

BEAM DIAGRAMS AND FORMULAS

For various static loading conditions

For meaning of symbols, see page 2 - 293

AISC Beam Tables

1. SIMPLE BEAM—UNIFORMLY DISTRIBUTED LOAD



Total Equiv. Uniform Load	$= wl$
$R = V$	$= \frac{wl}{2}$
V_x	$= w \left(\frac{l}{2} - x \right)$
M max. (at center)	$= \frac{wl^2}{8}$
M_x	$= \frac{wx}{2} (l - x)$
Δ max. (at center)	$= \frac{5wl^4}{384EI}$
Δ_x	$= \frac{wx}{24EI} (l^3 - 2lx^2 + x^3)$

2. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO ONE END



Total Equiv. Uniform Load	$= \frac{15W}{8\sqrt{3}} = 1.0254W$
$R_1 = V_1$	$= \frac{W}{3}$
$R_2 = V_2$ max.	$= \frac{2W}{3}$
V_x	$= \frac{W}{3} - \frac{Wx^2}{l^2}$
M max. (at $x = \frac{l}{\sqrt{3}} = .5774l$)	$= \frac{2Wl}{8\sqrt{3}} = .1283Wl^2$
M_x	$= \frac{Wx}{3l^2} (l^3 - 3x^3)$
Δ max. (at $x = l \sqrt{1 - \sqrt{\frac{8}{15}}} = .5193l$)	$= .01304 \frac{Wl^4}{EI}$
Δ_x	$= \frac{Wx}{180EI l^4} (3x^4 - 10l^2x^2 + 7l^4)$

3. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO CENTER



Total Equiv. Uniform Load	$= \frac{4W}{3}$
$R = V$	$= \frac{W}{2}$
V_x (when $x < \frac{l}{2}$)	$= \frac{W}{2l^3} (l^3 - 4x^3)$
M max. (at center)	$= \frac{Wl}{6}$
M_x (when $x < \frac{l}{2}$)	$= Wx \left(\frac{1}{2} - \frac{2x^2}{3l^2} \right)$
Δ max. (at center)	$= \frac{Wl^4}{80EI}$
Δ_x (when $x < \frac{l}{2}$)	$= \frac{Wx}{480EI l^4} (5l^3 - 4x^3)^2$

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