



LITE-SOIL®

All in ONE: Air-Soil-Water

Textile water storage & Underground irrigation systems



Catalog 2021/22

CITY TREES

FRUIT TREES

VITICULTURE

LAWNS

SPORTS FIELDS

SOCCER FIELDS

GOLF COURSES

SLOPES

GREEN ROOFS

PLANTING BOXES

RAISED PLANTING BEDS

FILTER BASINS

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What is LITE-SOIL?

Our many years of know-how in geotextiles performs as the basis for our patented LITE-SOIL products:

- » As non-woven STRIPS (LITE-STRIPS) mixed down into the soil store water directly in the root area. 10 l of LITE-STRIPS can store up to 9 l of water.
- » As a non-woven net (LITE-NET) it effectively transports water and air to the roots.
- » In comparison to the conventional above-ground irrigation systems the underground irrigation system (BLUELITE-NET) saves up to 70% of water.
- » Other special products such as non-woven cubes for aerification, biodegradable root protection bandages for building sites, or salt filter mats.

Optimal results, scientifically confirmed

Scientific research by the University of Natural Resources and Applied Life Sciences (BOKU) in Vienna has shown:

- ✓ LITE-NET stores 6 times more water than a coir mat
- ✓ The greening effect of LITE-NET on slopes is 50% higher than that of coir mats
- ✓ LITE-STRIPS can store 8 times more water in soil mixtures in comparison to porous clay pebbles



LITE-SOIL is an innovative, sustainable water- and cost-saving solution for the air and water supply of your plants.



ADVANTAGES

- » Water storage for the root area
- » Up to 70% of water savings
- » Optimal water storage
- » High water conductivity
- » High aeration effect
- » Better greening effect
- » Cost-effective
- » Easy installation at any depth
- » Three-dimensional laying
- » High flexibility
- » Low weight
- » Erosion protection
- » Reduced soil compaction
- » Less felting

Our 3 materials:

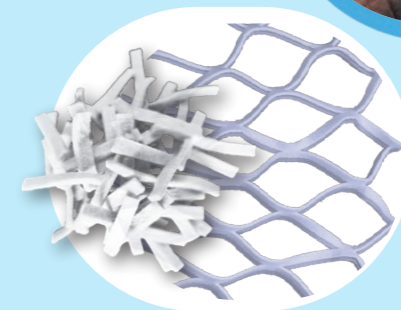


100% biodegradable or durable



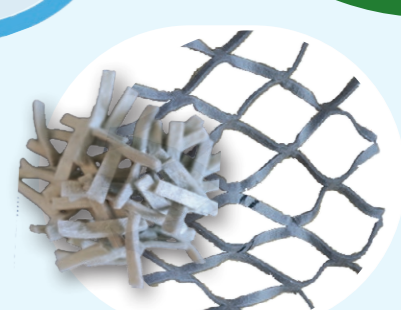
BIO1

Biologically degraded after approx. 1-2 years, made of 100% cellulose fibers. Ideal for annual plants (flowers, tomatoes and other vegetable plants) or as a support in the initial growing phase, e.g. for turf or slope greening.



BIO5

Biodegraded / composted after approx. 5-10 years made of 30% cellulose fibers + 70% PLA (Polylactide). Ideal for all types of plants including perennial plants and repeatable usage with annual plants.



PP

Durable and sustainable made of 100% polypropylene. Ideal for all types of plants, especially also perennials or because the products are used again and again. Use for underground irrigation systems.

LITE-STRIPS

Water storage strips

LITE-STRIPS are water retaining non-wovens in strip form for mixing into the soil close to the roots.

They serve as substrate improvement for loosening compacted soil, for aerification or to support initial growth. Due to the elongated shape of the non-woven Strips, the substrate is more permeable and stable.

In addition, the water storage capacity is significantly increased. Plants can access the stored water in the non-woven very easily and effectively when needed.

1 kg of LITE-STRIPS stores up to 10 l of water.

Applications

- » Trees & bushes
- » Lawns & lawn grid
- » Slopes
- » Green roofs
- » Sports fields
- » Beds, raised planting beds
- » Planting boxes
- » Additive for substrates



Size LITE-STRIPS 70 x 12 x 6 mm

Order sizes	BOX 250 l
	BOX 5 x 50 l
	BIG BAG 1 m ³

Recommended quantity:

Trees & bushes	10 - 20 liters per pit
Lawns	0.5 - 1.0 liters per m ²
Roof	1 - 2 liters per m ²
Raised planting beds & troughs	5 - 10 % of volume

BLUELITE-NET

The active underground irrigation

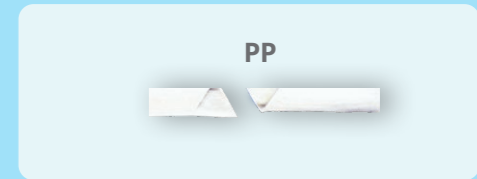
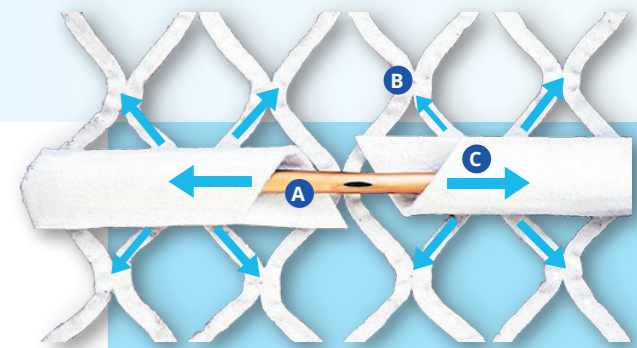
The BLUELITE-NET system is a completely novel and technically improved solution for water-saving subsurface irrigation for e.g. trees or sports fields.

The combination consists of a non-woven covered drip irrigation pipe **A** that is placed directly on a water distribution net **B**. Substrate is applied over it at root depth.

The water from the flexible irrigation pipe is evenly released via the non-woven covering **C** into the LITE-NET below, where it is distributed over a large area in the root zone. In the process the water and earth contact area is multiplied a thousandfold. The robust non-woven covering protects the pipe openings against roots growing inside and against blockage by soil fines.

The underground irrigation reduces evaporation, felting, waterlogging and also soil surface treatment costs. Irrigation is possible at any time and continuously, even if the lawn is being used or mowed. Up to 70% water is saved in comparison to spray irrigation.

Due to the open and flexible shape of the net, roots can grow through and dock all around the thick non-woven net. This means that 100 % of the water stored in the capillary net is available to the plants. Since the system can be installed at any depth, plants can be optimally supplied even in the initial growth phase or in mixed crops optimally supplied with water.



Tube choice

BLUELITE-COVER	25 m
BLUELITE-TUBE	100 m
BLUELITE-AGRI	100 m
BLUELITE-RING	10 pcs. Ø 50 cm



LITE-NET PP thickness mm

Roll C20	28 m ²	1,75 x 16,3 m	6
	57 m ²	3,5 x 16,3 m	6/8
	85 m ²	5,2 x 16,3 m	6/8

Individual parts explained in more detail on the following page

LITE-NET

Water distribution net

The LITE-NET non-woven nets with a high water- and airconducting performance supply plant roots similar to veins.

The nets are simply laid out on the ground, pulled apart to 3 to 5 times in the width and covered with soil to the depth of the roots.

They can also be raised to the surface in places (e.g., root balls), where they allow direct absorbing of air and water, then distribute it over a large area in the root level.

The flexible and easy-to-install water distribution and storage net can be used close to the roots and efficiently at any level, as roots can easily grow through the open net structure and dock all around.

Applications

- » Trees and slopes
- » Lawns, lawn grid
- » Slopes
- » Green roofs
- » Sports fields
- » Filter basins
- » Beds



Sizes

LITE-NET Tree	L	90 pcs.	1,5 x 0,8 m
	XL	45 pcs.	1,75 x 1,6 m
LITE-NET Slope (Roll C14 = meshes Ø 9 cm)	50 m ²		3,5 x 14,3 m
	75 m ²		5,2 x 14,3 m
LITE-NET Standard (Roll C20 = meshes Ø 13 cm)	28 m ²		1,75 x 16,3 m
	57 m ²		3,5 x 16,3 m
	85 m ²		5,2 x 16,3 m

Applications

- » Trees
- » Slopes
- » Green roofs
- » Sports fields
- » Lawns
- » Agriculture



green roof

BLUELITE-COVER

The non-woven covering for the protection of drip irrigation tubes

Part of the BLUELITE-NET system

The **BLUELITE-COVER** serves as a protection for the irrigation tube. In addition the robust non-woven covering distributes the water linearly along the tube thereby increasing the water and soil contact area a thousandfold and protecting the tube openings against roots growing inside and also against clogging by soil fine parts. A wide variety of other irrigation tubes can be inserted into this non-woven covering.



Part of the BLUELITE-NET system for trees

For new tree plantings the **BLUELITE-RING** (a non-woven covered irrigation tube) is combined with a **LITE-NET** growing net in the subsurface layer. Thus, water is being effectively and evenly transferred to the roots. For the existing trees the **BLUELITE-RING** is routed around the trunk at a depth of approx. 5-10 cm and connected with a spur line.

Other advantages: No clogging of irrigation holes by roots or fine parts. No vandalism or UV damage. The escaping water is being distributed by capillary action in the non-woven covering and irrigates the surrounding area evenly over a very large contact area.



LITE-ROOTPROTECT

The biodegradable root protection

Most of the damage on trees occurs at building sites. Although the protection of trees is prescribed by numerous laws and standards, roots are still frequently torn off and damaged by construction vehicles, resulting in enormous consequential damage.

By using the new root bandage **LITE-ROOTPROTECT** the exposed tree roots can not only be protected from sun and damage but also be kept permanently moist.

The 80/120 cm wide **LITE-ROOTPROTECT M/L** can be optimally used as a root barrier. It holds water many times better than conventional non-wovens for sites or jute mats. Together with our non-woven covered drip irrigation tube on the top edge moisturizing the soil can also be automatic.

As the 4 mm thick **LITE-ROOTPROTECT** is 100% biodegradable, it does not have to be removed after completion of construction and can be covered with soil.



BIO1

BOX	8 pcs. Roll	0,1 x 8,0 m
	Roll M	0,8 x 20 m
	Roll L	1,2 x 20 m

BLUELITE-TUBE

Pipe for drip irrigation with protective non-woven covering

Part of the BLUELITE-NET system

The combination consists of a protective non-woven covering (**BLUELITE-COVER**) and a 16 mm drip irrigation tube inside.



BLUELITE-AGRI

Pipe for drip irrigation with protective non-woven covering

Part of the BLUELITE-NET system

Our cost-effective underground irrigation system **BLUE-LITEAGRI** consists of a non-woven protected irrigation tube, which is usually laid in the ground without a distribution net. It was specially designed for the agricultural sector, such as vineyards, fields, plantations of vegetable and fruit.

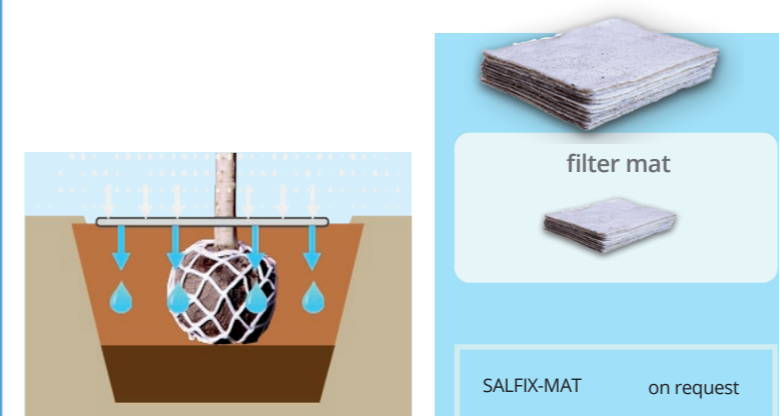


SALFIX-MAT

The filter mat protector against road salt

SALFIX-MAT is being simply put around the tree trunk base - the water-permeable filter mat binds road salt for many years. This prevents tree damage and compaction of the soil. Trees survive the winter sustainably and new plantings are avoided. **SALFIX-MAT** is processed by ion-exchange packed between two non-wovens serving as a filter.

- + Reduction of tree damage and soil compaction
- + Easy application
- + Cost savings by avoiding replanting



LITE-CUBES

For hydroseeding, green roofs, growing pots and aeration

As a small-cube special form, **LITE-CUBES** is available as an aggregate for substrates, e.g. for spray greening in **Bio1**, for green roofs in **PP** and for seed pots in **Bio1**.

For aeration, **LITE-CUBES Bio5** are swept into the aeration holes together with sand. This novel variant offers many years of benefit.

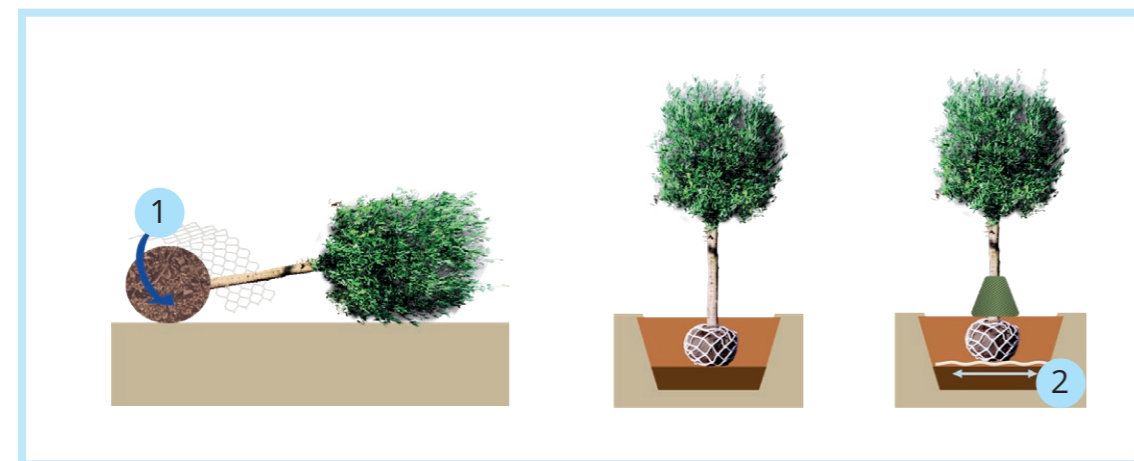


LITE-NET Air & Water for healthy trees



Serving as a **vegetation net 1**, the LITE-NET is wrapped around the root ball. It absorbs water into its voluminous structure on the surface and conducts it efficiently and extensively to the roots like veins. When the roots need the stored water, air is sucked in from the surface. Thus, they simply & inexpensively replace the previously used pipe systems without buckling, clogging and without chimney effect.

Vegetation nets are also the ideal underground system supplements to watering bags and pouring edges.



They significantly reduce water consumption by transporting water directly to the tree roots without evaporation. Watering intervals are significantly extended.

A large **vegetation net** inserted horizontally directly under the root ball conducts air & water like a **distribution net 2** using capillary action into the width and serves as additional storage. This improves root growth in depth and increases the stability of the tree. For new plantings we recommend a combination of a **vegetation net** with a **distribution net**.



Even the roots of already grown trees are permanently supplied with air & water in the form of large-scale **tree pit nets 3**.

LITE-NET for trees is available in 3 materials, either **permanent (PP)** or **biodegradable (Bio1 and Bio5)**. The nets are pre-made for standard sizes (LITE-NET tree in size **L** or **XL**) or in rolls.



	BIO1	BIO5	PP

Sizes			
LITE-NET Tree	L	90 pcs.	1,5 x 0,8 m
	XL	45 pcs.	1,75 x 1,6 m
Roll C14 (meshes Ø 9 cm)		50 m²	3,5 x 14,3 m
		75 m²	5,2 x 14,3 m
Roll C20 (meshes Ø 13 cm)		28 m²	1,75 x 16,3 m
		57 m²	3,5 x 16,3 m
		85 m²	5,2 x 16,3 m

LITE-STRIPS Substrate improvement with water reservoirs close to the roots

It is recommended to mix approx. 10-20 l LITE-STRIPS into the substrate close to the roots per each replanting measure. LITE-STRIPS consist of up to 90% pores in which water is stored on site. They increase the water storage capacity and the permeability of the substrate.



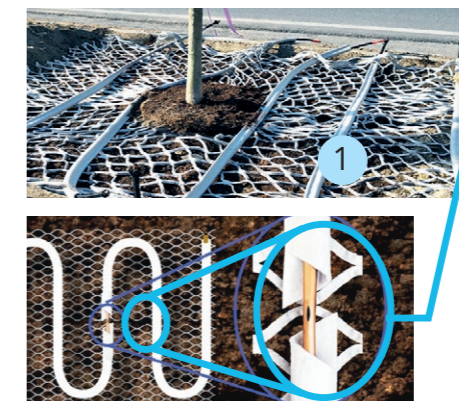
	BIO1	BIO5	PP
Size LITE-STRIPS	70 x 12 x 6 mm		
Order sizes	BOX 250 l		
	BOX 5 x 50 l		
	BIG BAG 1 m³		

BLUELITE-NET Maintenance-free watering system

The novel **BLUELITE-NET** system is perfectly suited for automatic and cost-saving watering of trees. For this purpose, a non-woven protected irrigation pipe (**BLUELITE-RING**) is usually routed underground around the trunk and connected to a spur line.

The stable and voluminous non-woven covering protects the irrigation pipe against clogging by fine particles or roots growing inside. In addition, the UV-stabilized non-woven cover mechanically reinforces against vandalism and evenly distributes the irrigation water.

For new plantings the irrigation ring is installed in combination with a **vegetation net**, for existing trees without any.



	PP
BLUELITE-COVER WITH/WITHOUT TUBE	
BLUELITE-COVER	25 m
BLUELITE-TUBE	100 m
BLUELITE-RING	10 pcs. Ø 50 cm

LITE-NET PP				thickness mm
Roll C20	28 m²	1,75 x 16,3 m		6
	57 m²	3,5 x 16,3 m		6/8
	85 m²	5,2 x 16,3 m		6/8

Vegetation net in different variants

Individual parts explained in more detail on page 7

LITE-ROOTPROTECT

Explained in more detail on page 9

SALFIX-MAT

Explained in more detail on page 9



Water storage hybrid turf, subsurface irrigation

For sports fields and lawns, LITE-STRIPS can be used as substrate enhancement and water storage near the root, the large-area LITE-NET for storage and distribution, and the water-saving underground irrigation system **BLUELITE-NET**.

LITE-NET



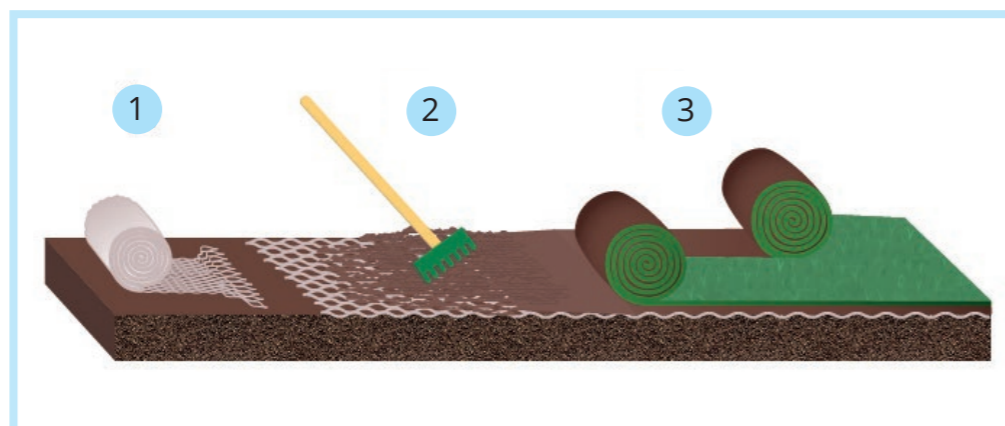
1

LITE-NET: The large-area nets for air and water distribution made of tension-resistant storage non-wovens (up to 90% pore content) are optimally installed in new construction or retrofitted in smaller areas such as gate rooms at root depth. Due to the open shape of the mesh, the load is transferred to the subsoil via the soil structure in the spaces between

the meshes. There can also be no fine-particle sealing and sliding layer as with full-area geotextiles. Roots can easily grow through the 13 cm mesh openings, anchor themselves to the mesh all around and, if necessary, use all the water stored in the mesh.



2



	28 m ²	1,75 x 16,3 m
Roll C20 (meshes Ø 13 cm)	57 m ²	3,5 x 16,3 m
	85 m ²	5,2 x 16,3 m

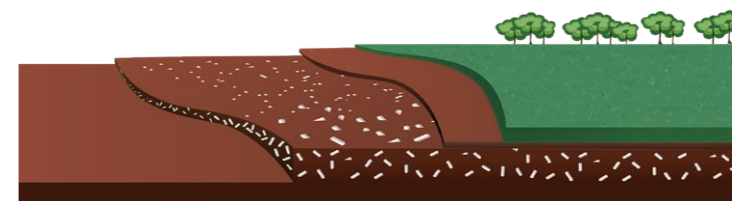
LITE-STRIPS

LITE-STRIPS: Reduce water consumption and rapidly transfer air and water from the surface to the roots. This creates a type of permanent aeration with reduced soil compaction and surface felting.

LITE-STRIPS do not only improve the stability of the base layer due to their thread structure. They can also rapidly absorb water in their pore structure, thus reducing harmful excess of pore water pressure under load.

In addition, the base course becomes more permeable and the water storage capacity increases significantly.

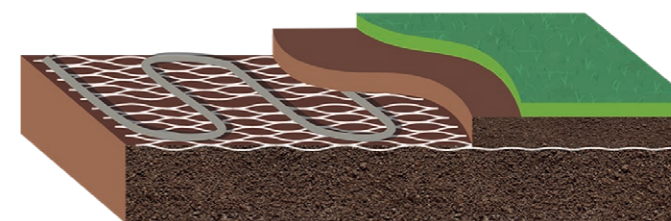
LITE-STRIPS can be mixed into the substrate at root depth both in new construction and subsequently (e.g. by means of slot drainage). Approx. 0.5 - 1.0 l of **LITE-STRIPS** per m² are recommended. To improve the growth of turf, approx. 0.5 l/m² is required in **Bio1**. **LITE-STRIPS** are available in 3 material variants: biodegradable (**Bio1** and **Bio5**) or permanent in **PP**.



Size LITE-STRIPS	70 x 12 x 6 mm
Order sizes	BOX 250 l BOX 5 x 50 l BIG BAG 1 m ³

BLUELITE-NET

BLUELITE-NET: The LITE-NET non-woven net can be combined with non-woven protected drip pipes laid directly on top of it to form a technically improved, cost-effective and water-saving underground irrigation system. The robust non-woven covering of the drip pipes, which is laid at root depth at a distance of approx. 60 cm, distributes the water, prevents roots from growing inside and fine-part clogging and increases the contact area between soil and water a thousandfold. Sports fields can also be played on or mowed during irrigation. For details see page 7.



PP



BLUELITE-COVER WITH/WITHOUT TUBE

BLUELITE-COVER	25 m
BLUELITE-TUBE	100 m

+

LITE-NET PP thickness mm

Roll C20	28 m ²	1,75 x 16,3 m	6
	57 m ²	3,5 x 16,3 m	6/8
	85 m ²	5,2 x 16,3 m	6/8

LITE-NET



LITE-NET to support initial growth (picture taken from above)

The **LITE-NET** is ideal for slope greening and as erosion protection. For the initial growth phase they are laid above ground, for permanent use they are laid underground.

For start-up revegetation, the 100% biodegradable LITE-NET variants **Bio1** or **Bio5** are simply laid out on the slope surface, fastened and ideally covered by hydroseeding. Since the large-area non-woven nets have a very high-water storage capacity - 6 times higher than coir mats - plants are optimally supplied with collected and stored rainwater. According to Boku University of Natural Resources and Life Sciences studies, this also improves the greening effect by 50%.

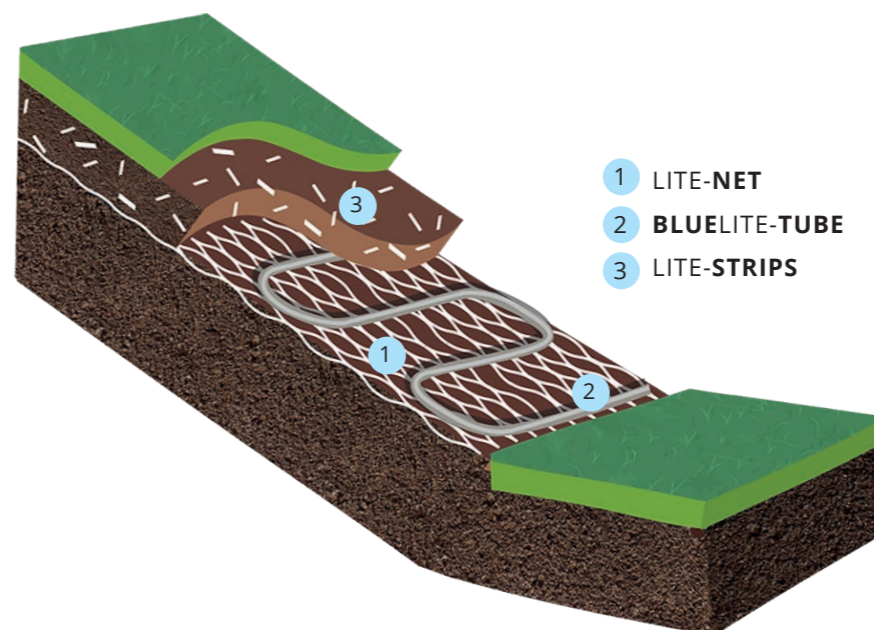
The extremely flexible non-woven nets adapt perfectly to the subsoil, thereby forming a stable micro relief parallel to the slope and thus reducing erosion. Due to the good interlocking, the LITE-NET requires little fastening. In addition, the net shape is storm-proof, unlike full-surface mats. On steeper slopes, the water storage nets can be easily secured with standard ground hooks.

Also due to the meander effect, the water storage capacity is additionally increased compared to full-surface mats, since water cannot run off in a fall line. Plant growth is promoted by direct light penetration and additional plants can be easily inserted in the net gaps.

LITE-NET

For long-term slope greening, the permanent LITE-NET variants **Bio5** or **PP** are laid at root depth (approx. 10-15 cm for grass). Due to the improved plant growth and because the roots grow through the net openings and anchor themselves to the net, large-scale surface stabilization is created. Water is evenly distributed in the net and stored close to the roots.

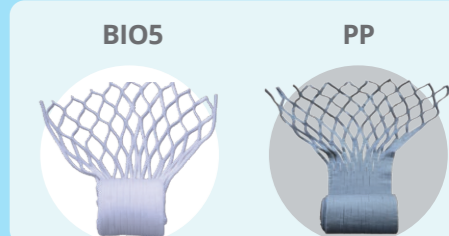
For subsurface slope irrigation, non-woven protected drip irrigation tubes (**BLUELITE-TUBE**) are laid directly onto the LITE-NET laid at the root depth across the direction of fall. With the **BLUELITE-NET** combination, slopes are irrigated effectively, economically, without vandalism, permanently and without evaporation. The open net form does not create a sliding plane, on the contrary, the stability of the slope is supported.



LITE-STRIPS

In order to quickly get water running off the slope surface into the subsoil, additional LITE-STRIPS can be mixed into the soil. These make the soil more permeable to air, store water directly at the roots and stabilise the topsoil cover like tensile inserts.

1



LITE-NET		thickness
		mm
LITE-NET Standard Roll C20 (meshes Ø 13 cm)	57 m ² 3,5 x 16,3 m	6/8
	85 m ² 5,2 x 16,3 m	6/8

2

BLUELITE-COVER WITH/WITHOUT TUBE	
BLUELITE-COVER (PP)	25 m
BLUELITE-TUBE	100 m

3

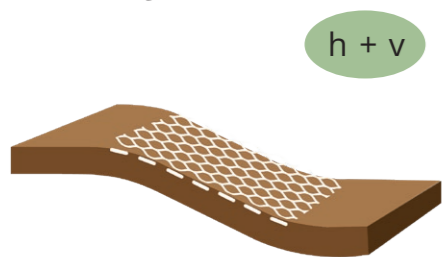


Size LITE-STRIPS	70 x 12 x 6 mm
Order sizes	BOX 250 l BOX 5 x 50 l BIG BAG 1 m ³

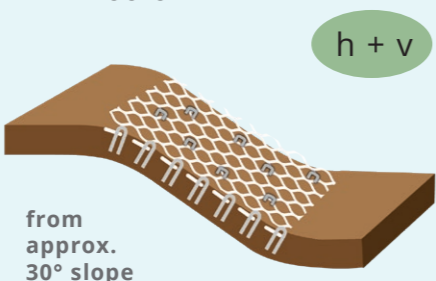


INSTALLATION RECOMMENDATION

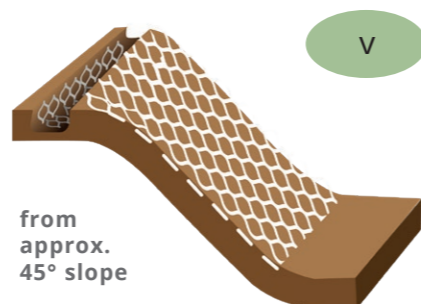
FREE LAYING



EARTH HOOKS



EMBEDDING TRENCH



Laying directions:

h

horizontal



v

vertical



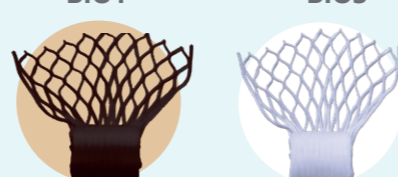
Coir mat after 3 months



LITE-NET after 3 months

BIO1

BIO5



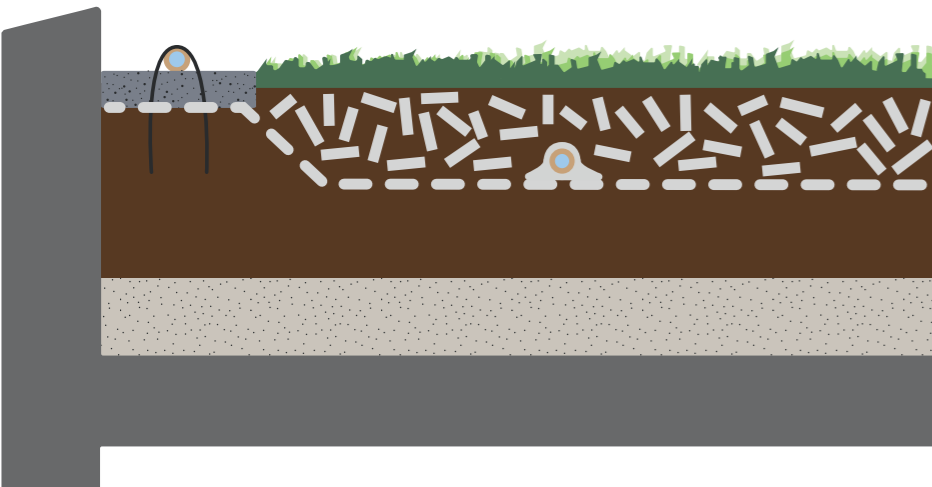
		thickness
		mm
LITE-NET Slope Roll C14 (meshes Ø 9 cm)	50 m ² 3,5 x 14,3 m	4/6
	75 m ² 5,2 x 14,3 m	4/6

LITE-STRIPS

For green roofs, one important feature of all **LITE-SOIL** products comes into its own: their very low weight.

Since our water storage non-wovens in strip and net form consist of approx. 90% open and interconnected air pores, they can absorb about 8 times as much water per kg as conventional products (e.g. porous clay pellets).

Depending on the thickness, approx. 1-2 l/m² mixed into the substrate, **LITE-STRIPS PP** absorb water from the surface into the substrate and function permanently as additional water storage at root depth as well as a soil loosener.



LITE-NET

By additionally laying a **LITE-NET** as rooting water storage at root depth, underground irrigation including aeration can be carried out very easily. The water is distributed over a large area in the net and directed exactly where it is needed. Thanks to the open and flexible shape of the net, roots can dock onto the non-woven net all around and thus extract 100% of the water stored in the net (up to 10 l/m² depending on the variant) if required.

In addition to anchoring the roots of the individual plants, the **LITE-NET** can also be fixed to the subsoil, thereby preventing the so-called detachment of extensive greenery or the slipping of sloping roof greenery.

BLUELITE-NET

In addition, with the cost-effective **BLUELITE-NET** system, evaporation-free underground irrigation is possible at any time and continuously, even if the roof terrace is being used.

If the plant substrate is hydraulically pumped, the smaller **LITE-CUBES PP** can be premixed as an additional water reservoir.

LITE-STRIPS PP



LITE-NET PP



Size LITE-STRIPS	70 x 12 x 6 mm
Order sizes	BOX 250 l BOX 5 x 50 l BIG BAG 1 m ³

PP



BLUELITE-COVER WITH/WITHOUT TUBE	
BLUELITE-COVER	25 m
BLUELITE-TUBE	100 m

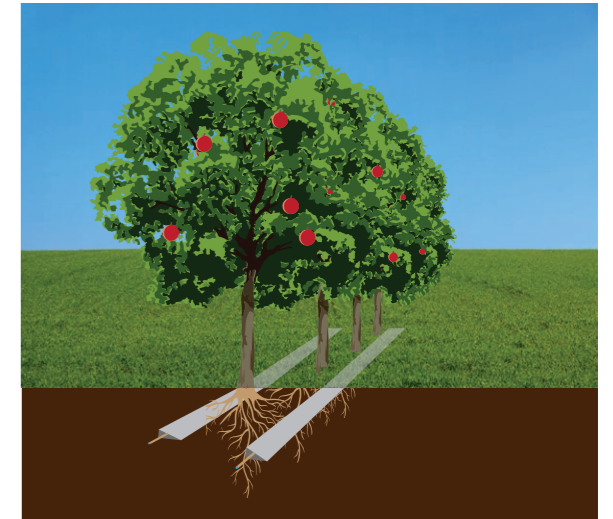
	LITE-NET PP	thickness mm
Roll	28 m ² 1,75 x 16,3 m	6
C20	57 m ² 3,5 x 16,3 m	6/8
	85 m ² 5,2 x 16,3 m	6/8

Vegetation net in different variants

BLUELITE-NET

By installing our cost-effective **BLUELITE-NET** irrigation system underground (see page 7), there is no evaporation loss, UV damage, surface felting, damage caused by bites or vandalism. Due to the targeted supply close to the roots, not only water but also fertilizer can be saved.

The drip irrigation pipes, which can be laid at any depth, are protected against roots growing inside and clogging by soil fines by means of a robust non-woven covering. In addition, the water is evenly distributed in the non-woven and the water/soil contact area is increased a thousandfold. The flexible **BLUELITE-TUBE** is used for curved laying, and our cost-effective **BLUELITE-AGRI** for straight laying. The tubes can also be installed subsequently, e.g. by means of slot drains.



BLUELITE-AGRI for existing orchards

LITE-NET + LITE-STRIPS

For large-scale irrigation, the non-woven protected irrigation pipe is combined with an easy-to-assemble **LITE-NET PP** distribution non-woven.


In addition, the water-storing and substrate-improving **LITE-STRIPS** or vegetation nets for trees can also be used.




BLUELITE-NET for new plantings

A LITE-NET **B** BLUELITE-TUBE **C** LITE-STRIPS


BIO1



BIO5



PP




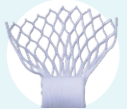
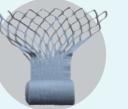
LITE-STRIPS	
Size LITE-STRIPS	70 x 12 x 6 mm
Order sizes	BOX 250 l BOX 5 x 50 l BIG BAG 1 m ³

BLUELITE-NET	
BLUELITE-COVER	25 m
BLUELITE-TUBE	100 m
BLUELITE-AGRI	100 m
BLUELITE-RING	10 pcs. Ø 50 cm

+

	LITE-NET	thickness mm
Roll	28 m ² 1,75 x 16,3 m	6
C20	57 m ² 3,5 x 16,3 m	6/8
	85 m ² 5,2 x 16,3 m	6/8

Vegetation net in different variants

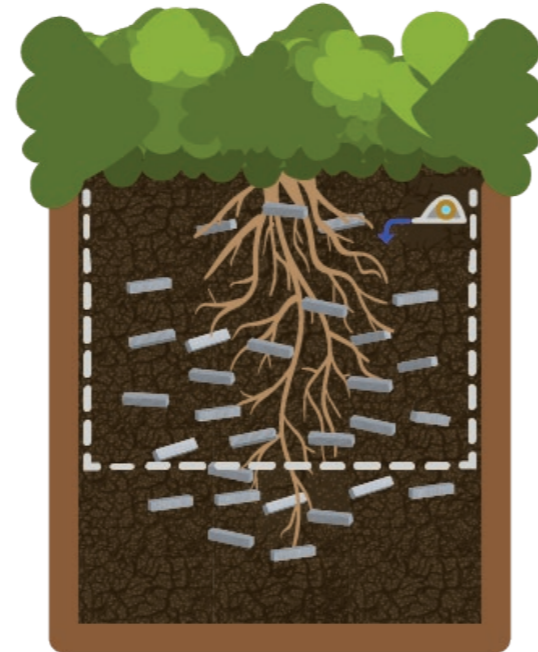




LITE-NET + LITE-STRIPS

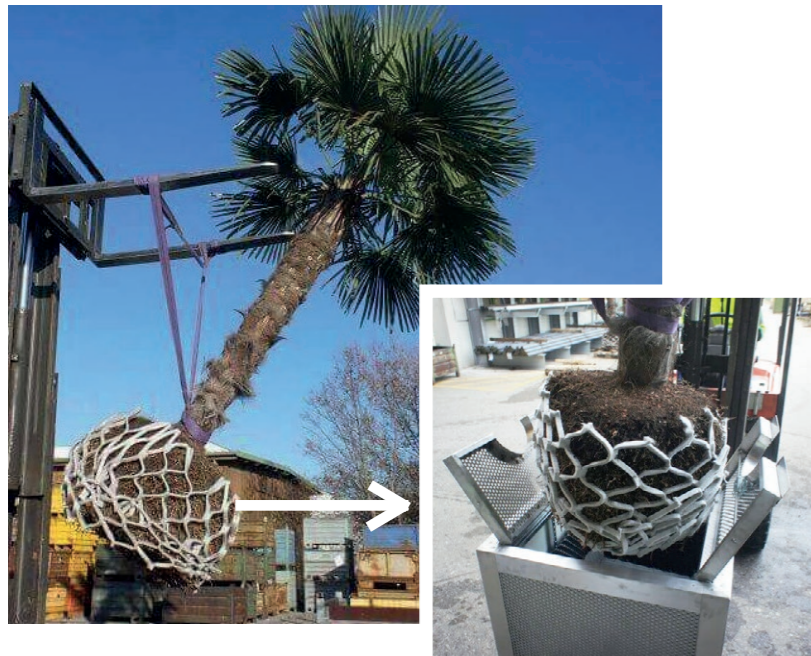
For raised planting beds and planting pots, about 5-10% by volume of the extremely water retentive LITE-STRIPS is mixed into the soil. This improves the mixture and makes it more permeable. The water stored in the approx. 7 cm long non-woven STRIPS is 100% available to the roots when needed and watering intervals are increased. LITE-STRIPS can also not be overwatered, they are ideal for peat-free soil. 1 kg of LITE-STRIPS store up to 10 l of water.

The cost-effective LITE-STRIPS are available in 3 different materials. There is a durable and often reusable PP version, a Bio5 after about 5-10 years and a Bio1 100% biodegradable/compostable version after about one year.

Prefabricated LITE-NET non-woven nets can also be installed for better water and air distribution. The thick none-woven nets consist of approx. 90% air pores and can store water very well and use their capillary action.



- aerification
- cultivation pots
- site protection
- tree nurseries
- tree root aeration
- landfills
- railroad embankments
- drainage
- erosion control
- driveways and sidewalks
- cemetery planting
- surface drainage
- filter basins
- lawns and turf
- side roads
- parking areas
- constructed wetlands
- plantations
- grass pavers
- riding arenas
- spray greening
- ski slopes
- dams
- road salt protection
- bank protection
- vegetation and supporting layer
- event sites
- infiltration basins
- viticulture
- desert greening



LITE-STRIPS



Size LITE-STRIPS	70 x 12 x 6 mm
Order sizes	BOX 250 l BOX 5 x 50 l BIG BAG 1 m³

LITE-NET



LITE-NET Tree	L	90 pcs.	1,5 x 0,8 m
	XL	45 pcs.	1,75 x 1,6 m



BLUELITE-NET



GOLF COURT



INFILTRATION BASIN



PLANTING POTS



RAISED PLANTING BEDS



TREE PIT LITE-STRIPS



TREE PIT DISTRIBUTION NET



LARGE TREE TRANSPLANTATION

PRODUCT RECOMMENDATIONS

TECHNICAL CHARACTERISTICS

Our products are made of long-time proven geotextiles, which are optimized for any type of soil. Up to 90% of the volume consists of interconnected air pores, which can store water and redistribute it by capillary action. All the water is thus immediately available to plants. All our products are available in 3 different materials:

	TREES				SLOPES			SPORTS FIELDS & LAWNS			FRUIT & VITI-CULTURE		GREEN ROOFS		RAISED PLANTING BEDS		
	GROWING	LONG-TERM	IRRIGATION	LARGE TREE-TRANSPLANTATION	GROWING	LONG-TERM	IRRIGATION	GROWING	LONG-TERM	IRRIGATION	LONG-TERM	IRRIGATION	LONG-TERM	IRRIGATION	1 YEAR	LONG-TERM	IRRIGATION
LITE-STRIPS																	
Bio1	•				•			•							•		
Bio5	•	•	•		•	•		•	•		•					•	•
PP		•	•			•	•		•	•	•	•	•			•	•
LITE-NET TREE																	
Bio1	•			•											•		
Bio5	•	•	•	•							•					•	•
PP		•	•	•							•					•	•
LITE-NET C14																	
Bio1					•										•		
Bio5					•	•			•							•	
LITE-NET C20																	
Bio1	•			•											•		
Bio5																•	•
PP		•	•	•		•	•		•	•	•	•	•			•	•
BLUELITE-NET																	
COVER			•				•		•		•		•				•
TUBE			•				•		•		•		•				•
RING			•								•						•
AGRI			•								•						

		weight	thickness
BIO1	WOOD FIBER (100% cellulose fibers) 100% biodegradable after about 1-2 years.	330 g/m ²	4 mm
		600 g/m ²	6 mm
BIO5	PLA (70% PLA + 30% cellulose fibers) 100% biodegradable/compostable after approx. 5-10 years	500 g/m ²	6 mm
PP	PP (100% polypropylene fibers) durable, reusable and sustainable	600 g/m ²	6 mm
		1050 g/m ²	8 mm

Standard products overview

		Bio1		Bio5	PP		
		4mm	6mm	6mm	4mm	6mm	8mm
LITE-STRIPS *							
70 x 12 mm	1 m ³ BB		X	X		X	
70 x 12 mm	5 x 50 l Box		X	X		X	
70 x 12 mm	250 l Box		X	X		X	
LITE-CUBES							
12 x 12 mm	1 m ³ BB		X	X		X	
12 x 12 mm	250 l Box		X	X		X	
LITE-NET							
LITE-NET Tree							
L: 1,5 x 0,8 m	90 pcs. Box		X	X		X	
XL: 1,75 x 1,6 m	45 pcs. Box		X	X		X	
LITE-NET Slope (Roll C14 = meshes Ø 9 cm)							
350: 3,5 x 14,3 m	50 m ²	X	X	X			
520: 5,2 x 14,3 m	75 m ²	X	X	X			
LITE-NET Standard (Roll C20 = meshes Ø 13 cm)							
175: 1,75 x 16,3 m	28 m ²		X	X		X	
350: 3,5 x 16,3 m	57 m ²			X		X	X
520: 5,2 x 16,3 m	85 m ²			X		X	X
BLUELITE-NET							
BlueLite-Cover	25 m					X	
BlueLite-Tube	100 m					X	
BlueLite-Agri	100 m					X	
BlueLite-Ring	10 pcs. Ø 50 cm					X	
LITE- Rootprotect							
Root bandage	8 pcs. 0,1 x 8 m	X					
Root curtain M	0,8 x 20 m	X					
Root curtain L	1,2 x 20 m	X					

* LITE-STRIPS kg/m³: Bio1 = 50 kg | Bio5 = 45 kg | PP = 50 kg

Distributed by:



LITE-SOIL

All in ONE: Air-Soil-Water

Awards



1st prize in the category environment Young Entrepreneurs 2020 (AT)



TÜV Science Award in the category Business Audience Award 2019 (AT)



Environmental Award City of Vienna nominated 2019 (AT)



Austrian Patent award nominated 2018 (AT)



1st prize Flormart 2018 (IT)



Award for pioneering innovation- iLab 2020



AGRI-WATER Challenge Cape Town 2018 - Finalist (ZA)



City of Vienna - New Building Climate Protection Award 2018 (AT)



1st prize Myplant 2018 (IT)



Silver Medal demopark 2017 (DE)



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Registered at the Commercial Court of Vienna under: FN 441243m Vienna Chamber of Commerce - UID number: ATU 70014325

LITE-SOIL®

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