COUNTERWEIGHT FORMULA

\[ W = \text{COUNTERWEIGHT} \]
\[ L = \text{LOAD CAPACITY OF HOIST} \]
\[ a = \text{ARM REACH} \]
\[ b = \text{BACKSPAN DISTANCE} \quad \text{(Distance between the fulcrum point and the center of the counterweights)} \]
\[ 4 = \text{Safety Factor (4:1)} \]

NOTE: Counterweights must be a nonflowable material, and they must be attached to the outrigger beam.

Always use taut tieback wire ropes capable of holding the full load.

\[ W = \frac{(La)4}{b} \]

PARAPET CLAMPS

Parapet clamps grip the parapet. The parapet holds the total weight of the suspended and the support systems and therefore can only be used with a parapet strong enough to take the load and large enough to fit the clamp.