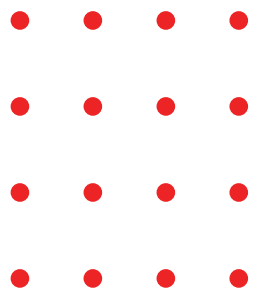
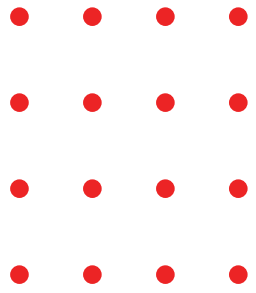




PIPES

Drain Deep, Stay Dry



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 www.ssdpipes.com

 info@ssdpipes.com

 Medipally, Uppal , Hyderabad



SSD Pipes, a brand under **Sai Sravanthi Enterprises**, is a trusted provider of advanced HDPE subsoil drain solutions tailored for modern infrastructure and construction needs. With a strong focus on quality, innovation, and performance, SSD Pipes designs and manufactures high-grade drain systems that effectively manage groundwater, prevent water accumulation, and enhance the longevity of structures.

Engineered using durable, high-density polyethylene (HDPE) materials, our drain pipes offer excellent strength, corrosion resistance, flexibility, and long service life, making them ideal for challenging environments. The thoughtfully designed perforation patterns ensure optimal water ingress while maintaining smooth flow for efficient discharge, reducing the risk of clogging or leakage.

SSD Pipes solutions are widely used across a range of applications, including retaining walls, highways, railways, tunnels, airports, landscaping, and sports infrastructure. By ensuring proper drain and soil stability, our products play a critical role in protecting structural integrity and minimizing maintenance costs over time.

Driven by a commitment to excellence and customer satisfaction, SSD Pipes continues to support infrastructure development with reliable, high-performance drain solutions.

SSD Pipes – Drain Deep, Stay Dry.



A BRIEF STORY ABOUT THE COMPANY

About Us

Sai Sravanthi Enterprises is a forward-thinking infrastructure solutions provider headquartered in Hyderabad, with a growing presence across Telangana, Andhra Pradesh, Maharashtra, and Odisha. Established in 2016, the company has built a strong reputation as a reliable engineering partner, specializing in high-performance Sub-Soil Drain Pipe (SSDP) systems tailored for Indian construction environments.

With a focus on efficient subsurface water management, Sai Sravanthi Enterprises delivers advanced HDPE drain solutions that offer excellent hydraulic performance, durability, and long-term reliability. The company's systems are designed to reduce hydrostatic pressure, enhance soil stability, and safeguard critical structures from water-related damage.

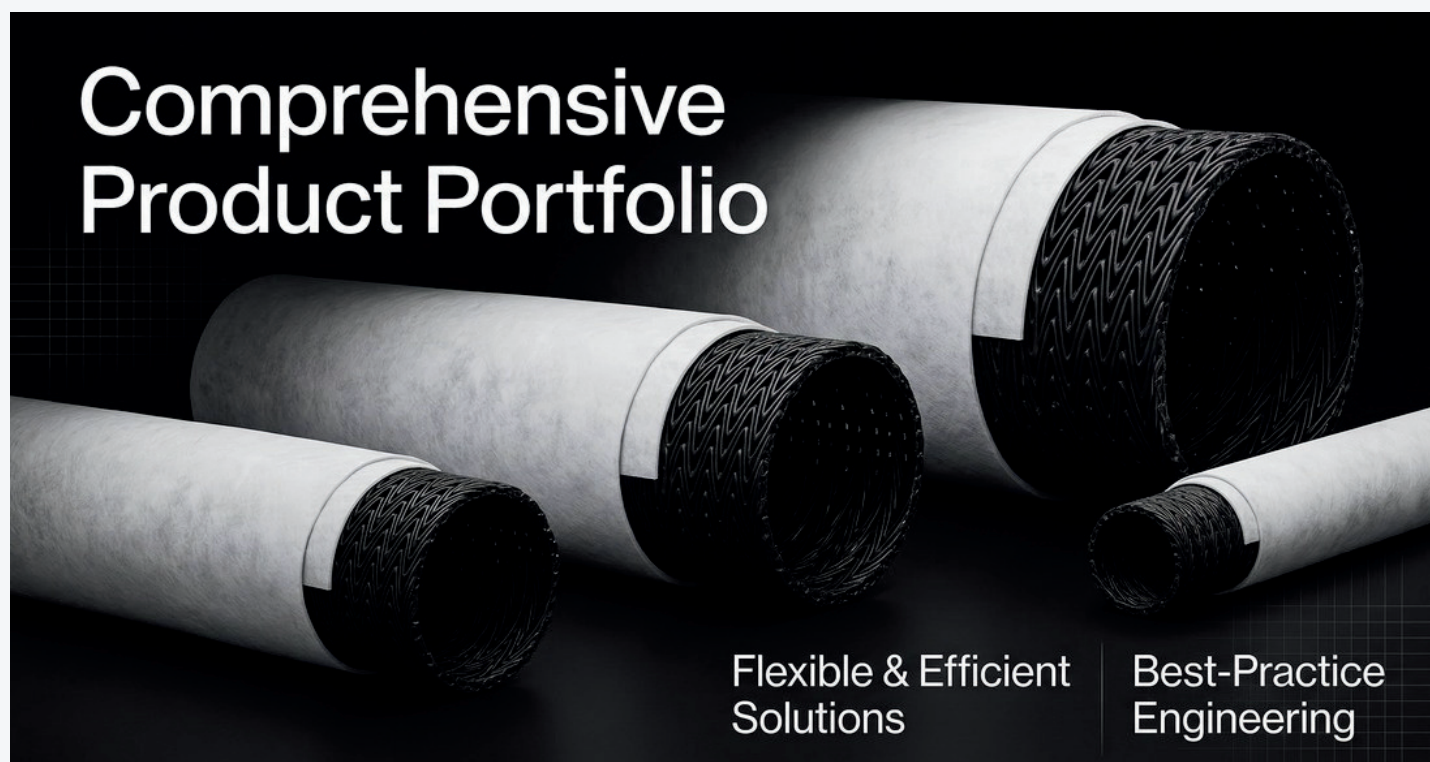
Backed by practical expertise and a commitment to quality, Sai Sravanthi Enterprises provides cost-effective, easy-to-install drain solutions widely used in retaining walls, basements, roads, railways, tunnels, airports, and landscaping projects. Known for consistent quality and dependable on-site performance, the company continues to support robust and sustainable infrastructure development.

CORE VALUES

- Integrity in Every Aspect of Our Business, we seek the trust of our clients and all professionals we work with.
- Innovation & Creativity, We always look for new ways of creating value and improving.
- Service Beyond Expectations, We learn from customers understand them and aim to exceed their expectations.
- Teamwork: We listen and learn from each other and work together to achieve outstanding results.
- Protecting the Environment, We respect the environment by reducing, recycling, and reusing our waste wherever and whenever possible and avoid using any harmful materials

PRODUCT OVERVIEW

SSD Pipes are high-density polyethylene (HDPE) sub-soil drain pipes engineered with a molded core integrated with a geotextile filter medium for efficient subsurface water management. The pipes feature a perforated and porous upper section that allows rapid groundwater ingress, while the impervious lower section directs collected water toward designated discharge points. Factory-cut slots in the molded core create effective pathways for water evacuation, ensuring high hydraulic efficiency. Manufactured in standardized circular sections of consistent length, SSD Pipes effectively control groundwater levels and mitigate water accumulation around retaining structures and foundation areas, thereby enhancing structural stability and long-term performance



SSD PIPES SUB-SOIL DRAIN PIPE – INTRODUCTION

At SSD Pipes, we deliver expert consultation tailored to the unique requirements of every project. Our approach focuses on understanding site-specific challenges and providing customized drain solutions that align with modern infrastructure needs.

We offer a comprehensive range of high-quality HDPE subsoil drain pipes, along with compatible fittings and accessories, serving clients across India. Our diverse product portfolio enables flexible and efficient solutions for applications across roads, railways, retaining structures, tunnels, and more.

Driven by best-practice engineering and project-specific design, every SSD Pipes system is optimized for performance, durability, and ease of installation. Beyond meeting standard requirements, our solutions are engineered to enhance the overall efficiency and reliability of drain systems—delivering long-term value through innovation and superior material quality.

SSD (SUB-SOIL DRAIN) PIPES

SSD Pipes are engineered with a precision-molded core integrated with a high-quality geotextile filter medium, enabling efficient subsurface water management. The pipes are factory-slotted to create a porous structure that allows rapid water ingress and effective drain. Supplied in standardized circular lengths, they ensure ease of handling and installation across project sites.

Approximately two-thirds of the pipe surface is perforated to facilitate maximum water entry, while the remaining lower section is non-perforated. This solid base ensures smooth flow of collected water toward designated discharge points, minimizing the risk of leakage and enhancing overall drain efficiency.

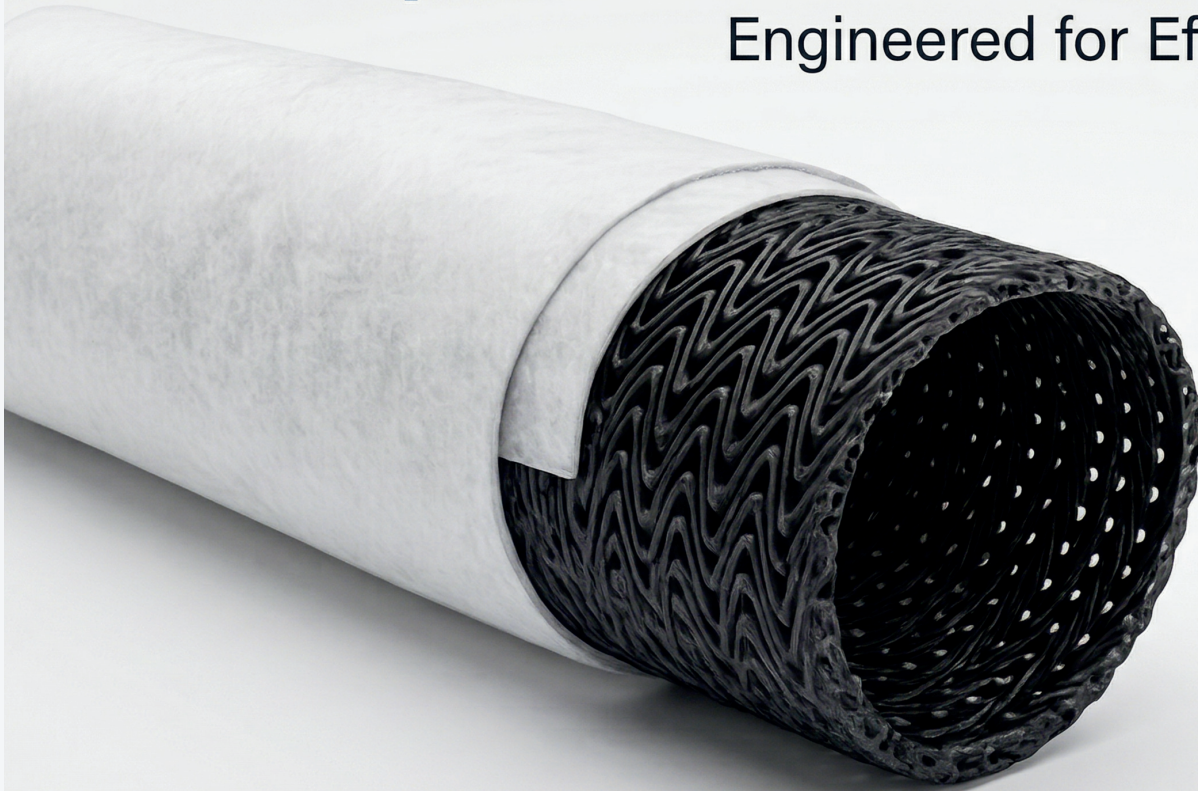
Designed for performance and durability, SSD Pipes offer high drain capacity, excellent compression strength, and strong resistance to alkali and acidic conditions. Their lightweight construction further simplifies transportation and installation, reducing time and labor costs.

With their innovative design, SSD Pipes enable maximum water infiltration and efficient groundwater removal. They are ideal for subsoil drain applications, effectively preventing water accumulation behind retaining structures, safeguarding foundations, and ensuring long-term structural stability.



SSD Pipes HDPE Subsoil Drain Pipes

Engineered for Efficient Water Removal



- High-Quality HDPE
- Excellent Durability
 - Flexible Design

ISO 9969:2016 Compliant

APPLICATION

APPLICATIONS OF SSD PIPE'S SUBSOIL DRAIN SYSTEM

SSD Pipes are engineered for efficient water removal in both underground and surface infrastructure applications. Manufactured from high-quality HDPE, they offer excellent durability, flexibility, and resistance to cracking, ensuring long-term performance even in demanding conditions.

Produced in compliance with ISO 9969:2016 standards, these perforated pipes deliver reliable structural strength and consistent quality. Designed for effective groundwater management, SSD Pipes systems are widely used across infrastructure projects where controlling water accumulation is critical to maintaining stability and performance.

RETAINING WALL DRAIN (VERTICAL & HORIZONTAL)

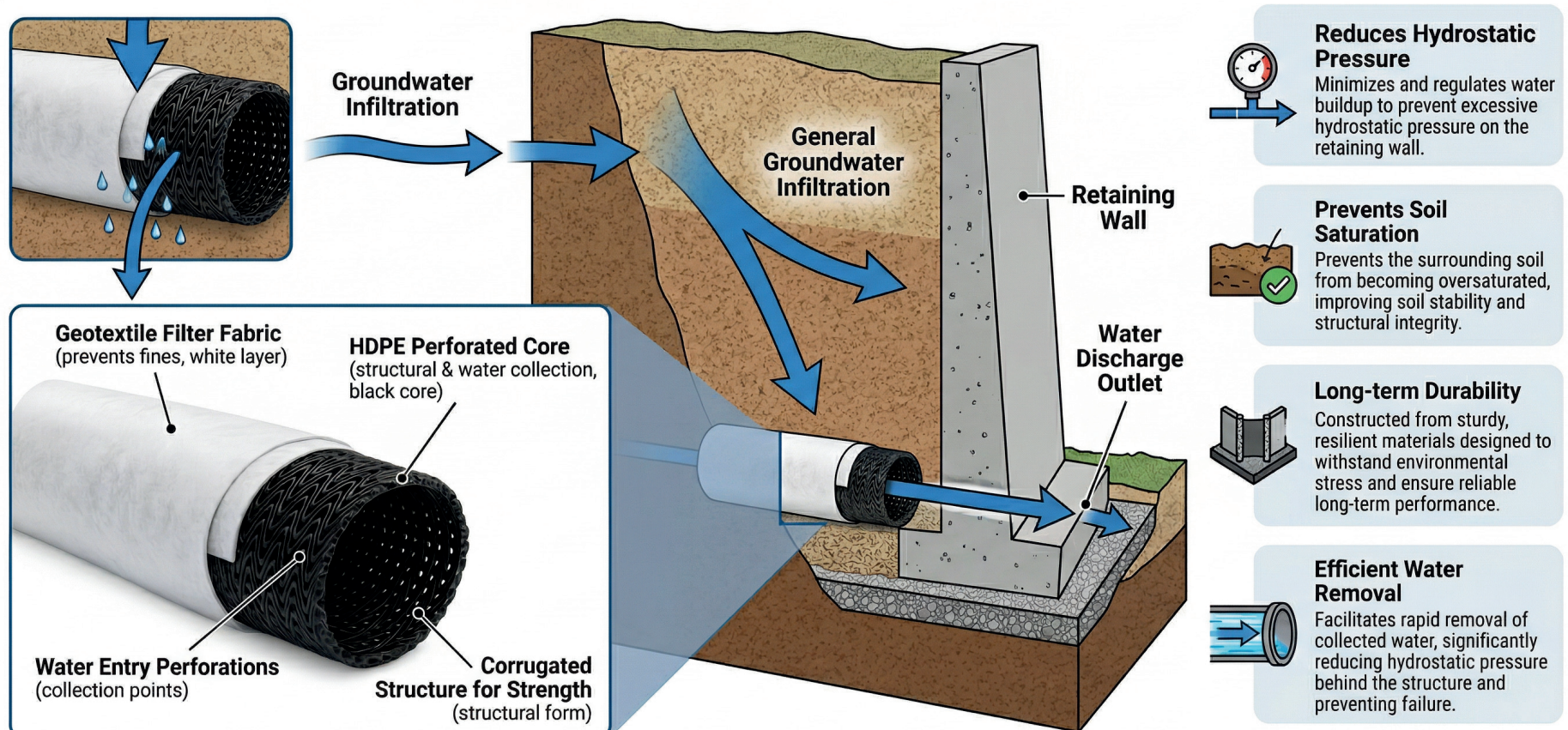
SSD Pipes Sub-Soil drain systems are specifically engineered to address this issue by providing an efficient and controlled pathway for water removal. Through a combination of vertical and horizontal drain methods, these systems intercept and collect groundwater before it can accumulate to critical levels. The perforated design allows water to enter quickly, while the non-perforated section ensures smooth and directed flow toward designated discharge outlets.

By effectively channelling water away from the retaining structure, SSD Pipes significantly reduce hydrostatic pressure and prevent soil saturation behind the wall. This not only enhances the immediate stability of the structure but also protects against long-term deterioration caused by water ingress, such as soil erosion, loss of bearing capacity, and material degradation.

Additionally, SSD Pipes systems contribute to improved construction efficiency and reduced maintenance requirements. Their durable HDPE construction ensures long service life, resistance to harsh environmental conditions, and consistent performance over time.

Overall, by preventing water build up and ensuring efficient subsurface drain, SSD Pipes play a vital role in enhancing the safety, reliability, and lifespan of retaining walls—making them an indispensable solution in modern infrastructure and geotechnical engineering.

UNDERSTANDING SSD SUB-SOIL DRAIN SYSTEMS IN RETAINING WALL APPLICATIONS

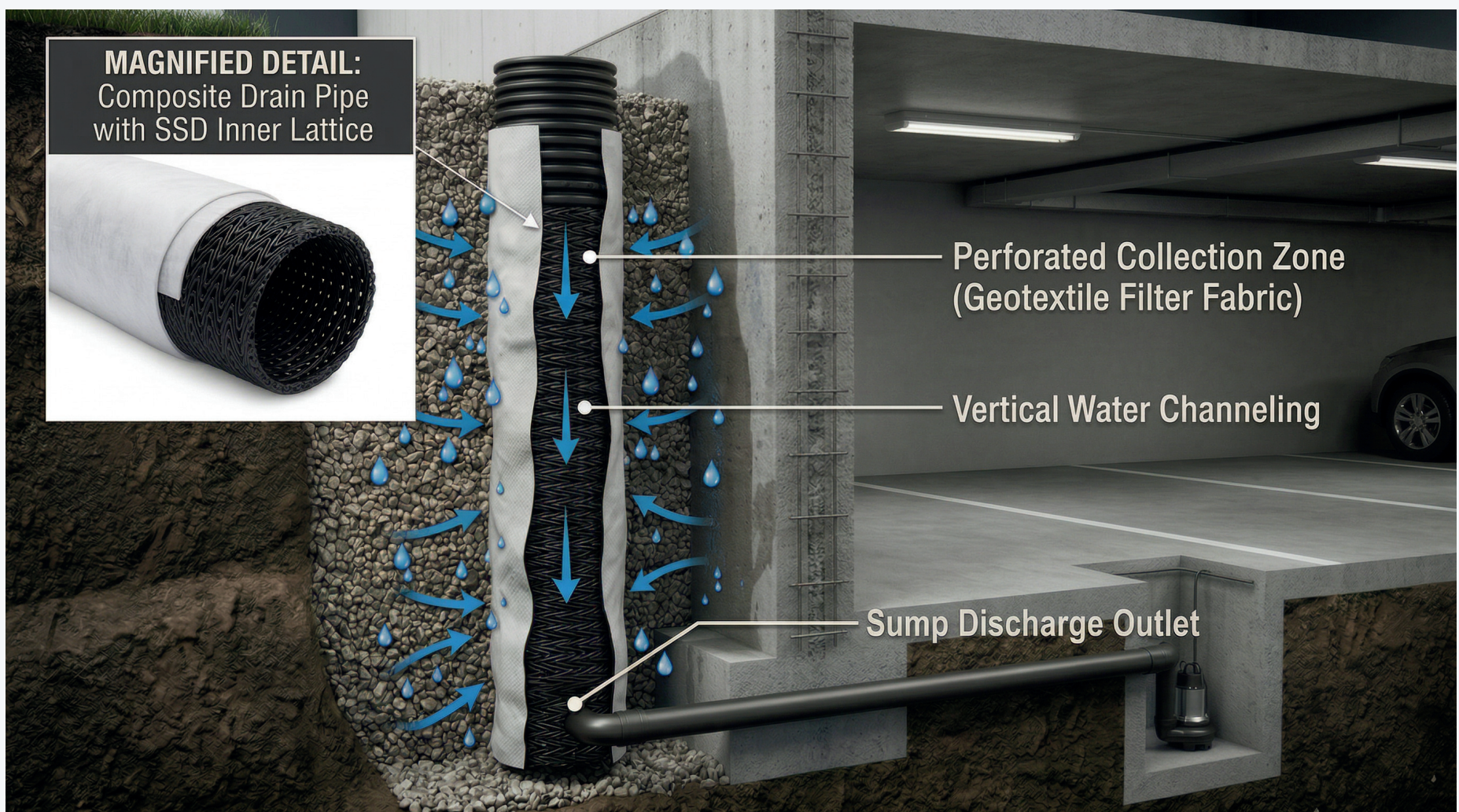


BASEMENT PARKING DRAIN

Basement parking areas are particularly vulnerable to groundwater seepage and water accumulation due to their below-ground level positioning. If not properly managed, this can lead to persistent dampness, waterlogging, structural deterioration, corrosion of reinforcements, and safety hazards such as slippery surfaces and mold growth.

SSD Pipes vertical drain systems are specifically designed to address these challenges by providing an efficient pathway for groundwater removal. Installed along basement walls or within drain layers, these systems collect infiltrating water and channel it vertically toward designated discharge outlets or sump systems. The engineered design ensures rapid water collection and smooth flow, preventing stagnation within the structure.

By effectively controlling groundwater ingress, SSD Pipes help maintain dry, clean, and safe basement environments. This not only protects the structural integrity of the building but also reduces long-term maintenance costs, minimizes repair requirements, and enhances the overall durability and usability of basement parking spaces.



ROAD, CURB & SOFT SOIL drain



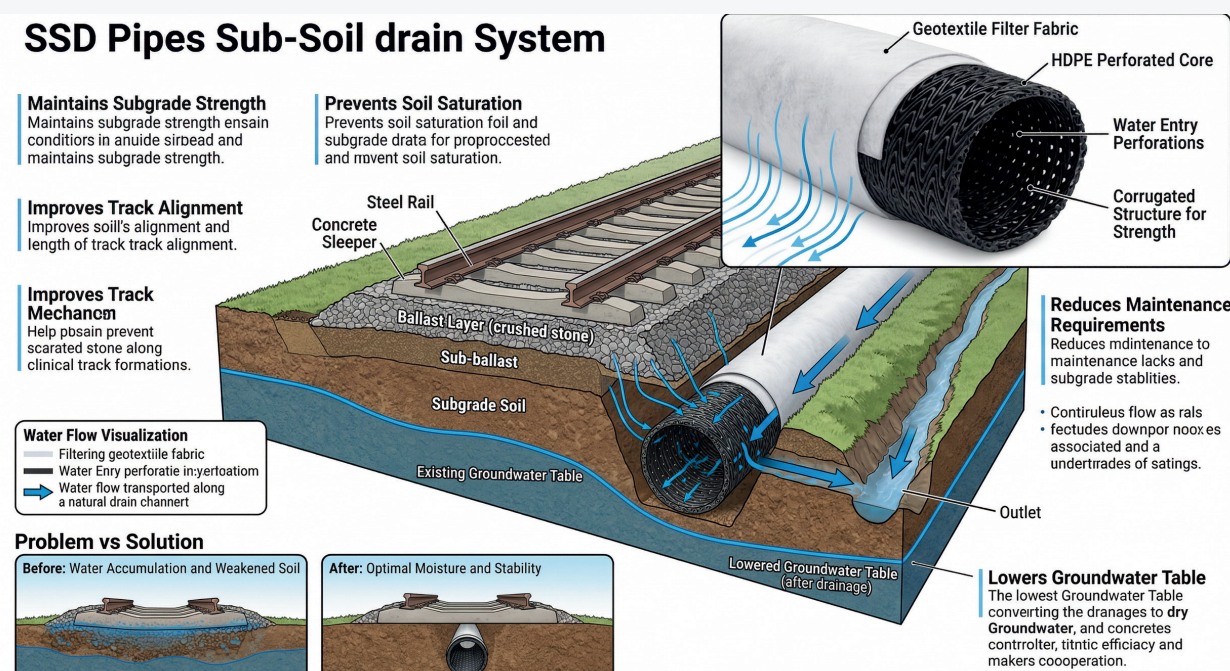
Road drain systems play a critical role in maintaining the structural integrity of roads and highways. Their primary purpose is to remove rainwater from the road surface and surrounding areas to prevent waterlogging and structural damage. SSD Pipes drain solutions support road infrastructure by efficiently collecting and transporting water through underground drain networks, ensuring:

- Proper surface runoff management
- Dry road structures and foundations
- Improved load-bearing capacity

A well-designed drain system ensures that water does not accumulate in road structures, which can otherwise lead to pavement damage and reduced road life.

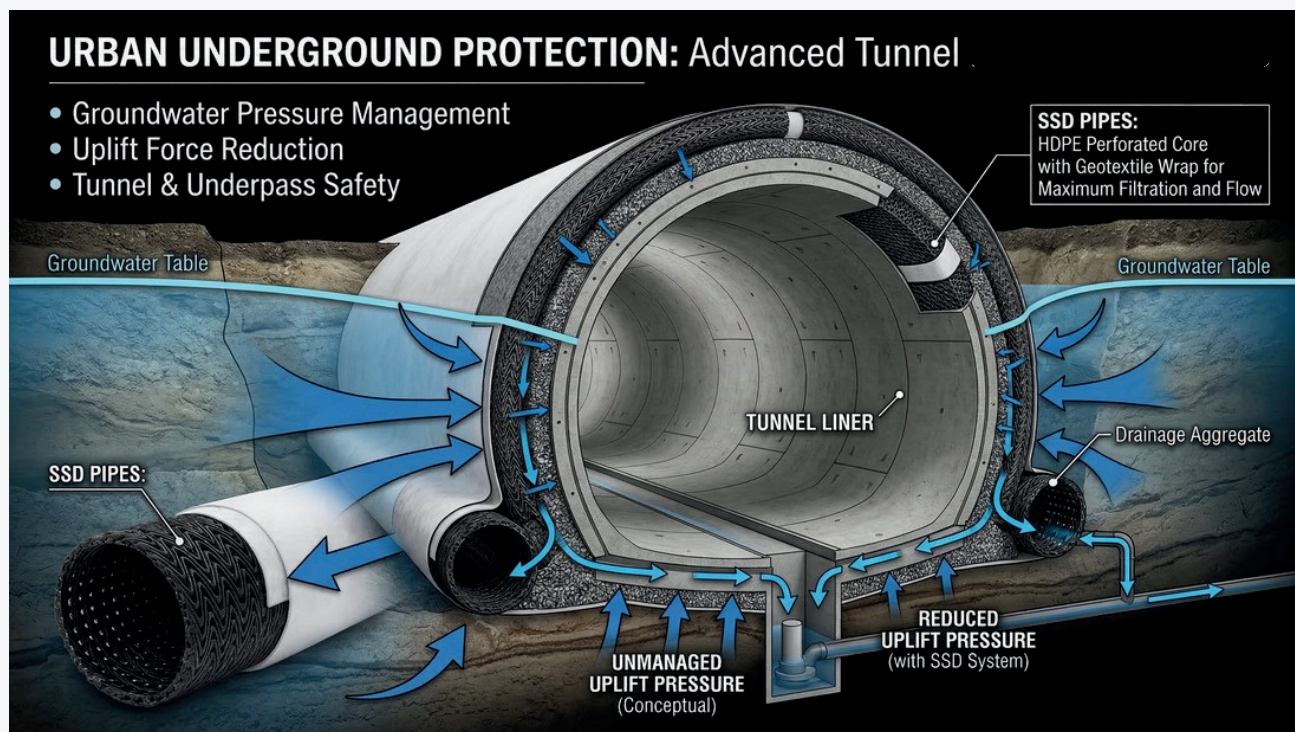
RAILWAY BED DRAIN

Railway tracks require a stable and well-drained subgrade to ensure safe and efficient operations. Water accumulation beneath the track formation can weaken the soil, reducing its load-bearing capacity and leading to instability. SSD Pipes subsoil drain systems effectively manage this issue by removing excess moisture and lowering the groundwater table. These systems intercept and channel water away from the railway bed, preventing soil saturation. The collected water is safely directed toward natural outlets such as drain channels or rivers. By maintaining optimal moisture levels, SSD Pipes enhance subgrade strength and track alignment. This results in improved stability, reduced risk of damage, and lower maintenance requirements over time.



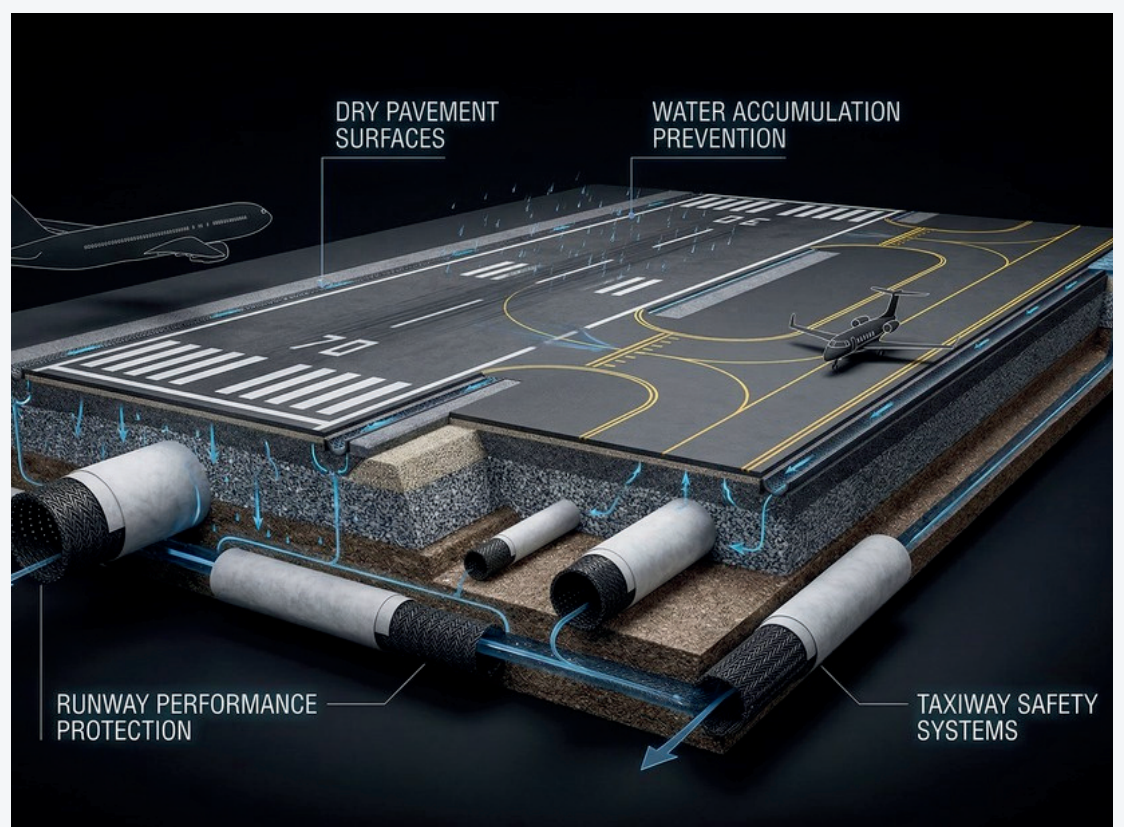
UNDERPASS & TUNNEL DRAIN

Urban underground structures such as tunnels and underpasses are often subjected to high groundwater pressure due to their below-ground positioning. This excess pressure can lead to structural damage, seepage, and uplift forces that threaten the stability of the foundation. SSD Pipes drain systems effectively manage these challenges by providing a controlled pathway for groundwater removal. They help reduce uplift pressure by allowing accumulated water to drain safely away from the structure. This prevents water buildup around critical areas and minimizes the risk of long-term damage. By maintaining a balanced subsurface environment, SSD Pipes enhance the durability and safety of underground infrastructure. Their efficient drain capability makes them an essential solution for protecting tunnels and underpasses in urban environments.



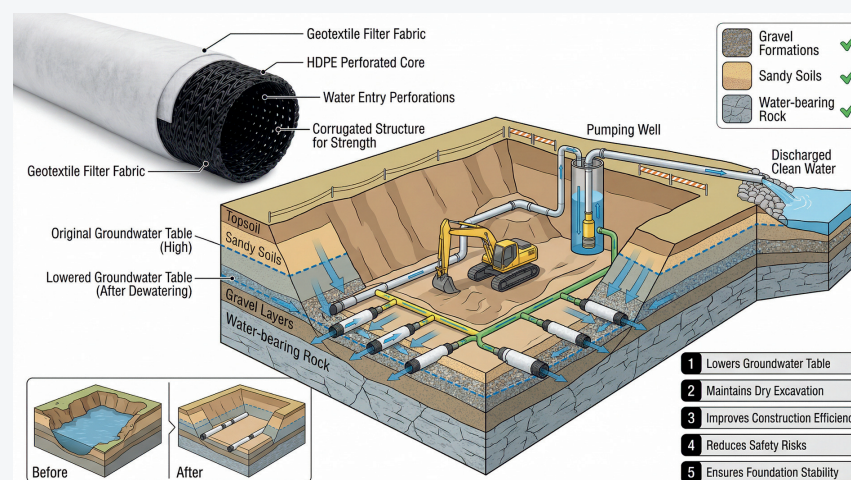
AIRPORT RUNWAY DRAIN

Airport drain systems require highly efficient water management to ensure safe aircraft operations. SSD Pipes drain systems are used in edge drains and collector systems to efficiently transport water away from runways and taxiways. These systems help maintain dry pavement surfaces and prevent water accumulation that could impact runway safety and performance.



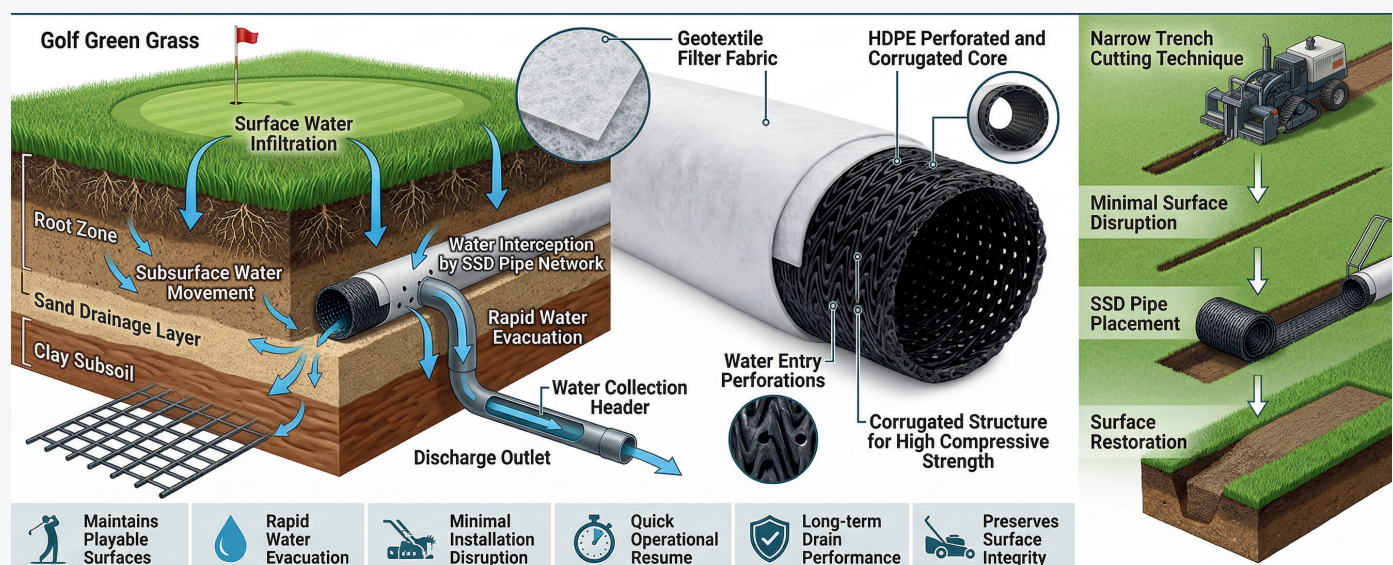
DEWATERING APPLICATIONS

Dewatering is a critical process in construction that involves removing groundwater from deep excavations to ensure safe and stable working conditions. Excess water can weaken soil strength, reduce load-bearing capacity, and disrupt construction activities. SSD Pipes systems enable efficient extraction of groundwater from deep soil layers by allowing quick water ingress and smooth discharge. They are especially suitable for sandy, gravelly soils and water-bearing rock formations where groundwater flow is high. By lowering the groundwater table and preventing soil saturation, these systems help maintain dry and stable excavation sites, ultimately improving construction efficiency, reducing risks, and ensuring strong foundation performance



GOLF COURSES & SPORTS FIELD DRAIN

Sports facilities and golf courses require efficient drainage systems to maintain high-quality, playable surfaces. Water accumulation can lead to uneven ground conditions and reduced usability. SSD Pipes drainage solutions address this by enabling effective subsurface water removal. Installed using narrow trench techniques, they minimize surface disruption and preserve field integrity. The system ensures rapid water evacuation and long-term performance, allowing facilities to resume operations quickly with minimal downtime. Overall, SSD Pipes help maintain consistent playability, durability, and optimal field conditions.



TECHNICAL DATA

Size (mm)	outer diameter (OD)	Inner diameter (ID)	Length (m)	Weight per meter(kg)	Wall Thickness (m)	Open Porosity (%)	Ring Stiffness(kN/m ²)	Geotextile (GSM)
200	200±0.5	184±0.5	6.0	3.0-3.45	6,8,10	60-70	0.8-1.0	150
160	160±0.5	144±0.5	6.0	2.0-2.20	6,8,10	60-70	0.8-1.0	150
110	110±0.5	98±0.5	6.0	1.45-1.6	6,8,10	60-70	0.8-1.0	150

Note: The material adheres to ISO 9969-2016 standards. Tolerances on OD, ID, and wall thickness are within ±0.5 mm.

Available sizes:

- D110 (110 mm)
- D160 (160 mm)
- D200 (200 mm)



CONNECTORS/ACCESSORIES

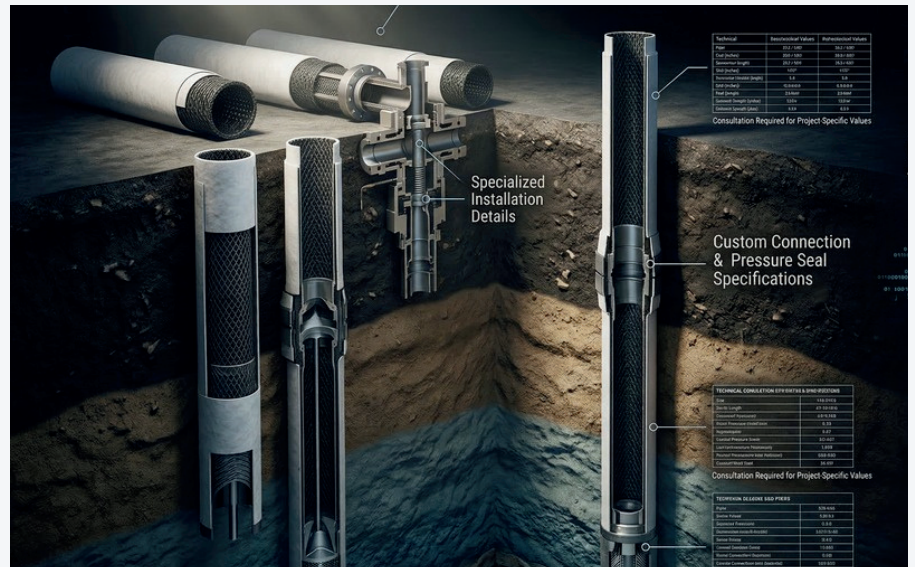
As we are updating our equipment to manufacture our own accessories is in Progress. For time being we are providing PVC accessories. Sizes available as of now with us for only regular diameters

- Straight Type
- 90 Bend
- 45 Bend
- T Bend
- Y Bend
- End Cap
- 160-110 Reducer
- 200-110 Reducer
- 200-160 reducer



ACCESSORIES CONNECTING DETAILS

SSD Pipes feature a unique inbuilt design that allows easy connection between pipes of the same diameter without the need for connectors, adhesives, or chemical bonding. This ensures quick, hassle-free installation while maintaining a secure and leak-free joint.



The precision-engineered design enables seamless fitting, reducing installation time and labor costs. It also enhances reliability by eliminating the risk of joint failure due to improper sealing or chemical degradation.

Note: For vertical dewatering applications, it is recommended to contact the manufacturer for specific design guidelines and technical support.

INSTALLATION GUIDELINES

For proper installation of SSD Pipes Subsoil drain Pipes, refer to detailed subsoil layout drawings and installation guidelines provided in the manufacturer's installation manual. Following the recommended installation procedures ensures optimal drain performance and long service life of the system.

Proper Installation Guidelines

SUBSOIL LAYOUT

MIN. DEPTH INDICATORS (e.g., X mm cover)

BACKFILL

SLOPE

BACKFILL SOIL

CLEAN AGGREGATE

FILTER FABRIC

CLEAN AGGREGATE

Detailed Subsoil Layout

Optimal Performance Assurance

Core Material: High-Density Polyethylene (HDPE)

Geotextile Type: Non-Woven Polyester

Geotextile Type: Non-Woven Polyester High-quality (HDPE)

Slot Pattern Specifications:

- Slot Pattern 2.5mm
- Slot Pattern Controive Rate
- Slot Pattern Specifications

CROSS-SECTION VIEW

SOIL PREPARATION REQUIREMENTS

- ✓ Trench bed preparation for trench:
 - Trench flat and clean aggregate
 - Backfill is unisal unarmntum matererinded in the trenchover
- ✓ Backfill material characteristics is hig trench.
- ✓ Backfill material characteristics to vill clean aggregate and wil- backfill material.
- ✓ Minimum compaction to miini soil h sp-undedss dannored on and crennares 250 mm².

1. Trench Excavation
2. Foundation Prep
3. Pipe Layout & Connection
5. Final Cover

PROPER PIPE PLACEMENT GUIDELINES

- ✓ Lay the SSD HDPE subsoil drainage procedurs on to the cores through trench ands in the pipe.
- ✓ Connect the coupler joint point: Connect soil iriz by the twaterlarge-serowe ternert and connect ethimnl aggregreatal coupler joint area in invwad lx, collect or coupler to drazol coupler.
- ✓ Maintain gradient of tneals. And within the amenat gradient hiring the crantroutn law in the rotate.

STORAGE & HANDLING

To maintain the quality and performance of SSD Pipes, the following storage and handling practices should be followed:

- Pipes should be unloaded manually or using appropriate lifting equipment such as cranes to prevent damage during handling.
- Store pipes in a cool and dry location to maintain product integrity. Pipes must be placed on a flat surface free from sharp objects to avoid damage to the geotextile wrapping.
- Pipes may be stacked one above another, ensuring that the one-third solid (non-perforated) portion remains at the bottom while stacking.
- When stored outdoors, pipes should be covered with suitable protective material to prevent direct exposure to sunlight. All fittings and accessories should be stored in a clean, cool, and dry environment.



PRECAUTIONS

Installation must strictly follow the SSD Pipes installation manual or the instructions provided by the authorized site representative. Any deviation from the recommended installation practices may affect system performance and manufacturer liability. During loading, unloading, and stacking, care should be taken to ensure that the solid portion of the pipe is positioned at the bottom, and the geotextile layer remains undamaged. All connectors and accessories supplied by the manufacturer should be stored properly in a dry and cool place until installation. The required quantity of fittings and accessories should be confirmed before placing the order to ensure smooth project execution.

MATERIAL TEST CERTIFICATION



KELVN LABS

(AN ISO 9001-2015 COMPANY)

AN ISO/IEC-17025:2017 [NABL] Accredited laboratory

Plot No. 3, Cynosure Enterprises Building 2nd Floor, Road No.12, TSIIIC Tech Park, IDA Nacharam, Hyderabad-500076, Telangana.

Email : kelnlabs@gmail.com, www.kelnlabs.com



TEST REPORT

Issued to:
M/S saisravanthi enterprises ,
Purchase Order No: Dated :

Report No: KL/972/2025-26
Date: 25.03.2026

Sample Description	Perforated SSD Pipe	Sample Id	As Mentioned Below .
Sample Quantity	01 No.	Sample Reg. No.	2383.
Date of receipt of samples	23.03.2026.	Date of completion of analysis	25.03.2026.
Samples Conditioning	Nil.	Testing Room Conditions	23±2°C,50±5% RH.
Discipline	Mechanical.	Group	Others.

TEST RESULTS

S.No.	Sample Id	Test Parameter	Test Method	Test Result
1	Perforated SSD Pipe	Ring Stiffnes	ISO 9969	1.13 kN/m ²

Note:

1. Samples condition at receipt: Found ok.
2. Test Method: As agreed with the customer.
3. This report shall not be reproduced except in full without the approval of the laboratory.
4. This report pertains to the samples submitted.

Prepared by:



Authorized by


Dr.K.S.Rao, Director
KELVN LABS

25/03/2026



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