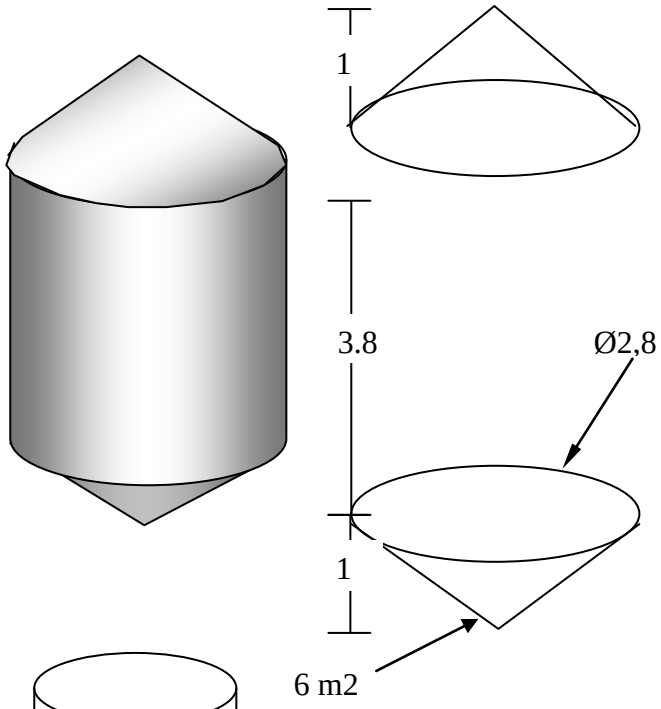
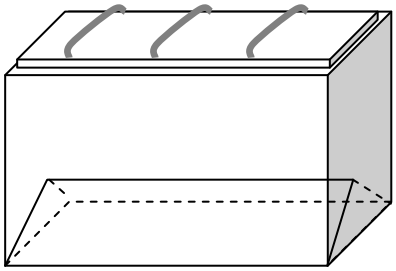
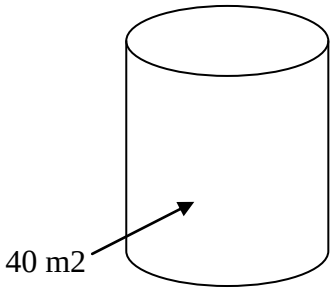
Grain storage



Silo capacity is 50m2

Field bin capacity : 9m^2
9,5 m^2 heaped



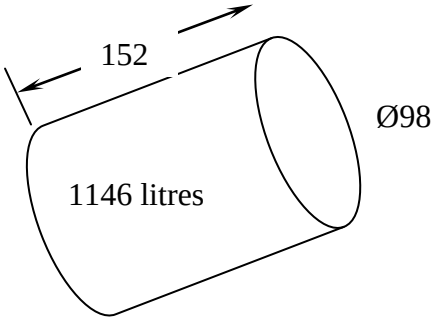


Grain weights

Triticale = 76 % of one tone
Field peas = 80% of one ton.
85%

The volume of a cylinder is 2 π r^2 h
The volume of a cone is 1/3(Area of Base)x(height) = 1/3 π r^2 h = 3.92145 m^2

3.92145 m2 for each cone
40.0929 m2 for the cylindrical body
47.9358 m2 total volume

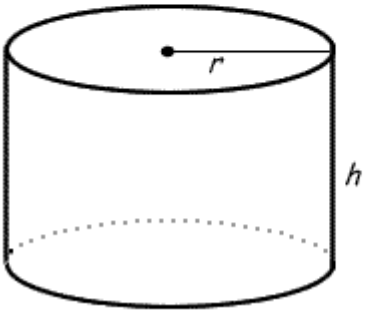


Cylinder

Surface Area — We will need to calculate the surface area of the top, base and sides.

Area of the top is πr^2
Area of the bottom is πr^2
Area of the side is $2\pi rh$

Therefore the Formula is: $A = 2\pi r^2 + 2\pi rh$



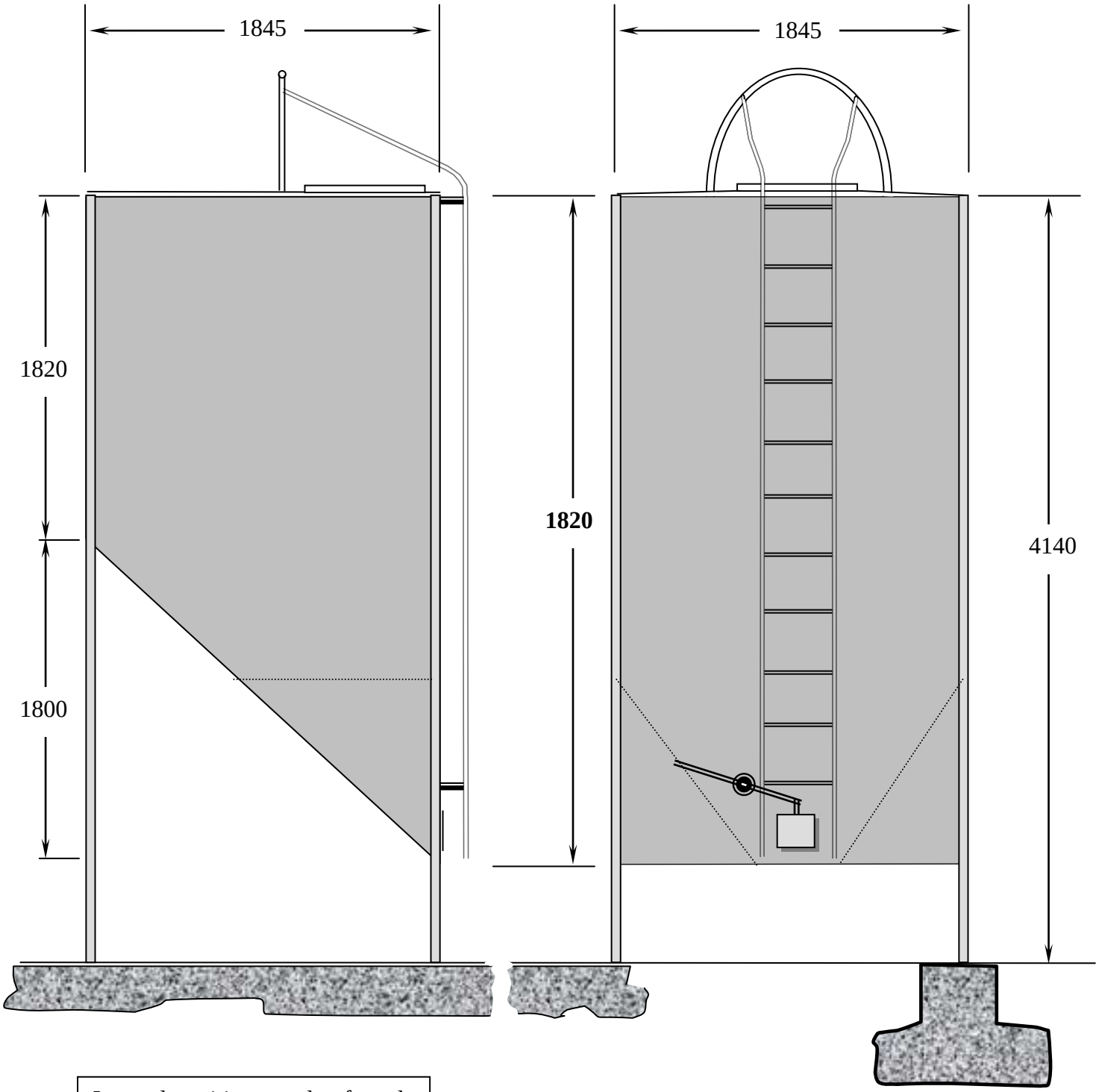
Volume $V = \pi r^2 h$

Feeding Trailer : 1146 m2, 870 kg wheat, 917 kg field peas. Based on weighing the grains on site.

Square Silo

Volume 8.65 m^3

Capacity 7.65 m^3 (when allowing for a conical top (300mm from top when levelled))



Internal partitions used to funnel the grain to the center hatch excludes a volume of 0,6m^3