

ECO-drain

Structured Wall Pipes for Drainage and Sewerage Application

The Supreme Industries Limited; has evolved as an undisputed leader in Indian Plastic Industry, with valuable experience in providing innovative and cost effective piping solution. The portfolio of comprehensive and exclusive range of Supreme plastic pipe products are designed and manufactured to meet and please, the highest standards set by the building and construction industry across the world.

The company is proud recipient of top exporter's awards in "plastic piping product" consecutively for many years. Due to its innovative range of products coupled with meticulous quality assurance, Supreme is referred to as " People who know plastics the best." In its endeavor to new product development, yet another excellent product is developed for underground drainage applications - the "Eco-drain" pipes.

Eco-drain pipes are not solid wall pipes but have a unique wall structure i.e. with a number of "holes" across the pipe circumference in longitudinal direction. As a result, the Eco-drain pipes are noticeably lighter and less expensive than any existing PVC pipes of similar stiffness and many times lighter than a concrete pipe, with equivalent load carrying capacity.

FEATURES AND BENEFITS :

Structural Strength - Eco-drain pipe is "Profile" wall pipe using I-beam construction. The I-beam construction provides eco-drain with a high moment of inertia and hence sufficiently durable to meet soil over load requirements.

High flow capacity / Hydraulics - Smooth internal surface minimises fluid friction and flow resistance for superior hydraulics and hence reduces the possibility of blockage. Long lengths of Eco-drain pipes reduces the number of joints and the potential for flow disturbances.

Watertight Joints - Unique design of joints with click ring and sealing ring assures completely leak-proof joints.

Great Flexibility - Due to the pipes being light weight and having longer lengths, installation becomes very convenient and fast.

Minimum installation expenses - Because of simple jointing technique, trench width can be kept minimum. Flatter gradients are possible because of high flow rates resulting from smoother bore of the pipes. This ensures good savings in the installation costs.

Excellent resistance to corrosion and chemical attacks -This system is completely free from corrosion and offers very good resistance to a wide range of chemicals.

Hygienic and Safe - Because of water tightness of the joints and trouble free performance without any blockage or leakage, high standards of hygiene are maintained.

Low Maintenance costs - The superior hydraulic properties of the product contribute to greatly reducing installation costs and the need for future maintenance.

Long Life - As pipe resists corrosion, sediment buildup and susceptibility to chemical reactions, the pipes are sufficiently durable.

Cost Effective - Apart from all the above stated benefits, Supreme eco - drain pipes are cost effective, as compared to the conventional pipes, over the life cycle.

MCGM Approved - looking at the benefits, MCGM has approved Eco-drain pipes



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Although PVC pipes offer many advantages mentioned above, it is yet not widely accepted amongst Indian consumers. This has been chiefly due to cost considerations as compared to conventional stoneware or R.C.C. Pipes. Now we are pleased to introduce a help product with improved technology i.e. pipes with all benefits of PVC, yet economical. This will increase the acceptance of the system and shall further penetrate the market mainly dominated by concrete and clay (stoneware) pipes.

UNIQUE WATERTIGHT JOINTS

Because of unique design of joints with fixed click ring and sealing ring, the system is completely leak-proof. Joints are stable, watertight and can accommodate angular deflection and axial displacement. Joints are designed to resist loads from horizontal and vertical forces. These joints can accommodate 3° angular deflection in any direction and hence offer good flexibility against lateral or vertical displacements. These joints are completely resistant to both internal and external water pressures. As low jointing force is required for joining, installation work with these pipes is very easy and fast.



FIELDS OF APPLICATION

Eco-drain pipes are suitable for Nu-drain underground drainage system comprising readymade inspection chambers, to make it further economical. Eco-drain pipes can be used for all underground drainage and gravity sewerage system, all rainwater collection, discharge and gravity systems, soil and waste systems inside the buildings and sewerage application.

APPLICABLE STANDARDS

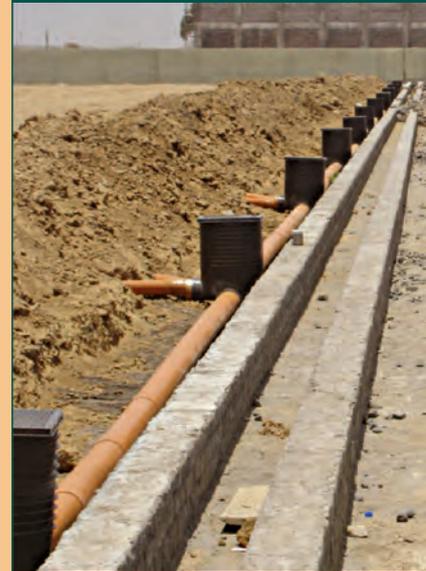
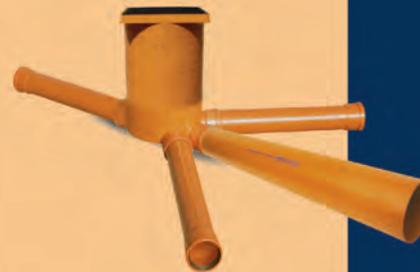
These pipes are made as per European and International standards for "Structured-wall pipes and fittings" i.e. EN 13476 for Underground Drainage and Sewerage.

These pipes meet the requirements of International Standards (comply to IS - 15328) and have equivalent stiffness and flexibility in combination with a weight reduction from 10% to 35%, depending on size. The pipes are plain ended and are available in 110 to 315 mm sizes. The pipes are available in different stiffness classes as given in the table below.

These pipes are interchangeable with solid wall pipes and are compatible with regular PVC fittings.

Dimensions and Stiffness class of Eco-drain pipes

Nominal Ring Stiffness SN (KN/m ²)	4	8
OD mm (D)	Wall thickness in mm	
110	----	3.50
160	4.30	----
200	5.60	----
250	6.50	----
315	8.00	----



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