

# Water Efficiency Calculator for new dwellings

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| Installation Type                          | Unit of Measure                                                                  | Capacity/Flow rate (1)           | Use Factor (2) | Fixed use (litres/person/day) (3) | Litres/person/day = [(1)x(2)] + (3) (4) |
|--------------------------------------------|----------------------------------------------------------------------------------|----------------------------------|----------------|-----------------------------------|-----------------------------------------|
| WC (single flush)                          | Flush Volume (litres)                                                            |                                  | 4.42           | 0.00                              | 0                                       |
| WC (dual flush)                            | Full flush Volume (litres)                                                       | 6                                | 1.46           | 0.00                              | 8.76                                    |
|                                            | Part flush Volume (litres)                                                       | 3                                | 2.96           | 0.00                              | 8.88                                    |
| WC (multiple fittings)                     | Average effective flushing Volume (litres)                                       |                                  | 4.42           | 0.00                              | 0                                       |
| Taps (excluding kitchen/utility room taps) | Flow rate (litres/min)                                                           | 8.00                             | 1.58           | 1.58                              | 14.22                                   |
| Bath (where shower also present)           | Capacity to overflow(litres)                                                     | 165.00                           | 0.11           | 0.00                              | 18.15                                   |
| Shower (where bath also present)           | Flow Rate(litres / minute)                                                       | 8.00                             | 4.37           | 0.00                              | 34.96                                   |
| Bath Only                                  | Capacity to overflow(litres)                                                     |                                  | 0.50           | 0.00                              | 0                                       |
| Shower Only                                | Flow Rate (litres/minute)                                                        |                                  | 5.60           | 0.00                              | 0                                       |
| Kitchen/Utility room sink taps             | Flow rate (litres/minute)                                                        | 5.00                             | 0.44           | 10.36                             | 12.56                                   |
| Washing Machine                            | (Litres/kg dry load)                                                             | 4.67                             | 2.1            | 0.00                              | 9.81                                    |
| Dishwasher                                 | (Litres/place setting)                                                           | 1.25                             | 3.6            | 0.00                              | 4.50                                    |
| Waste disposal unit                        | (Litres/use)                                                                     | <input type="checkbox"/> Present | 3.08           | 0.00                              | 0                                       |
| Water Softener                             | (Litres/person/day)                                                              |                                  | 1.00           | 0.00                              | 0                                       |
| (5)                                        | Total Calculated use (litres/person/day) =SUM(column 4)                          |                                  |                |                                   | 111.84                                  |
| (6)                                        | Contribution from greywater (litres/person/day)                                  |                                  |                |                                   | 0                                       |
| (7)                                        | Contribution from rainwater (litres/person/day)                                  |                                  |                |                                   | 0                                       |
| (8)                                        | Normalisation factor                                                             |                                  |                |                                   | 0.91                                    |
| (9)                                        | Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)         |                                  |                |                                   | 101.77                                  |
| (10)                                       | External water use                                                               |                                  |                |                                   | 5.0                                     |
| (11)                                       | Total water consumption (Building Regulation 17.K) = (9)+(10)(litres/person/day) |                                  |                |                                   | 106.8                                   |

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| Installation Type         | Make/Model (*mandatory)                                                                | Litres/Person/Day |
|---------------------------|----------------------------------------------------------------------------------------|-------------------|
| WC (dual flush)           | Orchard eden close coupled dual flush (victoria plumbing eco range) *                  | 17.64             |
| Taps                      | Orchard Wharf mixer taps (victoria plumbing eco range) *                               | 14.22             |
| Baths (shower(s) present) | Orchard round edge bath (victoria plumbing eco range) *                                | 18.15             |
| Showers (bath(s) present) | Aqualisa Q (victoria plumbing eco range) *                                             | 34.96             |
| Kitchen Taps              | Schon Eileen Mixer tap *                                                               | 12.56             |
| Washing Machines          | Fisher Paykel WM1490F1 9KG (42l per cycle/9kg =4.67 FR) Make/Model required (if known) | 9.79              |
| Dishwasher                | Make/Model required (if known)                                                         | 4.50              |
| Click here to confirm:    | <input type="button" value="CONFIRM"/>                                                 |                   |

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