



**STRONG &  
LIGHTWEIGHT  
uPVC DRAINAGE  
SYSTEM**

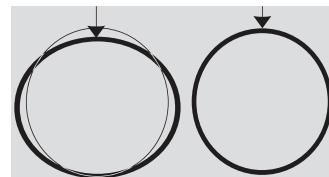
## STRONG & LIGHTWEIGHT DRAINAGE SYSTEM WITH A PVC FOAM LAYER

### WHAT ARE FOAMCORE PIPES?

Foamcore pipes are multilayer pipes having outer and inner layers of conventional PVC and middle layer of foamed PVC. Outer and inner layers are designed to withstand the load and middle layer of foamed PVC gives rigidity and maintains the shape of the pipe under the load. It reduces the total weight of the pipe and makes it light when compared to solid wall PVC pipes.

### WHY FOAMCORE PIPES?

The pipe on the left is typical of solid wall PVC under the load and the type of distortion normally expected. The Foamcore pipe on the right, under equal load, distributes the load more evenly and does not show the same amount of distortion, as it has unique "I-Beam" structure. Due to its ability of absorbing the load,



Foamcore pipes are the most suitable for underground drainage systems, where soil exerts a lot of pressure on the pipe surfaces. In solid wall pipes this soil pressure will rupture the pipe after some time where Foamcore pipes give better life as foamed PVC layer will absorb pressure and make pipes "stress free" in working conditions.

### PRODUCT STANDARDS

Astral Foamcore pipes are manufactured as per Indian, European and International standards published under structure wall pipes for drainage as well as sewerage and are mainly based on stiffness classes. These specifications are very well adopted at global levels and are in use for more than 25 years.

IS:16098 (Part-1)

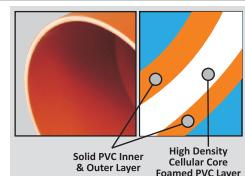


ONLY THOSE PRODUCTS BEARING  
 THE ABOVE MARKS ARE CERTIFIED

### UNIQUE FEATURES AND BENEFITS

"Foamcore" uPVC pipes are suitable for residential and commercial drain, waste & vent piping systems for both underground and above ground applications with top quality raw materials and state-of-the art processing technology, Astral Foamcore pipes meet all industrial standards in addition to our rigorous quality control standards.

- Lightweight & strong • Wide range & compatibility • Easy to install • Maximum flow rate
- Longer service life • Cost saving • Chemical and corrosion resistance
- Non-toxicity, non-conductor



## FIELDS OF APPLICATIONS

Drain and sewer systems in residences, commercial complexes, resorts, hospitals, academic institutes, industries etc.

## PRODUCT RANGE

Astral Foamcore pipes are available in 110 mm to 315 mm size, selfit and ringfit types with different stiffness classes mainly categorised as SN2, SN4 & SN8.

SN2 pipes are recommended for above ground applications while SN4 & SN8 pipes are recommended for below ground applications depending on the level at which these pipes have to be installed.

- OD 110 mm (11.0 cm) with stiffness class SN4 (SDR 41) & SN8 (SDR 34)
- OD 160 mm (16.0 cm), 200 mm (20.0 cm), 250 mm (25.0 cm) & 315 mm (31.5 cm) with stiffness class SN2 (SDR 51), SN4 (SDR 41) & SN8 (SDR 34)

## RINGFIT PIPES

Ringfit pipes are socketed on the automatic online socketing machine with a very high degree of accuracy. The socket has groove inside for rubber ring. The rubber ring ensures trouble-free watertight joint with allowance to thermal expansion / contraction. One end of the pipe is plain and another is self socketed with an integral groove to hold the rubber ring. When joined with a rubber ring, the joint formed is a trouble-free, watertight, ready to take care of thermal expansion / contraction.



AVAILABLE SIZES: 110 mm & 160 mm

## SELFIT PIPES

Selfit pipes are socketed on the automatic socketing machine with self socket length (without groove). Such pipes are to be joined with solvent cement. One end of the pipe is plain and the another is self socketed on sophisticated automatic machines for a high degree of accurate diameters. When joined using solvent cement, the pipes form a permanent watertight joint.



AVAILABLE SIZES: 110 mm, 160 mm, 200 mm, 250 mm & 315 mm

NOMINAL RING STIFFNESS (SN) (kN/m <sup>2</sup> )	2	4	8
DIMENSION RATIO (SDR)	51	41	34
NOMINAL DIAMETER (DN) (mm)	Wall Thickness (mm)		
110	-	2.7 + 0.5	3.2 + 0.5
160	3.2 + 0.5	4.0 + 0.6	4.7 + 0.7
200	3.9 + 0.6	4.9 + 0.7	5.9 + 0.8
250	4.9 + 0.7	6.2 + 0.8	7.3 + 1.0
315	6.2 + 0.8	7.7 + 1.0	9.2 + 1.2



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