

| Concrete | Yield Strength, f_c' (psi) | Modulus of Elasticity, E_c (ksi) | Modulus of Rupture, f_r (psi) |
|----------|------------------------------------|--|---------------------------------------|
| Class C | 4000 | 3645 | 480 |
| Class A | 3500 | 3410 | 450 |
| Class B | 3000 | 3155 | 415 |

Notes:

1. *Thermal coefficient of expansion = $6.0 \times 10^{-6}/^{\circ}\text{F}$*
2. *Shrinkage coefficient = 0.0002 after 28 days
= 0.0005 after 1 year*
3. *Normal weight concrete density = 150 lb/ft³ for computing loads
= 145 lb/ft³ for computing properties*

MATERIAL PROPERTIES OF CONCRETE

Figure 62-1A