325	287	254	227	203	182	164	148	135
5.25	42	400	400	400	400	400	400	351	310	275	245	219	197	178	161	146
5.5	44	400	400	400	400	400	400	379	335	297	265	237	213	192	174	158
6	48	400	400	400	400	400	400	400	385	342	305	273	246	222	201	182
6.25	51	400	400	400	400	400	400	400	400	364	325	291	262	236	214	194
6.5	53	400	400	400	400	400	400	400	400	387	345	310	279	251	228	207
7	57	400	400	400	400	400	400	400	400	400	387	347	313	283	256	233
7.25	60	400	400	400	400	400	400	400	400	400	400	366	329	297	269	245
7.5	63	400	400	400	400	400	400	400	400	400	400	384	346	312	283	257

Table A-6H – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

3x12		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	269	231	199	173	151	133	117	103	92	81	72	64	57	51	45
6	44	311	266	230	200	175	154	135	120	106	94	84	75	67	59	53
6.25	46	333	285	247	214	188	165	145	129	114	102	90	81	72	64	57
6.5	48	355	305	263	229	200	176	156	138	122	109	97	87	77	69	62
7	53	400	343	297	258	226	199	176	156	138	123	110	98	88	78	70
7.25	55	400	363	314	274	240	211	186	165	147	131	117	104	93	84	75
7.5	57	400	384	332	289	253	223	197	175	156	139	124	111	99	89	80
8	62	400	400	367	320	280	247	218	194	172	154	137	123	110	99	89
8.25	64	400	400	386	336	295	259	229	204	181	162	145	130	116	104	94
8.5	67	400	400	400	351	308	271	240	213	190	169	151	135	121	109	98

3x12		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	326	280	243	212	186	164	145	129	115	102	92	82	74	66	60
6	44	377	324	281	245	215	189	168	149	133	119	106	95	86	77	69
6.25	46	400	347	300	262	230	203	180	160	143	128	114	103	92	83	75
6.5	48	400	370	321	280	246	217	192	171	153	137	123	110	99	89	80
7	53	400	400	362	316	277	245	217	193	173	154	139	125	112	101	91
7.25	55	400	400	383	334	294	260	230	205	183	164	147	132	119	108	97
7.5	57	400	400	400	353	311	274	243	217	194	174	156	140	127	114	103
8	62	400	400	400	391	344	304	270	240	215	193	173	156	141	127	115
8.25	64	400	400	400	400	361	319	283	252	226	202	182	164	148	134	121
8.5	67	400	400	400	400	378	334	296	264	236	212	190	172	155	140	127

Table A-6H – Composite Deck-Slab Allowable Superimposed Load (ASD), psf

3x12		18 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	400	368	320	280	247	218	194	173	155	140	126	114	103	93	85
6	44	400	400	369	323	285	252	224	200	180	162	146	132	119	108	98
6.25	46	400	400	395	346	305	270	241	215	193	173	157	142	128	116	106
6.5	48	400	400	400	370	326	289	257	230	206	186	167	152	137	125	114
7	53	400	400	400	400	368	326	290	260	233	210	189	171	156	141	129
7.25	55	400	400	400	400	389	345	308	275	247	223	201	182	165	150	137
7.5	57	400	400	400	400	400	365	325	291	261	236	213	193	175	159	145
8	62	400	400	400	400	400	400	360	323	290	261	236	214	194	177	161
8.25	64	400	400	400	400	400	400	379	339	305	275	248	225	204	186	170
8.5	67	400	400	400	400	400	400	396	355	319	287	260	236	214	195	178

3x12		16 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	400	400	398	349	308	274	244	219	197	177	161	146	132	121	110
6	44	400	400	400	400	356	316	282	253	227	205	186	169	153	140	128
6.25	46	400	400	400	400	381	338	302	271	244	220	199	181	165	150	137
6.5	48	400	400	400	400	400	362	323	289	261	235	213	194	176	161	147
7	53	400	400	400	400	400	400	365	327	294	266	241	219	200	182	167
7.25	55	400	400	400	400	400	400	387	347	312	282	256	233	212	193	177
7.5	57	400	400	400	400	400	400	400	367	330	299	271	246	224	205	188
8	62	400	400	400	400	400	400	400	400	367	331	301	273	249	228	209
8.25	64	400	400	400	400	400	400	400	400	385	348	316	288	262	240	220
8.5	67	400	400	400	400	400	400	400	400	400	365	331	301	275	251	230

Table A-6I – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	640	553	457	383	323	276	237	204	177	154	135	118	103	90	79
4.5	45	640	640	554	464	393	335	288	249	216	189	165	145	127	112	98
4.75	48	640	640	604	506	428	366	314	272	236	206	181	158	139	122	108
5	51	640	640	640	548	464	397	341	295	257	224	196	172	152	134	118
5.5	57	640	640	640	634	537	459	395	342	298	260	228	201	177	156	138
5.75	60	640	640	640	640	574	491	423	366	319	279	245	215	190	167	148
6	63	640	640	640	640	611	523	450	390	340	297	261	230	203	179	158
6.5	69	640	640	640	640	640	587	506	439	382	335	294	259	229	202	179
6.75	72	640	640	640	640	640	620	534	463	404	354	311	274	242	214	189
7	75	640	640	640	640	640	640	562	488	425	373	327	289	255	226	200

1.5 x 6		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	640	640	552	463	393	336	290	251	219	192	169	149	131	116	103
4.5	45	640	640	640	563	478	409	353	307	268	235	207	182	161	143	127
4.75	48	640	640	640	614	521	447	386	335	293	257	226	200	177	157	139
5	51	640	640	640	640	565	484	418	364	318	279	246	217	192	171	152
5.5	57	640	640	640	640	640	561	485	422	369	324	286	253	224	199	178
5.75	60	640	640	640	640	640	600	519	451	395	347	306	271	240	214	191
6	63	640	640	640	640	640	639	553	481	421	370	327	289	257	229	204
6.5	69	640	640	640	640	640	640	621	541	474	417	368	326	290	258	230
6.75	72	640	640	640	640	640	640	640	571	500	440	389	345	306	273	244
7	75	640	640	640	640	640	640	640	602	527	464	410	363	323	288	257

Table A-6I – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6		18 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	640	640	640	606	516	443	384	335	294	259	229	203	181	162	145
4.5	45	640	640	640	640	628	540	468	409	359	316	280	249	222	199	178
4.75	48	640	640	640	640	640	590	512	447	392	346	307	273	243	218	195
5	51	640	640	640	640	640	640	556	485	426	376	334	297	265	237	213
5.5	57	640	640	640	640	640	640	640	563	495	437	388	346	309	277	249
5.75	60	640	640	640	640	640	640	640	603	530	468	416	370	331	297	267
6	63	640	640	640	640	640	640	640	640	566	500	444	395	354	317	285
6.5	69	640	640	640	640	640	640	640	640	637	563	500	446	399	358	322
6.75	72	640	640	640	640	640	640	640	640	640	595	529	471	422	379	341
7	75	640	640	640	640	640	640	640	640	640	627	557	497	445	399	359

1.5 x 6		16 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	39	640	640	640	640	640	552	480	419	369	326	290	259	232	208	187
4.5	45	640	640	640	640	640	640	586	513	452	400	356	317	284	256	230
4.75	48	640	640	640	640	640	640	640	561	494	438	389	348	312	280	253
5	51	640	640	640	640	640	640	640	610	537	476	424	378	339	305	275
5.5	57	640	640	640	640	640	640	640	640	625	554	493	441	396	356	322
5.75	60	640	640	640	640	640	640	640	640	640	594	529	473	424	382	345
6	63	640	640	640	640	640	640	640	640	640	634	564	505	453	408	369
6.5	69	640	640	640	640	640	640	640	640	640	640	637	570	512	461	417
6.75	72	640	640	640	640	640	640	640	640	640	640	640	603	541	488	441
7	75	640	640	640	640	640	640	640	640	640	640	640	635	571	515	465

Table A-6J – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6 INV		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	640	640	532	445	377	321	276	238	207	180	158	138	121	106	93
4.5	50	640	640	632	530	448	383	329	285	247	216	189	166	146	128	113
4.75	53	640	640	640	572	485	414	356	308	268	234	205	180	158	140	123
5	56	640	640	640	616	521	446	384	332	289	252	221	194	171	151	133
5.5	62	640	640	640	640	596	509	439	380	331	289	254	223	197	174	154
5.75	65	640	640	640	640	633	542	467	404	352	308	271	238	210	186	164
6	68	640	640	640	640	640	574	495	429	374	327	287	253	223	197	174
6.5	74	640	640	640	640	640	639	551	478	417	365	321	283	250	221	196
6.75	77	640	640	640	640	640	640	579	503	438	384	338	298	263	233	206
7	80	640	640	640	640	640	640	608	527	460	403	354	313	276	245	217

1.5 x 6 INV		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	640	640	640	541	459	393	339	294	257	225	198	175	154	137	121
4.5	50	640	640	640	640	547	468	404	351	307	269	237	210	186	165	146
4.75	53	640	640	640	640	591	507	438	380	332	292	257	227	202	179	159
5	56	640	640	640	640	636	545	471	410	358	315	277	245	218	193	172
5.5	62	640	640	640	640	640	624	539	469	410	361	318	282	250	223	198
5.75	65	640	640	640	640	640	640	574	499	437	384	339	300	267	237	212
6	68	640	640	640	640	640	640	608	529	463	408	360	319	283	252	225
6.5	74	640	640	640	640	640	640	640	590	517	455	402	356	317	282	252
6.75	77	640	640	640	640	640	640	640	621	544	478	423	375	333	297	265
7	80	640	640	640	640	640	640	640	640	571	502	444	394	350	312	279

Table A-6J – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6 INV		18 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	640	640	640	640	605	520	451	393	345	304	270	240	214	191	171
4.5	50	640	640	640	640	640	621	538	470	413	364	323	287	256	230	206
4.75	53	640	640	640	640	640	640	583	509	447	395	350	312	278	249	224
5	56	640	640	640	640	640	640	628	549	482	426	378	336	300	269	242
5.5	62	640	640	640	640	640	640	640	629	553	488	433	386	345	310	278
5.75	65	640	640	640	640	640	640	640	640	588	520	462	412	368	330	297
6	68	640	640	640	640	640	640	640	640	624	552	490	437	391	351	315
6.5	74	640	640	640	640	640	640	640	640	640	616	547	488	437	392	353
6.75	77	640	640	640	640	640	640	640	640	640	640	576	514	460	413	372
7	80	640	640	640	640	640	640	640	640	640	640	605	540	483	434	391

1.5 x 6 INV		16 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	44	640	640	640	640	640	640	566	495	436	386	343	306	274	247	222
4.5	50	640	640	640	640	640	640	640	592	522	462	411	367	329	296	267
4.75	53	640	640	640	640	640	640	640	640	566	501	446	399	358	322	290
5	56	640	640	640	640	640	640	640	640	610	540	481	430	386	347	314
5.5	62	640	640	640	640	640	640	640	640	640	620	553	494	444	400	361
5.75	65	640	640	640	640	640	640	640	640	640	640	589	527	473	426	385
6	68	640	640	640	640	640	640	640	640	640	640	625	559	502	453	409
6.5	74	640	640	640	640	640	640	640	640	640	640	640	625	562	506	458
6.75	77	640	640	640	640	640	640	640	640	640	640	640	640	592	533	482
7	80	640	640	640	640	640	640	640	640	640	640	640	640	622	560	507

Table A-6K – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

2x12	22 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	590	487	407	344	293	251	216	187	162	141	123	107	93	81	71
5	51	640	576	482	407	347	297	256	222	193	168	147	128	112	98	86
5.25	54	640	622	520	440	375	321	277	240	209	182	159	140	122	107	93
5.5	57	640	640	559	473	403	346	299	259	225	197	172	151	132	116	101
6	63	640	640	638	540	460	395	342	297	258	226	198	174	152	134	117
6.25	66	640	640	640	574	489	421	364	316	275	241	211	185	163	143	126
6.5	69	640	640	640	608	519	446	386	335	292	256	224	197	173	152	134
7	75	640	640	640	640	578	497	430	374	326	286	251	221	194	171	151
7.25	78	640	640	640	640	608	523	453	394	344	301	264	233	205	180	159
7.5	81	640	640	640	640	638	549	475	413	361	316	278	245	215	190	167

2x12	20 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	640	592	497	421	360	310	268	233	204	179	157	138	122	108	95
5	51	640	640	588	498	426	367	318	277	243	213	187	165	146	129	114
5.25	54	640	640	634	538	460	397	344	300	262	231	203	179	159	140	124
5.5	57	640	640	640	578	495	427	370	323	283	249	219	194	171	152	134
6	63	640	640	640	640	566	488	424	370	324	285	251	222	197	175	155
6.25	66	640	640	640	640	601	519	451	393	345	304	268	237	210	187	166
6.5	69	640	640	640	640	637	550	478	417	366	322	285	252	223	199	176
7	75	640	640	640	640	640	613	533	466	409	360	318	282	250	223	198
7.25	78	640	640	640	640	640	640	561	490	430	379	335	297	264	235	209
7.5	81	640	640	640	640	640	640	589	515	452	398	352	312	278	247	220

Table A-6K – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

2x12	18 ga	F _y = 33 ksi				f' _c = 3000 psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	640	640	640	556	477	413	360	315	277	245	217	193	172	154	137
5	51	640	640	640	640	566	490	427	374	330	292	259	230	206	184	165
5.25	54	640	640	640	640	612	530	462	405	357	316	280	250	223	199	179
5.5	57	640	640	640	640	640	570	497	436	384	340	302	269	241	215	193
6	63	640	640	640	640	640	640	569	499	440	390	347	309	277	248	222
6.25	66	640	640	640	640	640	640	605	532	469	415	369	330	295	264	237
6.5	69	640	640	640	640	640	640	640	564	498	441	392	350	313	281	252
7	75	640	640	640	640	640	640	640	630	556	493	439	392	351	315	283
7.25	78	640	640	640	640	640	640	640	640	585	519	462	413	370	332	298
7.5	81	640	640	640	640	640	640	640	640	615	545	486	434	389	349	314

2x12	16 ga	F _y = 33 ksi				f' _c = 3000 psi			Normalweight Concrete (145 pcf)							
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	45	640	640	640	640	598	519	454	399	352	313	279	249	223	201	181
5	51	640	640	640	640	640	616	539	474	419	372	332	297	267	240	216
5.25	54	640	640	640	640	640	640	583	513	454	403	360	322	289	260	235
5.5	57	640	640	640	640	640	640	628	553	489	435	388	347	312	281	254
6	63	640	640	640	640	640	640	640	633	561	499	445	399	359	323	292
6.25	66	640	640	640	640	640	640	640	640	597	531	474	425	382	345	311
6.5	69	640	640	640	640	640	640	640	640	634	564	504	452	406	366	331
7	75	640	640	640	640	640	640	640	640	640	630	563	505	455	410	371
7.25	78	640	640	640	640	640	640	640	640	640	640	593	532	479	432	391
7.5	81	640	640	640	640	640	640	640	640	640	640	624	560	504	455	412

Table A-6L – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

3x12	22 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi				Normalweight Concrete (145 pcf)						
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	438	374	321	277	241	210	183	161	141	124	109	95	84	73	64
6	57	506	432	371	321	279	243	213	187	164	144	127	112	98	86	75
6.25	60	541	462	397	344	299	261	228	200	176	155	137	120	106	93	81
6.5	63	576	492	424	367	319	278	244	214	188	166	146	129	113	100	87
7	69	640	555	478	414	360	315	276	243	214	188	166	147	129	114	100
7.25	72	640	587	505	438	381	333	292	257	226	200	176	156	138	121	107
7.5	75	640	619	533	462	402	352	309	272	239	211	187	165	146	129	113
8	81	640	640	589	511	445	390	342	301	266	235	208	184	163	144	127
8.25	84	640	640	618	536	467	409	359	316	279	247	219	194	171	152	134
8.5	87	640	640	640	561	489	428	376	332	293	259	229	203	180	159	141

3x12	20 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi				Normalweight Concrete (145 pcf)						
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	536	459	396	344	300	263	231	204	180	160	142	126	112	99	88
6	57	618	530	457	397	347	304	268	237	210	186	165	147	131	116	103
6.25	60	640	566	489	425	371	326	287	254	225	199	177	158	140	125	111
6.5	63	640	604	521	453	396	348	306	271	240	213	190	169	150	134	119
7	69	640	640	588	511	447	393	346	306	272	242	215	192	171	153	136
7.25	72	640	640	621	540	473	415	367	324	288	256	228	203	182	162	145
7.5	75	640	640	640	570	499	439	387	343	304	271	241	215	192	172	153
8	81	640	640	640	631	552	486	429	380	338	301	268	239	214	191	171
8.25	84	640	640	640	640	579	510	450	399	354	316	282	252	225	201	180
8.5	87	640	640	640	640	606	534	471	418	371	331	295	264	236	212	189

Table A-6L – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

3x12	18 ga	$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)										
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	640	609	528	461	404	357	316	281	250	224	201	180	162	146	131
6	57	640	640	609	532	467	412	365	325	290	260	233	209	188	170	153
6.25	60	640	640	640	569	500	441	391	348	311	278	250	224	202	182	164
6.5	63	640	640	640	607	533	471	417	372	332	297	267	240	216	195	176
7	69	640	640	640	640	601	531	471	420	375	336	302	272	245	221	200
7.25	72	640	640	640	640	636	562	499	444	397	356	320	288	260	235	212
7.5	75	640	640	640	640	640	593	527	469	420	376	338	305	275	248	225
8	81	640	640	640	640	640	640	583	520	465	417	375	338	306	276	250
8.25	84	640	640	640	640	640	640	612	546	488	438	394	356	321	290	263
8.5	87	640	640	640	640	640	640	640	572	512	459	413	373	337	305	276

3x12	16 ga	$F_y = 33$ ksi		$f'_c = 3000$ psi		Normalweight Concrete (145 pcf)										
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	51	640	640	640	580	511	452	402	359	322	289	261	235	213	193	175
6	57	640	640	640	640	590	523	465	415	372	335	302	273	247	224	204
6.25	60	640	640	640	640	631	559	498	445	399	359	324	293	265	241	219
6.5	63	640	640	640	640	640	597	531	475	426	383	346	313	283	257	234
7	69	640	640	640	640	640	640	600	536	481	433	391	354	321	292	265
7.25	72	640	640	640	640	640	640	635	568	510	459	414	375	340	309	282
7.5	75	640	640	640	640	640	640	640	600	538	485	438	397	360	327	298
8	81	640	640	640	640	640	640	640	640	597	538	486	440	400	364	331
8.25	84	640	640	640	640	640	640	640	640	627	565	511	463	420	382	348
8.5	87	640	640	640	640	640	640	640	640	640	592	535	485	441	401	365

Table A-6M – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	640	533	442	372	316	270	233	202	177	155	136	120	106	94	84
4.5	35	640	640	538	452	384	329	284	247	216	189	167	147	131	116	103
4.75	37	640	640	588	494	420	360	311	271	236	208	183	162	144	128	114
5	39	640	640	638	537	456	391	338	294	258	226	200	177	157	140	124
5.5	44	640	640	640	622	529	454	393	342	299	263	232	206	183	163	145
5.75	46	640	640	640	640	566	486	421	366	321	282	249	221	196	175	156
6	49	640	640	640	640	603	518	448	390	341	300	265	235	209	186	166
6.5	53	640	640	640	640	640	583	505	440	386	340	300	266	237	211	189
6.75	55	640	640	640	640	640	616	534	465	408	359	318	282	251	224	201
7	57	640	640	640	640	640	640	563	491	430	379	335	298	265	237	212

1.5 x 6		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	640	637	530	446	380	326	282	246	215	190	168	149	132	118	105
4.5	35	640	640	640	544	463	398	345	300	263	232	205	182	162	145	130
4.75	37	640	640	640	594	506	435	377	329	289	255	225	200	179	160	143
5	39	640	640	640	640	550	473	410	358	314	277	246	219	195	174	156
5.5	44	640	640	640	640	639	550	477	416	366	323	286	255	227	203	183
5.75	46	640	640	640	640	640	589	511	446	392	346	307	273	244	219	196
6	49	640	640	640	640	640	627	544	475	418	369	327	291	260	233	209
6.5	53	640	640	640	640	640	640	614	537	472	417	370	330	295	264	238
6.75	55	640	640	640	640	640	640	640	568	499	441	392	349	312	280	252
7	57	640	640	640	640	640	640	640	599	527	466	414	369	330	296	266

Table A-6M – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6	18 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	640	640	640	576	492	424	368	322	283	251	223	199	178	160	144
4.5	35	640	640	640	640	601	518	451	394	347	307	273	244	219	196	177
4.75	37	640	640	640	640	640	568	494	432	381	337	300	268	240	216	195
5	39	640	640	640	640	640	618	538	471	415	368	327	292	262	236	213
5.5	44	640	640	640	640	640	640	626	548	483	428	381	341	306	276	249
5.75	46	640	640	640	640	640	640	640	588	519	460	410	366	329	296	268
6	49	640	640	640	640	640	640	640	627	553	490	437	391	351	316	285
6.5	53	640	640	640	640	640	640	640	640	625	555	494	443	398	358	324
6.75	55	640	640	640	640	640	640	640	640	640	587	524	469	421	380	343
7	57	640	640	640	640	640	640	640	640	640	620	553	495	445	401	363

1.5 x 6	16 ga	$F_y = 33$ ksi				$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	30	640	640	640	640	605	522	455	399	352	312	278	249	223	201	182
4.5	35	640	640	640	640	640	640	558	489	432	383	342	306	275	248	225
4.75	37	640	640	640	640	640	640	612	537	474	421	376	336	303	273	247
5	39	640	640	640	640	640	640	640	585	517	459	410	367	331	298	270
5.5	44	640	640	640	640	640	640	640	640	603	536	479	429	386	349	316
5.75	46	640	640	640	640	640	640	640	640	640	576	514	461	415	375	340
6	49	640	640	640	640	640	640	640	640	640	615	549	493	444	401	363
6.5	53	640	640	640	640	640	640	640	640	640	640	622	558	503	455	413
6.75	55	640	640	640	640	640	640	640	640	640	640	640	591	533	482	437
7	57	640	640	640	640	640	640	640	640	640	640	640	625	563	510	462

Table A-6N – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6 INV		22 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	640	625	518	436	370	317	274	238	208	182	161	142	126	111	99
4.5	39	640	640	617	519	441	378	327	284	248	218	192	170	151	134	119
4.75	41	640	640	640	562	478	410	354	308	270	237	209	185	164	146	130
5	43	640	640	640	606	515	442	382	333	291	256	226	200	178	158	141
5.5	48	640	640	640	640	589	506	438	381	334	294	259	230	204	182	163
5.75	50	640	640	640	640	627	539	466	406	356	313	277	245	218	195	174
6	52	640	640	640	640	640	572	495	431	378	333	294	261	232	207	185
6.5	57	640	640	640	640	640	637	552	481	422	371	328	292	260	232	207
6.75	59	640	640	640	640	640	640	581	506	444	391	346	307	274	245	219
7	61	640	640	640	640	640	640	610	532	467	411	364	323	288	257	230

1.5 x 6 INV		20 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	640	640	623	525	447	384	333	290	254	224	198	176	157	140	125
4.5	39	640	640	640	626	533	459	397	347	304	268	237	211	188	168	151
4.75	41	640	640	640	640	578	497	431	376	330	291	258	230	205	183	164
5	43	640	640	640	640	623	536	465	406	357	315	279	248	222	198	178
5.5	48	640	640	640	640	640	614	533	465	409	361	320	285	255	228	205
5.75	50	640	640	640	640	640	640	568	496	436	385	342	304	272	244	219
6	52	640	640	640	640	640	640	603	527	463	409	363	324	289	260	233
6.5	57	640	640	640	640	640	640	640	588	517	457	406	362	323	290	261
6.75	59	640	640	640	640	640	640	640	619	544	481	428	381	341	306	275
7	61	640	640	640	640	640	640	640	640	572	506	450	401	359	322	290

Table A-6N – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

1.5 x 6 INV		18 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	640	640	640	640	583	502	436	382	336	298	265	236	212	190	171
4.5	39	640	640	640	640	640	601	522	457	403	357	317	284	254	229	206
4.75	41	640	640	640	640	640	640	567	497	438	388	345	308	277	249	225
5	43	640	640	640	640	640	640	612	536	473	419	373	334	299	270	243
5.5	48	640	640	640	640	640	640	640	615	543	481	429	383	344	310	280
5.75	50	640	640	640	640	640	640	640	640	579	513	457	409	368	331	299
6	52	640	640	640	640	640	640	640	640	615	546	486	435	391	353	319
6.5	57	640	640	640	640	640	640	640	640	640	610	544	487	437	394	357
6.75	59	640	640	640	640	640	640	640	640	640	640	573	513	461	416	376
7	61	640	640	640	640	640	640	640	640	640	640	603	540	485	438	396

1.5 x 6 INV		16 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	5'-0	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0
4	34	640	640	640	640	640	622	542	476	420	373	332	298	268	241	218
4.5	39	640	640	640	640	640	640	640	570	504	447	399	358	322	290	263
4.75	41	640	640	640	640	640	640	640	620	547	486	434	389	350	316	286
5	43	640	640	640	640	640	640	640	640	592	526	469	421	379	342	310
5.5	48	640	640	640	640	640	640	640	640	640	605	540	485	436	394	357
5.75	50	640	640	640	640	640	640	640	640	640	640	576	517	466	421	382
6	52	640	640	640	640	640	640	640	640	640	640	613	550	496	448	407
6.5	57	640	640	640	640	640	640	640	640	640	640	640	616	555	502	455
6.75	59	640	640	640	640	640	640	640	640	640	640	640	640	585	530	481
7	61	640	640	640	640	640	640	640	640	640	640	640	640	616	557	506

Table A-6O – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

2x12		22 ga		$F_y = 33$ ksi			$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)						
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	574	475	399	338	289	249	216	188	164	144	127	112	99	87	77
5	39	640	564	474	402	344	297	258	225	197	173	153	135	120	106	94
5.25	42	640	609	511	434	371	320	278	242	212	187	165	146	129	114	101
5.5	44	640	640	550	467	400	345	300	262	229	202	178	158	140	124	110
6	48	640	640	630	535	459	396	344	301	264	233	206	182	162	144	128
6.25	51	640	640	640	568	487	421	366	320	281	247	219	194	172	153	136
6.5	53	640	640	640	603	517	447	389	340	298	263	233	206	183	163	145
7	57	640	640	640	640	578	499	435	380	334	295	261	232	206	184	164
7.25	60	640	640	640	640	607	525	457	400	351	310	274	244	217	193	172
7.5	63	640	640	640	640	637	550	479	419	368	325	288	255	227	203	181

2x12		20 ga		$F_y = 33$ ksi			$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)						
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	640	573	482	410	352	304	265	231	203	179	159	141	125	112	100
5	39	640	640	573	487	419	362	315	276	243	215	191	170	151	135	121
5.25	42	640	640	618	526	452	391	341	298	263	232	206	183	163	146	130
5.5	44	640	640	640	566	487	421	367	322	283	251	222	198	177	158	141
6	48	640	640	640	640	558	483	422	370	326	289	256	229	204	183	164
6.25	51	640	640	640	640	593	514	448	393	346	307	273	243	217	194	174
6.5	53	640	640	640	640	629	545	476	418	368	326	290	259	231	207	186
7	57	640	640	640	640	640	610	532	467	413	366	325	290	260	233	209
7.25	60	640	640	640	640	640	640	560	491	434	384	342	305	273	245	220
7.5	63	640	640	640	640	640	640	587	516	455	403	359	320	286	257	231

Table A-6O – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

2x12		18 ga		$F_y = 33$ ksi			$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)						
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	640	640	627	535	461	400	349	307	271	241	215	192	172	154	139
5	39	640	640	640	637	549	477	417	367	324	288	257	230	206	186	168
5.25	42	640	640	640	640	593	515	450	396	350	311	278	249	223	201	181
5.5	44	640	640	640	640	639	555	486	428	378	336	300	269	241	217	196
6	48	640	640	640	640	640	637	558	491	435	387	346	310	279	251	227
6.25	51	640	640	640	640	640	640	593	523	463	412	368	330	296	267	242
6.5	53	640	640	640	640	640	640	631	556	492	438	391	351	316	285	257
7	57	640	640	640	640	640	640	640	622	551	491	439	394	355	320	290
7.25	60	640	640	640	640	640	640	640	640	580	517	462	414	373	337	305
7.5	63	640	640	640	640	640	640	640	640	609	542	485	435	392	353	320

2x12		16 ga		$F_y = 33$ ksi			$f'_c = 3000$ psi			Lightweight Concrete (115 pcf)						
Slab Thickness (Inches)	Wt (psf)	5'-6	6'-0	6'-6	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6
4.5	35	640	640	640	640	572	497	436	384	341	303	271	243	219	198	179
5	39	640	640	640	640	640	593	520	459	407	363	325	292	263	238	215
5.25	42	640	640	640	640	640	640	562	496	440	392	351	315	284	257	233
5.5	44	640	640	640	640	640	640	607	535	475	424	379	341	307	278	252
6	48	640	640	640	640	640	640	640	616	547	488	437	393	355	321	292
6.25	51	640	640	640	640	640	640	640	640	582	520	466	419	378	342	310
6.5	53	640	640	640	640	640	640	640	640	619	553	495	446	402	364	331
7	57	640	640	640	640	640	640	640	640	640	620	556	500	452	410	372
7.25	60	640	640	640	640	640	640	640	640	640	640	585	527	476	431	392
7.5	63	640	640	640	640	640	640	640	640	640	640	615	554	500	453	412

Table A-6P – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

3x12	22 ga	F _y = 33 ksi				f' _c = 3000 psi			Lightweight Concrete (115 pcf)							
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	430	369	319	277	242	212	187	165	146	130	116	103	92	82	73
6	44	497	426	368	320	280	246	217	192	170	151	134	120	107	95	85
6.25	46	532	456	394	343	300	264	233	206	183	162	145	129	115	103	92
6.5	48	568	487	421	367	321	282	249	220	196	174	155	139	124	111	99
7	53	640	549	475	414	362	318	281	249	221	197	176	157	140	126	112
7.25	55	640	581	503	438	384	338	298	264	235	209	187	167	149	134	120
7.5	57	640	614	531	463	406	357	315	280	249	222	198	177	159	142	127
8	62	640	640	588	512	449	395	349	310	276	246	220	197	176	158	142
8.25	64	640	640	617	538	471	415	367	326	290	259	232	207	186	167	150
8.5	67	640	640	640	562	493	434	384	341	303	271	242	217	194	174	157

3x12		20 ga		F _y = 33 ksi		f' _c = 3000 psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	522	449	389	339	297	262	232	206	184	164	147	132	118	106	95
6	44	602	518	449	392	344	303	268	238	213	190	170	153	137	123	111
6.25	46	640	555	481	419	368	325	288	256	228	204	183	164	148	133	120
6.5	48	640	592	513	448	393	347	308	274	244	219	196	176	159	143	129
7	53	640	640	579	505	444	392	347	309	276	247	222	199	180	162	146
7.25	55	640	640	613	535	470	415	368	328	293	262	236	212	191	172	156
7.5	57	640	640	640	565	497	439	389	347	310	278	250	225	203	183	165
8	62	640	640	640	626	550	486	431	384	344	308	277	249	225	203	184
8.25	64	640	640	640	640	578	511	453	404	361	324	291	262	237	214	194
8.5	67	640	640	640	640	604	534	474	423	378	339	305	274	248	224	203

Table A-6P – Composite Deck-Slab Factored Superimposed Load (LRFD), psf

3x12		18 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	640	589	512	448	395	349	311	278	249	224	202	182	165	149	136
6	44	640	640	591	517	456	404	359	321	288	259	233	211	191	173	157
6.25	46	640	640	632	554	488	432	385	344	308	278	250	226	205	186	169
6.5	48	640	640	640	591	521	462	411	368	330	297	268	242	220	200	182
7	53	640	640	640	640	588	521	464	415	373	336	303	274	249	226	206
7.25	55	640	640	640	640	623	553	492	440	395	356	322	291	264	240	219
7.5	57	640	640	640	640	640	584	520	466	418	377	341	308	280	255	232
8	62	640	640	640	640	640	640	577	516	464	418	378	342	311	283	258
8.25	64	640	640	640	640	640	640	606	542	487	439	397	360	327	298	272
8.5	67	640	640	640	640	640	640	634	568	510	460	416	377	342	312	284

3x12		16 ga		$F_y = 33$ ksi		$f'_c = 3000$ psi		Lightweight Concrete (115 pcf)								
Slab Thickness (Inches)	Wt (psf)	7'-0	7'-6	8'-0	8'-6	9'-0	9'-6	10'-0	10'-6	11'-0	11'-6	12'-0	12'-6	13'-0	13'-6	14'-0
5.5	39	640	640	636	558	493	438	390	350	315	284	257	233	212	193	176
6	44	640	640	640	640	569	505	451	404	364	328	297	270	245	224	204
6.25	46	640	640	640	640	610	542	483	433	390	352	319	289	263	240	220
6.5	48	640	640	640	640	640	578	516	463	417	376	341	310	282	257	235
7	53	640	640	640	640	640	640	583	523	471	426	386	351	319	291	267
7.25	55	640	640	640	640	640	640	619	555	500	452	409	372	339	310	283
7.5	57	640	640	640	640	640	640	640	587	529	478	433	394	359	328	300
8	62	640	640	640	640	640	640	640	640	587	530	481	437	399	364	334
8.25	64	640	640	640	640	640	640	640	640	617	558	506	460	420	384	351
8.5	67	640	640	640	640	640	640	640	640	640	584	530	482	439	402	368

Table A-8. Composite Deck-Slab Shear Capacity, per foot of width

Table A-8A - 1.5x6 Deck

Slab Thickness (In)	$F_y = 33$ ksi – Normalweight Concrete (145 pcf)				$F_y = 33$ ksi – Lightweight Concrete (115 pcf)			
	ΦV_n (22 ga)	ΦV_n (20 ga)	ΦV_n (18 ga)	ΦV_n (16 ga)	ΦV_n (22 ga)	ΦV_n (20 ga)	ΦV_n (18 ga)	ΦV_n (16 ga)
4	2588	2588	2588	2588	1941	1941	1941	1941
4.5	3019	3019	3019	3019	2264	2264	2264	2264
4.75	3250	3250	3250	3250	2438	2438	2438	2438
5	3492	3492	3492	3492	2619	2619	2619	2619
5.5	3876	4005	4005	4005	3004	3004	3004	3004
5.75	4012	4277	4277	4277	3208	3208	3208	3208
6	4153	4528	4560	4560	3420	3420	3420	3420
6.5	4451	4825	5155	5155	3806	3867	3867	3867
6.75	4607	4982	5469	5469	3924	4102	4102	4102
7	4769	5144	5792	5792	4045	4344	4344	4344

Table A-8B - 2x12 Deck

Slab Thickness (In)	$F_y = 33$ ksi – Normalweight Concrete (145 pcf)				$F_y = 33$ ksi – Lightweight Concrete (115 pcf)			
	ΦV_n (22 ga)	ΦV_n (20 ga)	ΦV_n (18 ga)	ΦV_n (16 ga)	ΦV_n (22 ga)	ΦV_n (20 ga)	ΦV_n (18 ga)	ΦV_n (16 ga)
4.5	4073	4359	4894	5361	3403	3689	4021	4021
5	4474	4760	5295	5815	3703	3990	4524	4621
5.25	4682	4968	5503	6023	3859	4146	4680	4933
5.5	4895	5181	5716	6236	4019	4306	4840	5253
6	5336	5623	6157	6678	4350	4637	5171	5692
6.25	5565	5851	6386	6906	4522	4808	5343	5863
6.5	5798	6085	6619	7140	4697	4983	5518	6039
7	6281	6567	7102	7623	5059	5345	5880	6401
7.25	6476	6763	7297	7818	5205	5492	6026	6547
7.5	6671	6958	7492	8013	5352	5638	6173	6693

Table A-8C - 3x12 Deck

Slab Thickness (In)	$F_y = 33$ ksi – Normalweight Concrete (145 pcf)				$F_y = 33$ ksi – Lightweight Concrete (115 pcf)			
	ΦV_n (22 ga)	ΦV_n (20 ga)	ΦV_n (18 ga)	ΦV_n (16 ga)	ΦV_n (22 ga)	ΦV_n (20 ga)	ΦV_n (18 ga)	ΦV_n (16 ga)
5.5	4998	5856	6364	6364	4202	4773	4773	4773
6	5390	6248	7148	7148	4496	5355	5361	5361
6.25	5592	6451	7434	7553	4648	5507	5664	5664
6.5	5799	6657	7640	7966	4803	5662	5974	5974
7	6225	7084	8067	8818	5123	5981	6614	6614
7.25	6445	7303	8286	9169	5287	6146	6943	6943
7.5	6668	7527	8510	9393	5455	6314	7279	7279
8	7129	7987	8970	9853	5801	6659	7642	7969
8.25	7365	8224	9207	10090	5978	6837	7820	8324
8.5	7606	8465	9448	10331	6159	7017	8000	8686

Table A-8 Notes:

1. These tables assume $f'_c = 3000$ psi.
2. Slab thickness is overall slab thickness, including the deck.
3. Tabulated loads are in pounds per linear foot of deck-slab.

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