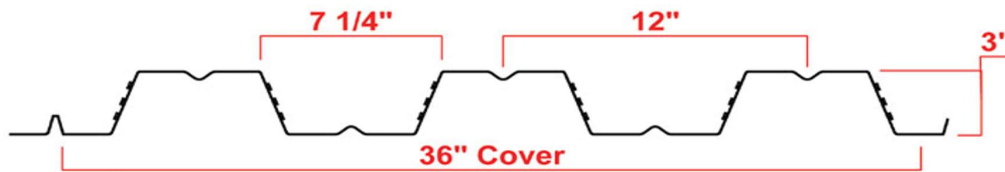




### 3" Floor Deck Tables: 3" Composite and 3" Form 50 KSI



**Table 1A – Section Properties and Flexural Resistance (Bare Deck) (3x12 Composite and 3x12 Form)**

Profile	Gage Number	Design Thickness (inches)	Weight (psf)	F <sub>y</sub> (ksi)	S <sub>e+</sub> (inch <sup>3</sup> ) per foot	S <sub>e-</sub> (inch <sup>3</sup> ) per foot	ASD (Ω = 1.67)		I <sub>d+</sub> (inch <sup>4</sup> ) per ft.	I <sub>d-</sub> (inch <sup>4</sup> ) per ft.
							M <sub>p</sub> /Ω (inch-lbs per ft)	M <sub>n</sub> /Ω (inch-lbs per ft)		
3x12	22	0.0295	1.7	50	0.398	0.409	11904	12238	0.708	0.701
3x12	20	0.0358	2.1	50	0.522	0.538	15639	16098	0.892	0.881
3x12	18	0.0474	2.7	50	0.778	0.785	23283	23503	1.236	1.218
3x12	16	0.0598	3.5	50	0.997	0.993	29840	29721	1.570	1.554

**Table 1A Notes:**

1. All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016



**Table 4.1 – Construction Span Table – 3x12 Composite and 3x12 Form ( $F_y = 50$  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	10' 3"	11' 1"	11' 6"
	3x12x20 ga	11' 11"	12' 9"	13' 2"
	3x12x18 ga	13' 4"	15' 5"	15' 11"
	3x12x16 ga	14' 5"	17' 4"	17' 11"
5.50 (t=2.50) 52 PSF	3x12x22 ga	9' 10"	10' 8"	11' 0"
	3x12x20 ga	11' 5"	12' 3"	12' 7"
	3x12x18 ga	12' 9"	14' 9"	15' 3"
	3x12x16 ga	13' 10"	16' 7"	17' 2"
6.00 (t=3.00) 58 PSF	3x12x22 ga	9' 5"	10' 3"	10' 7"
	3x12x20 ga	11' 3"	12' 9"	13' 2"
	3x12x18 ga	12' 4"	14' 2"	14' 8"
	3x12x16 ga	13' 4"	15' 11"	16' 6"
6.50 (t=3.50) 64 PSF	3x12x22 ga	9' 0"	9' 10"	10' 2"
	3x12x20 ga	10' 8"	11' 4"	11' 8"
	3x12x18 ga	11' 11"	13' 8"	14' 1"
	3x12x16 ga	12' 11"	15' 4"	15' 10"
7.00 (t=4.00) 70 PSF	3x12x22 ga	8' 9"	9' 6"	9' 10"
	3x12x20 ga	10' 3"	10' 11"	11' 3"
	3x12x18 ga	11' 7"	13' 2"	13' 8"
	3x12x16 ga	12' 6"	14' 10"	15' 4"
7.50 (t=4.50) 76 PSF	3x12x22 ga	8' 5"	9' 3"	9' 6"
	3x12x20 ga	9' 11"	10' 7"	10' 11"
	3x12x18 ga	11' 3"	12' 9"	13' 2"
	3x12x16 ga	12' 2"	14' 4"	14' 10"

**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	11' 2"	12' 0"	12' 4"
	3x12x20 ga	12' 10"	13' 9"	14' 2"
	3x12x18 ga	14' 4"	16' 7"	17' 2"
	3x12x16 ga	15' 6"	18' 8"	19' 3"
5.50 (t=2.50) 42 PSF	3x12x22 ga	10' 8"	11' 6"	11' 10"
	3x12x20 ga	12' 4"	13' 2"	13' 7"
	3x12x18 ga	13' 8"	15' 11"	16' 5"
	3x12x16 ga	14' 10"	17' 11"	18' 6"
6.00 (t=3.00) 47 PSF	3x12x22 ga	10' 2"	11' 0"	11' 5"
	3x12x20 ga	12' 3"	14' 1"	14' 7"
	3x12x18 ga	13' 2"	15' 4"	15' 10"
	3x12x16 ga	14' 4"	17' 2"	17' 9"
6.50 (t=3.50) 49 PSF	3x12x22 ga	10' 0"	10' 10"	11' 3"
	3x12x20 ga	11' 8"	12' 6"	12' 11"
	3x12x18 ga	13' 0"	15' 1"	15' 7"
	3x12x16 ga	14' 1"	16' 11"	17' 6"
7.00 (t=4.00) 52 PSF	3x12x22 ga	9' 10"	10' 8"	11' 0"
	3x12x20 ga	11' 5"	12' 3"	12' 7"
	3x12x18 ga	12' 9"	14' 9"	15' 3"
	3x12x16 ga	13' 10"	16' 7"	17' 2"
7.50 (t=4.50) 59 PSF	3x12x22 ga	9' 4"	10' 2"	10' 6"
	3x12x20 ga	11' 0"	11' 8"	12' 1"
	3x12x18 ga	12' 3"	14' 1"	14' 7"
	3x12x16 ga	13' 3"	15' 10"	16' 4"

**Tables 4 Notes:**

1. Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.