

Below is in the inflow to the pump chamber and the pump is then discharging at 4.03l/s.

Calculation of Waste Water Flows for Drain Systems to BS EN 752-4:1997 Annex C & BS EN 12056-2:2000

No of units 1
Frequency Factor Table C1 0.7 kDU

Table C1	
Intermittent use, e.g. in dwelling, guesthouse, office	0.5
Frequent use, e.g. in hospital, school, restaurant, hotel	0.7
Congested use, e.g. in toilets and/or showers open to public	1
Special use, e.g. laboratory	1.2

DU values based on BS EN 12056-2:2000 Table 2 - System 1

Appliance	No of	DU App	DU Total	
Wash basin, bidet	7	0.5	3.5	
Shower without plug		0.6	0	
Shower with plug		0.8	0	
Single urinal with cistern		0.8	0	
Urinal with flushing valve		0.5	0	
Slab Urinal		0.2	0	0.2 per person
Bath		0.8	0	
Kitchen Sink		0.8	0	
Dishwasher (Household)		0.8	0	
Washing Machine up to 6kg		0.8	0	
Washing Machine up to 12kg		1.5	0	
Wc with 6.0 & 7.5 l cistern	7	2	14	
WC with 9.0 l cistern		2.5	0	
Floor Gully DN 50		0.8	0	
Floor Gully DN 70		1.5	0	
Floor Gully DN 100		2	0	
Sub Total/per Unit			17.5	

Total 17.5

Waste Water Design Flow = Freq Factor x (Total)^{1/2}

Waste Water Design Flow = 2.93 l/s