

Lateral Torsional Buckling Limit State Summary

SCM Section	L_p	L_r	M_p	M_r	$M_{n, \text{ Inelastic Range}}$ $L_p < L_b \leq L_r$	$M_{n, \text{ Elastic Range}}$ $L_r < L_b$
F2 & F3	Eq F2-5	Eq F2-6	$F_y Z_x$	$0.70 F_y S_x$	$\text{Min}[C_b(M_p - (M_p - M_r)(\lambda - \lambda_p)/(\lambda_r - \lambda_p)), M_p]$	Eq F2-3/4
F4	Eq F4-7	Eq F4-8	$R_{pc} F_y S_{xc}$	$F_L S_{xc}$		Eq F5-2/4
F5	Eq F4-7	Eq F5-5	$R_{pc} F_y S_{xc}$	$R_{pc}(0.7F_y)S_y$		
F9	----	----	Eq F9-2 or F9-3	----	Eq F9-4	

Where: L_b = Laterally Unbraced Length

