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SECTION

"B"

SUBJECT

WASTEWATER

TREATMENT

Soil pipes and anti-syphon pipes

Soil pipes: A soil pipe is for

soiled water. This type of pipe will

carry water and solids into the sewer.

While any pipe could physically perform

the task, the soil pipe, also known as soil vent pipe, as installed in homes has a

specific quality. First is of dimension to

allow solid waste to pass - Second, it is

vented in very specific way to maintain

a safe environment and reduce odours.

Soil pipes are vented high at the top

or near the top of building, thanks to

soil pipe stacks, to allow gases produced

by wastes to vent safely into atmosphere

Such gases can be harmful to health

So venting them high keeps them out of way. this is a vital feature of soil pipes and forms part of building regulations too.

Anti-Syphon pipe:

An extra pipe connected to outlets of toilet seats of all floors, the other end of which is exposed to atmosphere is called anti-syphonage pipe. This difference air pressure causes water seal in the toilet seat to get sucked out into pipe.

An extra pipe connected to outlets of toilet seats of all floors the other end which is exposed to atmosphere is called anti-syphonage pipe. These are provided to maintain water seal so that foul gases of sewer line do not find entry into toilet or bathroom.

if we look into toilet seat we find some water at bottom, which remains there even after flushing. These are designed with a trap so that water remains in seats. The water is maintained to prevent entry of foul gases from toilet pipe / Soil pipe / sewer lines into toilet room. This is called water seal.

Sanitary fixtures by traps:

A receptacle for industrial and fecal sewage that is installed in homes and public and industrial buildings. Sanitary fixtures are installed in different areas.

Bathtubs, washstands, shower sumps, traps are installed in bathrooms, washrooms and shower rooms.

Traps are designed to the
restrictions of water contaminants
such as sledge, debris, oil, soil, sand
or gravel.

Part of traps: Pipe or drain called
inlet.

Water enters through it is called influent

Cross Connection:- Connection in plumbing
installation through which water may possibly
pass to or come in contact with another
part (as a water inlet in a bath tub
that may at times be below water level
of tub..

Back Siphonage Control:

One of type of backflow.

Back siphonage the flowing back of used, contaminated or polluted water from a plumbing fixture or vessel into a potable water from water supply because of negative pressure in pipe.

Branch - any part of piping system other than the main riser or stack.