



SOLENO

RESIDENTIAL

IN HARMONY WITH YOUR LANDSCAPING



OUR EXPERTISE



IN HARMONY WITH YOUR LANDSCAPING

Surface water collection and subsurface drainage are essential to prevent damage caused by stormwater accumulation. From culverts to floor drains, downspouts adapters and other accessories, Soleno offers consumers a range of effective products for residential drainage, as well as geotextiles for a variety of applications. Soleno products are available through a wide network of retailers.

CHANGING THE RESIDENTIAL WATER MANAGEMENT LANDSCAPE WITH NEXT-LEVEL CUSTOMIZATION

Soleno is driving change in the residential sector by elevating building materials and practices, offering solutions with up to 90% recycled materials for enduring sustainability.



Every year, we use 150 million plastic containers, which are used in the manufacturing of our products, making the company one of the largest plastic user in North America.

AN ENDURING MISSION.

Soleno's mission is to design, manufacture and distribute high quality, primarily HDPE, products for mastering water sustainably. We collaborate with water management professionals by offering customized sustainable solutions to create a more sustainable world for future generation.

UNIQUE EXPERTISE BORN OF A PROUD HERITAGE

Soleno was founded in the late 1970s by the Lazure brothers, Germain and Roger. In 1989, Lazure and Poirier families, both recognized for their expertise in the field of agricultural drainage in Quebec, decided to join forces to create the Soleno company we know today.

Over the years, Soleno has developed an exceptional expertise in many markets, while remaining true to its origins by mastering sustainable water management for the infrastructure, residential, natural resource and agricultural development sectors. Because continuous innovation is an integral part of the company's values, Soleno now offers the most complete range of products for the residential drainage sector.

AN ACCESSIBLE, SPECIALIZED TEAM

Trust our expertise in soil drainage and foundations. At Soleno, we put our knowledge and range of quality products at your disposal to ensure optimum protection of your building against water-related problems.

OUR EXPERTISE: FOUNDATION DRAINAGE

Foundation drainage is of paramount importance for the prevention of damage to your building. A poorly drained foundation can cause considerable damage and risk harmful water infiltration.

Efficient foundation drainage relies first on optimal stormwater management around the property. It's essential to properly collect and direct surface water through gutters, catch basins/collectors, as well as by installing an underground drain system to keep water away from the foundation.

THE RISKS OF INADEQUATE FOUNDATION DRAINAGE

The risks associated with inadequate drainage can be varied, depending on soil conditions and the layout of your property. You could face clogging problems caused by sediment build-up, or harmful characteristics such as iron ochre. To choose the drain best suited to your situation, it's advisable to consult a specialized expert, such as our representatives at Soleno.

AVOID RISKS

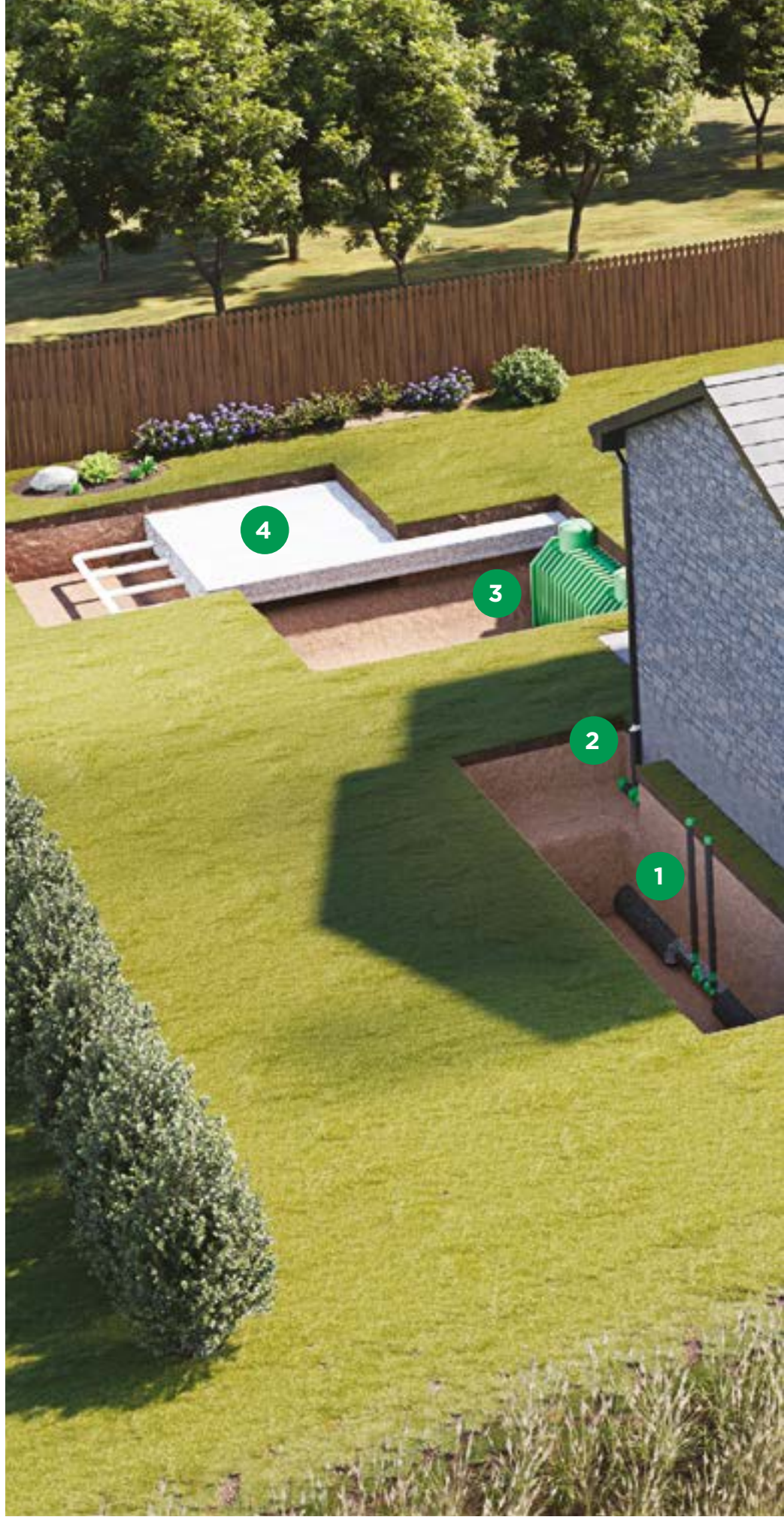
To limit these risks, we suggest that you consider adding products that simplify inspection and maintenance when needed, thus guaranteeing the long life of your drainage system.

A VIRTUAL LEARNING CENTRE - THE ACADEMY

Our new Learning Centre is designed to be the one-stop shop for all your training needs on our products, our solutions, and residential water management.

<https://soleno.com/en/academy>

SOLENTO AT THE HEART OF YOUR HOUSE







OUR MULTI-PURPOSE RESIDENTIAL SOLUTIONS

- 1 Foundation Drainage
- 2 Stormwater Collection Accessories
- 3 Septic System
- 4 Geotextiles Evapotranspiration and Oxygenation
- 5 Retention Pit and Cover - Floor Drain
- 6 Linear Capture
- 7 Drainage, Separation and Reinforcement Geotextile
- 8 Protective Geotextile ❄️
- 9 Stormwater Collection
- 10 Green Infrastructure - Honeycomb paving
- 11 All Drain Types
- 12 Corrugated Single Wall Pipe for Wires



MEGA DRAIN 3 (TYPE 3)

In the presence of ferrous ochre, the shape and size of Mega 3 sluice reduce the risk of clogging and obstructing the perforations and facilitate cleaning when necessary.

The Mega 3 drain should always be filtered when installed in agricultural soil, except when installed directly in black soil, due to the absence of clean stone backfill.

THE MEGA 3 DRAIN MAKES DRAINAGE FASTER AND MORE EFFICIENT!

33% more perforated surface area than the Type 3 drain: the size and number of perforations in the Mega 3 drain allow groundwater to be captured and evacuated as quickly as possible.

For added protection during torrential downpours, it provides additional protection against damage caused by excess water.

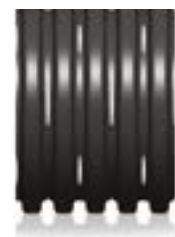
Designed to ensure maximum drain rigidity, while offering a larger perforation area than the Type 3 drain.

OUR DRAINS



MEGA DRAIN 3 (TYPE 3)

The Méga 3 drain's perforations provide **apertures of over 3.0 mm.**



DRAIN TYPE 2

Type 2 drain perforations provide **apertures of 1.8 mm.**



Our range of drains, 4 in to 10 in (100 mm to 250 mm) of diameter, was awarded EcoDesigned Product Attestation by the Council of Sustainable Industries (CSI).



NONWOVEN POLYPROPYLENE 250 MICRONS

Filter sheath for perforated and filtered drains with 250-micron openings

The NONWOVEN filter bag with its 250-micron openings is recommended when the results of the granulometric analysis clearly show **soil rich in fine and medium sand**.

Better water flow for filtration and permittivity

Better water flow than other products such as the 100-micron filter sheath. The latter prevents silting in **very fine silt to very fine sand soils**.

Superior tensile strength, which reduces the risk of tearing and ensures that the product retains its properties.

Cleaning drains is much easier than with a 450-micron polyester filter sheath which is often more difficult to clean due to silting.

WOVEN POLYESTER 450-MICRON

Filter sheath for perforated and filtered drains with 450-micron openings

The woven filter sheath, with 450-microns openings, is recommended when the results of the granulometric analysis clearly indicate a **soil containing coarse sand to gravel**.



CORRUGATED SINGLE WALL PIPE FOR WIRES

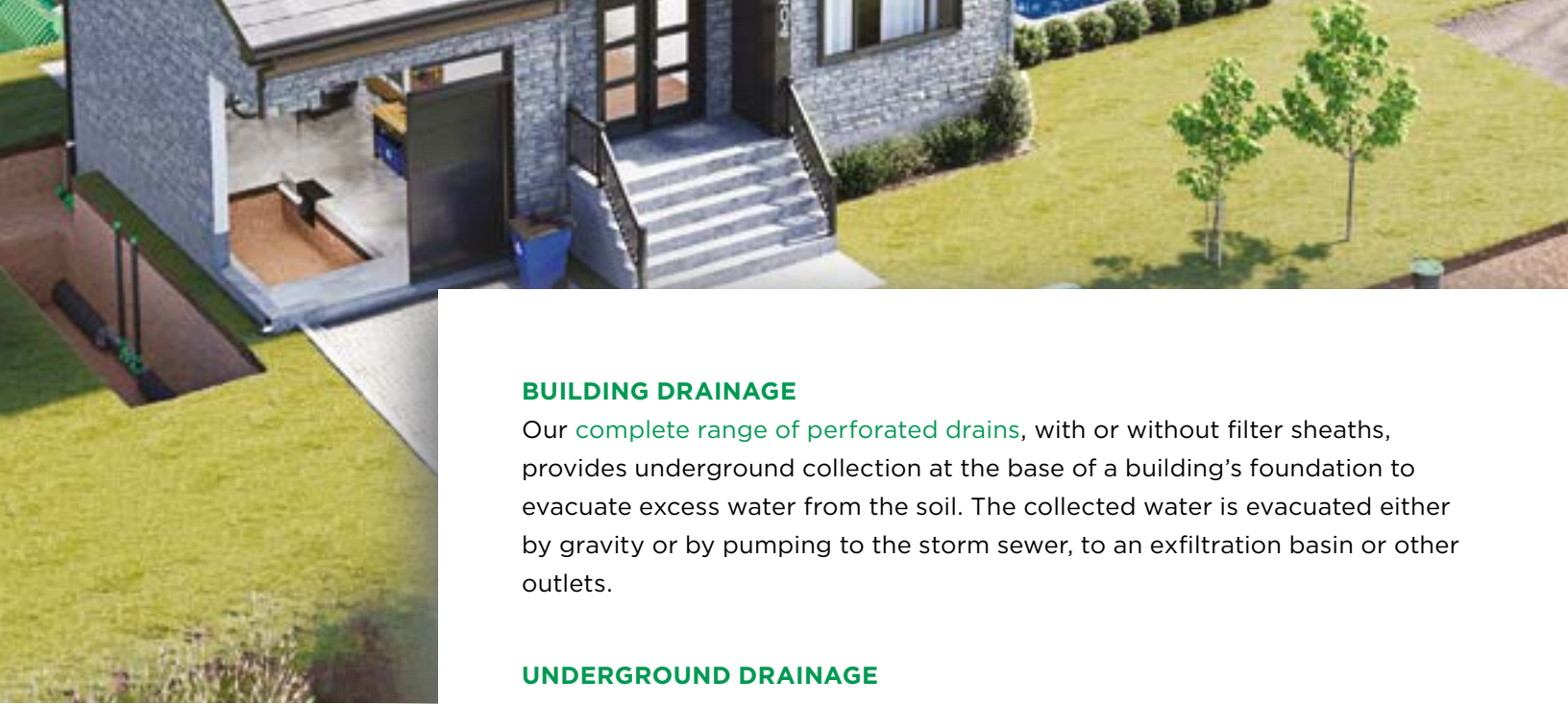
Made of HDPE from recycled material, the drain features excellent resistance to de-icing salts, abrasives, chemicals and vibration.

Equipped with a 440-lb knot strength, UV-stabilized PP rope.

Easy identification of pipe due to its red outer layer.

*Refer to local, regional, and provincial agencies for specific regulations, standards, and guidelines. Soleno is not responsible for any improper use of its products.

OUR APPLICATIONS



BUILDING DRAINAGE

Our [complete range of perforated drains](#), with or without filter sheaths, provides underground collection at the base of a building's foundation to evacuate excess water from the soil. The collected water is evacuated either by gravity or by pumping to the storm sewer, to an exfiltration basin or other outlets.

UNDERGROUND DRAINAGE

Our [drainage pipes](#), with or without filter sheaths, help to evacuate by gravity the water present in agricultural land following rainfall and control the height of the water table.

SURFACE WATER CAPTURE

Our [surface water capture products](#) intercept stormwater and channel it into suitable conveyance pipes.

LINEAR CAPTURE

[Collection perpendicular to the direction of flow](#) over the full width of the surface to be drained, such as a parking lot, street or sloped residential driveway. Smaller surface area and excavation depth than conventional drainage systems.

GEOTEXTILES

Due to their three-dimensional construction and filtration aperture, our [geotextiles](#) offer superior permeability to woven geotextiles. Designed for a wide range of applications, support from foundations to optimize landscaping.

HDPE AND STEEL CULVERTS

Our [culverts](#), in HDPE or steel, **can be used to build structures in a watercourse to cross it while ensuring the free flow of water and the free passage of aquatic fauna.**

The choice of product depends on the specified service life. When infrastructure durability is the overriding factor, [HDPE culverts](#) are the preferred choice. Diameter availability and hydraulic capacity (Manning's coefficient «n», diameter and slope) must also be considered.



TRIPLE WALL PIPE

TRIPLEFLO

TRIPLE WALL RIGID PIPE WITH SMOOTH INTERIOR AND EXTERIOR FOR DRAINAGE APPLICATIONS

*APPLICATIONS

- Drainage trench
- Foundation and basement drainage
- Drainage collector and outlet
- Turf and recreation drainage
- Septic leachfield
- Wire duct
- Downspout runoff

FEATURES

- Available in 10 ft (3 m) lengths with a nominal diameter of 4 in (100 mm) SDR or DR
- Increased resistance to sunlight, heat and UV rays due to the white outer wall
- Compatible with 4 in (100 mm) PVC SDR or RD pipe
- Integrated bell
- Pipe stiffness greater than 30 psi (210 kPa)

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OUR PRODUCTS

NEW



COMPLIANT WITH ASTM F810

MADE WITH OVER 50% RECYCLED PLASTIC

ADVANTAGES AND BENEFITS

TripleFlo, made of high-density polyethylene (HDPE), stands out favorably from PVC pipes due to its cost and reduced environmental footprint.

HDPE has **excellent resistance to breaks, cracks, splits and impacts** in cold weather.

Resistant to corrosion, abrasion, de-icing salts and vibration.

Extremely durable and effective, the TripleFlo has a **lifespan that can exceed 100 years**.

Lightweight and easy to install.

Manning's value: 0,009.

Conforms to PVC outer diameter as per ASTM D279/CSA 182.1.



NON-PERFORATED SOLFLO MAX



NON-PERFORATED RIGID DUAL WALL PIPE, WITH SMOOTH INTERIOR AND CORRUGATED EXTERIOR WALL FOR ROADWAY USE .

Available in diameters from 12 in (300 mm) to 60 in (1500 mm).

The optional bevel cut in an HDPE culvert application increases the flow of water through the culvert during storms.

Non-perforated Solflo Max pipe is ideal for **HDPE culvert and driveway** applications.

ADVANTAGES AND BENEFITS

Exceptionally long-lasting, Solflo Max pipes are **resistant to** abrasion, corrosion and freeze/thaw cycles.

Long pipe lengths **reduce installation time** and the **number of joints.**

Fits perfectly with our full range of fittings and accessories designed to meet field requirements or comply with network requirements.



Our Solflo Max non-perforated, 210 kPa pipe was awarded EcoDesigned Product Attestation by the Council of Sustainable Industries (CSI).



STEEL PIPE

CORRUGATED GALVANIZED STEEL PIPE (CSP), AN ECONOMICAL SOLUTION FOR STEEL CULVERT AND ROAD DRAINAGE APPLICATIONS.

— Customized **non-standard lengths** of up to 60 ft (18 m) for diameters of 144 in (3600 mm) and less, reducing the number of joints.

— **Economical** solution for large diameters, saving on transport costs by optimizing loading space.

— Pipe ends are adjusted to provide annular re-rolled corrugations, which allow couplings to be used to assemble successive lengths in a project.

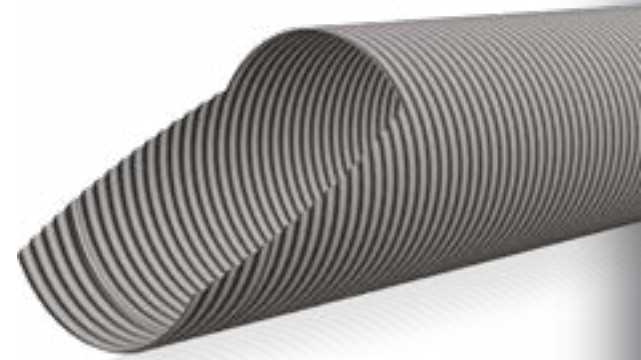
Spiral ends, bevelled, cuts and **arched** pipes are also available on request.

— With their flattened shape, they help minimize the depth of the backfill while conveying an additional volume of water at a low flow rate.

— Withstands to CL-625, H-25 and HS-25 loads.

— **Factory-welded lifting lugs** available on request.

The use of **steel pipe** is recommended for **steel culvert and driveway** applications.



ACCESSORIES

Soleno manufactures **steel clamps** with **3, 5 or 9 corrugations**, that enable the elongation of two steel pipes by reinstating the corrugations parallel to the pipe's endpoint.

— Ensure a **strong, durable connection**.

— Easy to install due to the addition of bolts supplied as required, depending on pipe diameter.

RADON SUMP BASIN AND FLOOR DRAIN

MADE OF HIGH-DENSITY POLYETHYLENE (HDPE), THE RADON SUMP BASIN IS A RADON GAS MITIGATION AND CAPTURE SOLUTION.

—
The lid is used to cover the Radon Sump Basin, to reduce pump noise and to prevent debris from falling into the pit.

—
This airtight lid also ensures that there is no build-up of humid air in buildings.

—
Prevents gas infiltration into basements.

—
[Complete range on soleno.com](https://www.soleno.com)



LINEAR CAPTURE

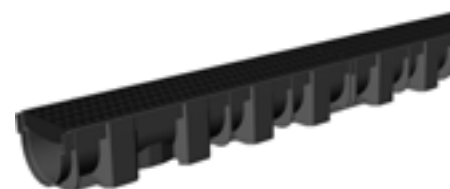
EFFICIENT DRAINAGE AND EASY INSTALLATION

—
Ideal for residential applications.

—
Hauraton linear drainage Trench Drain made of recycled polypropylene (PP) with self-locking grates, compliant with the EN 1433 standard.

—
Allows perpendicular collection across the full width of a drainage surface for light loads or residential applications, pedestrian areas and bicycle paths.

—
Drainage channels in private areas must; continually withstand daily loads, be easy to transport and simple to install, be resistant to environmental effects (frost, heat and moisture) and be visually pleasing.





FITTINGS AND ACCESSORIES



SOLENO OFFERS A COMPLETE RANGE OF DRAINAGE FITTINGS AND ACCESSORIES, WITH INTERNAL OR EXTERNAL CONNECTIONS, TO MATCH OUR RANGE OF DRAINS. MOST OF OUR FITTINGS ARE MADE FROM FACTORY-INJECTED RESIN.

Our new accessories now adapt to all types of pipes through a universal connection. The clips permanently lock the accessory onto the drainage pipe. The bell with universal internal connection allows better retention and a better flow section. Quick and easy to install, they complete the largest range of residential accessories available on the market.





Down Spout Adapter
2 in (50 mm) x 3 in (75 mm)
and 3 in (75 mm) x 3 in (75 mm)
for drain 4 in (100 mm)



Drainage access chimney
4 in (100 mm)
and 6 in (150 mm)



Universal drain adapter
4 in (100 mm)



Internal End cap
4 in (100 mm)
and 6 in (150 mm)



External End clip
4 in (100 mm)
6 in (150 mm)



90-degree elbow
4 in (100 mm)



External Reducer
4 in (100 mm) x 3 in (75 mm)
6 in (150 mm) x 4 in (100 mm)
8 in (200 mm) x 6 in (150 mm)
10 in (250 mm) x 8 in (200 mm)



Internal Tee
4 in (100 mm)
to 8 in (200 mm)



Tee - Wye (Y)
4 in (100 mm)
and 6 in (150 mm)



Wye (Y)
4 in (100 mm)
and 6 in (150 mm)



Split Coupler
4 in (100 mm)
to 10 in (250 mm)



Stainless steel reinforced plastic Grate, large holes
4 in (100 mm)
to 8 in (200 mm)



GEOTEXTILES

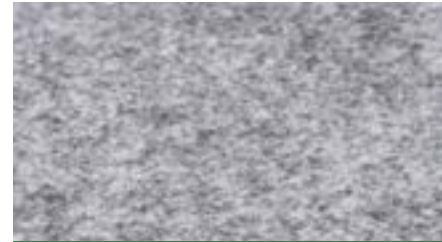
TX-70

NONWOVEN NEEDLED GEOTEXTILE

Made from polypropylene, the TX-70 is mainly used for its **filtration and separation** function.

Better permeability than woven geotextile due to its three-dimensional structure and its filtration openings.

Used as filtration and separation geotextile when applied between the clean stone and the ground in place in a retaining wall, embankments and berm application.



Now available in 12.5 ft (3.81 m) rolls

HIBERTEX

NONWOVEN NEEDLED GEOTEXTILE FOR WINTER PROTECTION OF TREES, SHRUBS AND LAWNS.

Made from polypropylene and polyester, Hibertex is used for its **protection** function.

Hibertex winter protection creates a microclimate that **mitigates sudden temperature** changes and prevents shrubs from drying out.

Used on lawns during the winter, Hibertex facilitates the spring pickup of debris and sand in the spring. Its unique design, which **allows water and air to circulate freely**, **promotes early greening** of the turf in the spring, while reducing the occurrence of yellowed areas.



MICROFAB

WOVEN GEOTEXTILE COATED WITH POLYETHYLENE, MICRO-PERFORATED

Made from polyethylene, Microfab is used for its **protection** function.

Anti-root and anti-vegetative, Microfab is created exclusively for suppressing root migration towards the surface without the use of chemicals.

Reduces maintenance of rock gardens and flower beds.

Microfab is non-biodegradable and resistant to ultraviolet rays.

Highly resistant to tears and punctures, and its opacity **prevents photosynthesis**.

With multiple perforated pinholes, this coating allows water, air and fertilizers to infiltrate more easily the plant roots.



EPURTEX

NONWOVEN NEEDLED TEXTILE THAT FACILITATES EVAPOTRANSPIRATION AND OXYGEN TRANSFER IN SEPTIC FIELD APPLICATIONS.

Made from polypropylene, Epurtext is used for its **protection** function.

Better permeability than woven geotextile due to its three-dimensional construction and filtration openings.

Used in septic fields as a separator covering the stone bed, Epurtext **facilitates evapotranspiration and the transfer of oxygen** in absorption trenches; micro-organisms that digest waste need oxygen to survive and function.





OUR EXPERTISE AT YOUR DISPOSAL



Visit **THE ACADEMY**, our new learning center, the place for all your staff training needs on our products, solutions and residential water management.

<https://soleno.com/en/academy>



Visit our website <https://soleno.com/en/secteurs/residential> to find out more about our residential products.

Expertise, sales outlets, projects and technical specifications.

OUR PRODUCTS AND SOLUTIONS ARE DESIGNED AND MANUFACTURED TO THE HIGHEST STANDARDS.



SOLENO IS ISO 9001-CERTIFIED
(Saint-Jean-sur-Richelieu plant only)



SOLENO HAS OBTAINED its **ECORESPONSIBLE** Certification - Level 2. **Performance** in sustainable development from the **ECORESPONSIBLE™** Program (Saint-Jean-sur-Richelieu plant only)

SOLENO IS A MEMBER OF :



[SOLENO.COM](https://soleno.com)