

# Water Efficiency Calculator for New Dwellings (V1e)

## Project Details

|                    |                                               |                                    |          |
|--------------------|-----------------------------------------------|------------------------------------|----------|
| Address/Reference  | Flat 11, North Street Arcade, Havant, PO9 1PX | Case Reference                     | CEPCN308 |
| Number of Bedrooms | 1                                             | Occupancy for Calculation Purposes | 2        |

## Appliance/Usage Details

### Taps (Excluding Kitchen Taps)

| Tap Fitting Type            | Flow Rate<br>Litres/Min | Quantity<br>(No.) | Total per<br>Fitting type |
|-----------------------------|-------------------------|-------------------|---------------------------|
| Bathroom (Mixer)            | 6.00                    | 1                 | 6.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
| Total No. of Fittings (No.) |                         | 1                 |                           |
| Total Flow (l/s)            |                         |                   | 6.00                      |
| Maximum Flow (l/s)          |                         |                   | 6.00                      |
| Average Flow (l/s)          |                         |                   | 6.00                      |
| Weighted Average Flow (l/s) |                         |                   | 4.20                      |
| Flow for Calculation (l/s)  |                         |                   | 6.00                      |

### Baths

| Bath Type                     | Capacity to<br>Overflow | Quantity<br>(No.) | Total per<br>Fitting type |
|-------------------------------|-------------------------|-------------------|---------------------------|
| Bath                          | 200.00                  | 1                 | 200.00                    |
|                               |                         |                   | 0.00                      |
|                               |                         |                   | 0.00                      |
|                               |                         |                   | 0.00                      |
| Total No. of Fittings (No.)   |                         | 1                 |                           |
| Total Capacity (l)            |                         |                   | 200.00                    |
| Maximum Capacity (l)          |                         |                   | 200.00                    |
| Average Capacity (l)          |                         |                   | 200.00                    |
| Weighted Average Capacity (l) |                         |                   | 140.00                    |
| Capacity for Calculation (l)  |                         |                   | 200.00                    |

### Dishwashers

| Dishwasher Type                   | L per Place<br>Setting | Quantity<br>(No.) | Total per<br>Fitting type |
|-----------------------------------|------------------------|-------------------|---------------------------|
| Generic                           | 1.00                   | 1                 | 1.00                      |
|                                   |                        |                   | 0.00                      |
| Total No. of Fittings (No.)       |                        | 1                 |                           |
| Total Consumption (l)             |                        |                   | 1.00                      |
| Maximum Consumption (l)           |                        |                   | 1.00                      |
| Average Consumption (l/s)         |                        |                   | 1.00                      |
| Weighted Average Consumption (l)  |                        |                   | 0.70                      |
| Consumption for Calculation (l/s) |                        |                   | 1.00                      |

### Kitchen Taps

| Tap Fitting Type            | Flow Rate<br>Litres/Min | Quantity<br>(No.) | Total per<br>Fitting type |
|-----------------------------|-------------------------|-------------------|---------------------------|
| Kitchen (Mixer)             | 10.00                   | 1                 | 10.00                     |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
| Total No. of Fittings (No.) |                         | 1                 |                           |
| Total Flow (l/s)            |                         |                   | 10.00                     |
| Maximum Flow (l/s)          |                         |                   | 10.00                     |
| Average Flow (l/s)          |                         |                   | 10.00                     |
| Weighted Average Flow (l/s) |                         |                   | 7.00                      |
| Flow for Calculation (l/s)  |                         |                   | 10.00                     |

## Water Use Assessment

| Installation Type                    | Unit           | Capacity/<br>Flow Rate | Use Factor | Fixed use<br>(l/p/day) | Total Use<br>(l/p/day) |
|--------------------------------------|----------------|------------------------|------------|------------------------|------------------------|
| WC Single Flush                      | Volume (l)     | 0.00                   | 4.42       | 0.00                   | 0.00                   |
| WC Dual Flush                        | Full Flush (l) | 6.00                   | 1.46       | 0.00                   | 8.76                   |
|                                      | Pt Flush (l)   | 4.00                   | 2.96       | 0.00                   | 11.84                  |
| WC's (Multiple)                      | Volume (l)     | 0.00                   | 4.42       | 0.00                   | 0.00                   |
| Taps Exc. Kitchen                    | Flow Rate      | 6.00                   | 1.58       | 1.58                   | 11.06                  |
| Bath (shower present)                | (l/s)          | 200.00                 | 0.11       | 0.00                   | 22.00                  |
| Shower (bath present)                | (l/s)          | 8.00                   | 4.37       | 0.00                   | 34.96                  |
| Bath Only                            | (l)            | 0.00                   | 0.50       | 0.00                   | 0.00                   |
| Shower Only                          | (l/s)          | 0.00                   | 5.60       | 0.00                   | 0.00                   |
| Kitchen Taps                         | (l/s)          | 10.00                  | 0.44       | 10.36                  | 14.76                  |
| Washing Machines                     | (l/kgdry)      | 4.00                   | 2.10       | 0.00                   | 8.40                   |
| Dishwashers                          | (l/place)      | 1.00                   | 3.60       | 0.00                   | 3.60                   |
| Waste Disposal                       | (l/s)          | 0.00                   | 3.08       | 0.00                   | 0.00                   |
| Water Softner                        | (l/s)          | 0.00                   | 1.00       | 0.00                   | 0.00                   |
| Total Calculated Water Use (l/p/day) |                |                        |            |                        | 115.38                 |
| Grey/RainWater Reused (l)            |                |                        |            |                        | 0.00                   |
| Normalisation Factor (Factor)        |                |                        |            |                        | 0.91                   |
| Total Consumption CSH (l/p/day)      |                |                        |            |                        | 105.00                 |
| External Water Use Allowance (l)     |                |                        |            |                        | 5.00                   |
| Total Consumption Part G (l/p/day)   |                |                        |            |                        | 110.00                 |

Assesment Result

PASS

### Showers

| Shower fitting<br>Type      | Flow Rate<br>Litres/Min | Quantity<br>(No.) | Total per<br>Fitting type |
|-----------------------------|-------------------------|-------------------|---------------------------|
| Shower (Above bath)         | 8.00                    | 1                 | 8.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
|                             |                         |                   | 0.00                      |
| Total No. of Fittings (No.) |                         | 1                 |                           |
| Total Flow (l/s)            |                         |                   | 8.00                      |
| Maximum Flow (l/s)          |                         |                   | 8.00                      |
| Average Flow (l/s)          |                         |                   | 8.00                      |
| Weighted Average Flow (l/s) |                         |                   | 5.60                      |
| Flow for Calculation (l/s)  |                         |                   | 8.00                      |

### WCs

| WC Type  | Full Flush<br>Volume | Part Flush<br>Volume | Quantity<br>(No) |
|----------|----------------------|----------------------|------------------|
| Bathroom | 6.00                 | 4.00                 | 1                |
|          |                      |                      |                  |
|          |                      |                      |                  |
|          |                      |                      |                  |

|                                   |      |
|-----------------------------------|------|
| Total number of fittings          | 1    |
| Average effective flushing volume | 0.00 |

### Washing Machines

| Washing Machine<br>Type           | L per Kg<br>Dry Load | Quantity<br>(No.) | Total per<br>Fitting type |
|-----------------------------------|----------------------|-------------------|---------------------------|
| Generic                           | 4.00                 | 1                 | 4.00                      |
|                                   |                      |                   | 0.00                      |
| Total No. of Fittings (No.)       |                      | 1                 |                           |
| Total Consumption (l)             |                      |                   | 4.00                      |
| Maximum Consumption (l)           |                      |                   | 4.00                      |
| Average Consumption (l/s)         |                      |                   | 4.00                      |
| Weighted Average Consumption (l)  |                      |                   | 2.80                      |
| Consumption for Calculation (l/s) |                      |                   | 4.00                      |

### Other Fittings

|                             |   |
|-----------------------------|---|
| Waste Disposal Y/N          | N |
| Water softner               |   |
| Consumption beyond 4% l/p/d |   |

### Use of grey water and harvested rainwater

|                                       |        |
|---------------------------------------|--------|
| Total Grey water from WHB taps (l)    |        |
| Total Available Grey Water Supply (l) | 113.92 |
| Possible Demand (l)                   | 58.00  |
| Grey/Rain Installed Capacity (l)      |        |
| Figure for Calculation lit/person/day | 0.00   |