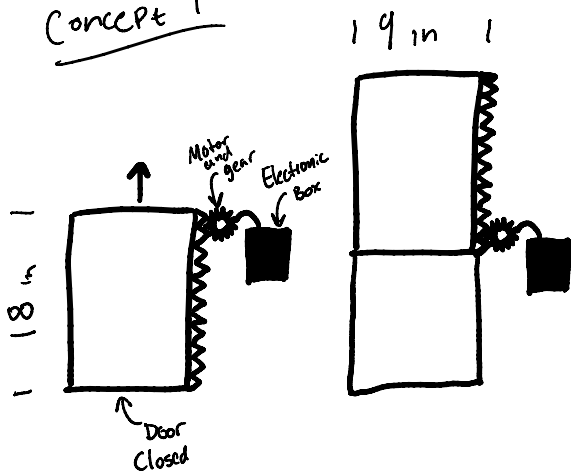
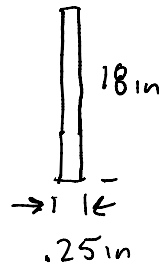


Concept 1



Electronic Box uses a functioning APP that allows the door to be controlled from anywhere with an internet connection



Mass = Density · Volume

$9 \text{ in} = 3.54331 \text{ cm}$
 $18 \text{ in} = 7.08661 \text{ cm}$
 $.25 \text{ in} = .0984252 \text{ cm}$

$1.0 \text{ g/cm}^3 \cdot 3.54331 \text{ cm} \cdot 7.08661 \text{ cm} \cdot .0984252$
 $= 2.464309409 \text{ g}$

$F = 2.464309409 \times 10^{-3} \times 9.81 = .0241748753 \text{ N}$