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Climate Change

The pipework will be designed with a 30% allowance provided for rainfall intensity to account for climate change [see drg dwe /10672-A-101 building regulations]

150mm dia pipework PVC pipework laid at 1:80 velocity 1.10m/s
discharge 19.44m/s

Foul Water

Pipework Roughness value k_s should be 1.50mm

Table 6 Recommended minimum gradients for foul drains

Peak flow (litres/sec)	Pipe size (mm)	Minimum gradient (1 in ...)	Maximum capacity (litres/sec)
< 1	75	1:40	4.1
	100	1:40	9.2
> 1	75	1:80	2.8
	100	1:80*	6.3
	150	1:150†	15.0

Notes:

* Minimum of 1 WC

† Minimum of 5 WCs

The pipework will be designed for a minimum gradient of 1:80 maximum capacity 6.3l/s