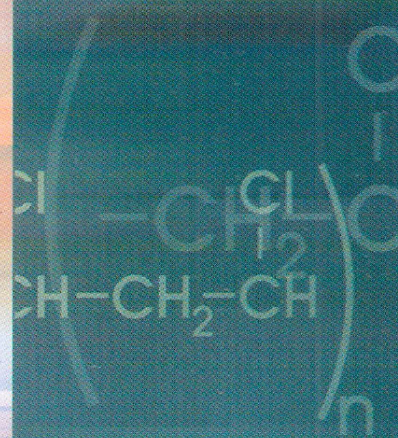
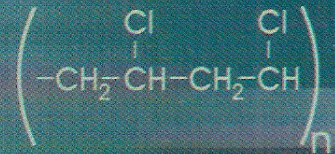


Karkan™

UPVC SWR PIPES
AND FITTINGS



UV Stabilised



ISI - 13592

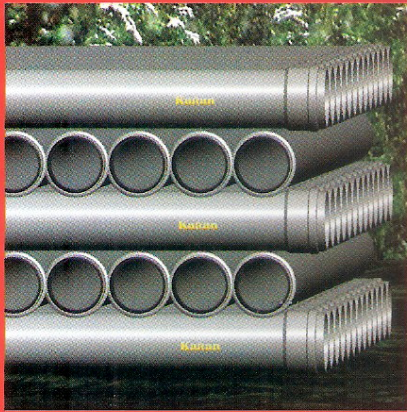


CM/L-5188372



INTRODUCTION:

Karan Polymers Pvt. Ltd. is the first company of West Bengal to introduce ISI Marked UPVC SWR pipes in the February 2003, thereafter they introduced SWR Drainage System in the most cost effective manner, keeping in mind customers satisfaction and value for money. The specially tested UV stabilised raw materials have been used to fight Ultra Violate rays of the Sun for longer life. Stringent quantity control and continuous endeavour for improvement has made 'KARAN' SWR Pipes & Fittings the most quickly accepted Brand. They are using the best technology available as on date to produce the Pipes.



SALIENT FEATURE OF KARAN UPVC SWR PIPES & FITTINGS :

1. Weather resistant upto -5° to $70^{\circ} \pm 2^{\circ}$ C
2. Thermal Stability- Proper care has been taken of thermal gap and expansion.
3. There is no problem of clogging & choking up of drain because of smooth inner surface.
4. Cleaning is easier as the system consists of threaded door cap.
5. Fire resistant and self-extinguishing.
6. It is non- corrosive an immune to galvanic or electrolyte erosion.
7. At the compounding stage special treatment is done to make it Rodent Repellent.
8. It lasts long as more than life time.
9. Convenient in different aspects like installation, transportation and handling etc..
10. It is Aesthetically far superior to the conventional CI and AC system.

GENERAL PROPERTIES :

Most varieties of chemicals, effluents & aggressive soil are unable to make any considerable effect on Karan SWR Pipes & Fittings - However care must be taken for use of chlorinated hydrocarbon, ketones and other with leads. These pipes are corrosion free and have high impact strength hence not susceptible to mechanical damage in normal handling and transportation.



Polyvinyle Chlo

Polyv

Polyvinyle

Chloride

RANGE :

The Pipes conform to IS- 13592/1992. **KARAN Pipes** have a minimum thickness of 1.8mm, 2.2mm and 3.2 mm for sizes 75 mm, 110 mm and 160 mm respectively. It is also available in 10,6,4,3 & 2 feet length in single socket and double socket.

WATER MOVES IN A STREAM :

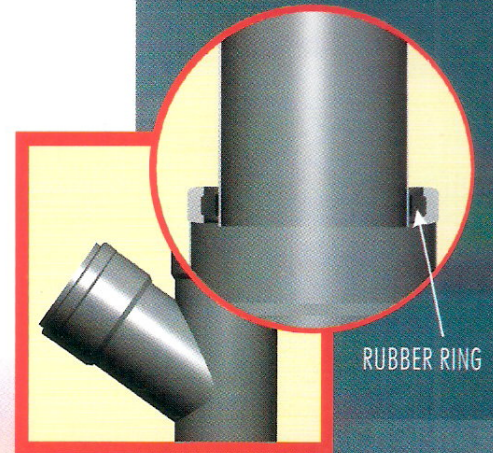
KARAN SWR Pipes and Fittings have quite satisfactory flow rates because of exceptionally smooth inner surface as a result question of clogging, choking up of drain does not arise.

THERMAL EXPANSION & CONTRACTION :

Considering basic properties of Co-efficient of Thermal Expansion of UPVC, **Karan SWR Pipes and Fittings** have taken care of nominal expansion and contraction effect by providing special type rubber rings.

CONVENIENT :

KARAN SWR Pipes and Fittings are extremely light in weight & provided with special rubber jointing technique, installation procedure becomes much easier. Jointing can be done in seconds with a specially designed Rubber Ring which virtually eliminate the possibility of leakages.



ECONOMICAL :

Karan SWR Pipes & Fittings is very cost effective and indeed economical to other conventional system.

extremely light
extremely light in weight

extr

Weather resista

-5° to 70° ± 2° C

-5° to 7

KaRan uPVC SWR RANGE OF FITTINGS

Bend 45°



Coupler



Reducer



Plain 'Y'



Door 'Y'



Cleansing Pipe



Plain Tee (Single)



Plain Bend 87.5°



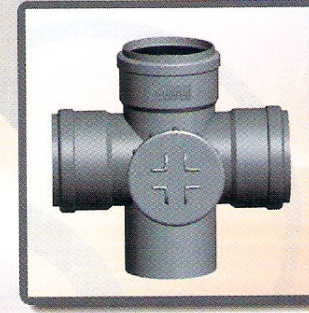
Door Bend 87.5°



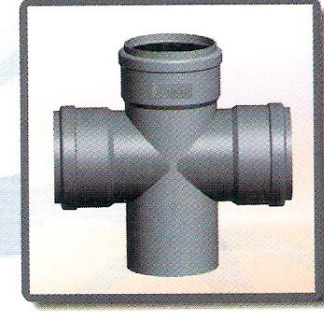
Door Tee (Single)



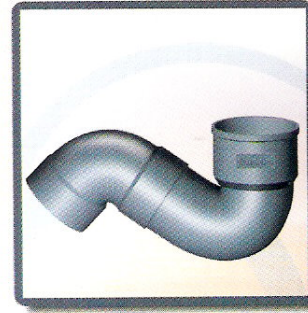
Door Tee (Double)



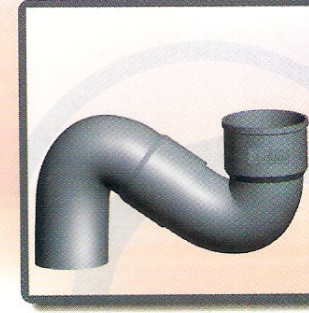
Plain Tee (Double)



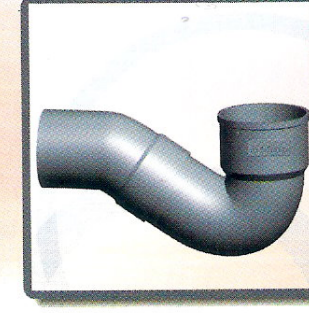
Q - Trap



S - Trap



P - Trap



Nani Trap



KaRaN uPVC SWR RANGE OF FITTINGS

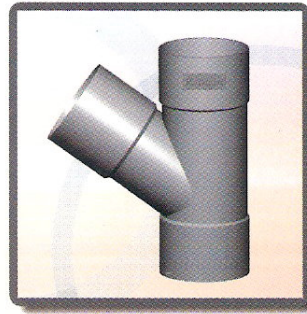
Plain Elbow



Door Elbow



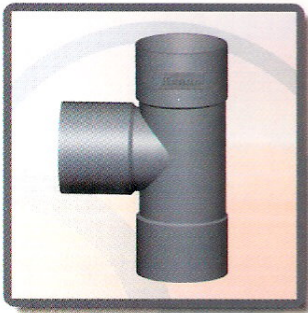
Plain 'Y'



Door 'Y'



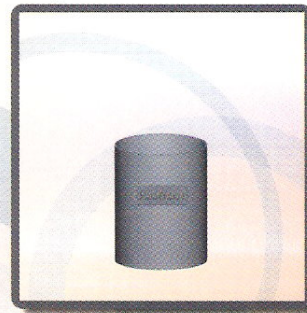
Plain Tee



Door Tee



Coupler



Bend 45°



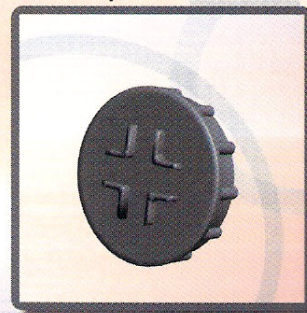
Reducer



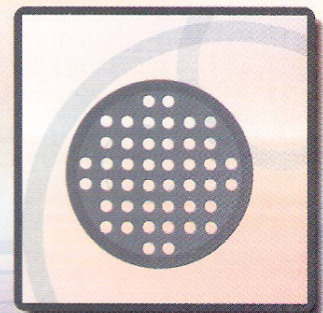
Service Saddle



Door Cap



4" Round Jali



Vent Cowl

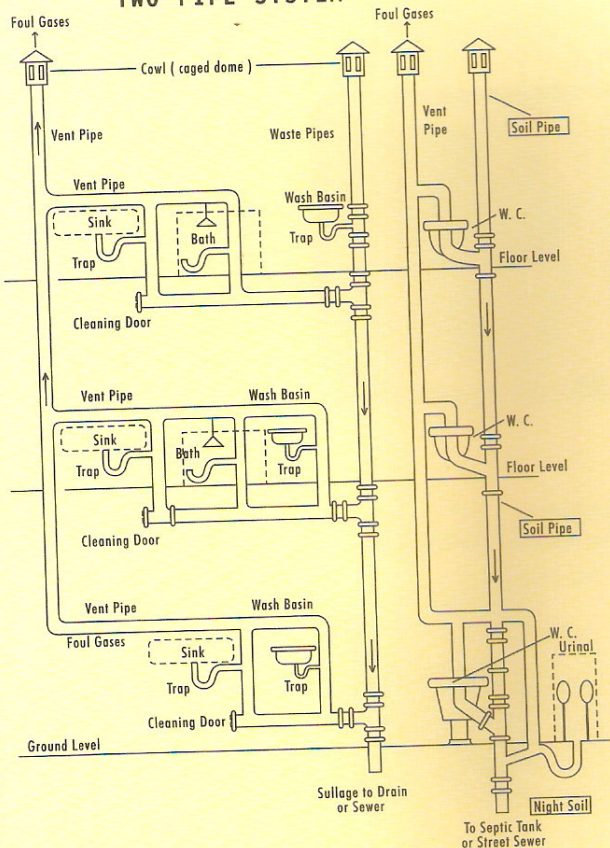


Pipe Clip

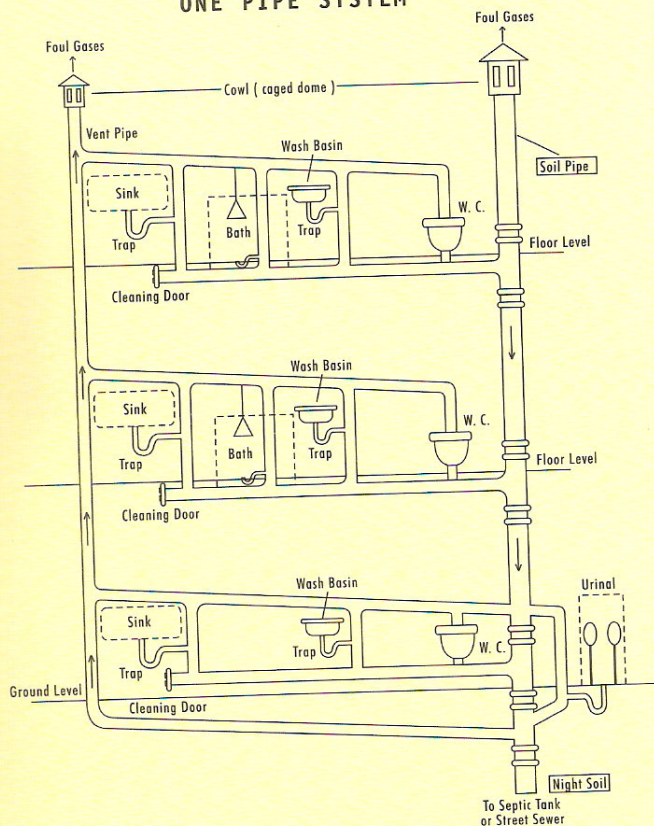


SANITATION SYSTEM

TWO PIPE SYSTEM



ONE PIPE SYSTEM



TWO PIPE SYSTEM :

This is the best and most advantageous type of sanitation system. In this system two sets of vertical pipes are laid, one for draining of night soil and the other for draining waste matter.

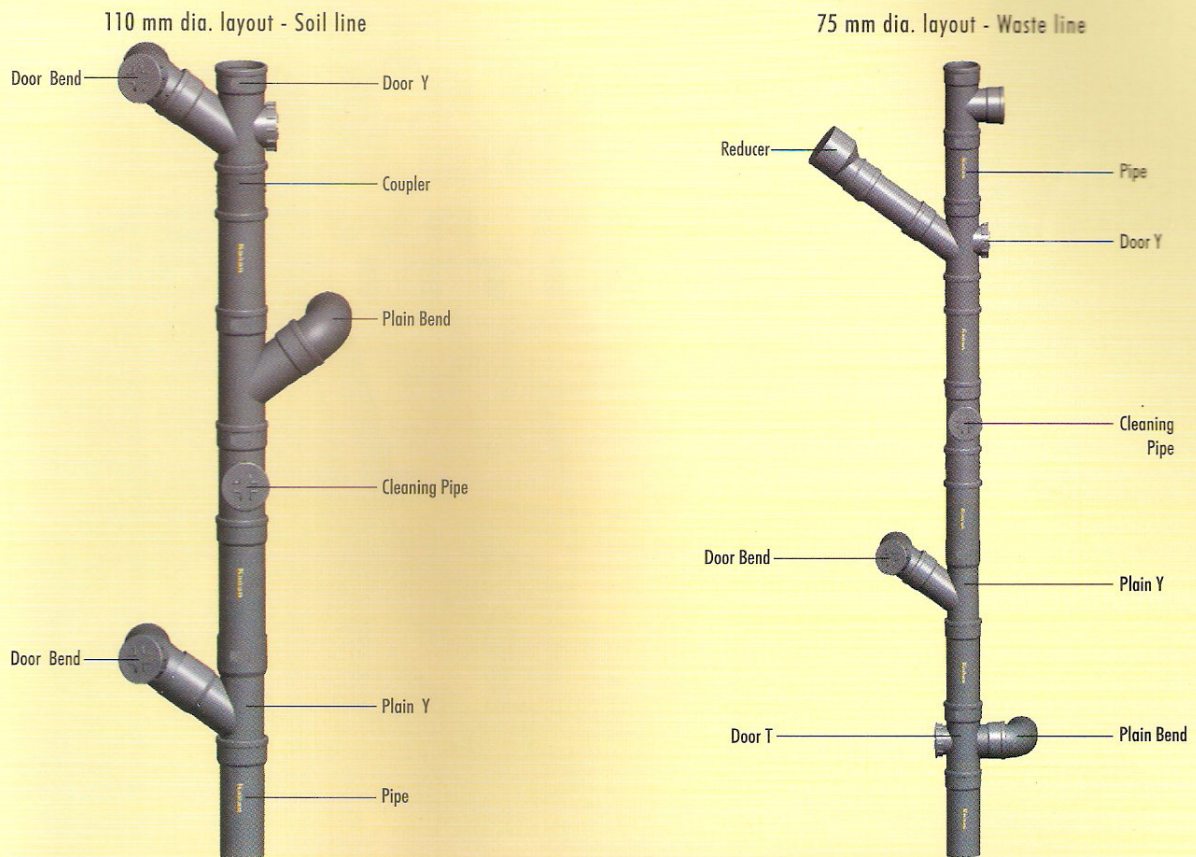
The soil fixtures such as latrines and urinals are all connected through the branch pipes to the vertical soil pipe (110 mm size), whereas the sullage fixtures such as baths, sinks and wash basins are all connected through the branch pipe to the vertical waste pipeline (75 mm size).

It is recommended to ventilate both these lines by a separate vent pipeline to prevent accumulation of foul gases. This system involves four different pipelines and is suitable for large housing schemes.

ONE PIPE SYSTEM :

In this system instead of using two separate pipe for carrying soil and waste matter as is done in two pipe system, only main vertical pipe is provided to collect night soil and waste matter from the respective branch pipe. This main pipe is ventilated by provided a cowl on the top. However, an additional vent pipes may also be provided. This system involves two different pipelines and is suitable for small housing schemes.

A TYPICAL SANITATION SYSTEM

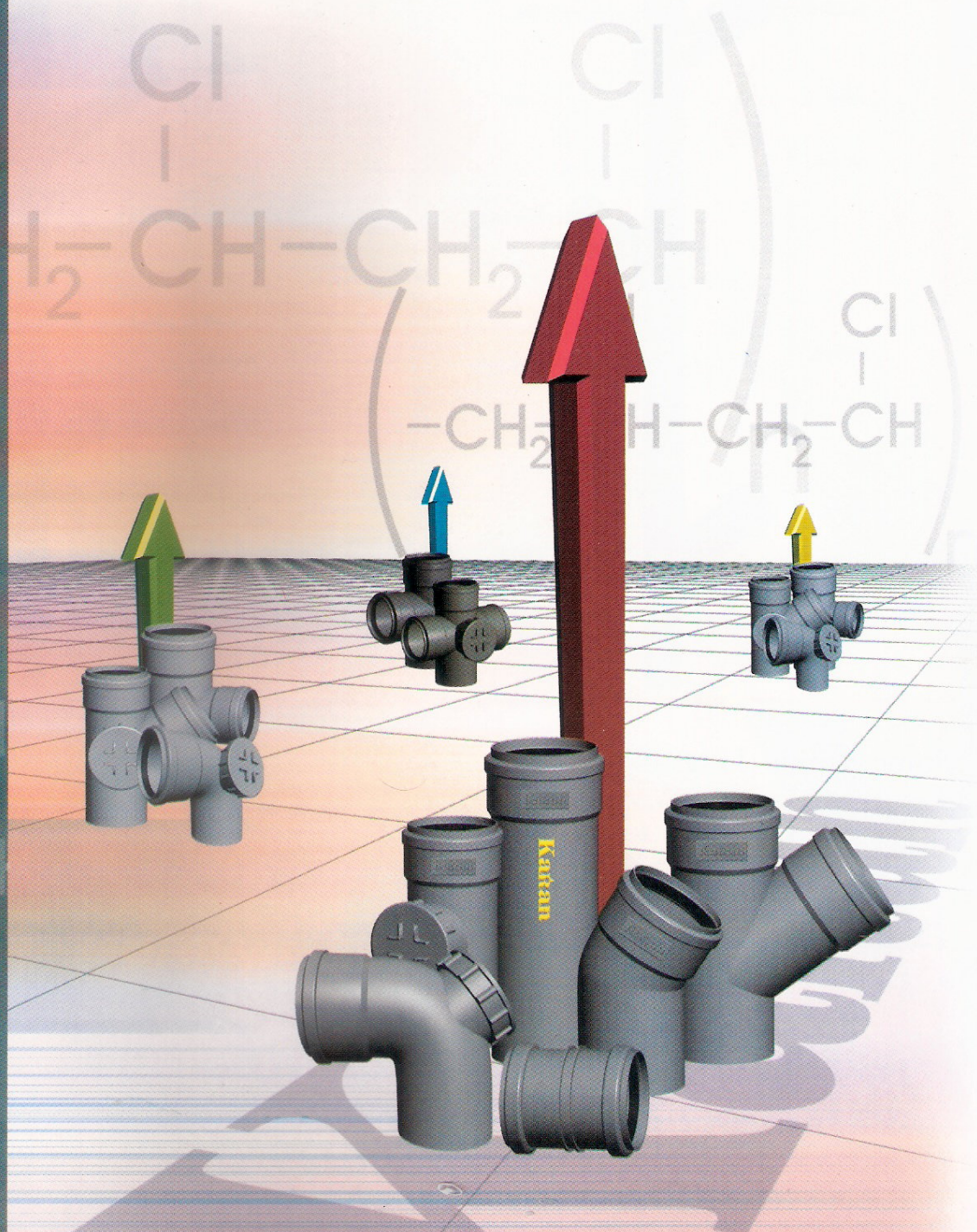
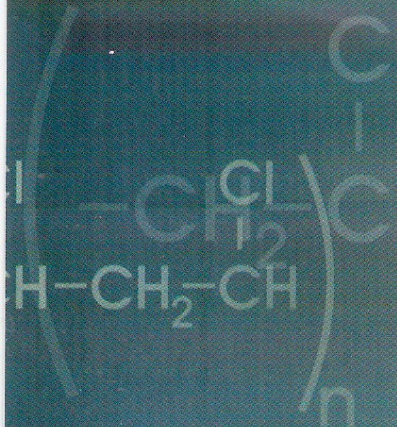
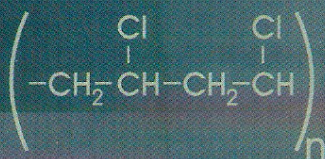


Some Guide Lines :

1. Karan UV Stabilized UPVC Pipes with rubber ring should be used because it is observed uPVC pipes (non-UV stabilised) when joint with solvent cement and exposed to sun-rays / weather tends to become brittle and brownish & naturally the joints get opened
2. Rubber lubricant is must for joining SWR Pipes & Fittings when rubber ring is used .
3. Door Caps should never be over tightened. Placement of rubber ring is must.
4. Diagonal cutting of pipe must be avoided to prevent leakage.
5. 10mm gap between all pipes and fittings is to be maintained keeping in mind thermal Expansion and contraction of pipes. It increases life of the system.
6. Precaution must be taken with water seal trap to avoid mixing of soil & waste line.
7. Smoke test is not at all advisable.

SERVICE ASSURANCE

Karan is committed to satisfy their customer with quality, products and services. Karan maintains qualified personnel to provide require assistance to their valued clients



KaranTM

UPVC SWR PIPES AND FITTINGS

KARAN POLYMERS PVT. LTD.

AN ISO 9001 COMPANY

29, STRAND ROAD, 3RD FLOOR, KOLKATA - 700 001

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E-mail : karan@cal3.vsnl.net.in