

### **5.5.4.2 RESISTANCE FACTORS**

Strength Limit State resistance factors shall be as follows:

<b>Strength Limit States</b>	<b>Resistance Factor</b>
Flexure and tension of reinforced concrete	0.90
Flexure and tension of prestressed concrete	1.00
Shear and torsion	
normal weight concrete	0.90
lightweight concrete	0.70
Axial Compression with spirals or ties	0.75
Bearing on concrete	0.70
Compression in Strut and Tie Models	0.70
Compression in anchorage zones	
normal weight concrete	0.80
lightweight concrete	0.65
Tension in steel in anchorage zones	1.00
Resistance During Pile Driving	1.00
Compression members with flexure	
Factored axial load $\geq 0.10 f'_c A_g$	0.75
$0.10 f'_c A_g \geq$ Factored axial load $> 0$	Linear transition
Factored axial load = 0	0.90
Partially prestressed members	$0.90 + 0.10(\text{PPR})$
$\text{PPR} = A_{ps}f_{py} / (A_{ps}f_{py} + A_s f_y)$	
<b>Extreme Event Limit States</b>	
Extreme Event for Seismic Zones 3 & 4	
Compression members with flexure	
Factored axial load $\geq 0.20 f'_c A_g$	0.50
$0.20 f'_c A_g \geq$ Factored axial load $> 0$	Linear transition
Factored axial load = 0	0.90
All other cases	1.00

For Service and Extreme Event Limit States see [1.3.2 Limit States \(Resistance Factors\)](#)

See article 5.10.11.4.1b for concrete columns in Seismic Zones 3 & 4.