



LITE-SOIL

All in ONE: Air-Soil-Water

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

TECHNICAL CHARACTERISTIC

The products are made of long-time proven nonwovens, which are optimized for any type of soil. Up to 90% of 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. The products are available in polypropylene. Weight: 600g/m² (5mm thickness), 900g/m² (7mm thickness).

Products overview

| | | PP | | |
|--|---------------------|------|------|------|
| | | 3 mm | 5 mm | 7 mm |
| LITE-STRIPS* | | | | |
| 70 x 12 mm | 1 m ³ BB | | X | |
| 70 x 12 mm | 5 x 50 l Box | | X | |
| 70 x 12 mm | 250 l Box | | X | |
| LITE-NET STANDARD (Roll C20 = Meshes Ø 13 cm)** | | | | |
| 175: 1,75 x 16,3 m | 28 m ² | | X | |
| 350: 3,5 x 16,3 m | 57 m ² | | X | X |
| 520: 5,2 x 16,3 m | 85 m ² | | X | X |
| BLUELITE-NET | | | | |
| BLUELITE-COVER | 25 m | X | | |
| BLUELITE-TUBE | 100 m | X | | |
| BLUELITE-TUBE | 20 pcs. 100m | X | | |
| BLUELITE-RING | 10 pcs. Ø 50 cm | X | | |

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

** the m² dimensions are maximum sizes. Recommendation: for optimal results and easier installation, reduce design width e.g., instead of 5.2 m only 4 - 4.5 m (area reduction approx. 10 - 15%).

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Stand Apr 23, **weitere Größen und Materialien auf Anfrage**





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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 m², (bei C14 ist die Schnittlänge 14 cm, die Maschenweite \varnothing ca. 9 cm, die Netzfläche ca. 75 m²) 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/m², UV stabilized, thickness approx. 5 mm, pore content/water storage \geq 85%, pore opening width $<$ 80 μ 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:

- 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.

1.2 LITE-NET Standard roll PP C20/7:

Net-shaped water storage nonwoven as a **permanent** vegetation aid, installed underground for conducting, distributing and temporarily storing water and air in the, cut from PP needle-punched nonwoven (approx. **900 g/m²**, UV stabilized, thickness **≥ 7 mm**, pore content/water storage **≥ 85%**, pore opening width **≤ 65 µm** (EN ISO 12956), maximum tensile force **≥ 60 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 350 C20/7: **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. 0,43 m, weight appr. 14,4 kg.
- b. PP 520 C20/7: **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. 0,43 m, weight appr. 20 kg.

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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/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, for green roofs approx. 1.0 - 2.0 l/m², for raised planting beds 5-10 l per m², 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):

Distribution net with 2 thicknesses, C20/5 or C20/7 (1.1 and 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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