



# LITE-SOIL

All in ONE: Air-Soil-Water

## Tender texts for green roofs: Textile water storage and underground irrigation

### TECHNICAL CHARACTERISTICS

Our products are made of long-time proven nonwovens, 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.

PP

PP (100% polypropylene fibers)  
durable, reusable and sustainable

360 g/m<sup>2</sup>      3 mm

600 g/m<sup>2</sup>      5 mm

### Standard products overview

			PP	
			3 mm	5 mm
<b>LITE-STRIPS *</b>	Units	Weight in Kg approx.		
70 x 12 mm	1 m <sup>3</sup> BB	50/45/50		X
70 x 12 mm	5 x 50 l Box	12/11/12		X
70 x 12 mm	250 l Box	12/11/12		X
<b>LITE-NET **</b>				
LITE-NET Standard (Roll C20 = meshes Ø 13 cm)				
175: 1.75 x 16.3 m	28 m <sup>2</sup>	6/5/6		X
350: 3.5 x 16.3 m	57 m <sup>2</sup>	10/11		X
520: 5.2 x 16.3 m	85 m <sup>2</sup>	14/16		X
<b>BLUELITE-NET COMPONENTS</b>				
BLUELITE-COVER	25 m <small>(16 pcs. of 25m in a 25kg box)</small>		X	
BLUELITE-TUBE	100 m	14	X	
BLUELITE-TUBE	20 pcs. 100 m		X	
BLUELITE-RING	10 pcs. Ø 50 cm	4	X	

\* LITE-STRIPS: | PP = 50 kg/m<sup>3</sup>

\*\* Specifications are maximum sizes. Recommendation: For optimal results and easier installation, reduce the laying width e.g., instead of 5.2 m only 4 - 4.5 m (area reduction approx. 10 - 15%).

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## Tender texts for permanent green roofs by means of near-root water storage made of nonwovens (LITE-STRIPS / LITE-NET), as well as underground irrigation (BLUE-LITENET):

1. LITE-NET Standard, rolls: Water storage and distribution net
2. LITE-STRIPS: Water storage and aeration close to the roots in strip form
3. BLUE-LITE-NET: Water-saving underground irrigation

### 1. LITE-NET rolls:

Für die unterirdische Luft- und Wasserversorgung in je 3 Größen und 2 Dicken, aus dauerhaftem Wasserspeichervlies geschnitten. Verlegung in Wurzeltiefe.



PP

### Designation declaration, e.g. for PP 520 C20/6:

- PP:** There are basically 3 material variants: Bio1, Bio5 or durable PP (polypropylene)
- 520:** Bei einer auseinandergezogenen Breite von 520 cm ergibt sich die größtmögliche Fläche
- C20:** Durch die Schnittlänge von 20 cm ist der Maschenweite  $\varnothing$  ca. 13 cm, Netzfläche ca. 85 m<sup>2</sup>, (bei C14 ist die Schnittlänge 14 cm, die Maschenweite  $\varnothing$  ca. 9 cm, die Netzfläche ca. 75 m<sup>2</sup>) C20 ist Standard, C14 ist für oberflächige Böschungsbegrünung.
- /6:** Dicke ca. 6 mm. Bei C20 gibt es 6 oder 8 mm Varianten.

### 1.1 LITE-NET Standard roll PP C20/5:

Net-shaped water storage nonwoven as a **permanent** vegetation aid, installed underground for conducting, distributing and temporarily storing water and air at the root level, cut from PP - needle nonwoven (approx. 600 g/m<sup>2</sup>, UV stabilized, thickness approx. 5 mm, pore content/water storage  $\geq$  85%, pore opening width  $<$  80  $\mu$ m (EN ISO 12956), maximum tensile force  $\geq$  40 kN/m (EN ISO 10319)). Rootable drainage net with **mesh size  $\varnothing$  approx. 13 cm**, can be pulled apart to at least 5 times the width.

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## Delivery form:

- PP 175 C20/5: **Net area max. 28 m<sup>2</sup>** with appr. 1,75 x 16,3 m.  
roll with width appr. 0,4 m, length appr. 20 m, Ø ca. 0,35 m, weight appr. 4,8 kg.
- PP 350 C20/5: **Net area max. 57 m<sup>2</sup>** with appr. 3,5 x 16,3 m.  
roll with width appr. 0,8 m, length appr. 20 m, Ø ca. 0,35 m, weight appr. 9,6 kg.
- PP 520 C20/5: **Net area max. 85 m<sup>2</sup>** with appr. 5,2 x 16,3 m.  
roll with width appr. 1,2 m, length appr. 20 m, Ø ca. 0,35 m, weight appr. 14,4 kg.

## 2. LITE-STRIPS PP:

As substrate improvement and water storage close to the roots for lawns, made of durable PP nonwoven/felt (polypropylene):



PP

Water storage nonwoven in strip form (approx. 70/12/5 mm) for mixing into the soil as irrigation close to the roots and vegetation aid as well as for improving substrate permeability and against compaction, cut from **durable** PP needle-punched nonwoven (approx. 600 g/m<sup>2</sup>, UV stabilized, thickness approx. 5 mm, pore content/water storage ≥ 85%, water storage capacity up to approx. 10 l/kg, pore opening width < 80 µm (EN ISO 12956), maximum tensile strength ≥ 40 kN/m (EN ISO 10319)).

Mixing ratio, for lawns approx. 0.5 to 1.0 l per m<sup>2</sup>, for green roofs approx. 1.0 - 2.0 l/m<sup>2</sup>, for raised planting beds 5-10 l per m<sup>2</sup>, approx. 10-20 l per tree pit, approx. 3 % vol. for large volumes, 5 - 10 % of vol. for smaller plant pots.

**Delivery form:** 5 x 50l, 250l or 1000l (ca. 50 kg)

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## 3. BLUELITE-NET:

For **water-saving underground** irrigation of lawns, athletic fields, golf courses, green roofs, slopes, etc.

**(system consisting of 2 components, a distribution net and a nonwoven-covered drip tube laid on top of it):**



### 3.1 LITE-NET Standard roll PP (component 1):

C20/5 (1.1)

+

### 3.2 BLUELITE-TUBE (component 2):

Nonwoven covered drip irrigation tube (Rivulis D5000 PCAS hose with 16 mm (13.8 / 15.83 mm), 0.5 - 3.5 bar, 40 mil (1.02 mm), 1.5 l/h, 30 cm dripper distance).

Protective nonwoven cover with water distribution function made of durable PP needle nonwoven (approx. 360 g/m<sup>2</sup>, UV stabilized, thickness approx. 3.3 mm, pore opening width < 90 µm (EN ISO 12956)), maximum tensile force ≥ 25 kN/m (EN ISO 10319), width approx. 5 cm, for laying on LITE-NET drainage nonwoven mesh with spacing approx. 50 - 60 cm (if required, fastening by means of plug-in bracket).

**Roll length appr. 100 m.**

or

### 3.3 BLUELITE-COVER (component 2, without drip irrigation tube):

Protective and distribution nonwoven cover for drip irrigation pipes, made of durable PP needle nonwoven (approx. 360 g/m<sup>2</sup>, UV stabilized, thickness approx. 3.3 mm, pore opening width < 90 µm (EN ISO 12956)), maximum tensile force ≥ 25 kN/m (EN ISO 10319), width approx. 5 cm, for insertion of own or individual irrigation tubes for laying on LITE-NET drainage nonwoven net with spacing approx. 50 -60 cm (if required, fastening by means of plug-in bracket).

**Roll length appr. 25 m.**

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