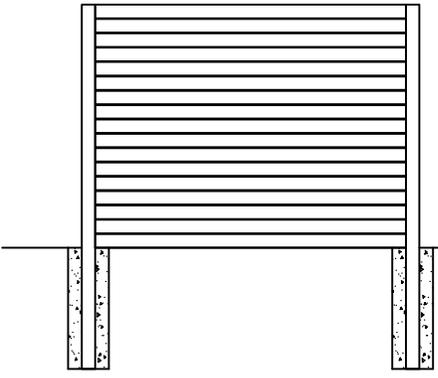
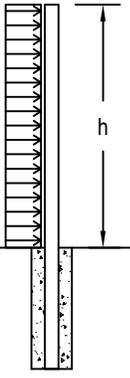


Different loadings all simplify to applying the wind force at post mid height

Fencing running horizontally



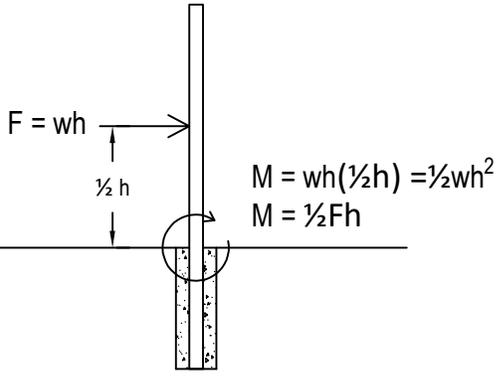
Distributed load to the post
 $w = x \text{ lbs / ft}$



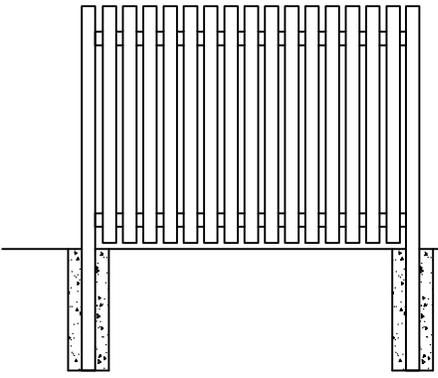
Bending moment at the bottom of the post
 $M = \frac{1}{2}wh^2$



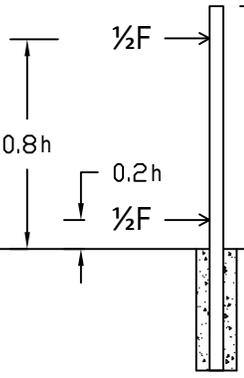
Equivalent bending moment from a point load at the mid-height



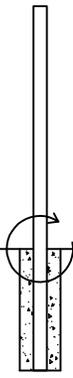
Horizontal rails w/ vertical fencing



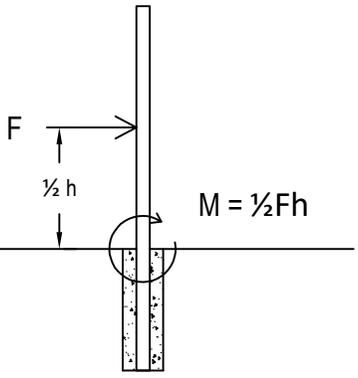
Point loads to the post



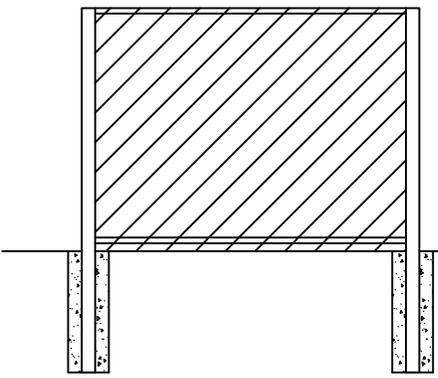
Bending moment at the bottom of the post
 $M = \frac{1}{2}F(0.2)h + \frac{1}{2}(F0.8)h$
 $M = \frac{1}{2}Fh$



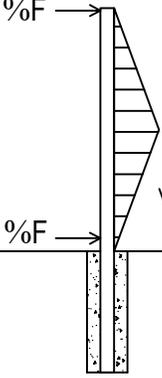
Equivalent bending moment from a point load at the mid-height



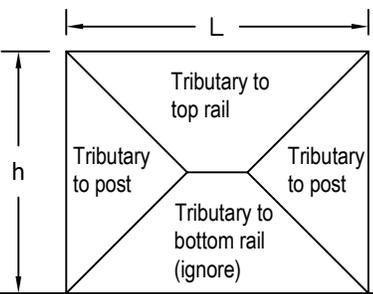
Flexible fencing (e.g. chain link)



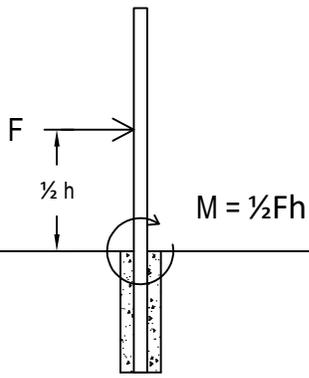
Point loads to the post



Complicated force distribution based on h, L, # of rails, etc



Equivalent to the total force applied at post mid height



Triangular distributed load from flexible fencing