

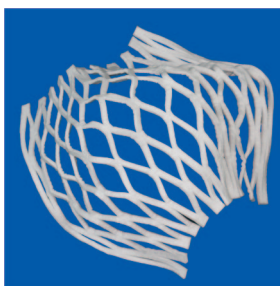
## Lite-Net

**Lite-Nets** offer a very high water and air discharge capacity and are used for the **aeration and irrigation** of plant roots. The nets can be easily covered with soil and also connected up to the surface. Exposed to the elements, the **Lite-Net** can absorb air and water which will be discharged and distributed down at the **root level**.

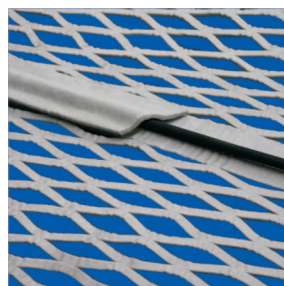
In the case of **slope greening**, the net is applied directly at surface slope to offer high water storage capacity. The extremely flexible net adapts perfectly to all terrains, thereby **improving erosion control**.

## Lite-Net Plus

Our **Lite-Net Plus** irrigation system has been developed for the underground irrigation of athletic fields, green roofs and lawns to save both water (up to 70%) and money. **Lite-Net Plus** consists of an **irrigation pipe** which feeds the water into a nonwoven **distribution net** which spreads water extensively and consistently at the root level. The nonwoven **Lite-Net Plus** can be placed in soil at any depth to best meet plant needs. This includes placing **Lite-Net Plus** in many formations or layers. The result: a wide variety of plants are provided with the air and moisture they need to grow and thrive.

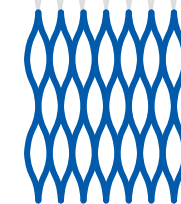


Lite-Net



Lite-Net Plus

„Let's create  
a greener world!"



**LITE-SOIL**  
All in ONE: Air-Soil-Water

## Lite-Drain Aeration and Irrigation Systems

The latest innovation  
for sustainable plant growth

**Lite-Soil GmbH**  
Neustiftgasse 94/23  
A-1070 Vienna  
T +43 1 5227310  
office@lite-soil.com  
www.lite-soil.com



FN 441243 m Commercial Court Vienna  
Managing Directors: Thomas Eichenauer, Dorothea Sulzbacher

## Lite-Drain

When integrated into the soil, the three-dimensional **Lite-Drain** improves the distribution of air and water in the soil, thereby increasing **stable and consistent growth**.

**Lite-Drains** are strips cut from thick nonwoven geotextiles (**Lite-Strip**) and nets (**Lite-Net**). The water storage nonwovens consist of fine fibres, offering an extremely high **voids content of up to 90%**, and are made from environmentally friendly, high strength and rot resistant polypropylene. Other biologically degradable materials are also available.

## Lite-Strip

**Lite-Strips** mainly act as a **water storage** medium. In this case, the thick nonwoven strips are mixed into the soil. Up to 90% of the nonwoven volume can be filled with water, thereby helping the plants to survive long periods of drought.

In **roof gardening** applications, the high water storage capacity of the light nonwoven strips results in **low weight** compared to conventional materials, such as expanded clay beads.

In the **aerification of athletic fields** and other lawns, the strips are inserted vertically into the ground. Water and air from the surface is discharged at a lower level. This new form of aerification reduces „felting” of the roots which can in turn grow deeper.



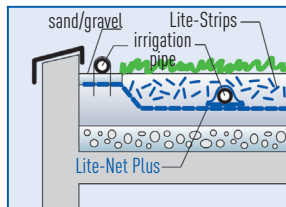
Lite-Strip



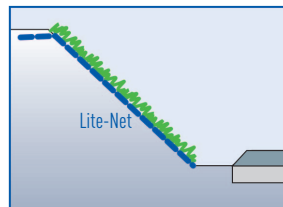
## Key Advantages

- + large water storage / drainage capacity
- + optimal soil aeration
- + simple installation
- + three-dimensional installation possible
- + improved vegetation growth
- + cost-effective
- + light weight
- + erosion control
- + particularly suitable for challenging conditions, such as erosion, drought, deserts, silting and slopes

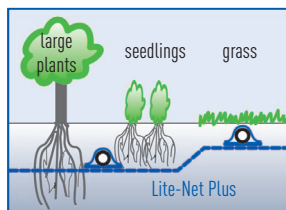
## Potential Applications



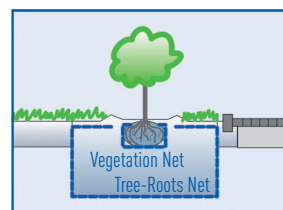
Roof greening



Slope greening



Plant roots may easily grow through the Lite-Net!



Aeration and irrigation of trees in cities / moving large trees



Aeration and irrigation of trees in cities / moving large trees



Slope greening



Roof greening



Irrigation of athletic fields and other lawns



Aeration of golf courses



Air and water storage in raised planting beds

## Investigation of the Vienna University of Natural Resources and Life Sciences

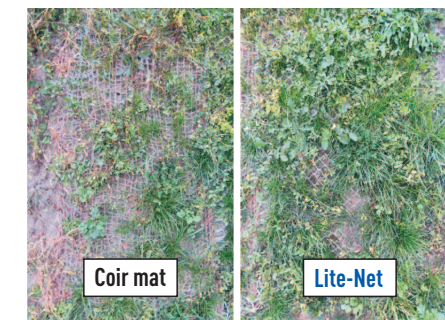
In order to investigate the irrigation efficiency of Lite-Drains, the University of Natural Resources and Life Sciences, Vienna carried out a series of laboratory and field tests.



- + After 24 hours the nonwoven net stores 6 times more water than coir mats
- + The growth factor of nonwoven nets is 50% higher than that of coir mats
- + Nonwoven strips mixed with soil stores 8 times more water than expanded clay beads (LECA)



Test slope at the Vienna University



Vegetation of coir mat (left) and Lite-Net (right) after 3 months of extreme drought