

## PERMISSIBLE TENSILE STRESS IN PRESTRESSING PC STRAND

| ACI Standard: 318         |   |       |  |       |  |      |
|---------------------------|---|-------|--|-------|--|------|
| Grade 270K<br>Strand Size | Due to Strand<br>Jacking Force<br>(0.94 <i>fpy</i> max) |       | Immediately after<br>Prestress Transfer<br>(0.82 <i>fpy</i> max) |       | Post-tensioning Tendons<br>Immediately after Strand Anchorage<br>(0.70 <i>fpu</i> max) |      |
|                           | lbs   | kpsi  | lbs  | kpsi  | lbs  | kpsi |
| 3/8"                      | 19,460  | 228.4 | 16,970   | 199.3 | 16,100   | 189  |
| 7/16"                     | 26,230  | 228.4 | 22,880   | 199.3 | 21,700   | 189  |
| 1/2"                      | 34,940  | 228.4 | 30,480   | 199.3 | 28,910   | 189  |
| 0.52" (1/2"HBS)           | 38,070  | 228.4 | 33,210   | 199.3 | 31,500   | 189  |
| 9/16"                     | 43,738  | 228.4 | 38,155   | 199.3 | 36,190   | 189  |
| 0.6"                      | 49,580  | 228.4 | 43,250   | 199.3 | 41,020   | 189  |

Note: *fpy*: specified yield of prestressing tendons / *fpu*: specified tensile strength of prestressing tendons