

| 6" x 4'-0" Hollowcore | Slah 2" | Structural | Tonning |
|-----------------------|---------|------------|---------|
|                       |         | Suuciarai  | ropping |

| ASTM 416 7 Wire | Strand Area | φM <sub>N</sub> in<br>ft⊧kins per |     | Simple Span (ft) |     |     |     |     |     |     |     |     |     |     | ∳Vc in |     |     |    |    |    |    |    |    |    |    |    |               |
|-----------------|-------------|-----------------------------------|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----|-----|----|----|----|----|----|----|----|----|----|---------------|
| LoLax 270 KSI   | in2         | Unit                              | 10  | 11               | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22     | 23  | 24  | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | kips per Unit |
| 4 1/2" Diameter | 0.460       | 57.04                             | 185 | 161              | 142 | 126 | 274 | 240 | 204 | 174 | 149 | 125 | 102 | 82  |        |     |     |    |    |    |    |    |    |    |    |    | 13.94         |
| 5 1/2" Diameter | 0.575       | 69.08                             | 188 | 164              | 347 | 314 | 287 | 263 | 241 | 211 | 185 | 161 | 135 | 112 | 92     | 75  |     |    |    |    |    |    |    |    |    |    | 13.94         |
| 6 1/2" Diameter | 0.690       | 80.68                             | 191 | 392              | 352 | 319 | 291 | 267 | 246 | 227 | 206 | 182 | 161 | 140 | 119    | 100 | 83  |    |    |    |    |    |    |    |    |    | 13.94         |
| 7 1/2" Diameter | 0.805       | 91.84                             | 447 | 398              | 357 | 324 | 295 | 271 | 250 | 231 | 215 | 200 | 178 | 158 | 141    | 121 | 103 | 87 |    |    |    |    |    |    |    |    | 13.94         |

CPC load tables are based on the following assumptions:

- 1- Loads are in PSF
- 2- Precast Concrete fc =6000 psi Field Topping fc =4000psi
- 3- Loads are based on slabs being 100% grouted.
- 4- Allowable superimposed service loads include dead load of 20 psf.
- 5- Loads are based on ACI 318-14.
- 6- Camber is inherent to flexural prestressed members. Slabs of unequal spans or a change in span direction will result in differential camber. Call CPC Engineering Department for guidance with the design layout.
- 7- Values in shaded boxes require deflection analysis. Contact CPC Engineering Department.
- 8- Values to the left of the dark stepped lines are shear critical. Contact CPC Engineering Department.
- 9- Slabs designed with composite structural topping must be properly cleaned and completely saturated before topping placement to insure adequate bond.



| Area Composite  | 265 in <sup>2</sup> |  |  |  |  |  |  |  |
|-----------------|---------------------|--|--|--|--|--|--|--|
| Thermal R Value | 1.5                 |  |  |  |  |  |  |  |
| STC             | 48                  |  |  |  |  |  |  |  |
| IIC             | 22                  |  |  |  |  |  |  |  |