

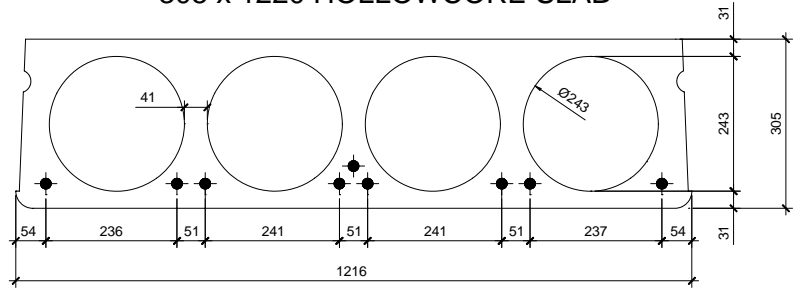


Safe Load Tables

SECTIONAL PROPERTIES

| | UNTOPPED | TOPPED |
|------|--|---------------------------------------|
| A | = 1.79(10 ⁵)mm ² | 2.26(10 ⁵)mm ² |
| I | = 2.13(10 ⁹)mm ⁴ | 3.33(10 ⁹)mm ⁴ |
| Yt | = 152mm | 115 mm |
| Yb | = 152mm | 190 mm |
| St | = 13.99(10 ⁶)mm ³ | 2.88(10 ⁷)mm ³ |
| Sb | = 13.99(10 ⁶)mm ³ | 1.75(10 ⁷)mm ³ |
| bw | = 216 mm | 216 mm |
| Wgt | = 3.50 kPa | 4.70 kPa |
| v/s | = 62.7 | |
| f'ci | =24.1MPa | f'c=41.4MPa |
| f'ct | =20.7MPa | fpu=1850MPa |

305 x 1220 HOLLOWCORE SLAB



305 mm HC (UNTOPPED)

SPAN (m)

| Strand Designation Code | 12.2 | 12.5 | 12.8 | 13.1 | 13.4 | 13.7 | 14.0 | 14.3 | 14.6 | 14.9 | 15.2 | 15.5 | 15.9 | 16.2 | 16.5 | 16.8 | 17.1 | 17.4 | 17.7 | 18.0 | 18.3 | |
|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|---------------------|----------------------|-----------------------|----------------------|---------------------|----------------------|---------------------|----------------------|--|
| 88-S | 5.0 22.9 22.9 | 4.7 20.3 20.3 | 4.4 20.3 17.8 | 4.1 17.8 12.7 | 3.8 15.2 10.2 | 3.5 12.7 5.1 | 3.3 10.2 0.0 | 3.1 7.6 -5.1 | 2.9 5.1 -10.2 | 2.7 0.0 -17.8 | 2.5 -2.5 -22.9 | 2.3 -7.6 -33.0 | 2.2 -12.7 -40.6 | | | | | | | | | |
| 108-S | 5.2 33.0 38.1 | 5.0 33.0 35.6 | 4.8 33.0 33.0 | 4.6 30.5 30.5 | 4.5 30.5 27.9 | 4.2 27.9 25.4 | 4.0 25.4 20.3 | 3.7 22.9 15.2 | 3.5 20.3 10.2 | 3.3 17.8 5.1 | 3.1 15.2 0.0 | 2.8 10.2 -7.6 | 2.7 5.1 -15.2 | 2.5 2.5 -22.9 | 2.3 -5.1 -33.0 | 2.2 -10.2 -43.2 | | | | | | |
| *128-S | 5.4 45.7 55.9 | 5.2 45.7 53.3 | 5.0 45.7 53.3 | 4.8 45.7 50.8 | 4.6 45.7 48.3 | 4.5 43.2 45.7 | 4.3 43.2 40.6 | 4.0 40.6 40.6 | 3.7 40.6 35.6 | 3.5 38.1 33.0 | 3.2 35.6 30.5 | 3.0 30.5 20.3 | 2.7 27.9 15.2 | 2.5 25.4 7.6 | 2.3 20.3 0.0 | 2.2 15.2 -7.6 | 2.0 10.2 -17.8 | 1.8 5.1 -27.9 | 1.6 -2.5 -38.1 | | | |
| *148-S | 5.7 61.0 73.7 | 5.5 61.0 76.2 | 5.3 63.5 73.7 | 5.1 63.5 73.7 | 4.9 63.5 73.7 | 4.7 63.5 71.1 | 4.4 63.5 71.1 | 4.1 61.0 68.6 | 3.8 61.0 66.0 | 3.5 58.4 63.5 | 3.3 58.4 63.5 | 3.0 55.9 53.3 | 2.8 53.3 48.3 | 2.6 50.8 43.2 | 2.3 48.3 38.1 | 2.2 43.2 30.5 | 2.0 40.6 22.9 | 1.8 35.6 12.7 | 1.7 30.5 5.1 | 1.5 22.9 -5.1 | 1.3 17.8 -17.8 | |

305 mm HC (TOPPED)

SPAN (m)

| Strand Designation Code | 12.2 | 12.5 | 12.8 | 13.1 | 13.4 | 13.7 | 14.0 | 14.3 | 14.6 | 14.9 | 15.2 | 15.5 | 15.9 | 16.2 | 16.5 | 16.8 | 17.1 | 17.4 | 17.7 | 18.0 | 18.3 | |
|-------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|------|------|--|
| 88-s | 5.3 22.9 5.1 | 4.9 20.3 2.5 | 4.5 20.3 -2.5 | 4.2 17.8 -7.6 | 3.9 15.2 -12.7 | 3.5 12.7 -17.8 | 3.3 10.2 -22.9 | 3.0 7.6 -30.5 | 2.7 5.1 -38.1 | | | | | | | | | | | | | |
| 108-S | 5.8 33.0 20.3 | 5.6 33.0 15.2 | 5.3 33.0 12.7 | 5.1 30.5 7.6 | 4.7 30.5 5.1 | 4.4 27.9 0.0 | 4.1 25.4 -5.1 | 3.8 22.9 -12.7 | 3.5 20.3 -20.3 | 3.2 17.8 -27.9 | 2.9 15.2 -35.6 | | | | | | | | | | | |
| *128-S | 6.0 45.7 35.6 | 5.7 45.7 33.0 | 5.6 45.7 30.5 | 5.3 45.7 27.9 | 5.1 45.7 22.9 | 4.9 43.2 20.3 | 4.7 43.2 15.2 | 4.5 40.6 10.2 | 4.3 38.1 2.5 | 4.0 38.1 -2.5 | 3.7 35.6 -10.2 | 3.4 30.5 -17.8 | 3.2 27.9 -27.9 | 3.0 25.4 -35.6 | | | | | | | | |
| *148-S | 6.3 61.0 53.3 | 6.0 61.0 53.3 | 5.8 63.5 50.8 | 5.6 63.5 48.3 | 5.3 63.5 45.7 | 5.1 63.5 43.2 | 4.9 63.5 38.1 | 4.7 61.0 35.6 | 4.6 61.0 30.5 | 4.4 58.4 25.4 | 4.3 58.4 17.8 | 4.1 55.9 10.2 | 3.9 53.3 5.1 | 3.6 50.8 -5.1 | 3.4 48.3 -12.7 | 3.2 43.2 -22.9 | 3.0 40.6 -35.6 | 2.5 35.6 -45.7 | | | | |

NOTES:

- Design confirms with ACI-318-99.
- Loads to the left and below solid line are controlled by shear. Contact Manufacturer.
- For higher loads than indicated - Contact Manufacturer.
- Live load deflection is less than L/360.
- The camber values provided are only estimated and should not be used as absolute values. Always contact manufacturer, if camber is a concern.
- Require higher f'ci value.
- For higher capacity - Contact Manufacturer.