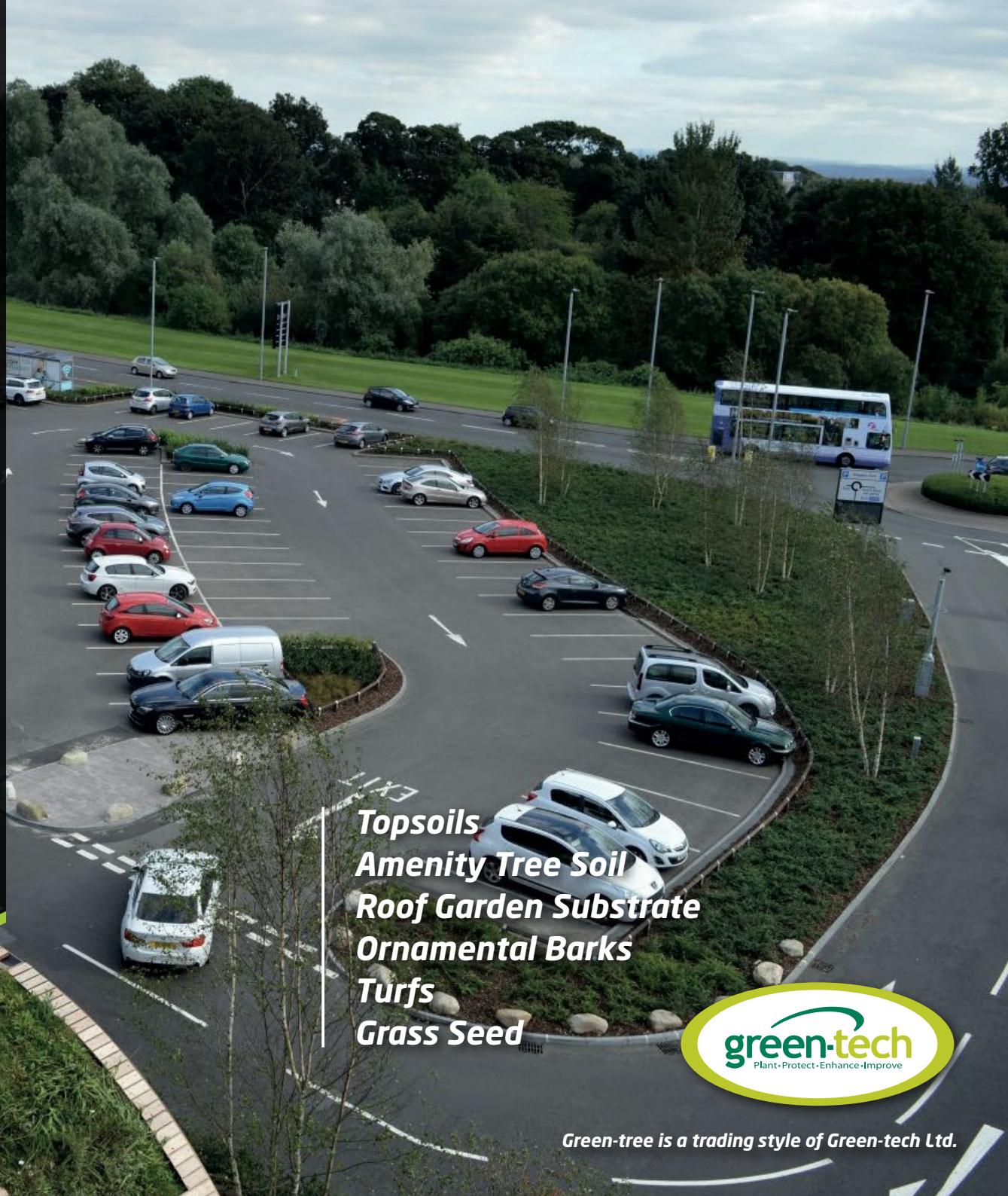




A Guide to Good Soils

Sustainable growing media and ground preparation products for the landscape environment.

www.green-tree.co.uk



**Topsoils
Amenity Tree Soil
Roof Garden Substrate
Ornamental Barks
Turf
Grass Seed**



Green-tree is a trading style of Green-tech Ltd.



Green-tree Topsoil

The Green-tree range of topsoils and growing media is one of the most comprehensive in the industry. Developed in partnership with Landscape Contractors, Architects and Garden Designers the Green-tree portfolio of products guarantees healthy plants and trees. Since 2004, Green-tree topsoil has been specified for use on many high profile projects across the UK.

- Complies with BS3882:2015 standards
- High organic content and fertility
- Environmentally sustainable blend
- Year-round availability
- Friable and easy to work with
- Good water holding capacity
- Peat free

Nutrient Rich

Green-tree topsoil is manufactured from natural by-products of the recycling industry that offer high nutrient content, fertility value and structural components contributing to a rich and organic growing medium. The nutrient rich topsoil of Green-tree ensures quick establishment of trees, plants and turf with no additional fertiliser products required for the first season.

BS3882:2015

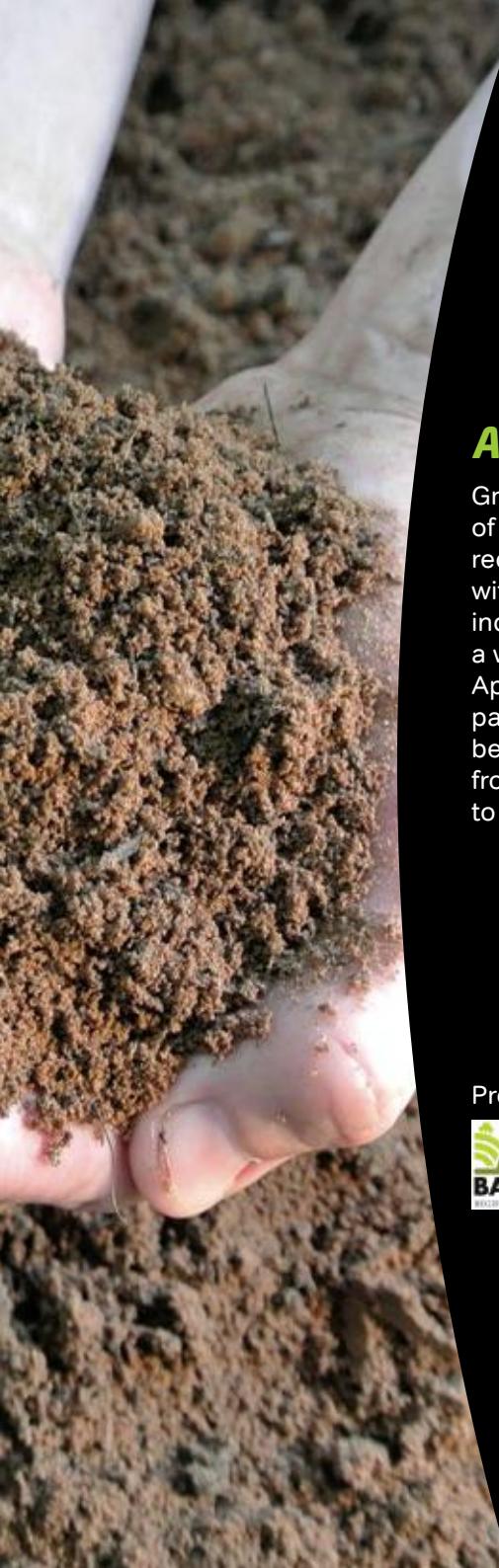
As a topsoil Green-tree complies to BS3882:2015 ensuring the same high quality product is delivered to site no matter the location, local climate or time of year. To maintain compliance with British Standards, Green-tree topsoil is regularly tested by an independent soil and landscape consultancy, Tim O'Hare Associates.



Environmental Credentials

Manufactured from recycled materials, Green-tree topsoil is an environmentally sustainable product. Unwanted by-products that could otherwise end up in landfill or waste streams are composted to create a high quality topsoil. Green-tree topsoil also has a lower bulk density than traditional soil types translating to more volume per load, this results in less road journeys to fulfil project requirements.





Award Winning

Green-tree topsoil is a recipient of many awards and has been recognised by leading names within the landscape and recycling industries. Green-tree topsoil is also a winner of the prestigious Green Apple Award which recognises particular achievements that have been made on the environmental front, and is in itself a huge honour to be associated with.



Proud to be members of:



National Supply

Green-tree topsoil is currently supplied from various production sites across the UK, with more sites currently at planning stage. Sites are located in close proximity to the UK motorway network and positioned to receive a ready supply of the recycled components that make up Green-tree topsoil. Green-tree now has a soil finishing facility based at its head office just off the A1 in North Yorkshire, this allows the team to conduct extensive quality checks and react to project needs and requirements.





Green-tree topsoil is manufactured using organic compost and overburdened sand from quarries, all products that could otherwise end up in landfill.

The top soil is certified to BS3882:2015 standards, requiring no additional fertiliser for the first season. Green-tree topsoil is perfect for landscaping and construction projects that are focused on environmental sustainability and maintaining their green credentials.



It is light in texture and has good water holding capacity



Benefits:

- Complies to BS3882:2015 standards
- High organic matter content and fertility status
- Environmentally sustainable compost blend
- Year-round availability
- Offers good water holding capacity and drought resistance
- Peat free
- Prescription mix available
- Easy to spread on site

Applications:

- Housing developments
- Commercial developments
- Public parks and recreation areas
- Structural planting
- Domestic gardens



Also available with
CARBON GOLD
Enriched Biochar



Typical analysis of Green-tree Topsoil

pH	7.7
Clay Content	7%
Silt Content	11%
Sand Content	82%
Total Nitrogen	0.15%
Extractable Phosphorus	83mg/l
Extractable Potassium	1293mg/l
Extractable Magnesium	139mg/l
Organic Matter	5%
Carbon: Nitrogen Ratio	13:1



Case Study **Glasgow Fort Retail Park**

£15m Glasgow Fort Retail Park is one of Scotland's largest and most popular 'out of town' shopping destinations with 100 outlets and parking for 2,500 vehicles. It has a catchment area covering in the region of 2 million people and circa 100 retail and leisure outlets covering over 800,000sq ft.

1000 plus tonnes of Green-tree top soil, Green-tree Intensive Roof Garden Substrate and Green-tree Amenity tree soil was supplied and used for the planting of the trees and throughout the entire landscaping scheme. Shrubs in the borders surrounding the shopping complex were top dressed with the 210m³ of bark mulch that was also supplied.

Owners, British Land are one of Europe's largest publicly listed real estate companies. Their strategy is to create Places People Prefer. Working with Landscape Architect, Macgregor Smith, the landscape strategy was to create an environment that encourages people to dwell in the external spaces. The landscape upgrade project was to include tree planting within the site that echoes the surrounding

Scottish woodlands with 12m tall semi-mature Birch trees and native Pines. Landscaped borders surrounding the park were also included in the scheme.

Award-winning commercial landscaper Grace Landscapes were awarded the landscaping contract

Darren Hardman, Regional Contract Manager (NE), Grace Landscapes, commented:

"This is a prestigious project and one which we were proud to have won. We have worked with Green-tech for many years and they always offer us appropriate and helpful advice, fast and accurate delivery and competitive prices. Green-tech always has the items in stock and can delivery quickly to site. We will be using them for phase 3 and have no hesitation recommending them."



***Environmentally
sustainable
compost blend***



Green-tree
ArborRaft Soil

ArborRaft Soil

The tried and tested ArborRaft soil has been specially developed for the UK market to work as a rootzone with the ArborRaft system. This ensures the structure of the growing media remains open and the correct level of water, air and nutrients are transported through the soil to the tree's roots.

The design of the system working in partnership with the ArborRaft soil prevents compaction within the tree pit, protecting and enhancing the tree's root growth.

Extensive testing has been completed for the ArborRaft Soil, ensuring that the optimum moisture, aeration and nutrient content is achieved, whilst maintaining a stable soil layer.

The ArborRaft Soil working in partnership with the ArborRaft System provides the ideal start in life for an urban tree. The growing media is stable, prevents compaction and provides an open structure to allow the free-flow of water oxygen and nutrients.

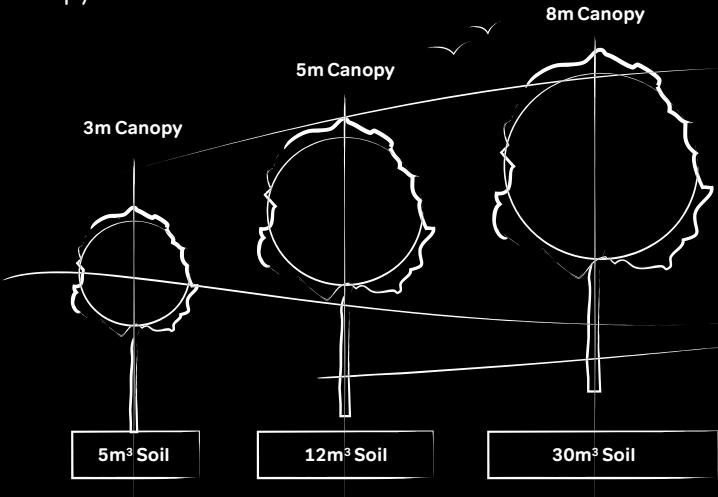
The importance of soil quality and quantity within tree pits has been further highlighted in the TDAG - Trees in the Townscape Report of 2012 and the more recent TDAG Trees in Hard Landscapes report, September 2014 stating that:

'In dense urban areas, the amount of soil installed will, to a large extent, determine the size the tree will reach over its lifespan.' TDAG, Trees in the Townscape Report

'Together with soil aeration, providing adequate rooting volume is the other fundamental precondition to secure a healthy cohabitation between trees and urban infrastructure.' TDAG, Trees in Hard Landscapes

Large rooting areas are of paramount importance to the development of the tree where nutrient rich soil can enhance the first few years of an urban tree's life.

Rooting areas in relation to canopy cover



Natural, lateral root growth with the ArborRaft System.

Diagram for illustrative purposes only. Exact soil volume required is dependent on tree species and planting environment.





A load bearing, fertile planting medium designed for use in urban environments.

Green-tree Amenity Tree Soil allows the development of tree root infrastructure under hard surfaces such as pavements and car parking areas. It has a naturally open structure that is load bearing, providing solid structure and aeration to the root system.



Benefits:

- Combats problems of poor root structure and subsequent poor growth
- Allows compaction whilst providing aeration to soil and allows oxygen and water access to the root system
- Compaction testing kits available
- Regular testing to maintain quality

Applications:

This product should only be used in situations where a compact soil structure is absolutely unavoidable. In order for the root zone to be successfully implemented, adequate drainage is a must. Green-tree Amenity Tree Soil should be used in conjunction with the Mona Landscape Irrigation range for future irrigation of the urban tree planting.

Typical analysis of Green-tree Amenity Tree Soil

pH Value	7.8
Particle Shape	Sub Rounded
Percolation Rate (at 40cm tension)	53mm/hour
Loose Bulk Density (1.85 Compacted)	1.7 tonne/m ³

A load bearing growing media for trees in hard landscaped areas.

Green-tree Subsoil

Often a large volume of material to be imported prior to the finished soil type, Green-tree Subsoil is used to build up levels and construct any specific landscape contouring requirements.

It conforms to BS8601:2013, ensuring consistent product of excellent quality.

The Green-tree team work closely with material suppliers throughout the country to source the highest quality, clean and consistent materials for supply into your project offering traceability throughout the supply chain.

Applications

- Raise levels on site
- Create landscape contours
- General infill



Green-tree Subsoil is designed to work hand in hand with Green-tree Topsoil



NEW

Clean Cover System

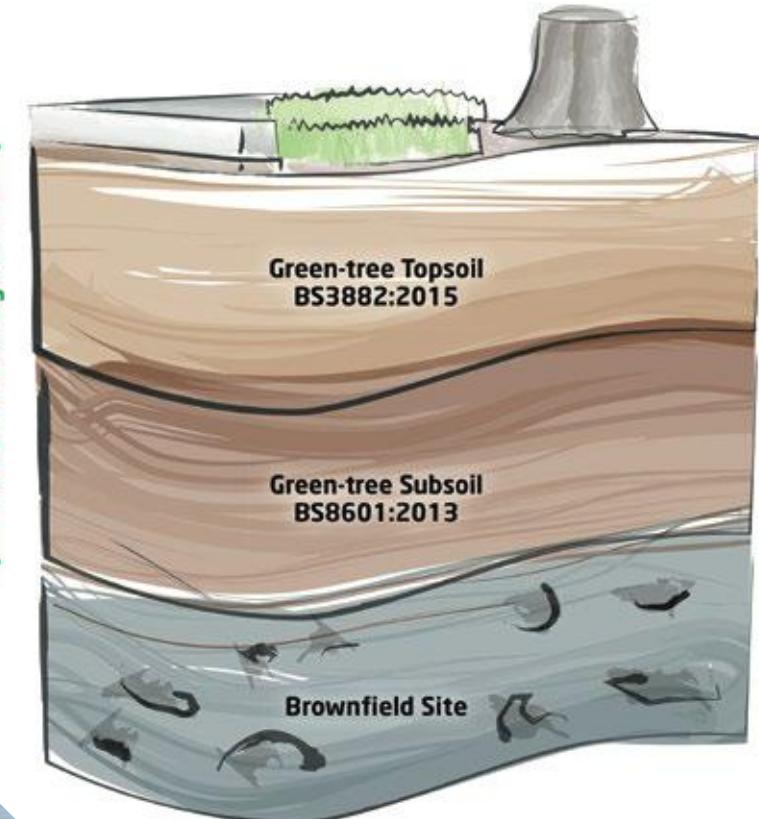
The Green-tree Clean Cover System offers a remedial and effective solution for the development of brown-field sites.

By incorporating the Green-tree Clean Cover System into initial plans, the project can progress with reduced excavation works yet provide a suitable long-term solution for the development.

Utilising a cover system will reduce the hazard to human health or the environment from potential contaminants found on brown-field sites, providing a suitable growing medium for plant and tree growth.

The Green-tree Clean Cover System is a combination of manufactured British Standard topsoil and subsoil which are both chemically clean. This provides a growing medium that is tested to CLEA requirements, with very low level chemical, metal and metalloid content and clear of asbestos content.

Green-tree
Clean Cover System





Green-tree Roof Garden Intensive

Green-tree Roof Garden substrate is an established growing media within the Green-tree family of products. A blend of lightweight aggregate and the award winning Green-tree topsoil, the intensive roof garden growing media is ideal for green roof construction projects and particularly containerised planting. Lightweight in texture with good water-holding capacity, Green-tree Roof Garden Intensive guarantees healthy plants and trees in a roof garden environment.

Benefits:

- Good levels of fertility
- Good water holding properties
- Excellent aeration properties
- Lightweight compared to standard soils
- A typical pH of 8.4 making it ideal for a wide range of plantings

Typical Bulk Density at saturation point 1.22 tonne/m³*



Moffat, Hi-Ab and Tail Lift Offload available for all our roof garden growing media. Request a quote today.

*Data supplied is current at time of printing, for up to date analysis & results please contact your Technical Sales Advisor.

Also available with



Request a copy of our Green Roof Substrate brochure today

Green-tree Roof Garden Extensive

Green-tree Extensive Roof Garden substrate is ideal for incorporation into expansive green roof projects that require very little maintenance. A proven growing media, that is lightweight in texture and manufactured from the award winning Green-tree topsoil. Green-tree Extensive Roof Garden substrate is rich in nutrients, ensuring quick plant establishment in harsh rooftop environments.

Benefits:

- Lightweight
- Controlled fertility levels
- Good aeration and water holding properties
- Simple to work with
- Guaranteed consistency throughout the green roof installation

Typical Bulk Density at saturation point 1.03 tonne/m³*



Case Study Four Pancras Square, King's Cross

Green-tree's Intensive Roof Garden Substrate and gtRoofdrain has been installed in the prestigious London development of Four Pancras Square. Four Pancras Square is a Grade A office building located to the North of the existing King's Cross railway station, on the new Pancras Square. The 170,000 sq ft ten floor building is the final part of a two million sq ft cluster of nine office buildings south of Regent's Canal.

The landscape contractor, Kent based Willerby Landscapes Ltd contacted Green-tech to discuss the requirements of the project to find the best products for the job.

Green-tech supplied its own brand Green-tree Roof Garden intensive substrate for the roof top containerised planting scheme. The substrate was perfect for the project due to its lightweight texture and good water-holding capacity which ensures healthy plant establishment in harsh rooftop environments giving them the best start.

460m³ of 25mm gtRoofdrain was also incorporated into the project. The gtRoofdrain forms a lightweight high performance drainage layer, allowing collection and storage of water to irrigate plants during drier periods.

Deliveries were undertaken on flatbed lorries with moffat offload to suit the inner city restrictions of the site.

Richard Gill, Green-tech's Head of Sales commented:

"Green-tree Green Roof Substrates are the go to products for roof garden projects due to the lightweight and workable properties of the product along with Green-tech's ability to deliver to more challenging city locations. Green-tree Roof Garden Substrates have been used on a number of high profile projects across the country and have received great praise from architects and contractors."



A lightweight growing media for roof gardens.



Green-tree Bespoke Mixes



Green-tree Rootzones

A mix of high quality free draining sand with organic compost designed to create the optimum conditions required for healthy root growth. Our Green-tree team can source any combination of rootzone required alongside our standard mixes.

Applications:

- High specification sports applications
- Golf course construction and Green finishing
- Used in conjunction with GRB Plus ground reinforcement system

Green-tree Low Fertility Soil

A mix designed to limit the nutrient level of the soil in response to specific planting schemes. Designed to meet the requirements within BS3882:2015, our Low fertility mix can be supplied in bulk tippers or in bulk bags from our in-house bagging facility at GTHQ, ideally supplied alongside our new John Chambers wildflower range of seed.

Applications:

- Roof gardens
- Wildflower planting schemes
- Difficult access areas

Green-tree Sportsmix

Green-tree Sportsmix is a blend of organic, green compost Pas 100 and fine sand, offering a high quality, fertile repair mix. The new flagship soil product can be supplied throughout the year in all weather conditions, is cost effective and offers the same high quality consistency from the first load to the last.

Applications:

- Sports Pitches
- Race Courses
- Ideal for remedial work

Green-tree Structural Soil

A soil and sand based substrate reinforced with polypropylene fibres. Green-tree Structural soil is an advanced substrate that is stable and free-draining. It provides excellent structural strength enabling it to be used for a variety of applications that are frequently trafficked. During the mixing process of Green-tree structural soil crimped polypropylene fibres are entwined with the substrate increasing its overall strength and resistance.

Applications:

- Emergency and access roads
- Overspill car parks
- Golf course buggy routes
- Public recreation areas
- Verges and pedestrian walkways



Green-tree Rain Garden Filter Medium

An engineered soil for use in Rain Garden applications, careful consideration has been given to the design of the filter medium to ensure an effective permeability rate and porosity levels are achieved whilst also providing the correct horticultural requirements to engage with the finished planting scheme. The product has been designed with the requirements of a Rain Garden with Grey Water management in mind.

Green-tree Podium Roof Garden Substrate

Ideal for Roof gardens where weight isn't the biggest issue, designed primarily to be a nutrient rich substrate. Saturated bulk density of 1.67T/M3. This sand rich substrate demonstrates a good level of drainage for water management needs. Consistent in its make up the product has a high level of fertility and is ideal for supporting the growth of turf, small shrubs and small trees, Grass seed and requires no additional feed on application.



Green-tree Contract Turf

Green-tree contract grade turf contains perennial rye-grass and fescues and is proven for use in commercial and urban landscapes and residential lawns. Green-tree Contract turf is a popular choice for landscape architects and contractors, due to its consistency of quality, reliable structure and its ability to create impact on any project.

Properties:

- Outstanding appearance and strong green colour
- Hardwearing and dense
- Easy to maintain

Green-tree Formal Turf

A fine leaved grade containing a blend of fescues that create the perfect playing surface for golf courses, bowling greens and ornamental landscapes. A high quality turf used by leading green keepers across the UK.

Properties:

- Contains the outstanding fine-leaved ryegrass Bargold, which can withstand mowing down to 5-6mm and heavy wear
- Highly rated for fineness of leaf, shoot density and resistance to red thread

Green-tree Wildflower Turf

Wildflower turf is a balanced mixture of wildflowers and grasses growing in a moisture retentive biodegradable felt, to provide an instant wildflower meadow.

Properties:

- Established plants are grown in a felt base, which acts as a weed barrier
- The 50% wildflower and 50% grass seed mix is pre-planted at the correct density to give optimum conditions for establishment
- Low maintenance requirement – usually one cut per year
- Attracts wildlife such as butterflies, insects and other invertebrates, birds and mammals
- A prolonged flowering period providing aesthetic pleasure throughout the year

**Moffat, Hi-Ab and
Tail-Lift Offload Available
for all Soils and Turfs.
Request a quote today.**

Ornamental Barks & Mulches

The Melcourt range of barks and mulches offers the designer and landscape contractor the widest choice available in terms of product type, quality, performance and durability. The range is based on sustainably produced bark, wood and sand and all conform to the examples set in BS EN 1176 and 1177.

Melcourt Mulches

Melcourt Ornamental Bark Mulch™ (5 – 35mm). Deluxe grade – available in polybags, bulk bags or loose bulk.



Spruce Ornamental Bark Mulch™ (5 – 35mm). Contract grade – available in polybags, bulk bags or loose bulk.



Contract Bark Mulch (1 – 65mm). Economy grade – available in loose bulk.



Depth of Bark	Coverage per m ²
25mm	40.00m ²
50mm	20.00m ²
75mm	13.33m ²
100mm	10.00m ²
125mm	8.00m ²
150mm	6.66m ²
300mm	3.33m ²

- Bagged and loose bark are available on next day delivery.
- Loose bark available in up to 80m³ loads dependent on the time of year.
- Samples are available on request.

Melcourt Play Products

Melcourt Playbark® 8/25 (8 – 25mm). Deluxe grade – available in polybags, bulk bags or loose bulk. Suitable for children under the age of 6 years.



Melcourt Playbark® 10/50 (10 – 50mm). Deluxe grade – available in polybags, bulk bags or loose bulk. Suitable for children over the age of 6 years.

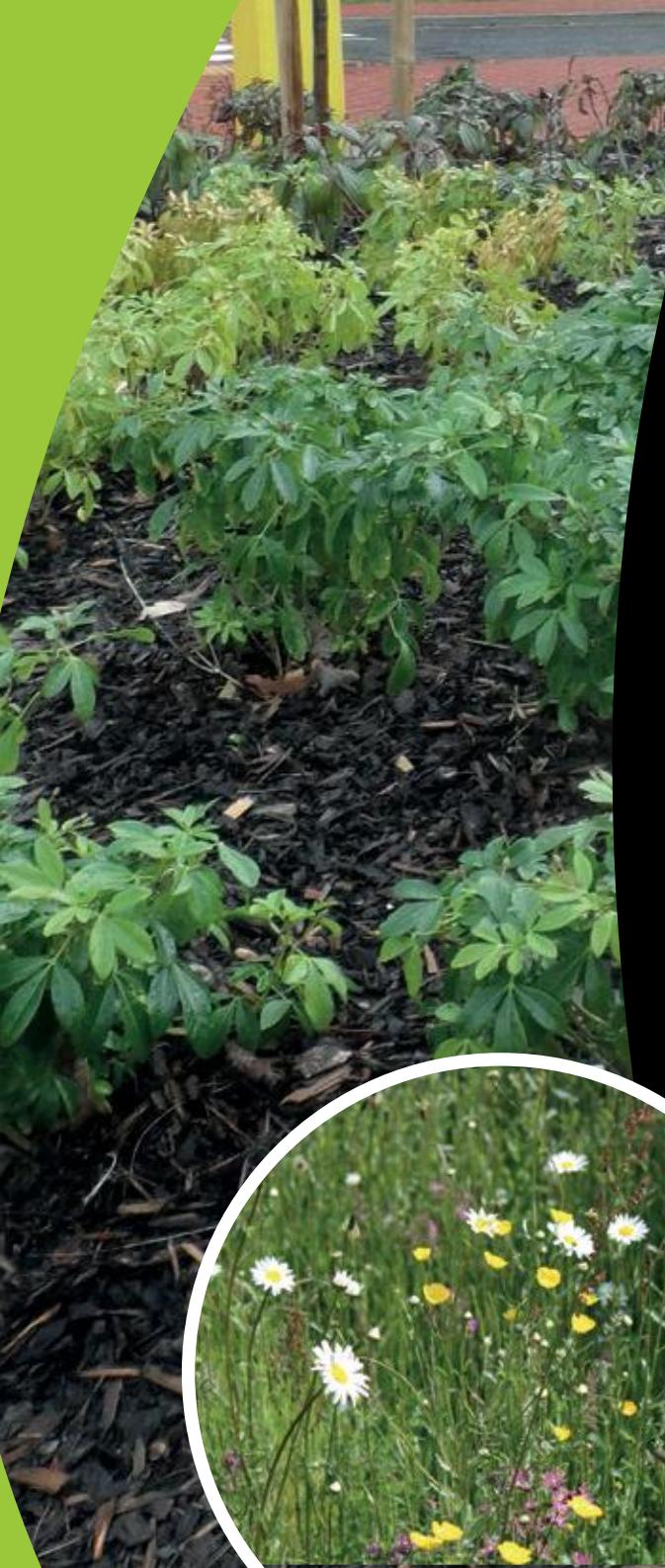


Melcourt Kushyfall® (3 – 30mm). Contract grade – available in loose bulk only. Ideal for wheelchair users.



Melcourt Softwood Playchips® (5 – 40mm). Deluxe grade – available in polybags, bulk bags or loose bulk.





Green-tree Soil is a supplier of John Chambers Wildflower Seed.

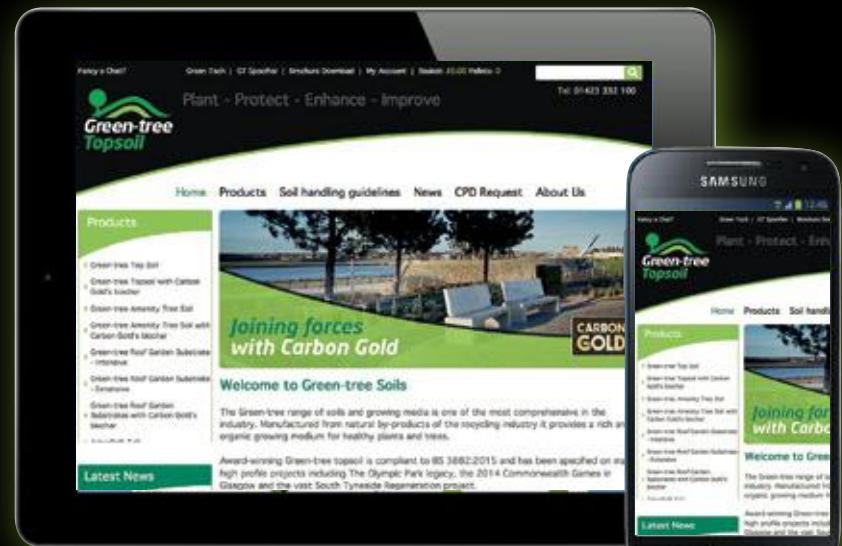
- Over 1300 types of wildflower seed
- A reputable brand within the UK wildflower market
- All seed cleaned by hand
- Honesty and integrity, supplying traceable, native seed

Call today for our latest catalogue

T: 01423 332 115 or
email: sales@johnchamberswildflowers.co.uk

Green-tree Online!

- green-tree.co.uk
- Online and ready to click
- Complete Green-tree range online
- Download soil test analysis
- Soil sample request facility
- Meet the team
- Live chat to a soil expert
- Watch how we manufacture to British Standards





**Green-tech Ltd
Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
HG5 0FF**

**T: 01423 332 100
info@green-tree.co.uk**
**Opening Hours
Monday-Friday 8am-5.30pm**

