The GreenBlue Urban ArborSystem® brings together the key elements of successful tree pit design and simplifies the design and installation process for specifiers and installers.

By using CAD, landscape professionals can combine root management, structural soil components, aeration, irrigation and choose an appropriate above ground surface grille and vertical guard - in a single package.

Since its inception and development over recent years, the ArborSystem integrated tree pit product package has proved itself in many demanding locations. For many landscape specifiers, ArborSystem has become the system of choice for integrating trees into the urban environment.
Irrigation Systems

Hardscape & softscape tree planting

The water from efficient tree irrigation is required not only for the biochemical processes involved in photosynthesis, respiration, and transport, but also for mechanical support to leaf and stem tissue. Insufficient (or inefficient) tree watering will result in loss of leaf turgor and a consequent reduction in new shoot extension. Eventually this will lead to die-back and, if not remedied, the loss of the tree.

Waiting until a tree shows a sign of drought stress before it is watered is known as ‘reactive’ tree irrigation. Whilst this might keep the tree alive, it will often result in stem die-back and possibly long-term structural defects in the tree. Research has shown that proactive tree irrigation, via implementation of a regular watering scheme, results in over three times the weight of new roots growing into back-filled soil material.

VIEW PRODUCT
RootRain Metro
A smaller (35mm) capacity irrigation system for trees in soft landscapes. Available in various finishes.

VIEW PRODUCT
RootRain Urban
A large capacity irrigation system with a fixed grid inlet for tree planting in softscape.

VIEW PRODUCT
RootRain Civic
A large capacity irrigation system with a vandal resistant inlet for tree planting in softscape.
During the last two decades, GreenBlue Urban has been developing innovative products to assist trees below ground in their battle to establish and grow in hostile urban environments. Now with the ArborSystem tree grille range, that same attention to detail has been turned to tree pit surround systems.

ArborSystem tree surrounds are engineered to an extremely high standard under rigorous quality controls. GreenBlue Urban is an ISO 9002 company and takes product development and quality seriously. Consequently, the range detailed in this design guide represents the latest technology in tree surrounds.

DISCOVER MORE
Tree Grilles
Above ground protection ——

**SettStone Precast**
Provides an excellent new paved finish to the popular 1200mm square Precast tree grille.

**Avon**
The Avon tree grille is a premium square ductile iron tree surround.

**ArborResin Precast**
Precast resin-bound segments, manufactured off-site in a quality controlled environment.

**Castle**
The Castle tree grille, allows specifiers to continue their choice of paving over the tree pit area.

**Adur**
The Adur tree grille is a premium square ductile iron tree surround.

**Yare**
The Yare tree grille is a premium round ductile iron tree surround.
Tree Guards
Above ground protection

**Ullswater**
Tree guards can make a high-quality visual design statement on public realm landscape schemes.

**Arbortech Guard**
Tree guards can make a high-quality visual design statement on public realm landscape schemes.

**Thirlmere**
Tree guards can make a high-quality visual design statement on public realm landscape schemes.

**Derwent**
Tree guards can make a high-quality visual design statement on public realm landscape schemes.
Climbing Support Systems

Greening of facades

Greening of facades, pergolas and garden spaces is an ecologically sound method of taking your project beyond the ordinary. Greening is progressively difficult in overcrowded urban scenarios whilst its importance is ever increasing.

GreenBlue Urban offers climbing plant support systems coupled with superior technical advice and active support, enabling you to bring your greened urban vision into reality - whether that’s building an exterior or interior green wall, adding a living wall to a building or if you’re developing much larger project. Our design guide has been produced to help you simply specify the solution that is right for your scheme.

Click Scan
Root Management
Service & utility protection

The deployment of root barriers is now an incontestable component of best practice in urban tree planting and tree root management. It is no longer sufficient to plant a tree in an urban location and hope that the roots will keep out of trouble.

Different situations often require different approaches to root management, so rather than take a ‘one size fits all’ attitude, GreenBlue has developed a range of specialist root barriers to give urban trees as much growing advantage as possible.

ReRoot 2000
ReRoot 2000/RootStop is a high strength root barrier for deeper application.

ReRoot Ribbed
ReRoot 300, ReRoot 600 and ReRoot 1000 are ideal for use to divert tree roots downward.

RootDirector
Preformed root control for individual trees.
Soil Cells
Pavement Support Systems

Soil cells are designed to provide trees in urban environments with suitable conditions that promote healthy growth, without disturbing the structures above.

Not every soil structure is conducive to the growth of trees. Healthy tree growth is strongly influenced by soil structure, as it affects the movement of air, water, and other nutrients required for trees to mature. Effectively the ‘architecture of the soil’, soil structure is usually the most critical element in the success/failure of urban trees.

Too often, trees are planted in cramped planting pits and poor subsoil, resulting in stunted growth, with roots tending to colonize immediately underneath the paved surface, causing pavement damage.
Soil Cells
Pavement Support Systems

Too often, trees are planted in cramped planting pits and poor subsoil, resulting in stunted growth, with roots tending to colonize immediately underneath the paved surface, causing pavement damage. Without compromising or damaging the structural integrity of paved surfaces, how can urban trees be adequately provided for in their urban setting? GreenBlue offers load-bearing soil cells to create structurally adequate soil systems that are also conducive to root growth.

RootCell — The world's strongest and first ever soil cell system.

StrataCell — Available in 30 series and 60 series for situations where heavy vehicular overrun is likely.

RootSpace — Available in a variety of depths, from 400, 600, 800 & 1200mm.
Complimenting our line of urban tree planting systems, GreenBlue’s Rootball Guying & Tree Tie products offer best practice solutions to support new tree plantings.

The ArborGuy anchor has been designed to be as streamlined as possible for driving into compacted subsoil, whilst combining superb ‘groundlock’ technology for secure tree anchoring. Testing shows that forces in excess of 3000 lbs can be withstood by just one anchor driven into subsoil from ground level.

An alternative for small trees is to specify our biodegradable NatureTie, which is made from hessian and will break down naturally over time as the tree establishes its own anchorage.
Underground Guying & Tree Ties

Tree Support

AnchorPlate —
The new ArborGuy AnchorPlate is designed as the lowest profile “deadman” anchor system available.

VIEW PRODUCT

ArborGuy Deadman —
Underground tree guying system that is safer, more effective, and more aesthetically pleasing than staking.

VIEW PRODUCT

Naturetie —
A natural alternative to plastic and rubber tree ties that gradually biodegrades as the tree establishes.

VIEW PRODUCT

4-Point Guard Tie —
A premium adjustable restraint system that blends neatly with the Tree Guard and surroundings.

VIEW PRODUCT

ArborGuy Drive-in —
The Adur tree grille is a premium square ductile iron tree surround.

VIEW PRODUCT

Tree Ties —
The Yare tree grille is a premium round ductile iron tree surround.

VIEW PRODUCT
This is a ‘plug and play’ sustainable urban drainage solution (SUDs) that can attenuate and cleanse storm water and provide amenity and biodiversity to new and existing spaces. The modules will be filled with a particular soil specification and planted wildflowers and biodiverse grasses.

The concept is flexible, scalable and each unit stacks together to be a convenient solution that any subcontractor can work with and install. Installation is fast, simple and offers significant savings to alternative methods.

The modular characteristics with pre-calculated hydrological performance statistics mean that specification and design is very simple for any given catchment area.
GreenBlue’s sustainable urban drainage system – ArborFlow – has been developed as an effective and environmentally robust means of managing surface water run-off.

Ideal for use in urban areas where space is at a premium, ArborFlow markedly reduces the velocity and flow rate of surface water run-off in urban areas. Designed for a given catchment area it can contribute towards meeting the discharge rates allowed and set by regulatory authorities.
Resources
Valuable Resources for Industry Professionals

Online Configurator
Specify your own tree pit online with our configurator tool.

CAD Tree Pit Drawings
Schematics and PDFs for many of our products.

Soil Volume Calculator
The formula for healthy trees in cities.

BIM Products
Get BIM specs for our products.

NBS Products
Get NBS specs for our products.

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