



LITE-SOIL

All in ONE: Air-Soil-Water

Tender texts for slope products for permanent 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

weight	thickness
360 g/m ²	3 mm
600 g/m ²	5 mm

Standard products overview

			PP	
			3 mm	5 mm
LITE-STRIPS *	Units	Weight in Kg approx.		
70 x 12 mm	1 m ² 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
LITE-NET **				
LITE-NET Standard (Roll C20 = meshes Ø 13 cm)				
175: 1.75 x 16.3 m	28 m ²	6/5/6		X
350: 3.5 x 16.3 m	57 m ²	10/11		X
520: 5.2 x 16.3 m	85 m ²	14/16		X
BLUELITE-NET COMPONENTS				
BLUELITE-COVER	25 m	(16 pcs. of 25m in a 25kg box)	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/m²

** 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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Status January 2024, other sizes and materials on request





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Tender specification texts for underground slope products for permanent greening and irrigation:

1. LITE-**NET** Standard, roll material: water storage and distribution net
2. LITE-**STRIPS**: Water storage and aeration close to the roots in strip form
3. **BLUELITE-NET**: Water-saving underground irrigation

1. LITE-**NET** rolls:

For underground air and water supply in 3 sizes each, 2 materials and 2 thicknesses.
Installation at root depth.



Bio5



PP

Designation declaration, e.g. for Bio5 520 C20/6:

Bio5: there are 3 material variants: Bio1, Bio5 or PP

520: With a width of 520 cm pulled apart, the largest possible area is obtained

C20: Due to the cut length of 20 cm, the mesh size \emptyset is approx. 13 cm, net area approx. 85 m², (with C14 the cut length is 14 cm, the mesh size \emptyset approx. 9 cm, the net area approx. 75 m²) C20 is standard, C14 is for superficial slope planting.

/6: Thickness approx. 6 mm. For C20 there are 6 or 8 mm, for C14 there are 4- or 6-mm variants.

1.1 LITE-**NET** Standard roll Bio5 C20/6:

Net-shaped water storage nonwoven as vegetation aid, installed underground for conducting, distributing and temporarily storing water and air at the root level, cut from 100 %

biodegradable/compostable PLA needle nonwoven (approx. 70 % PLA + 30 % cellulose, approx. 500 g/m², thickness approx. 6 mm, pore content/water storage \geq 85 %, **degradation time approx. 5-10 years**). Rootable drainage net with mesh size \emptyset approx. 13 cm, can be pulled apart to at least 5 times the width.

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Delivery form:

- a. Bio5 175 C20/6: **Net area max. 28 m²** 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. 4,0 kg.
- b. Bio5 350 C20/6: **Net area max. 57 m²** 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. 8 kg.
- c. Bio5 520 C20/6: **Net area max. 85 m²** 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. 12 kg.

1.2 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/m²**, UV stabilized, thickness approx. **5 mm**, pore content/water storage $\geq 85\%$, pore opening width $< 80 \mu\text{m}$ (EN ISO 12956), maximum tensile force $\geq 40 \text{ kN/m}$ (EN ISO 10319)). Rootable drainage net with **mesh size Ø approx. 13 cm**, can be pulled apart to at least 5 times the width.

Delivery form:

- a. PP 175 C20/5: **Net area max. 28 m²** 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.
- b. PP 350 C20/5: **Net area max. 57 m²** 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.
- c. PP 520 C20/5: **Net area max. 85 m²** 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.

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2. LITE-STRIPS:

As substrate improvement and near-root water storage for lawns, and slopes in 2 material variants:



Bio5



PP

2.1 LITE-STRIPS Bio5:

Water storage nonwoven in strip form (approx. 70/12/6 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 100 % **biodegradable/compostable** PLA needle nonwoven (approx. 70% PLA + 30 % cellulose, approx. 500 g/m², thickness approx. 6 mm, pore content/water storage \geq 85%, water storage capacity up to approx. 10 l/kg, **degradation time approx. 5-10 years**).

Mixing ratio for lawns approx. 0.5 to 1.0 l per m²

Delivery form: 5 x 50l, 250l or 1000l (ca. 45 kg)

2.2 LITE-STRIPS 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/m², UV stabilized, thickness approx. 5 mm, pore content/water storage \geq 85%, water storage capacity up to approx. 10 l/kg, pore opening width < 80 μ m (EN ISO 12956), maximum tensile strength \geq 40 kN/m (EN ISO 10319)).

Mixing ratio for lawns approx. 0.5 to 1.0 l per m²

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 (1.2)

+

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/m², 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/m², 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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