

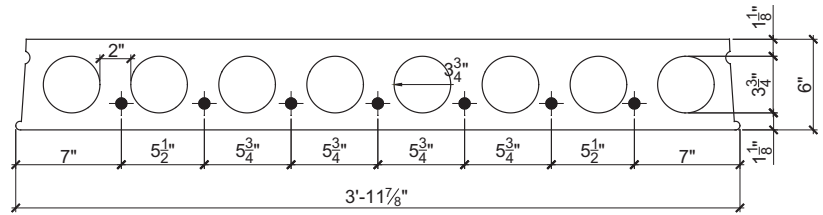
# HOLLOWCORE SLAB 6"

## Safe Load Tables SECTIONAL PROPERTIES

	UNTOPPED	TOPPED
A	= 187 in <sup>2</sup>	255 in <sup>2</sup>
I	= 763 in <sup>4</sup>	1583 in <sup>4</sup>
Y <sub>t</sub>	= 3.0 in	4.07 in
Y <sub>b</sub>	= 3.0 in	3.93 in
St	= 254 in <sup>3</sup>	402 in <sup>3</sup>
Sb	= 254 in <sup>3</sup>	389 in <sup>3</sup>
bw	= 16.0 in	16.0 in
Wgt	= 49 lbs/ft <sup>2</sup>	74 lbs/ft <sup>2</sup>
v/s	= 1.73 in	

f'<sub>ci</sub>=3500psi f'<sub>c</sub>=6000psi  
f'<sub>ct</sub>=3000psi f<sub>pu</sub>=270ksi

Trade Name: **ULTRA SPAN**



## 6" HC ( UNTOPPED )

STRAND DESIGNATION CODE	SPAN ( FT )																			
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
<b>48-S</b>	244 0.2 0.3	210 0.2 0.3	180 0.2 0.3	155 0.2 0.3	134 0.2 0.3	116 0.2 0.3	101 0.2 0.2	88 0.2 0.2	76 0.1 0.1	66 0.1 -0.0	58 0.0 -0.1	50 -0.1 -0.3	43 -0.2 -0.4	37 -0.4 -0.6	32 -0.5 -0.9					
<b>58-S</b>	306 0.3 0.4	265 0.3 0.4	228 0.3 0.4	197 0.3 0.4	172 0.4 0.5	150 0.4 0.4	131 0.4 0.4	115 0.4 0.4	102 0.3 0.3	90 0.3 0.3	79 0.2 0.2	70 0.1 0.1	61 0.0 -0.1	54 0.0 -0.2	47 -0.1 -0.4	41 -0.3 -0.7				
<b>68-S</b>			273 0.4 0.6	237 0.5 0.6	207 0.5 0.6	182 0.5 0.6	160 0.5 0.6	142 0.5 0.6	125 0.5 0.6	111 0.5 0.6	99 0.4 0.5	88 0.4 0.4	78 0.3 0.3	70 0.2 0.2	62 0.1 0.0	55 0.0 -0.2	49 -0.2 -0.5	43 -0.4 -0.7		

## 6" HC ( 2" Structural Concrete Topping )

STRAND DESIGNATION CODE	SPAN ( FT )																			
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
<b>48-S</b>	272 0.2 0.2	232 0.2 0.2	198 0.2 0.1	170 0.2 0.1	147 0.2 0.0	126 0.1 0.0	109 0.2 -0.1	94 0.1 -0.3	81 0.1 -0.4	69 0.0 -0.6	59 0.1 -0.8									
<b>58-S</b>			216 0.3 0.3	186 0.4 0.3	161 0.4 0.2	139 0.4 0.2	121 0.3 0.1	104 0.3 0.0	90 0.3 -0.1	78 0.2 -0.3	67 0.1 -0.5	58 0.0 -0.7								
<b>68-S</b>							121 0.5 0.3	104 0.5 0.2	90 0.5 0.1	78 0.4 -0.2	67 0.4 -0.2	58 0.3 -0.4	49 0.2 -0.6	41 0.1 -0.9						

### NOTES:

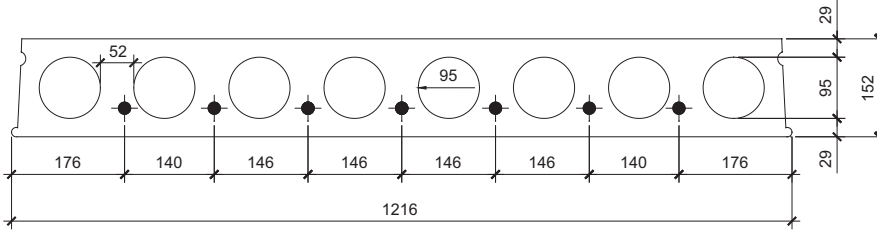
- 1 Loads indicated are total superimposed service loads in lbs/ft<sup>2</sup>.
2. Design confirms with ACI-318-99 and CSA 23.3-94.
3. For higher loads than indicated - Contact Manufacturer.
4. Live load deflection is less than L/360.
5. The camber values provided are only estimated and should not be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

See Specification Key for details at beginning of section.

# 152 mm

# HOLLOWCORE SLAB

**Trade Name: ULTRA SPAN**



## Safe Load Tables SECTIONAL PROPERTIES

	UNTOPPED	TOPPED
A	= $1.206 \times 10^9 \text{mm}^2$	$1.645 \times 10^9 \text{mm}^2$
I	= $3.175 \times 10^8 \text{mm}^4$	$6.588 \times 10^8 \text{mm}^4$
Yt	= 76.2 mm	103 mm
Yb	= 76.2 mm	100 mm
St	= $4.162 \times 10^6 \text{mm}^3$	$6.587 \times 10^6 \text{mm}^3$
Sb	= $4.162 \times 10^6 \text{mm}^3$	$6.374 \times 10^6 \text{mm}^3$
bw	= 406.4 mm	406.4 mm
Wgt	= 2.35 kN/m <sup>2</sup>	3.55 kN/m <sup>2</sup>
v/s	= 43.94 mm	

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

## 152 mm HC ( UNTOPPED )

STRAND DESIGNATION CODE	SPAN ( m )																	
	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.1	9.4
<b>48-S</b>	11.7 5.1 7.6	10.1 5.1 7.6	8.6 5.1 7.6	7.4 5.1 7.6	6.4 5.1 7.6	5.6 5.1 7.6	4.8 5.1 7.6	4.2 5.1 7.6	3.6 2.5 2.5	3.2 2.5 0.0	2.8 0.0 -2.5	2.4 -2.5 -7.6	2.1 -5.1 -10.2	1.8 -10.2 -15.2	1.5 -12.7 -22.9			
<b>58-S</b>	14.7 7.6 10.2	12.7 7.6 10.2	10.9 7.6 10.2	9.4 7.6 10.2	8.2 10.2 12.7	7.2 10.2 10.2	6.3 10.2 10.2	5.5 7.6 10.2	4.9 7.6 7.6	4.3 7.6 5.1	3.8 5.1 2.5	3.4 2.5 2.5	2.9 0.0 -2.5	2.6 -5.1 -5.1	2.3 -10.2 -17.8	2.0 -7.6 -17.8		
<b>68-S</b>			13.1 10.2 15.2	11.3 12.7 15.2	9.9 12.7 15.2	8.7 12.7 15.2	7.7 12.7 15.2	6.8 12.7 15.2	6.0 12.7 15.2	5.3 12.7 15.2	4.7 10.2 12.7	4.2 10.2 10.2	3.7 7.6 7.6	3.4 5.1 5.1	3.0 2.5 0.0	2.6 0.0 -5.1	2.3 -5.1 -12.7	2.1 -10.2 -17.8

## 152 mm HC ( 50 mm Structural Concrete Topping )

STRAND DESIGNATION CODE	SPAN ( m )																	
	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.1	9.4	9.7
<b>48-S</b>	13.0 5.1 5.1	11.1 5.1 5.1	9.5 5.1 2.5	8.1 5.1 2.5	7.0 5.1 0.0	6.0 2.5 0.0	5.2 5.1 -2.5	4.5 2.5 -7.6	3.9 2.5 -10.2	3.3 0.0 -15.2	2.8 2.5 -20.3							
<b>58-S</b>			10.3 7.6 7.6	8.9 10.2 7.6	7.7 10.2 5.1	6.7 10.2 5.1	5.8 7.6 2.5	5.0 7.6 0.0	4.3 7.6 -2.5	3.7 5.1 -7.6	3.2 2.5 -12.7	2.8 0.0 -17.8						
<b>68-S</b>							5.8 12.7 7.6	5.0 12.7 5.1	4.3 12.7 2.5	3.7 10.2 -5.1	3.2 10.2 -5.1	2.8 7.6 -10.2	2.3 5.1 -15.2	2.0 2.5 -22.9				

### NOTES:

- 1 Loads indicated are total superimposed service loads in kN/m<sup>2</sup>.
- 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.

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