

LITE-SOIL

All in ONE: Air-Soil-Water

Tender texts LITE-NET, LITE-STRIPS, irrigation and site protection for trees

1. LITE-NET (vegetation net, distribution net, rolls)

1.1 LITE-NET tree: ready-made vegetation as well as distribution nets for planting new trees in 2 sizes* and 3 materials:

LITE-NET tree Bio1 L:

Ready-made drainage net for large-scale underground water and air supply of root balls, cut from 100 % biodegradable wood-based cellulose needle punched geotextile (approx.600 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**1-2 years**). Rootable nonwoven net with mesh size Ø approx.10 cm for wrapping around **root balls Ø up to max. 75 cm**, size max. 1.2 m² at approx.1.5 x 0.8 m.

LITE-NET tree Bio1 XL:

Ready-made drainage net for large-scale underground water and air supply of root balls, cut from 100 % biodegradable wood-based cellulose needle punched geotextile (approx.600 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**1-2 years**). Rootable nonwoven net with mesh size Ø approx.13 cm for wrapping around **root ball Ø approx.60 - 90 cm**, size max. 2.8 m² at approx.1.75 x 1.6 m.

LITE-NET tree Bio5 L:

Ready-made drainage net for large-scale underground water and air supply of root balls, cut from 100% biodegradable/compostable PLA needle punched geotextile (approx.70% PLA + 30% cellulose, approx.500 g/m², thickness approx.6 mm, pore content/water storage ≥ 85%, degradation time approx.5-10 years. Rootable nonwoven net with mesh size Ø approx.10 cm for wrapping around **root balls Ø up to max. 75 cm**, size max. 1.2 m² at approx.1.5 x 0.8 m.

LITE-NET tree Bio5 XL:

Ready-made drainage net for large-scale underground water and air supply of root balls, cut from 100% biodegradable/compostable PLA needle punched geotextile (approx.70% PLA + 30% cellulose, approx.500 g/m², thickness approx.6 mm, pore content/water storage ≥ 85%, degradation time approx.5-10 years. Rootable nonwoven net with mesh size Ø approx.13 cm for wrapping around **root ball Ø approx.60 - 90 cm**, size max. 2.8 m² at approx.1.75 x 1.6 m.

LITE-NET tree PP L:

Ready-made drainage net for large-area underground water and air supply of root balls, cut from durable PP needle punched geotextile (approx.600 g/m², UV stabilized, thickness approx.6 mm, pore content/water storage ≥ 85%, pore opening width < 80 µm (EN ISO 12956), maximum tensile force ≥ 40 kN/m (EN ISO 10319)). Rootable nonwoven net with mesh size Ø approx.10 cm for wrapping around **root balls Ø up to max. 75 cm**, size max. 1.2 m² at approx.1.5 x 0.8 m.

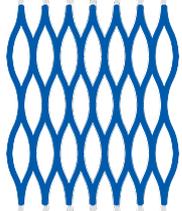
LITE-NET tree PP XL:

Ready-made drainage net for large-area underground water and air supply of root balls, cut from durable PP needle punched geotextile (approx.600 g/m², UV stabilized, thickness approx.6 mm, pore content/water storage ≥ 85%, pore opening width < 80 µm (EN ISO 12956), maximum tensile force ≥ 40 kN/m (EN ISO 10319)). Rootable nonwoven net with mesh size Ø approx.13 cm for wrapping around **root ball Ø approx.60 - 90 cm**, size max. 2.8 m² at approx.1.75 x 1.6 m.



* Other sizes on request

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1.2 LITE-NET roll goods for underground air and water supply of trees in 3 sizes and 3 materials each for individual tailoring as a growing net, distribution net and tree pit net:

LITE-NET Rolle Bio1 175 C20/6:

Water storage and distribution net as an underground vegetation aid, cut from 100 % biodegradable wood-based cellulose needle punched geotextile (approx.600 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**1-2 years**). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 28 m²** at approx.1.75 x 16.3 m.

Delivery form: roll with width approx.0.4 m, length approx.20 m, diameter approx.0.35 m, weight approx.4.8 kg.

LITE-NET Rolle Bio1 350 C20/6:

Water storage and distribution net as an underground vegetation aid, cut from 100 % biodegradable wood-based cellulose needle punched geotextile (approx.600 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**1-2 years**). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 57 m²** at approx.ca. 3,5 x 16,3 m.

Delivery form: roll with width approx. 0,8 m, Length approx. 20 m, diameter approx.0,35 m, weight approx. 9,6 kg.

LITE-NET Rolle Bio1 520 C20/6:

Water storage and distribution net as an underground vegetation aid, cut from 100 % biodegradable wood-based cellulose needle punched geotextile (approx.600 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**1-2 years**). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 85 m²** at approx.5,2 x 16,3 m.

Delivery form: roll with width approx. 1,2 m, length approx. 20 m, diameter approx.0,35 m, weight approx. 14,4 kg.

LITE-NET Rolle Bio5 175 C20/6:

Water storage and distribution net as a long-term, underground vegetation aid, cut from 100 % biodegradable/compostable PLA needle punched geotextile (approx.70 % PLA + 30 % cellulose, approx.500 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**5-10 years**). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 28 m²** at approx. 1,75 x 16,3 m.

Delivery form: roll with width approx.0,4 m, length approx. 20 m, diameter approx.0,35 m, weight approx. 4,0 kg.

LITE-NET Rolle Bio5 350 C20/6:

Water storage and distribution net as a long-term, underground vegetation aid, cut from 100 % biodegradable/compostable PLA needle punched geotextile (approx.70 % PLA + 30 % cellulose, approx.500 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**5-10 years**). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 57 m²** at approx. 3,5 x 16,3 m.

Delivery form: roll with width approx. 0,8 m, length approx. 20 m, diameter approx.0,35 m, weight approx. 8 kg.

LITE-NET Rolle Bio5 520 C20/6:

Water storage and distribution net as a long-term, underground vegetation aid, cut from 100 % biodegradable/compostable PLA needle punched geotextile (approx.70 % PLA + 30 % cellulose, approx.500 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time** approx.**5-10 years**). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 85 m²** at approx. 5,2 x 16,3 m.

Delivery form: roll with width approx. 1,2 m, length approx. 20 m, diameter approx.0,35 m, weight approx. 12 kg.



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LITE-NET Rolle PP 175 C20/6:

Permanent, underground water storage and distribution net, cut from PP needle punched geotextile (approx.600 g/m², UV stabilized, thickness approx.6 mm, pore content/water storage ≥ 85%, pore opening width < 80 µm (EN ISO 12956), maximum tensile force ≥ 40 kN/m (EN ISO 10319)). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 28 m²** at approx. 1,75 x 16,3 m.

Delivery form: roll with width approx.0,4 m, length approx. 20 m, diameter approx.0,35 m, weight approx. 4,8 kg.

LITE-NET Rolle PP 350 C20/6:

Permanent, underground water storage and distribution net, cut from PP needle punched geotextile (approx.600 g/m², UV stabilized, thickness approx.6 mm, pore content/water storage ≥ 85%, pore opening width < 80 µm (EN ISO 12956), maximum tensile force ≥ 40 kN/m (EN ISO 10319)). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max..57 m²** at approx. 3,5 x 16,3 m.

Delivery form: roll with width approx.0,8 m, length approx. 20 m, diameter approx.0,35 m, weight approx. 9,6 kg.

LITE-NET Rolle PP 520 C20/6:

Permanent, underground water storage and distribution net, cut from PP needle punched geotextile (approx.600 g/m², UV stabilized, thickness approx.6 mm, pore content/water storage ≥ 85%, pore opening width < 80 µm (EN ISO 12956), maximum tensile force ≥ 40 kN/m (EN ISO 10319)). Rootable drainage net with mesh size Ø approx.13 cm, can be pulled apart to at least 4 times the width, **net area max. 85 m²** at approx. 5,2 x 16,3 m.

Delivery form: roll with width approx. 1,2 m, length approx. 20 m, diameter approx.0,35 m, weight approx. 14,4 kg.

2. LITE-STRIPS as substrate enhancement and near-root water storage in 3 material variants:

LITE-STRIPS Bio1:

Water storage nonwoven in strip form (approx.70/12/6 mm) for mixing into the soil for irrigation of new tree plantations close to the roots and for improving substrate permeability as well as against compaction, cut from 100% biodegradable wood-based cellulose needle punched geotextile (approx.600 g/m², thickness approx.6 mm, pore content/water storage ≥ 85 %, **degradation time approx.1-2 years**). Approx. 10-20 l per tree.

Delivery form: 5 x 50l, 250l oder 1000l

LITE-STRIPS Bio5:

Water storage nonwoven in strip form (approx.70/12/6 mm) for mixing into the soil for irrigation of new tree plantations close to the roots and for improving substrate permeability as well as against compaction, cut from 100% biodegradable/compostable PLA needle fleece (approx.70% PLA + 30% cellulose, approx.500 g/m², thickness approx.6 mm, pore ratio/water storage ≥ 85%, **degradation time approx.5-10 years**). Approx. 10-20 l per tree.

Approx. 10-20 l per tree.

Delivery form: 5 x 50l, 250l oder 1000l

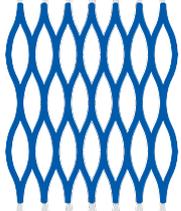
LITE-STRIPS PP:

Water storage nonwoven in strip form (approx.70/12/6 mm) to be mixed into the soil for irrigation of planting new trees close to the roots and for improving substrate permeability as well as against compaction, cut from **durable** PP needle punched nonwoven (approx.600 g/m², UV stabilized, thickness approx.6 mm, pore content/water storage ≥ 85%, pore opening width < 80 µm (EN ISO 12956), maximum tensile force ≥ 40 kN/m (EN ISO 10319)). Approx. 10-20 l per tree.

Delivery form: 5 x 50l, 250l oder 1000l



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3. Active irrigation:

3.1 **BLUELITE-RING** ready made for tree planting:

BLUELITE-RING: nonwoven-covered irrigation tube (3 outlet openings per m, approx.2l water per opening/h, pipe diameter 16 mm) with water distribution function made of durable PP needle punched geotextile (approx.380 g/m², UV stabilized, thickness approx.3.5 mm, pore opening width < 90 µm (EN ISO 12956)), maximum tensile force ≥ 25 kN/m (EN ISO 10319), width approx.6 cm, for covered laying around a tree trunk. Ring diameter approx.50 cm.

3.2 **BLUELITE-TUBE** as well as **BLUELITE-COVER** rolls for individual cutting for new tree planting:

BLUELITE-TUBE:

Nonwoven-covered irrigation tube (3 outlet openings per m, approx.2l water per opening/h, tube diameter 16 mm) with water distribution function made of durable PP needle punched geotextile (approx.380 g/m², UV stabilized, thickness approx.3.5 mm, pore opening width < 90 µm (EN ISO 12956)), maximum tensile force ≥ 25 kN/m (EN ISO 10319), width approx.6 cm, for covered laying around or along trees. **Roll length 100 m.**

BLUELITE-COVER:

Protective and distribution cover made of durable PP needle punched nonwoven (approx.380 g/m², UV stabilized, thickness approx.3.5 mm, pore opening width < 90 µm (EN ISO 12956)), maximum tensile force ≥ 25 kN/m (EN ISO 10319), width approx.6 cm, for individual insertion of irrigation pipes and subsequent covered laying around or along trees. **Roll length 25m.**





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4. Root protection nonwoven for construction sites (LITE-ROOTPROTECT):

4.1 Root curtain in nonwoven form as biodegradable construction site protection with water storage function in 2 widths*:

Root curtain M (80 cm width), 330 g/m²*:

100 % biodegradable water storage and protection nonwoven for root curtain (pore content > 85 %, fiber thickness < 2 dtex, weight approx. 330 g/m², thickness min. 3.5 mm, maximum tensile strength lengthwise/crosswise > 190 N/5 (DIN EN 29073-3)). 100 % needled nonwoven made of cellulose without chemical additives.

Nonwoven can be simply poured over at the end of the construction site and supports approx. 1-2 years of irrigation and deep aeration.

Delivery form: roll with width 80 cm and length 20 m

Root curtain L (120 cm width), 330 g/m

100% biodegradable water storage and protection nonwoven for root curtain (pore content > 85%, fiber thickness < 2 dtex, weight approx. 330 g/m², thickness min. 3.5 mm, maximum tensile strength longitudinal/cross > 190 N/5 (DIN EN 29073-3)). 100 % needled nonwoven made of cellulose without chemical additives.

Nonwoven can be simply poured over at the end of the construction site and supports approx. 1-2 years of irrigation and deep aeration.

Delivery form: roll with width 120 cm and length 20 m

*other thicknesses and lengths on request

4.2 Root bandage in nonwoven form as biodegradable site protection with water storage function:

Root bandage 330 g/m²:

100% biodegradable root bandage to protect exposed roots at construction sites.

Water storage needle nonwoven made of 100% cellulose without chemical additives for moisture retention as well as mechanical and UV protection. Pore content > 85%, fiber thickness < 2 dtex, weight approx. 330 g/m², thickness min. 3.5 mm, maximum tensile strength lengthwise/crosswise > 190 N/5 (DIN EN 29073-3). Nonwoven can simply be poured over at the end of the construction site. Degradation time approx. 1-2 years

Delivery form: 8 rolls with width 10 cm and length 8 m

