

WATER EFFICIENCY CALCULATOR - PER UNIT

Fitting	No.	Unit of measure	Indiv. Capacity / flow rate (1)	Cum. Capacity / flow rate (1)	Use factor (2)	Fixed use (3)	Total (Litres/person/day) (4)	Notes
WC (dual flush)	1	Single flush vol	0.00	0.00	4.42		0.000	Armitage Shanks Sandringham 21 Close coupled WC (WRAS Approval ref. Flush Valve - 1309069 Inlet Valve - NSF171723)
Basin taps	1	flow rate (L/min)	1.00	1.00	1.58	1.58	3.160	Pegler Ref. 4G4012
Shower	0	flow rate (L/min)	6.00	0.00	5.60		0.000	N/A
Bath (shower present)	0	Cap. To overflow	0.00	0.00	0.11		0.000	N/A
Sink/utility taps	1	flow rate (L/min)	0.00	0.00	0.44	10.36	10.360	Pegler Ref. 4G4099
W. Machine	0	L/kg load	5.90	0.00	2.10		0.000	N/A
Total calculated use (5)							13.520	As a guide total calc use (5) must not exceed $= (125 - 5) / 0.91 = 131.86\text{L/p/d}$
Contribution from grey water (6)							0.000	
Contribution from rainwater (7)							0.000	
Normalisation factor (8)							0.910	
Total water consumption (9) = [(5)-(6)-(7)] x (8)							12.303	PASS
External water use (10)							5.000	
Total water consumption ((Max. consumption 125 litres/person/day from B. Reg. 17.K) = (9) + (10))							17.303	

Therefore, building complies with approved Doc G, regulation 17K

Note:

1. Data for fittings obtained from <http://www.europeanwaterlabel.eu/findaproduct.asp?country=GB&category=&rating=&manufacturer=&order=>
2. Products which have been approved as a water efficient product are given a flow rate of 0.00L/min/volume of 0.00L, as per the guidelines.