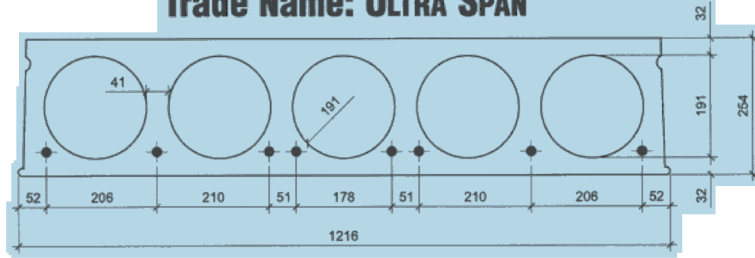


254 mm HOLLOWCORE SLAB

Trade Name: **ULTRA SPAN**



Safe Load Tables SECTIONAL PROPERTIES

	UNTOPPED	TOPPED
A	$= 1.671 \times 10^6 \text{mm}^2$	$2.11 \times 10^6 \text{mm}^2$
I	$= 1.342 \times 10^9 \text{mm}^4$	$2.16 \times 10^9 \text{mm}^4$
Yt	= 127 mm	146 mm
Yb	= 127 mm	159 mm
St	$= 1.057 \times 10^7 \text{mm}^3$	$1.476 \times 10^7 \text{mm}^3$
Sb	$= 1.057 \times 10^7 \text{mm}^3$	$1.358 \times 10^7 \text{mm}^3$
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)																							
SPAN (m)																							
STRAND DESIGNATION CODE	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 5.1	4.4 5.1 5.1	3.9 5.1 2.5	3.4 2.5 0.0	3.1 2.5 0.0	2.7 0.0 0.0	2.4 -2.5 -2.5	2.1 -5.1 -7.6	1.8 -7.6 -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 17.8	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 15.2	4.7 12.7 15.2	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 22.9 25.4	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 40.6 50.8	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 40.6 48.3	4.7 38.1 45.7		

254 mm HC (50 mm Structural Concrete Topping)																						
SPAN (m)																						
STRAND DESIGNATION CODE	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 22.9 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	85 0.8 -2.5	3.7 20.3 20.3
108-S							17.3 30.5 33.0	15.8 33.0 35.6	14.4 35.6 35.6	13.2 35.6 35.6	12.1 38.1 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	4.7 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.
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