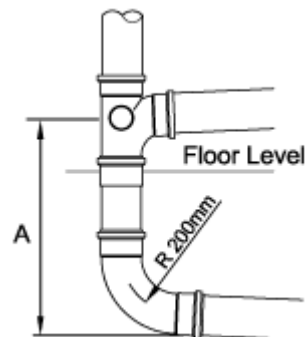


## Soil Stack Termination & Connection details

### Connections to Base of Stacks

The minimum vertical distances between connections to the stack and the invert of the underground drainage system are shown below:-



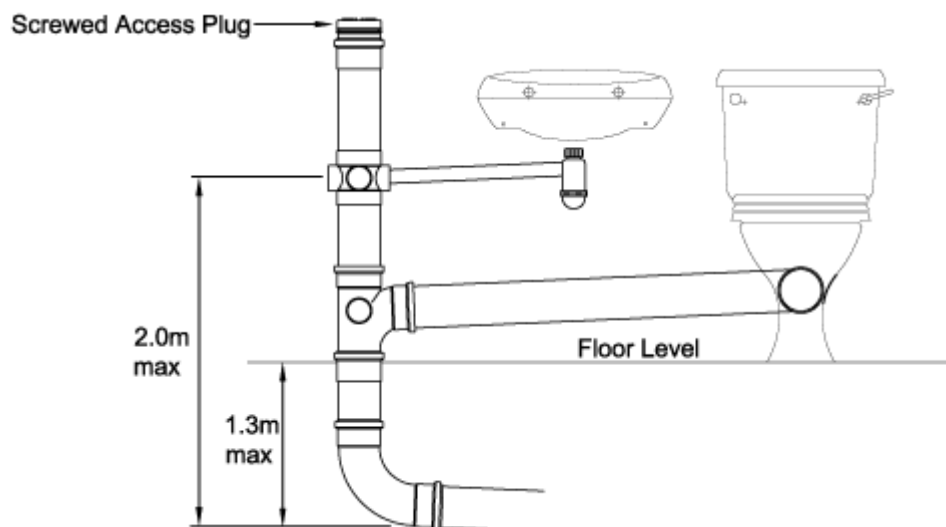
A = 450mm mm for buildings up to 3 storeys  
750mm mm for buildings of 4 and 5 storeys

For buildings between 5 and 20 storeys, the ground floor appliances should connect direct to drain or to their own soil stack.

For buildings over 20 storeys, both the ground and first floor appliances should connect to their own soil stack

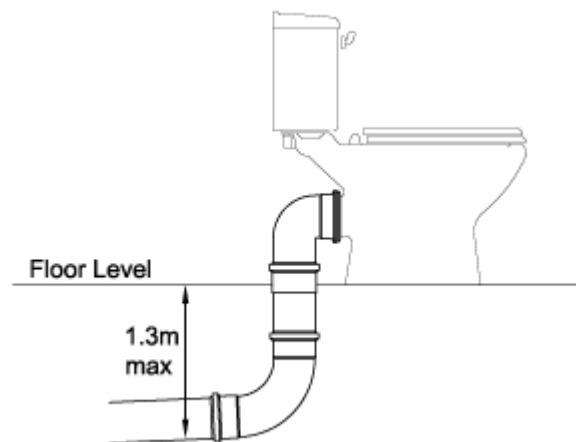
### Stub Stacks

For ground floor appliances, a short unventilated stack may be used, provided it discharges into a ventilated drain and distances do not exceed those shown in the diagram below. Stub stacks may also be used on upper floors where the discharge from the stack is to a ventilated soil stack.



## WC Connection Direct to Drain

A WC should only connect directly to the drainage system if the depth from floor level to the invert of the drain is less than 1.3m.



## Termination of Soil Stacks

Ventilating pipes open to outside air should finish at least 900mm above any opening into the building within 3m and should be terminated with a perforated cover fixed to the end of the pipe, which does not restrict the flow of air into the system.

The diameter of the stack should preferably remain constant throughout its length. However, a 110mm diameter soil pipe may be reduced to 82mm above the topmost connection without unduly affecting the airflow into the stack. The diameter of a vent pipe on a branch connection can be reduced to 50mm for a 110mm branch.

