

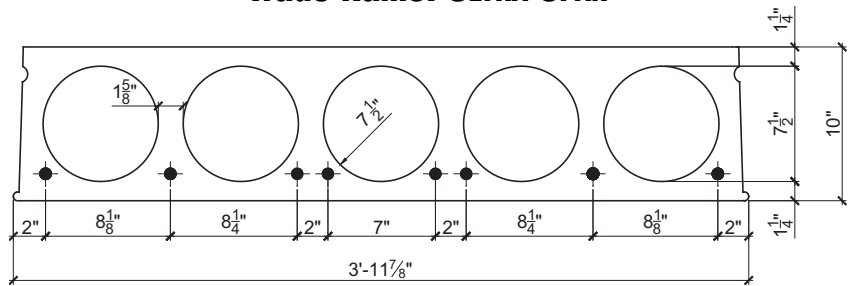
HOLLOWCORE SLAB 10"

Safe Load Tables SECTIONAL PROPERTIES

	UNTOPPED	TOPPED
A	= 259 in ²	327 in ²
I	= 3223 in ⁴	5182 in ⁴
Yt	= 5.0 in	5.75 in
Yb	= 5.0 in	6.25 in
St	= 645 in ³	901 in ³
Sb	= 645 in ³	829 in ³
bw	= 10.5 in	10.5 in
Wgt	= 72 lbs/ft ²	97 lbs/ft ²
v/s	= 2.23 in	

f'ci=3500psi f'c=6000psi
f'ct=3000psi fpu=270ksi

Trade Name: ULTRA SPAN



10" HC (UNTOPPED)

STRAND DESIGNATION CODE	SPAN (FT)																					
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
48-S	231 0.3 0.3	205 0.3 0.3	181 0.3 0.3	161 0.3 0.3	144 0.3 0.3	128 0.3 0.3	114 0.3 0.3	102 0.2 0.3	91 0.2 0.2	81 0.2 0.2	72 0.1 0.0	64 0.1 0.0	56 0.0 0.0	50 0.0 -0.1	44 -0.1 -0.3	38 -0.2 -0.4	33 -0.3 -0.5	28 -0.4 -0.7				
68-S	364 0.4 0.6	325 0.5 0.6	291 0.5 0.7	262 0.5 0.7	236 0.6 0.7	213 0.6 0.7	193 0.6 0.6	175 0.6 0.8	159 0.6 0.8	144 0.6 0.7	131 0.6 0.7	119 0.6 0.7	108 0.5 0.6	99 0.5 0.6	90 0.5 0.5	81 0.4 0.4	74 0.4 0.3	67 0.3 0.2	61 0.2 0.1	55 0.1 -0.1	49 0.0 -0.3	
88-S			393 0.7 1.0	354 0.8 1.0	321 0.8 1.1	291 0.9 1.1	265 0.9 1.2	242 0.9 1.2	221 1.0 1.3	202 1.0 1.3	185 1.0 1.3	170 1.0 1.3	156 1.0 1.3	144 1.0 1.3	132 1.0 1.3	122 1.0 1.2	112 1.0 1.2	103 0.9 1.1	95 0.9 1.0	87 0.8 0.9	80 0.8 0.8	
108-S					373 1.1 1.4	339 1.2 1.5	310 1.2 1.6	283 1.3 1.7	259 1.3 1.7	238 1.4 1.8	219 1.4 1.9	201 1.5 1.9	186 1.5 1.9	171 1.5 2.0	158 1.6 2.0	146 1.6 2.0	135 1.6 2.0	125 1.6 2.0	115 1.6 1.9	107 1.5 1.9	99 1.5 1.8	

10" HC (2" Structural Concrete Topping)

STRAND DESIGNATION CODE	SPAN (FT)																				
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
48-S	258 0.3 0.2	227 0.3 0.2	200 0.3 0.2	176 0.3 0.2	156 0.3 0.2	137 0.3 0.2	121 0.3 0.1	107 0.2 0.1	94 0.2 0.0	83 0.2 -0.1	72 0.1 -0.2	63 0.1 -0.3	54 0.0 -0.4	46 0.0 -0.5	39 -0.1 -0.7	33 -0.2 -0.9	27 -0.3 -1.0				
68-S	401 0.4 0.5	356 0.5 0.5	318 0.5 0.5	284 0.5 0.5	255 0.6 0.5	229 0.6 0.5	206 0.6 0.5	185 0.6 0.5	167 0.6 0.5	151 0.6 0.4	136 0.6 0.4	122 0.6 0.3	110 0.5 0.2	99 0.5 0.1	89 0.5 0.0	80 0.4 -0.1	71 0.4 -0.3	63 0.3 -0.4	56 0.2 -0.6	49 0.1 -0.8	43 0.0 -1.1
88-S				386 0.8 0.8	349 0.8 0.9	315 0.9 0.9	286 0.9 0.9	260 0.9 0.9	236 1.0 0.9	215 1.0 0.9	196 1.0 0.9	179 1.0 0.9	163 1.0 0.8	149 1.0 0.8	136 1.0 0.7	124 1.0 0.6	113 1.0 0.5	103 0.9 0.4	94 0.9 0.2	85 0.8 0.1	77 0.8 -0.1
108-S							361 1.2 1.3	329 1.3 1.3	301 1.3 1.4	275 1.4 1.4	252 1.4 1.4	231 1.5 1.4	212 1.5 1.4	195 1.5 1.4	180 1.6 1.3	165 1.6 1.3	152 1.6 1.2	140 1.6 1.1	129 1.6 1.0	118 1.5 0.9	109 1.5 0.9

NOTES:

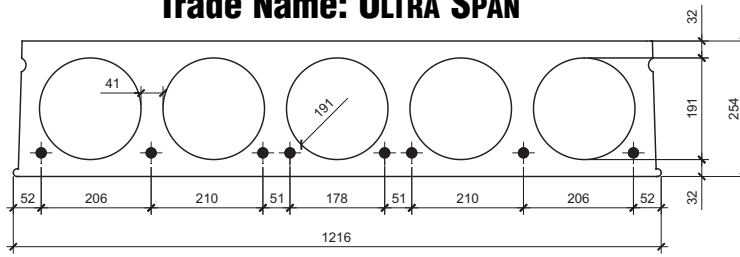
- 1 Loads indicated are total superimposed service loads in lbs/ft².
- 2 Design confirms with ACI-318-99 and CSA 23.3-94.
- 3 For higher loads than indicated - Contact Manufacturer.
- 4 Live load deflection is less than L/360.
- 5 The camber values provided are only estimated and should not be used as absolute values. Always contact manufacturer, if camber is a concern.

See Specification Key for details at beginning of section.

254 mm

HOLLOWCORE SLAB

Trade Name: **ULTRA SPAN**



Safe Load Tables SECTIONAL PROPERTIES

	UNTOPPED	TOPPED
A	= 1.671 x 10 ⁶ mm ²	2.11 x 10 ⁶ mm ²
I	= 1.342 x 10 ⁹ mm ⁴	2.16 x 10 ⁹ mm ⁴
Yt	= 127 mm	146 mm
Yb	= 127 mm	159 mm
St	= 1.057 x 10 ⁷ mm ³	1.476 x 10 ⁷ mm ³
Sb	= 1.057 x 10 ⁷ mm ³	1.358 x 10 ⁷ mm ³
bw	= 267 mm	267 mm
Wgt	= 3.45 kN/m ²	4.64 kN/m ²
v/s	= 56.64 mm	

f'ci=24 MPa f'c=41 MPa
f'ct=21 MPa fpu=1860 MPa

254 mm HC (UNTOPPED)

STRAND DESIGNATION CODE	SPAN (m)																						
	6.1	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.1	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2		
48-S	11.1 7.6 7.6	9.8 7.6 7.6	8.7 7.6 7.6	7.7 7.6 7.6	6.9 7.6 7.6	6.1 7.6 7.6	5.5 7.6 7.6	4.9 5.1 7.6	4.4 5.1 5.1	3.9 5.1 5.1	3.4 2.5 2.5	3.1 2.5 0.0	2.7 0.0 0.0	2.4 0.0 -2.5	2.1 -2.5 -7.6	1.8 -5.1 -10.2	1.6 -7.6 -12.7	1.3 -10.2 -17.8					
68-S	17.4 10.2 15.2	15.6 12.7 15.2	13.9 12.7 17.8	12.5 12.7 17.8	11.3 15.2 17.8	10.2 15.2 17.8	9.2 15.2 20.3	8.4 15.2 20.3	7.6 15.2 20.3	6.9 15.2 17.8	6.3 15.2 17.8	5.7 15.2 17.8	5.2 15.2 17.8	4.7 12.7 12.7	4.3 12.7 10.2	3.9 10.2 10.2	3.5 10.2 7.6	3.2 7.6 5.1	2.9 5.1 2.5	2.6 2.5 -2.5			
88-S			18.8 17.8 25.4	16.9 20.3 25.4	15.4 20.3 27.9	13.9 22.9 27.9	12.7 22.9 30.5	11.6 22.9 30.5	10.6 25.4 33.0	9.7 25.4 33.0	8.9 25.4 33.0	8.1 25.4 33.0	7.5 25.4 33.0	6.9 25.4 33.0	6.3 25.4 33.0	5.8 25.4 30.5	5.4 25.4 30.5	4.9 22.9 27.9	4.5 22.9 25.4	4.2 20.3 22.9	3.8 20.3 20.3		
108-S				17.9 27.9 35.6	16.2 30.5 38.1	14.8 30.5 40.6	13.6 33.0 43.2	12.4 33.0 43.2	11.4 35.6 45.	10.5 35.6 48.3	9.6 38.1 48.3	8.9 38.1 48.3	8.2 38.1 48.3	7.6 40.6 50.8	7.0 40.6 50.8	6.5 40.6 50.8	6.0 40.6 50.8	5.5 40.6 48.3	5.1 38.1 48.3	4.7 38.1 45.7			

254 mm HC (50 mm Structural Concrete Topping)

STRAND DESIGNATION CODE	SPAN (m)																						
	6.1	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.1	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2		
48-S	12.4 7.6 5.1	10.9 7.6 5.1	9.6 7.6 5.1	8.4 7.6 5.1	7.5 7.6 5.1	6.6 7.6 5.1	5.8 7.6 2.5	5.1 5.1 2.5	4.5 5.1 0.0	4.0 5.1 -2.5	3.4 2.5 -5.1	3.0 2.5 -7.6	2.6 0.0 -10.2	2.2 0.0 -12.7	1.9 -2.5 -17.8	1.6 -5.1 -22.9	1.3 -7.6 -25.4						
68-S	19.2 10.2 12.7	17.0 12.7 12.7	15.2 12.7 12.7	13.6 12.7 12.7	12.2 15.2 12.7	11.0 15.2 12.7	9.9 15.2 12.7	8.9 15.2 12.7	8.0 15.2 12.7	7.2 15.2 10.2	6.5 15.2 10.2	5.8 15.2 7.6	5.3 15.2 5.1	4.7 12.7 2.5	4.3 12.7 0.0	3.8 10.2 -2.5	3.4 10.2 -7.6	3.0 7.6 -10.2	2.7 5.1 -15.2	2.3 2.5 -20.3	43 0.0 -27.9		
88-S				18.5 20.3 20.3	16.7 20.3 22.9	15.1 22.9 22.9	13.7 22.9 22.9	12.4 25.4 22.9	11.3 25.4 22.9	10.3 25.4 22.9	9.4 25.4 22.9	8.6 25.4 22.9	7.8 25.4 20.3	7.1 25.4 20.3	6.5 25.4 17.8	5.9 25.4 15.2	5.4 25.4 12.7	4.9 22.9 10.2	4.5 22.9 5.1	4.5 22.9 0.1	3.7 20.3 -2.5		
108-S							17.3 33.0 33.0	15.8 33.0 35.6	14.4 35.6 35.6	13.2 35.6 35.6	12.1 35.6 35.6	11.1 38.1 35.6	10.2 38.1 35.6	9.3 38.1 35.6	8.6 40.6 33.0	7.9 40.6 33.0	7.3 40.6 30.5	6.7 40.6 27.9	6.2 40.6 25.4	5.2 38.1 35.6	9.3 38.1 22.9	5.2 38.1 22.9	

NOTES:

1. Loads indicated are total superimposed service loads in kN/m².
2. Design confirms with ACI-318-99 and CSA 23.3-94.
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