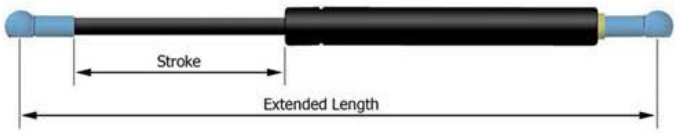
Strut Length Selection



Some of Our Standard Sizes

Stroke Length (mm)	Extended Length (mm)
60	195
160	405
210	500
260	605
300	700
360	795

We produce Gas Struts in four different diameters

Shaft size	Tube size
6mm	15mm
8mm	18mm
10mm	21mm
14mm	28mm

To calculate the size and the force of the Gas Strut you require for your application use the following guidelines.

The extended length of the Gas Strut should be approximately 60% of the door or hatch length - e.g. a 1000mm high door should have a Gas Strut length of approximately 600mm.

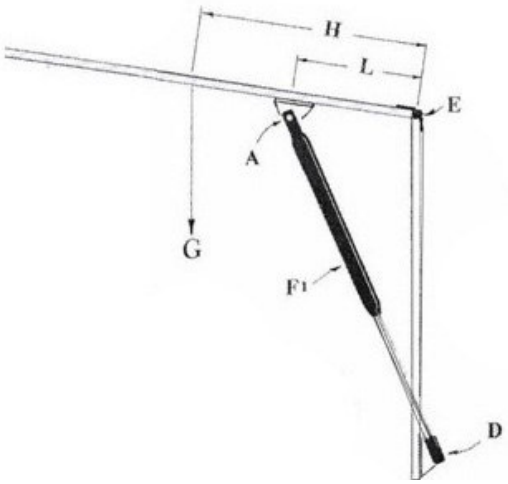
Once you have decided on the length of the Gas Strut, you need to calculate the force required by using the chart below (or use our Installation Calculation sheet):

L = Mounting distance from the hinge
H = Half the length of the door (e.g. door 1000mm long H would be 500mm)

G = Dead weight of door in Newtons (e.g. 1kg = 10 Newtons or 15kgs = 150N)

F = $\frac{G\ X\ H}{L}$ + 15% divided by the number of Gas Struts required

E.g. F = $\left(\frac{150*500}{250} + 15\%\right)$ divided by 2 =173N (Newtons)



Distance from hinge

Ext length	B
195	50mm
405	150mm
500	200mm
605	250mm
700	290mm
795	340mm