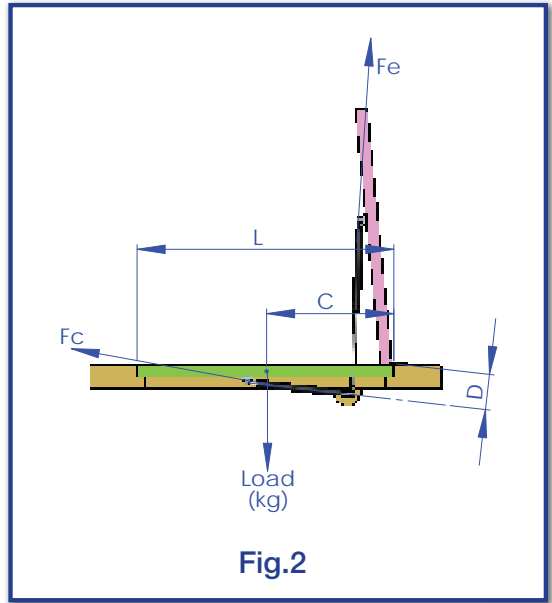
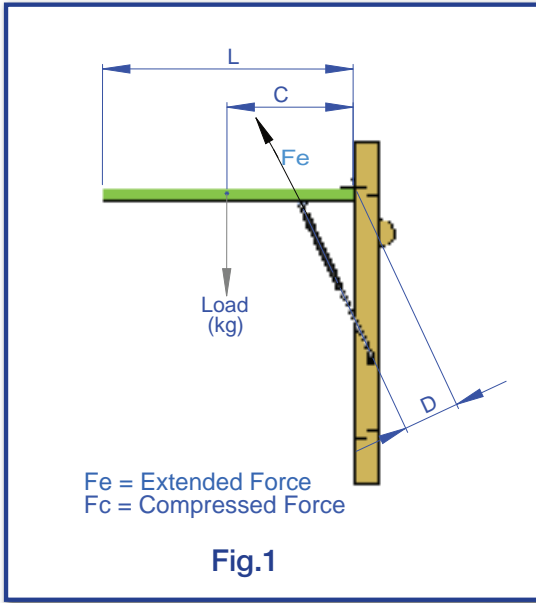


CALCULATION OF GAS STRUT FORCES



From Fig.1

$$F_e = \frac{\text{Load} \times 9.81 \times C \times 1.1}{D \times N}$$

From Fig.2

$$F_c = \frac{\text{Load} \times 9.81 \times C \times 0.9}{D \times N}$$

- L = Length of Door (mm)
- C = Distance from Centre of Gravity to Hinge (mm)
- D = Distance from Gas Strut to Hinge (mm)
- Load** = Weight of door (kg)
- N = Number of struts
- F_e = Strut Force (Extended) in Newtons
- F_c = Strut Force (Compressed) in Newtons