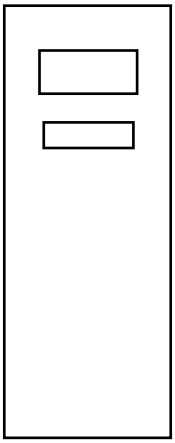
To know the weight of the device he make the calculations:

The density of the WOOD (DM) =

500 Kg/m^3



Front

Area:

L x H = 0.40 x 1.45 = 0.58 m^2

We need to subtract the holes:

L_1 x H_1 = 0.10 x 0.25 = 0.025 m^2

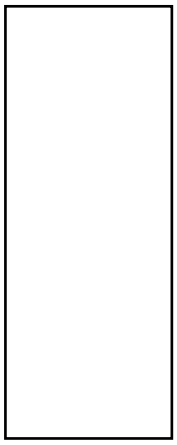
L_2 x H_2 = 0.16 x 0.25 = 0.04 m^2

Volume:

A x 0.02 = 0.0103 m^3

Weight:

500 Kg/m^3 x 0.0103 = 5.15 Kg



Laterals X2

Area:

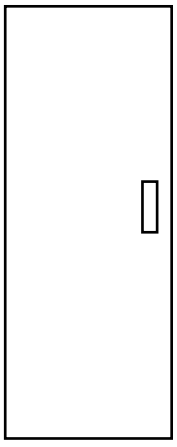
L x H = 0.28 x 1.45 = 0.406 m^2

Volume:

A x 0.02 = 0.00812 m^3

Weight:

500 Kg/m^3 x0.00812 m^3 = 4.06 Kg



Bottom

Area:

L x H = 1.41 x 0.36 = 0.5076 m^2

We subtract the hole:

L_1 x H_1 = 0.15 x 0.035 = 0.00525 m^2

Volume:

A x 0.02 = 0.010047 m^3

Weight:

500 Kg/m^3 x 0.010047 m^3 = 5.0235 Kg

Area:

L x H = 0.26 x 0.36 = 0.0936 m^2

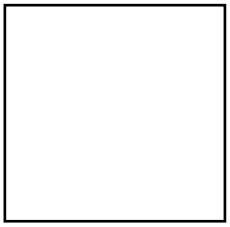
Volume:

A x 0.02 = 0.001872 m^3

Weight:

500 Kg/m^3 x0.001872 m^3 = 0.936 Kg

Top



Area:

$C^2 = 0.50^2 = 0.25$ m^2

Volume:

A x 0.02 = 0.005 m^3

Weight:

500 Kg/m^3 x0.005 m^3 = 2.5 Kg

Lower part

WEIGHT TOTAL:

Weight front + (Weight lateral X 2) + Weight Bottom + Weight Top + Weight Lower Part=

5.15 + (4.06 X 2) + 0.936 + 2.5 + 5.0235 =

21.73 Kg

This is the weight without shelves.