

Cálculo de Chumbadores e fixação de Chaminés e Vasos de pressão

Conforme ASME STS-1–Steel Stacks

4.8 Anchor Bolts

4.8.1 Anchor Bolt Tension. Anchor bolts shall be designed to transfer all tension and shear forces to the foundation unless other methods are incorporated to accomplish this purpose. The maximum anchor bolt tension, F_b , may be determined from the following relation for circular sections sufficiently away from discontinuities:

$$F_b = \frac{4 M_b}{N D_{bc}} - \frac{P}{N} \quad (4-17)$$

F_b = anchor bolt tension force, lbf

M_b = moment at the base of the stack due to wind or earthquake loads, lbf-in.

D_{bc} = diameter of anchor bolt circle, in.

P = dead load of stack above elevation under consideration, lb

N = number of anchor bolts