

Shallow VERCOR™

9/16 in. (14 mm) Non-Composite Form Deck ■
Galvanized ■

Deck Weight and Section Properties

Gage	Weight psf (N/m ²)		Section Properties per ft (m) of Width			Gage	Weight psf (N/m ²)		Section Properties per ft (m) of Width		
	Galvanized G90 Z275		I in. ⁴ mm ⁴	+S in. ³ mm ³	-S in. ³ mm ³		Galvanized G90 Z275		I in. ⁴ mm ⁴	+S in. ³ mm ³	-S in. ³ mm ³
28	0.9 43.1		0.012 16,387	0.037 1,989	0.039 2,097	24	1.3 62.2	0.017 23,215	0.059 3,172	0.059 3,172	
26	1.0 47.9		0.013 17,753	0.042 2,258	0.044 2,366	22	1.6 76.6	0.023 31,409	0.074 3,978	0.074 3,978	

NOTE: Bending stress is limited to 30,000 psi (206,843 kN/m²) based on F_y = 50,000 psi (344,738 kN/m²).

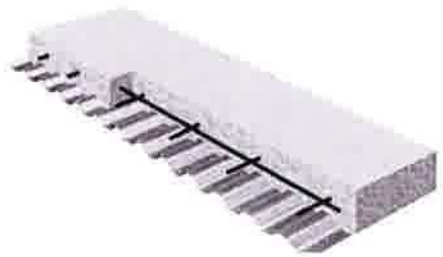
Allowable Uniform Loads (psf, N/m²)

Gage	Span (ft-in., mm)									
	2'-0" 610	2'-6" 760	3'-0" 910	3'-6" 1,070	4'-0" 1,220	4'-6" 1,370	5'-0" 1,520	5'-6" 1,680	6'-0" 1,830	
Single Span										
28	Stress	185 8,858	118 5,650	82 3,926						
	L/240	98 4,692	50 2,394	29 1,389						
	L/180	131 6,272	67 3,208	39 1,867						
26	Stress	210 10,055	134 6,416	93 4,453	69 3,304					
	L/240	107 5,123	55 2,633	32 1,532	20 958					
	L/180	142 6,799	73 3,495	42 2,011	27 1,293					
24	Stress	295 14,125	189 9,049	131 6,272	96 4,597	74 3,543	58 2,777			
	L/240	140 6,703	71 3,399	41 1,963	26 1,245	17 814	12 575			
	L/180	186 8,906	95 4,549	55 2,633	35 1,676	23 1,101	16 766			
22	Stress	300 14,364	237 11,348	164 7,852	121 5,794	93 4,453	73 3,495	59 2,825		
	L/240	189 9,049	97 4,644	56 2,681	35 1,676	24 1,149	17 814	12 575		
	L/180	252 12,066	129 6,177	75 3,591	47 2,250	31 1,484	22 1,053	16 766		

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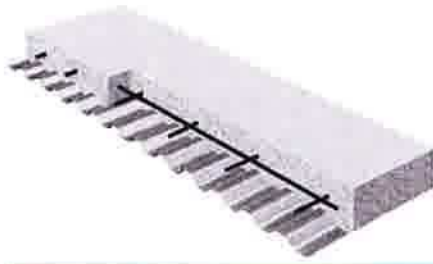
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Allowable Uniform Loads (psf, N/m²)

Gage	Span (ft-in., mm)									
	2'-0" 610	2'-6" 760	3'-0" 910	3'-6" 1,070	4'-0" 1,220	4'-6" 1,370	5'-0" 1,520	5'-6" 1,680	6'-0" 1,830	
Double Span										
28	Stress	195 9,337	125 5,985	87 4,166	64 3,064					
	L/240	◆◆◆	121 5,794	70 3,352	44 2,107					
	L/180	◆◆◆	◆◆◆	◆◆◆	59 2,825					
26	Stress	220 10,534	141 6,751	98 4,692	72 3,447	55 2,633	43 2,059			
	L/240	◆◆◆	132 6,320	76 3,639	48 2,298	32 1,532	23 1,101			
	L/180	◆◆◆	◆◆◆	◆◆◆	64 3,064	43 2,059	30 1,436			
24	Stress	295 14,125	189 9,049	131 6,272	96 4,597	74 3,543	58 2,777	47 2,250	39 1,867	33 1,580
	L/240	◆◆◆	172 8,235	100 4,788	63 3,016	42 2,011	29 1,389	21 1,005	16 766	12 575
	L/180	◆◆◆	◆◆◆	◆◆◆	84 4,022	56 2,681	39 1,867	29 1,389	22 1,053	17 814
22	Stress	300 14,364	237 11,348	164 7,852	121 5,794	93 4,453	73 3,495	59 2,825	49 2,346	41 1,963
	L/240	◆◆◆	233 11,156	135 6,464	85 4,070	57 2,729	40 1,915	29 1,389	22 1,053	17 814
	L/180	◆◆◆	◆◆◆	◆◆◆	113 5,410	76 3,639	53 2,538	39 1,867	29 1,389	22 1,053
Triple Span										
28	Stress	244 11,683	156 7,469	108 5,171	80 3,830	61 2,921				
	L/240	186 8,906	95 4,549	55 2,633	35 1,676	23 1,101				
	L/180	◆◆◆	127 6,081	73 3,495	46 2,202	31 1,484				
26	Stress	275 13,167	176 8,427	122 5,841	90 4,309	69 3,304	54 2,586			
	L/240	201 9,624	103 4,932	60 2,873	38 1,819	25 1,197	18 862			
	L/180	268 12,832	137 6,560	79 3,783	50 2,394	34 1,628	24 1,149			
24	Stress	300 14,364	236 11,300	164 7,852	120 5,746	92 4,405	73 3,495	59 2,825	49 2,346	41 1,963
	L/240	263 12,593	135 6,464	78 3,735	49 2,346	33 1,580	23 1,101	17 814	13 622	10 479
	L/180	◆◆◆	179 8,571	104 4,980	65 3,112	44 2,107	31 1,484	22 1,053	17 814	13 622
22	Stress	300 14,364	296 14,173	206 9,863	151 7,230	116 5,554	91 4,357	74 3,543	61 2,921	51 2,442
	L/240	◆◆◆	182 8,714	105 5,027	66 3,160	44 2,107	31 1,484	23 1,101	17 814	13 622
	L/180	◆◆◆	243 11,635	141 6,751	88 4,213	59 2,825	42 2,011	30 1,436	23 1,101	18 862

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Maximum Allowable Unshored Spans (ft-in., mm)

Total Slab Depth	Normal Weight Concrete - 145 pcf (2,320 kg/m ³)					Light Weight Concrete - 110 pcf (1,760 kg/m ³)				
	Concrete Weight	Gage	1 Span	2 Span	3 Span	Concrete Weight	Gage	1 Span	2 Span	3 Span
2½" (64 mm)	26.8 psf (1,284 N/m ²)	28	2'-0" 610	2'-6" 762	2'-6" 762	20.3 psf (974 N/m ²)	28	2'-1" 634	2'-7" 786	2'-7" 786
		26	2'-3" 686	2'-9" 838	2'-9" 838		26	2'-4" 710	2'-11" 890	2'-10" 863
		24	2'-11" 890	3'-9" 1,143	3'-8" 1,119		24	3'-1" 939	3'-10" 1,167	3'-10" 1,167
		22	3'-6" 1,067	4'-6" 1,372	4'-4" 1,320		22	3'-9" 1,143	4'-8" 1,423	4'-7" 1,396
3" (76 mm)	32.9 psf (1,573 N/m ²)	28	1'-11" 585	2'-5" 738	2'-5" 738	24.9 psf (1,193 N/m ²)	28	2'-0" 610	2'-6" 762	2'-6" 762
		26	2'-2" 661	2'-9" 838	2'-8" 814		26	2'-3" 686	2'-10" 863	2'-9" 838
		24	2'-10" 863	3'-7" 1,091	3'-6" 1,067		24	3'-0" 914	3'-9" 1,143	3'-8" 1,119
		22	3'-5" 1,042	4'-4" 1,320	4'-2" 1,271		22	3'-7" 1,091	4'-7" 1,396	4'-5" 1,347
3½" (89 mm)	38.9 psf (1,862 N/m ²)	28	1'-11" 585	2'-4" 710	2'-4" 710	29.5 psf (1,413 N/m ²)	28	2'-0" 610	2'-6" 762	2'-5" 738
		26	2'-1" 634	2'-8" 814	2'-7" 786		26	2'-2" 661	2'-9" 838	2'-9" 838
		24	2'-9" 838	3'-6" 1,067	3'-5" 1,042		24	2'-11" 890	3'-8" 1,119	3'-7" 1,091
		22	3'-3" 991	4'-2" 1,271	4'-1" 1,244		22	3'-6" 1,067	4'-5" 1,347	4'-4" 1,320
4" (102 mm)	44.9 psf (2,151 N/m ²)	28	1'-10" 558	2'-4" 710	2'-3" 686	34.1 psf (1,632 N/m ²)	28	1'-11" 585	2'-5" 738	2'-5" 738
		26	2'-1" 634	2'-7" 786	2'-6" 762		26	2'-2" 661	2'-8" 814	2'-8" 814
		24	2'-8" 814	3'-5" 1,042	3'-4" 1,015		24	2'-10" 863	3'-7" 1,091	3'-6" 1,067
		22	3'-2" 966	4'-1" 1,244	3'-11" 1,195		22	3'-5" 1,042	4'-4" 1,320	4'-2" 1,271
4½" (114 mm)	51.0 psf (2,441 N/m ²)	28	1'-10" 558	2'-3" 686	2'-3" 686	38.7 psf (1,852 N/m ²)	28	1'-11" 585	2'-5" 738	2'-4" 710
		26	2'-0" 610	2'-6" 762	2'-6" 762		26	2'-1" 634	2'-8" 814	2'-7" 786
		24	2'-7" 786	3'-4" 1,015	3'-3" 991		24	2'-9" 838	3'-6" 1,067	3'-5" 1,042
		22	3'-1" 939	3'-11" 1,195	3'-10" 1,167		22	3'-4" 1,015	4'-2" 1,271	4'-1" 1,244
5" (127 mm)	57.0 psf (2,730 N/m ²)	28	1'-9" 533	2'-3" 686	2'-2" 661	43.3 psf (2,071 N/m ²)	28	1'-10" 558	2'-4" 710	2'-4" 710
		26	1'-11" 585	2'-6" 762	2'-5" 738		26	2'-1" 634	2'-7" 786	2'-7" 786
		24	2'-6" 762	3'-3" 991	3'-2" 966		24	2'-8" 814	3'-5" 1,042	3'-4" 1,015
		22	3'-0" 914	3'-10" 1,167	3'-8" 1,119		22	3'-3" 991	4'-1" 1,244	4'-0" 1,219

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