

TANK SIZE CALCULATOR

Insert your building's data in the yellow boxes.

From the roof area off your property, you assess the amount of water available, and equate it to the amount you will use.

1 Main Building area

Building width (metres)

10

Building depth(metres)

5.5

Rain Collection Area 1 (square metres)

55

2 First extension/conservatory/porch/garage/shed etc

width (metres)

Depth (metres)

Rain Collection Area 2 (square metres)

0

3 Second extension/conservatory/porch/garage/shed etc

width (metres)

Depth (metres)

Rain Collection Area 3 (square metres)

0

4 Third extension/conservatory/porch/garage/shed etc

width (metres)

Depth (metres)

Rain Collection Area 4 (square metres)

0

5 Calculate the area of any remaining useful roofs as a figure in square metres and enter directly in the yellow box to the right

6 TOTAL of collectable roof areas (square metres)

55

7 Rainfall per year in your area (cms). Use rainfall chart on sheet 2, a figure between 60 and 170.

64

8 Collectable rainwater per annum (in litres - discounted by 20% to account for water loss) (YIELD)

28,160

9 Use of water in the building

Washing machine and toilet flushing are the main usage for rain water in domestic systems. Add an allowance for daily garden use.

Number of people in the house

6 people

Number of clothes washing cycles per day (50 litres each)

1.50 75

Number of toilet flushes per day (4.42 flushes per person, average 5 litres each)

27 133

Outdoor use per day (minimum 5 litres per person per day)

or adjust till F46 = F35 more or less

30

10 Amount of water you require every day

238

Amount of water you require every year (DEMAND)

86,724

11 How many days drought protection do you need? Enter a number in the box to the right, typically 21

21

12 Capacity of water storage in litres required for drought protection

4,990

The lesser of YIELD (8) or DEMAND (10) per annum

28,160

Therefore, volume of rainwater storage required

1,620

13 Is there sufficient roof water available (CONCLUSION):

NOT ENOUGH ROOF WATER

14 Tank size required - either, in the bestselling Carat range,

Use a 2700 litre Carat tank

or, in the shallow-dig tank range,

Use a 3000 litre shallow tank

or, in the Rondus range,

Use a 2000 litre Rondus tank

or, if your tank is going to be above ground, in the Balmoral range...

Use a 2600 litre Balmoral tank

15 Cross check with the British Standard BS 8515:2009

Based on British Standard BS 8515, the rainwater tank must be big enough to hold 5% of the annual rainwater yield, or 5% of the annual non-potable water demand, whichever is the lesser. The figures below serve as a check against the tank size recommended above.

5% of annual rainwater yield (in litres)

1,408

5% of annual non-potable water demand in the home (in litres)

4,336

To be conform to BS8515, tank must hold at least ... (in litres)

1,408

Tank size required from RainWaterHarvesting (BSI requirement):

Use a 1500 litre tank