



## The CAN Rating System

The Rating System was developed to show how effective a rainwater tank will be in Supplying 20% of an average domestic house over a two month period.

### The CAN system is a rating scale from 1 to 10

1 x equals 1 week supply of water at 150 litres per day

10 x represents 2 months supply of water at 150 litres per day

## LEGEND

- Watering symbol: Indicates how effective the tank is under the Rating System.
- Litres: Indicates the rainfall required to fill the tank from empty on a 100 sq. meter catchment area.
- Catchment: The system is calculated on a 10m x 10m roof catchment area (100 sq. meters).
- Minutes: How long a rainwater tank will last in comparison to time spent in a shower. The minutes allowed is based on the flow generated by a shower with an unrestricted shower rose.

## The Rainwater Tank CAN Rating System\*

The following tank rating would apply:

Tank litres	Can Rating	Days In use	Shower Time	Toilet Flushes	Rain to fill Tank
660		4.0	44 min	145	6.6mm
1000		6.0	66 min	220	10mm
1200		8.0	80 min	260	12mm
1575		10.0	105 min	350	16mm
2275		15.0	150 min	500	23mm
3300		22.0	220 min	730	33mm
4550		30.0	300 min	1000	45.5mm
5600		37.0	370 min	1240	56mm
7650		51.0	510 min	1700	76.5mm
9300		62.0	620 min	2060	93mm

\* The CAN Rating System is the property of Tankworld (Swan Hill) Pty Ltd and cannot be used without permission.



# The CAN Rating



Calculations based on average Melbourne rainfall and usage figures:  
For domestic tanks only.

## Average Collection Details

Average rainfall 750mm per year ex (CWW).  
Collection area of 100 sq (10m x 10M).

\*Estimated for collection from two down pipes.

1 sq.m x 1mm of rain	= 1 litre
10 sq.m x 25mm of rain	= 250 litres
50 sq.m x 25mm rain	= 1250 litres
100 sq.m x 25 mm rain	= 2500 litres

## Below figures based on 80% of possible catchment

75000 ltrs per year divided x 6 to establish a two month average use.

This equals 12500 litres per two month period.

12,500 litres x 80% (Possible Collection Loss) = 10,000 litres per two month period.

## Average Usage Details

Average House usage equals 260,000 litres per year (SEWL).

260,000lts x 20% (average toilet use) = 52,000 litres per year.

Divide 52,000 litres by 6 equals 8,666 litres per two month period.

Rounded to 9000lts divided by 60 days (approx two months) = 150 litres per day.

Average garden use = 150 lt per watering not including lawn (YVW).

## Here are some common average water requirements

Toilet	4.5 litres per flush
Shower	15 litres per minute
Lawn Sprinkler	15 Litres per minute
1/2" Tap	12/15 litres per minute
3/4" Hose & 1/4" Nozzle	40 litres per minute

Working on the understanding that based on the above,  
A full 9000ltr tank will represent a two month supply of either  
Garden watering or toilet flushing.

Codes: CWW (City West Water); SEWL (South East Water Authority); YVW (Yarra Valley Water Authority)  
Catchment conditional based on "A guidance on the use of rainwater tanks" D.A. Cuncliffe 1998.