



# GREENMAX

connecting **green** and infrastructure

durability ■ circular ■ innovative ■ reliable



grey

green

blue

Smart combination of



GreenMax specialises in the landscaping of new and existing trees, in particular in the urban environment. We also supply products to protect the greenery and infrastructure. Our high-quality root protection and root guiding products are a proven solution to prevent damage caused by tree roots. This eliminates problems associated with tree roots pushing up the paving and overgrowing pipes in the soil.

#### **Savings for infrastructure and green**

Our knowledge and unique products help trees to survive between concrete, paving and buildings, while also protecting the underground infrastructure of the urban landscape. This will ultimately save time and money, but above all it will improve the quality of life and increase the viability of trees in the urban area.

#### **Innovation and durability**

For decades, the innovative products of GreenMax have been used to improve tree pits and protect the surrounding infrastructure. GreenMax values the quality and the correct installation of materials. Our products are made of high-quality 100% recyclable materials which can be returned for recycling when they are no longer needed.



#### **Cradle to Cradle and Circular**

The circular economy is sustainable, and vice versa. GreenMax products are mostly made out of plastic. It is often assumed that this is harmful for our environment. This is far from true; plastics are relatively easy to produce and many of these plastics products have already been made from recycled waste. Many of the plastics that we take back after use are recycled in Veghel, nearby our production facilities in Heeswijk, Dinther and Veghel. We use these plastics for new materials and products,

such as our new end caps, tree stakes and flowerbed edges. As a result, the material is not lost, but can be reused for a new usage cycle with as little energy consumption as possible. The items that are no longer needed and that are taken out of the ground - for example, in the case of a renovation or relocation - are collected free of charge so that they can be recycled into new products. This completes the circle. We aim to continue to do this as much as possible in the future as well. This way GreenMax makes a positive contribution to the circular economy.

#### **Advice**

Advice on selection of the right products is important for the success of a project, because every location has its own specific problems. Consider the choice to use a root barrier or root guiding, the use of water infiltration and the possibility of an underground root management system. We would like to assist you in the design of your project.

#### **Specifications and installation manuals**

More information about our products and our installation manuals can be found on our website: [www.greenmax.eu](http://www.greenmax.eu).

You can find tender descriptions and technical data sheets for each product as well.

You can also receive this information by email: [info@greenmax.eu](mailto:info@greenmax.eu) or call on: 0031 413 29 44 47.

#### **Orders**

Products ordered on weekdays before 12.00 p.m. will be processed the same day.



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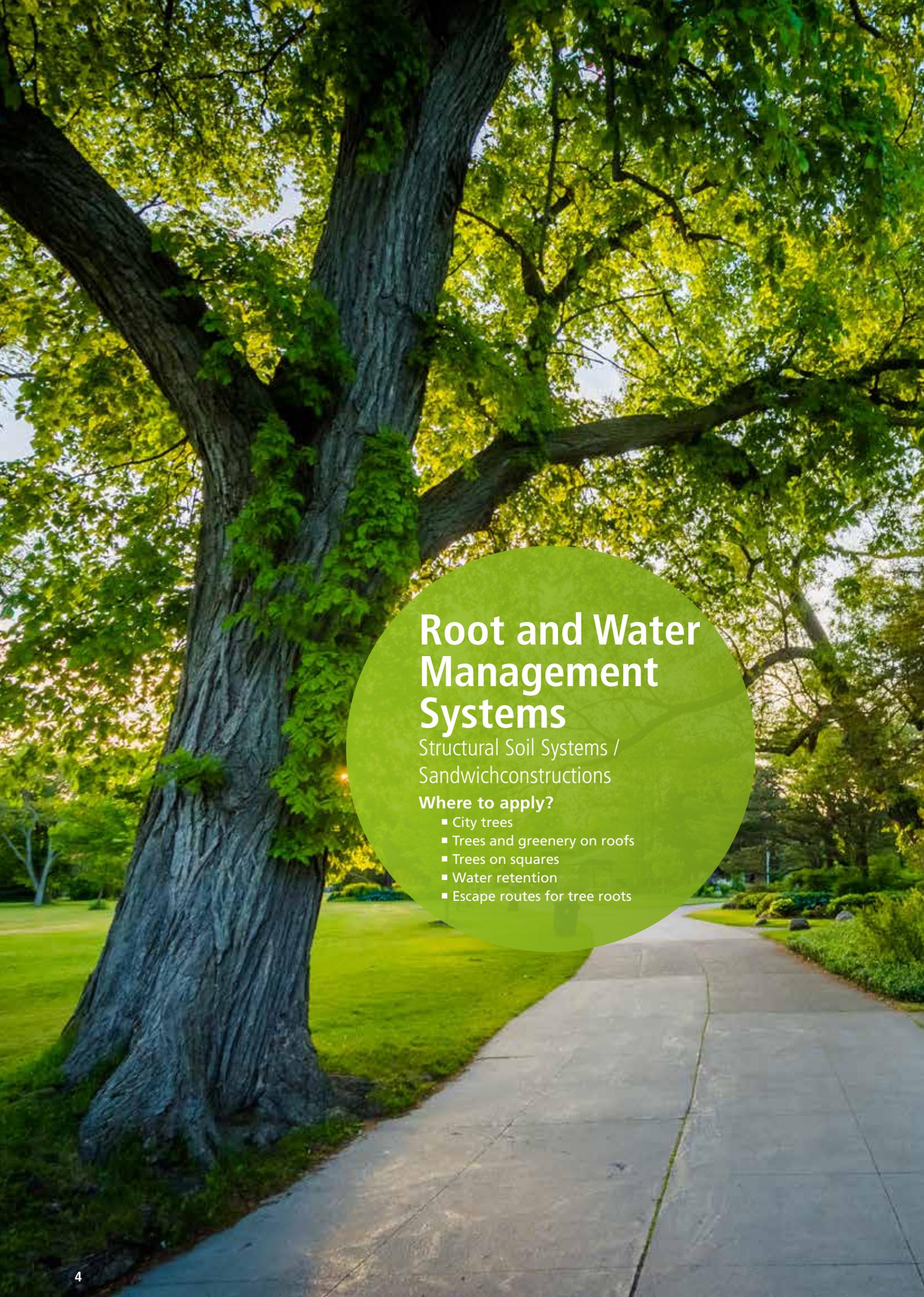
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# Root and Water Management Systems

Structural Soil Systems /  
Sandwich constructions

## Where to apply?

- City trees
- Trees and greenery on roofs
- Trees on squares
- Water retention
- Escape routes for tree roots

# Urban Tree Systems

Which tree planting method makes the most sense?

Many solutions have been designed for decades, with different costs (for the customer) and results (for the tree and the pavement). All solutions to firstly combine civil and plant technical requirements.

First the Amsterdam structural soil was developed, but through experience, progressive insight, higher requirements and integration of other functions, these compromise solutions have been further developed into total solutions.

Many different products for planting urban trees are offered on the market. In order to compare the products, a subdivision has been made. Gravel based structural soil cannot simply be compared to an urban tree system, but gravel based structural soil can be compared with each other. This has resulted in an internationally recognized classification according to the functionality of the various products.

See table below:

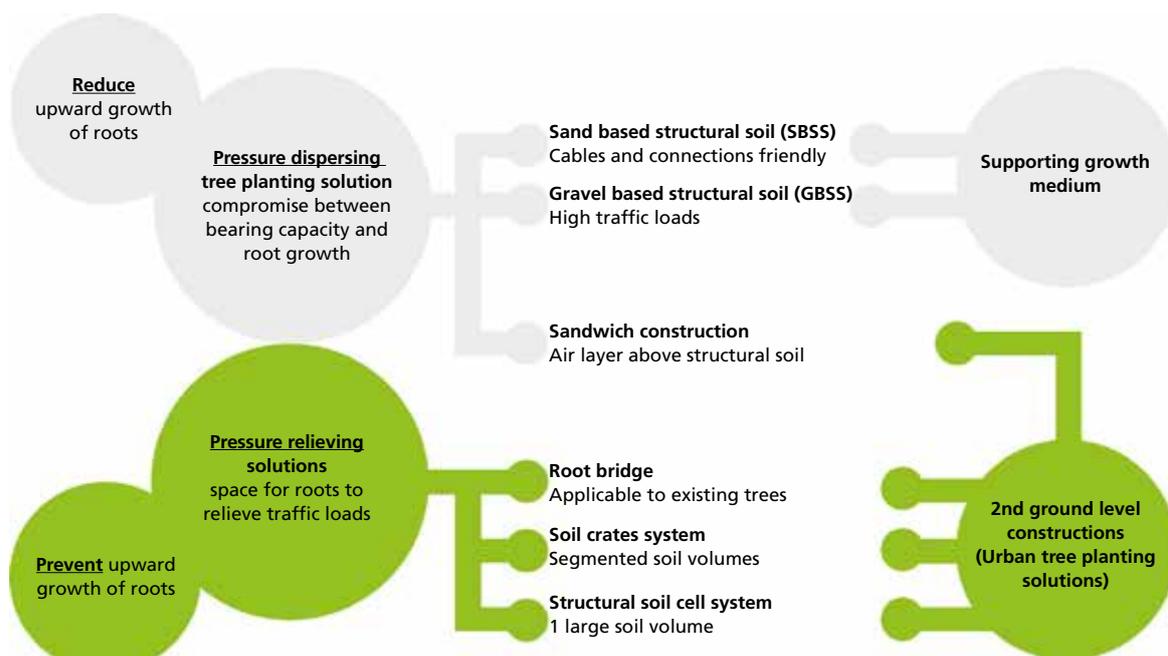
All products give roots room to develop under the pavement. Different solutions are possible depending on the project conditions and objectives. GreenMax offers you the most complete advice for underground urban tree systems in paved areas. For the sole purpose of tree growth, the structural soil system performs best. However, there are so many more factors that partly determine the choice of growth place improvement. Our expert staff will be happy to advise you. With our broad knowledge of the various systems, we will work with you to find the most suitable one for your project.

In our range, we have, together with the various market parties, included the best products per category for you. For extensive information per category, please contact our subsidiary TreeBuilders b.v., which has taken on this specialization since 2017.



Urban tree solutions

## Improvement of growth area for trees in hard surfaces





Urban tree solutions

# TreeParker®

Modular structural soil cell system including stormwater management

## Material

- Very high carrying capacity, highest traffic load possible
- A large soil volume, smallest opening is about > 900 cm<sup>2</sup>, suitable for thick tree roots
- Made from recycled material
- System provided with sustainability label
- Can be installed both linkably and as a standalone unit
- TreeParker® can be installed parallel to curves up to a radius of 5 m<sup>1</sup>, without additional facilities
- Integrate cables and pipes without problems, partly due to the stand-alone installation and the large openings
- Low installation costs, "stupid proof", quick installation and easy to fill with any type of soil
- Height of the system is variable between 40 and 150 cm
- Long lifespan (at least 100 years)
- Ideal to catch rainwater as well into the system, up to 25% of the volume available for water infiltration

## The strongest and most flexible system on the market.

The TreeParker® system represents the most innovative product within the suspended pavement systems. The system is applicable in all situations and also provides secondary functions, such as rainwater collection, etc.

TreeParker® has been developed based on the experience gained through trials, projects and discussions with all actors. In addition to the primary functions, such as carrying heavy traffic loads and providing unhindered root growth, the secondary factors are of great importance. Some important secondary factors are: the need for simple design, fast installation, sustainability, integration of existing / new cables and pipes, variable installation depth and a high percentage of soil in the system. TreeParker® offers you all these benefits.

## Dimensions

TreeParker® unit; (H) variable x (W) 60 x (L) 60 cm

Height variable between 40-150 cm  
Standard heights in stock:  
40, 50, 60, 80, 100 and 120 cm

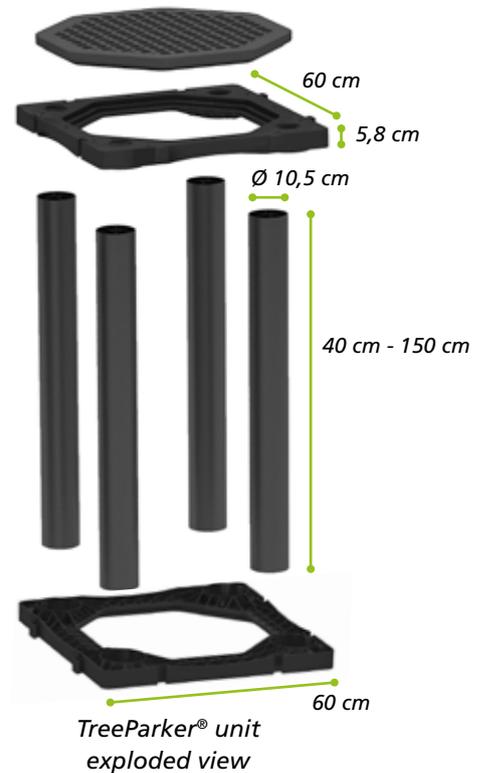


# NL Greenlabel A+

Royal Haskoning DHV developed a method for NL Greenlabel that gives information about the integral sustainability score of a product, material, plant or area. This score is translated into a label and displayed in a sustainability passport.



One of the many TreeParker® references





## Comparison of a TreeParker system to structural soil



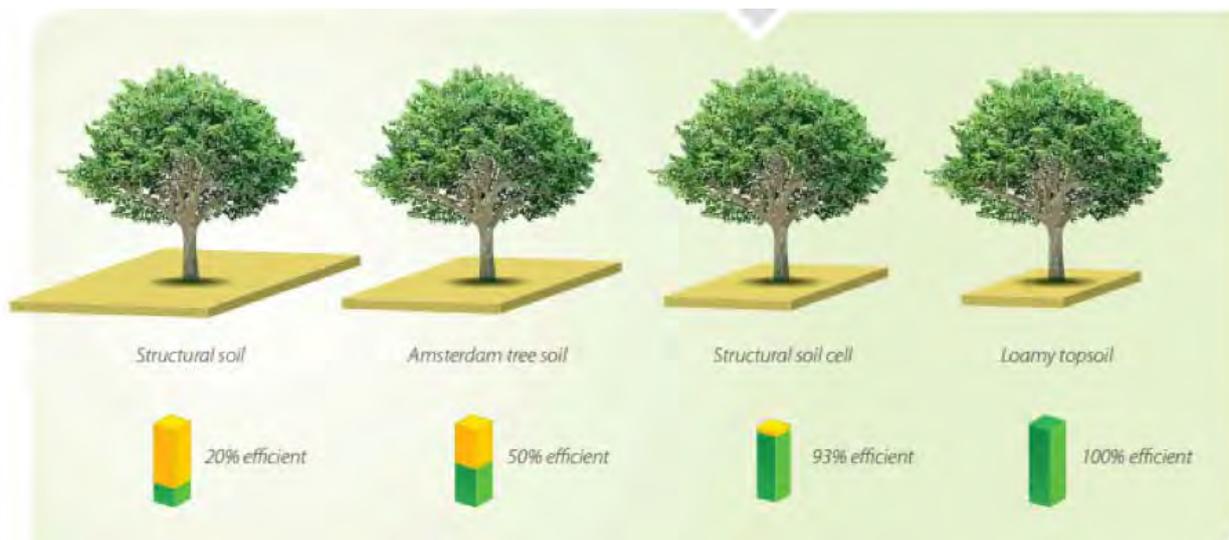
2 years after installation



4 years after installation



Following the construction of various tree planting solutions in an arbitrary arrangement, six *Liriodendron* trees were planted for each solution. The provisional results show that the trees in the most efficient solution perform best. From this it is possible to assume that soil volume calculations must always be based on soil efficiency (net available soil) instead of surface area or product volume alone.



Research: Comparative research for tree planting solutions in hardened areas, Bartlett Tree Laboratories, Dr. Tom Smiley 2015.



*TreeParker*® is easy to install, even around cables and pipes.

For more information, see manual 'cables & pipes *TreeParker*® in the city'



### Application as a bioretention system

Trees are still often seen as a problem during the design phase in the vicinity of rainwater collection and infiltration facilities.

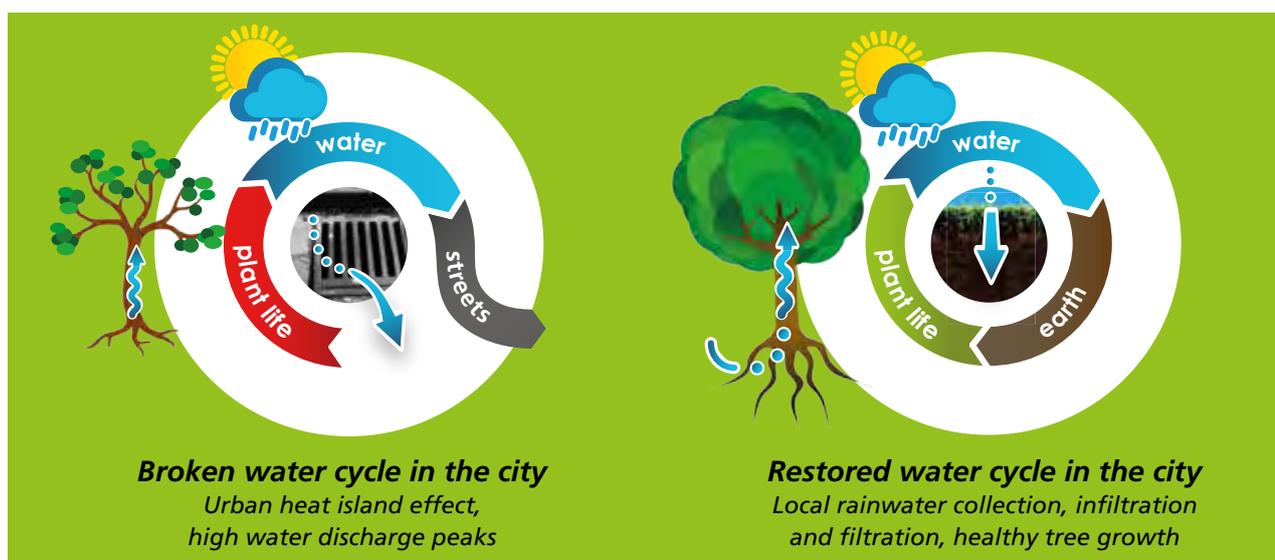
The growing place of the tree is increasingly being combined with rainwater collection and filtration. With little extra costs, the standard growing place can be changed into an underground bioretention system.

TreeParker® is designed to combine these two disciplines to create a healthy water cycle in the city. Water first goes to the growing site, where it infiltrates the non-compacted soil.

Pollution is broken down by nature - soil life - so only clean water can flow to the groundwater.



### Link rainwater into the system



For more information about bioretention options, see the catalog:  
"TreeParker® Bioretention and Structural soil cell system"

# TreeParker®

## Installation overview



1 Place the frames around the tree pit opening



2 Attach the posts and top frames



3 Fill the system with bioretention soil / tree bunker soil



4 Fill / compact around the system



5 Install (deep-) aeration / irrigation systems



6 Closing the system with decks



7 Apply geotextile and fill with mixed granulate



8 Vibrate, pave, ready!



Urban tree solutions



# SandwichPanel 74/130

Highest pressure class, easy to customize

## Material

- Drainage plate for horizontal and vertical infiltration and drainage
- Three-dimensional flowable / rootable
- Integrated coupling system on all sides to create large one-piece surfaces
- Material: recycled PP, extra reinforced against extreme pressure forces, 100% recyclable

### Sandwichpanel 74

- Infiltration speed: 189 liters / min / m<sup>2</sup>
- Dimensions (8 units): 1040 (l) x 960 (w) x 52 (h) mm
- Nominal weight: 4.49 kg / m<sup>2</sup>
- Load capacity: approx. 740 kN / m<sup>2</sup>

### Sandwichpanel 130

- Infiltration speed: 189 liters / min / m<sup>2</sup>
- Dimensions (8 units): 1040 (l) x 960 (w) x 51 (h) mm
- Nominal weight: 4.58 kg / m<sup>2</sup>
- Load capacity: approx. 1300 kN / m<sup>2</sup>



## Sandwichpanel 74 is the product where it all started (1990).

This type of sandwich panel was first used as a pressure-distributing construction under pavement and above a rootable zone. The first application of the sandwich construction was in 1990. This construction is now for sale at GreenMax with the name sandwichpanel 74. The rock-solid design of this product has never been changed and is still the standard for a sandwich construction with a load capacity of over 740 kN / m<sup>2</sup>.

## Why a low panel?

In places in the Netherlands with high groundwater levels, it might be difficult to find sufficient space for the tree roots. Amsterdam tree sand offers a solution for these locations, although the capacity of this tree sand is often not high enough for local traffic. With a pressure-distributing sandwich construction, the dynamic pressure loads are distributed over a larger area. The higher the sandwich construction, the more this is at the expense of the total volume of tree sand (root space). A low panel means more rootable volume per m<sup>2</sup>. This means that in case of existing trees with low construction, the ground level needs to be raised less. Or that fewer roots need to be removed to be able to apply the construction without raising the ground level.

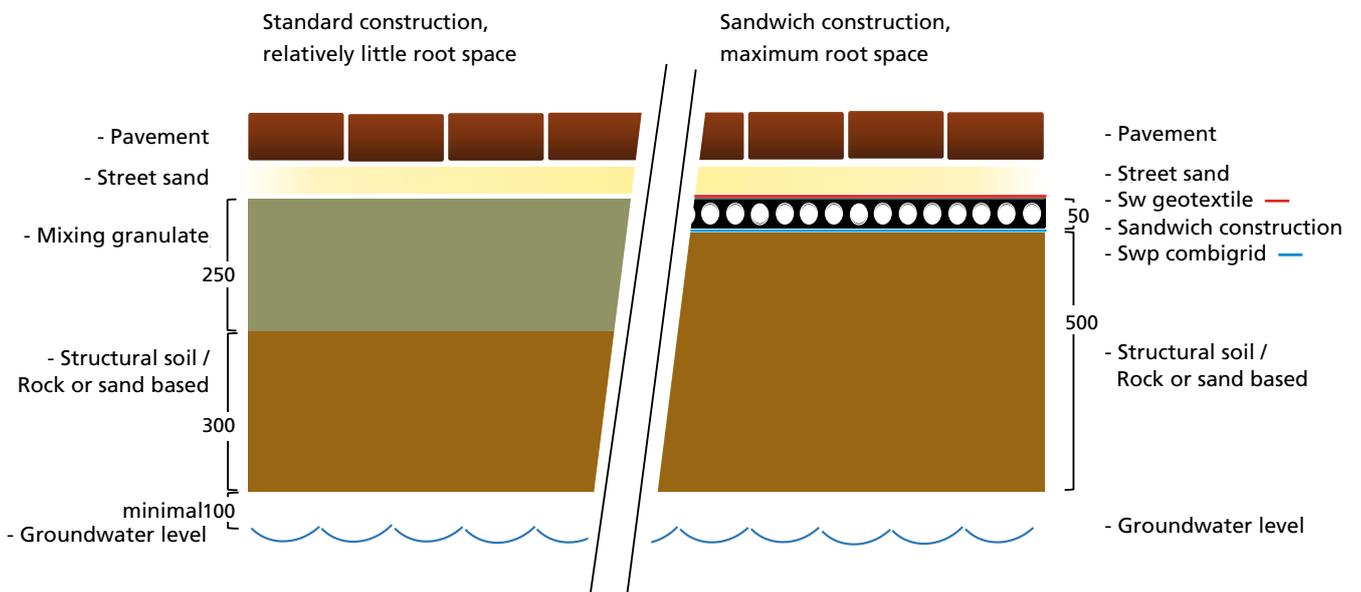
## Install everywhere and quickly.

The sandwich panels are not only low, but also consist of just one part. This makes the construction extra strong, up to 1300 kN / m<sup>2</sup>. The panels are there for almost twice as strong as the other sandwich constructions and also suitable for places with intensive traffic. The panels can be cut to any size without loss of construction strength. The panels are linked together with an integrated conical connection. No loose connectors are required, making the installation extremely fast.

### Applications

In addition to the application as a root-resistant and pressure-distributing construction on top of a load-bearing substrate, the sandwich panels are also used as:

- Surface water storage under pavement
- Water reservoir under a growing place
- Horizontal and vertical drainage etc.



*Very easy to install*



Urban tree solutions



# SandwichBox

Heights: 50/65/80/100/150 mm

## Material

- Extremely high stability (1050-2400 kN / m<sup>2</sup>)
- Ideal pressure distribution on non-compacted surface
- Excellent water permeability
- Open space approx. 94%
- Perforation > 63%



*SandwichBox 100 mm high*



*SandwichBox 150 mm high*

### **SandwichBox is available in almost any height.**

With the SandwichBox, GreenMax also offers you the possibility to build in an extra water and / or nutrient buffer between pavement and tree planting area. Some locations ask for an extra nutrient buffer on top of the existing load-bearing substrate.

### **The highest standard in tree growing technology.**

Like all constructions, the sandwich construction is only as strong as the weakest link. The SandwichBox including the accompanying cloths have been tested as a total concept and approved for use under paved surfaces and over a structural soil substrate. This makes our sandwich construction the only approved total solution in accordance with the currently applicable standards. Do you want a guaranteed solution? This includes the proven reinforcement textile and the separating fleece.

### **For many applications to use.**

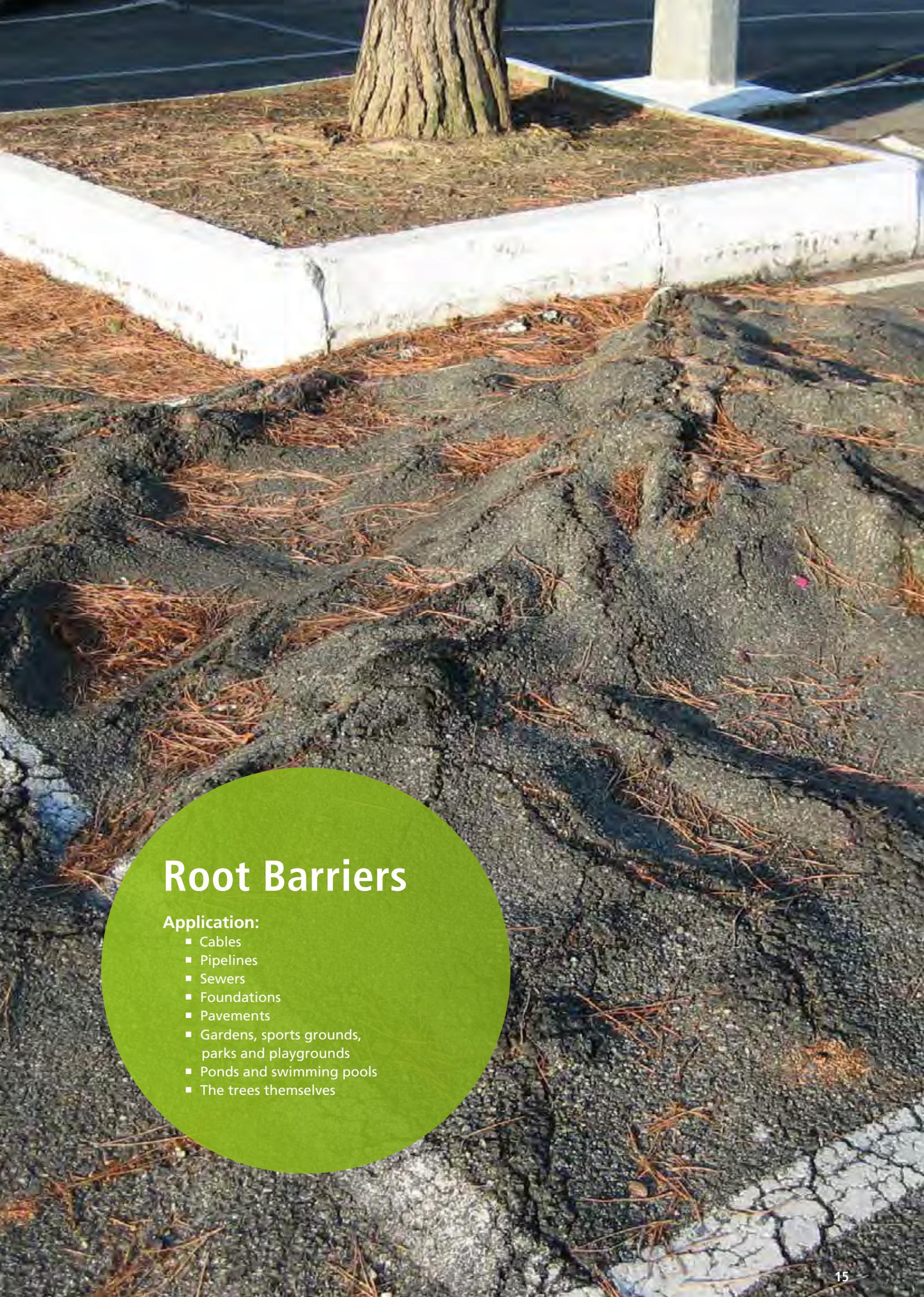
Our panels are suitable for various applications.

Below some applications:

- Pressure-distributing 2nd ground level construction for existing trees
- Improved planting conditions for existing trees
- 2nd groundwater table, water supply for trees on suspended water profile
- Vertical and horizontal drainage with high bearing capacity



*Installation SandwichBox*



## Root Barriers

### Application:

- Cables
- Pipelines
- Sewers
- Foundations
- Pavements
- Gardens, sports grounds, parks and playgrounds
- Ponds and swimming pools
- The trees themselves



# Root Guiding or Root Barrier?

How to choose the right solution

## The difference between Root Guiding and Root Barriers.

A Root Barrier has smooth sides and can be made of various materials such as non-woven fabric or HDPE. A tree root will follow along the panel once it has reached the Root Barrier due to a Root Barrier being smooth and having no ribs to guide roots. When a Root Barrier is installed too close to a tree it has a de-stabilizing or 'flower pot' effect. The Root Guiding panel is unique and has no alternatives. The guiding panel is provided with 90° vertical ribs; when the tree root comes into contact with the guiding panel the ribs direct root growth downwards. When the root arrives at the bottom of the panel it can proceed growing along its horizontal or radial path (when the tree pit is correctly prepared). The guiding panel is also provided with ground locks to stop roots lifting up the system as they exit beneath. The panels also have a double upper edge to make sure the roots cannot grow over the top edge and has a simple coupling system that enables the panels to be easily connected.

## When to use Root Guiding?

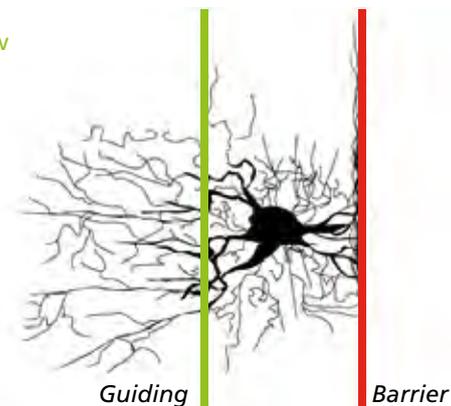
Root Guidance is used at a distance of less than 2m1 from the tree (this is a guideline, it is depending of the trunk flare). It is used as a protection for the road surfacing and to guarantee the necessary stability of the tree.

## When to use a Root Barrier?

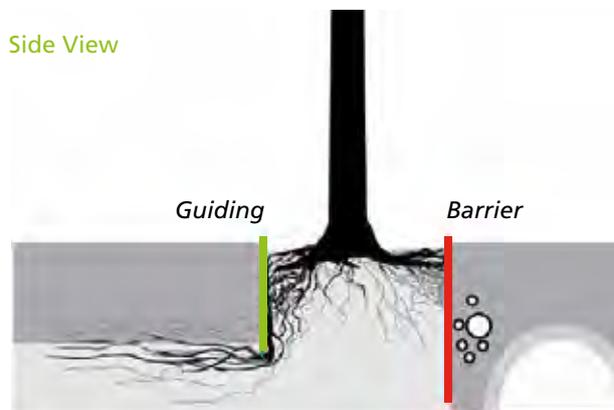
Root Barriers are used to create root-free zones, for example to protect underground utility services against root growth. Root Barriers can only be used if the available rotatable space is sufficient for the tree species. As a rule of thumb, we advise a minimum of 2m1 between the Root Barrier and the tree.

## Effect of Root Guiding and Root Barriers

Top View



Side View



Guiding



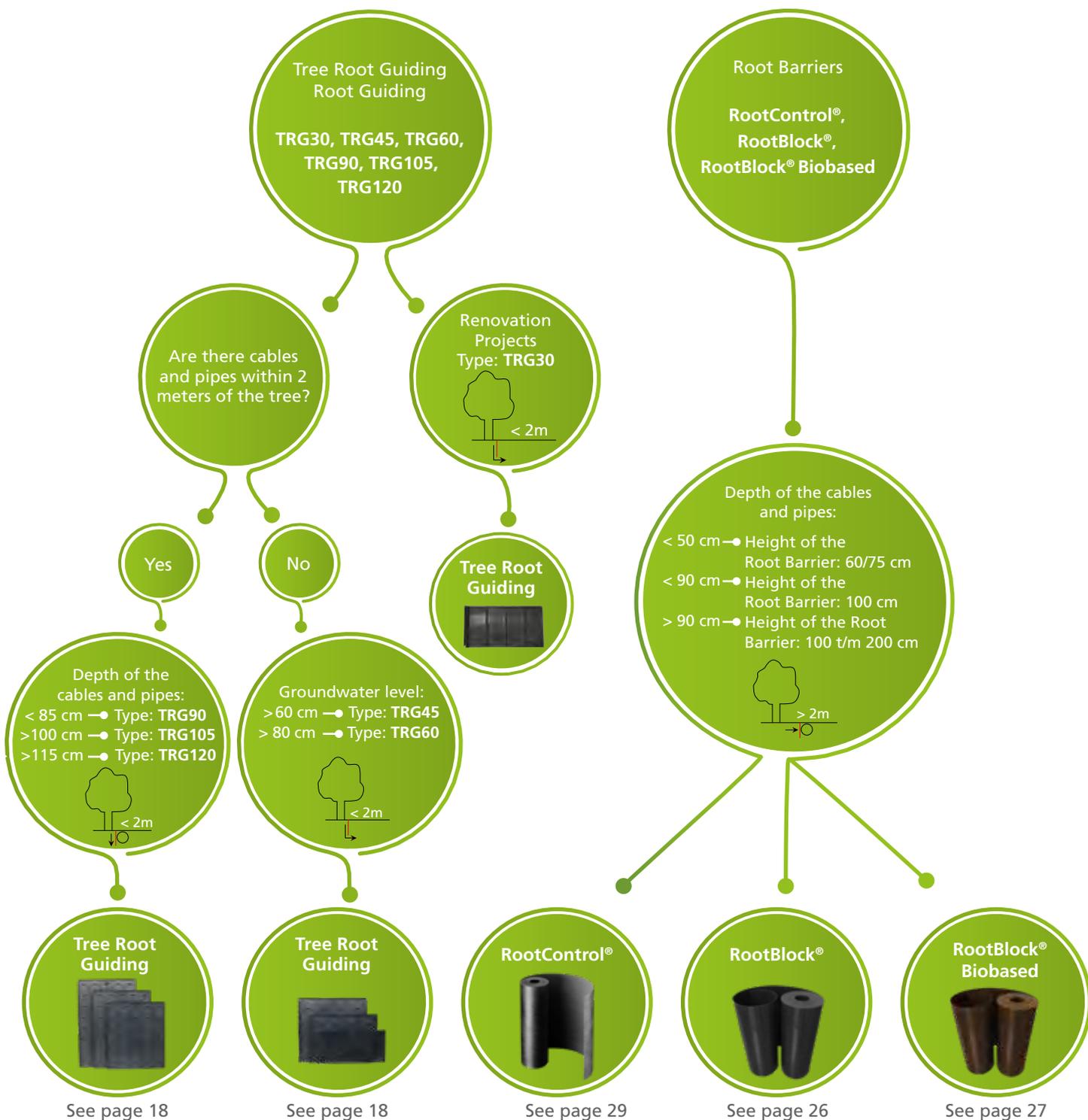
Barrier



# Root Guiding or Root Barrier

System within  
2 meters of the tree?

System 2 meters  
away from the tree?





## Root Guiding

The GreenMax Tree Root Guide was designed to prevent root growth from lifting and damaging paving. Its panels feature special guide ribs which redirect tree roots deeper into the soil. The Root Guide can be used within two metres of the tree. Conventional root barriers do not guide roots and therefore offer no stability and limit the growing space.

Research shows that some right-angled 90 degree guide ribs are effective enough to prevent against rotating roots and guide the roots downwards instead. To prevent roots lifting the panels, horizontal ground anchors fix the panels in place. Our panels meet all requirements of root guidance. In addition, the TRG panels are also equipped with a double top edge. The rim prevents root growth over the panels and prevents cracking entry of the screens.

Root guidance has been in use since 1976, invented by the then founder of DeepRoot. The system has proved itself being in thousands of projects ever since. However, it is still essential to use the product in the correct way, which is very simple.

### Material

#### TRG30, TRG45, TRG60, TRG90, TRG105 and TRG120:

- Recycled PP (100% recycled material)
- Injection moulded copolymer polypropylene
- Manufactured in ISO 9002 certified factories
- 90° ribs guide tree roots downwards
- Reinforced double top rib, resistant to repeated foot traffic and against spring roots to prevent overgrowth
- UV-stabiliser additive to prevent adverse effects of sunlight
- Ground anchors to prevent the panel from being pushed up out of the soil
- Produced in Europe

#### TRG30, TRG45 and TRG60:

- Panels are 60 cm wide

#### TRG90, TRG105, and TRG120:

- These panels can be interlinked in order to bridge any cables or piping encountered
- Panels are 75 cm wide



### Dimensions panel

Type	Panel height	Width	Thick-ness	Per box	Per m <sup>1</sup>
TRG30/LR30	30 cm	60 cm	2 mm	40 PCS	24 m <sup>1</sup>
TRG45/DR45	45 cm	60 cm	2 mm	26 PCS	15,6 m <sup>1</sup>
TRG60/DR60	60 cm	60 cm	2 mm	20 PCS	12 m <sup>1</sup>
TRG90/LR90	90 cm	75 cm	2 mm	Deliverd by piece	0,75 m <sup>1</sup>
TRG105/LR105	105 cm	75 cm	2 mm	Deliverd by piece	0,75 m <sup>1</sup>
TRG120/LR120	120 cm	75 cm	2 mm	Deliverd by piece	0,75 m <sup>1</sup>



Proven since  
**1976**

**50 years  
warranty**





**Application of Root Guiding Panels all around installation:**

**Type TRG45 Angle 90°, TRG60 Angle 90°**

Protect the surrounding hard landscaping on all 4 sides of the tree with root guide panels. Use the maximum available space within the tree pit to ensure maximum uncompacted soil and free root space for the tree, and a good quality root guidance. Take enough space for the trunk flair as the tree grows to reach its mature size.



*A Tree Root Guiding panel in an angle of 90 degrees. The corner can be pulled in and out and can be connected on both sides to a Tree Root Guiding Panel so it can be used at all projects of any tree pit dimension.*

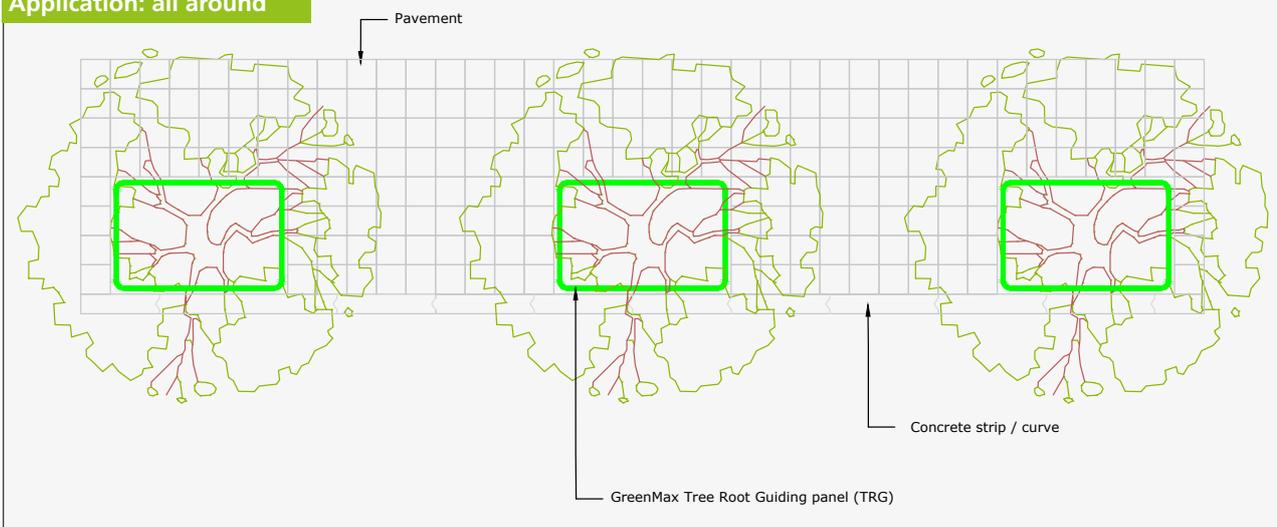


**Dimensions panel**

Panel height	Type	Width	Thick-ness	Per box
45 cm	TRG45 Angle 90°	From 48 till 85 cm	2 mm	8 angles per box (suitable for 2 tree pitts)
60 cm	TRG60 Angle 90°	From 48 till 85 cm	2 mm	8 angles per box (suitable for 2 tree pitts)

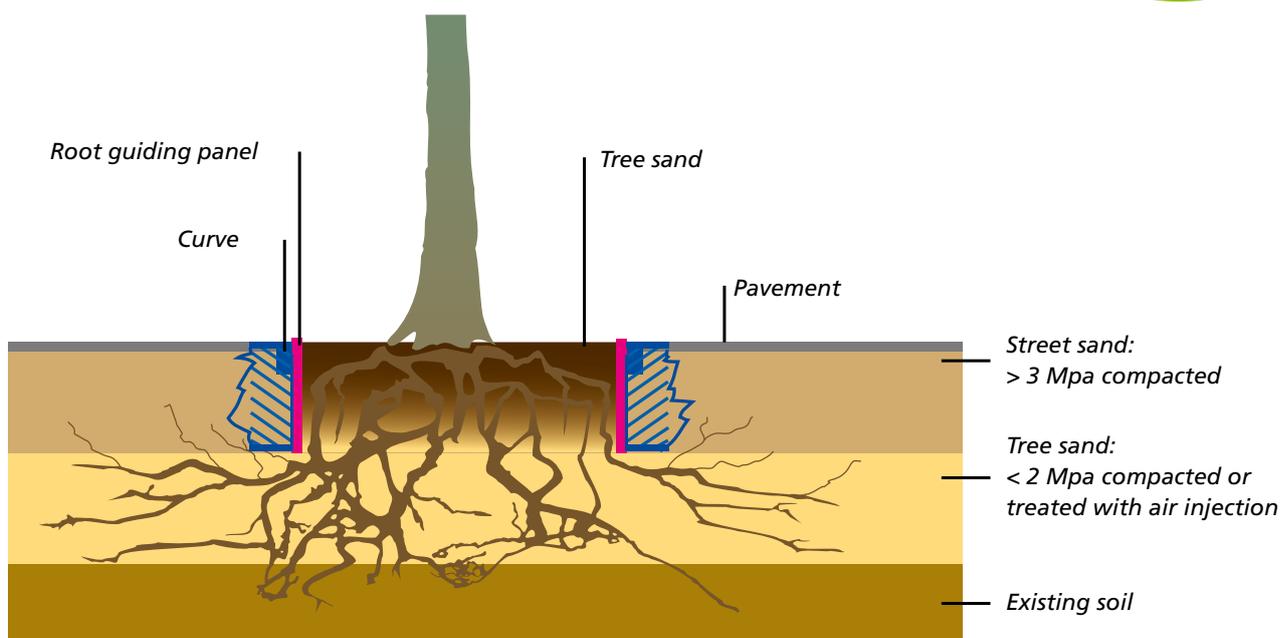
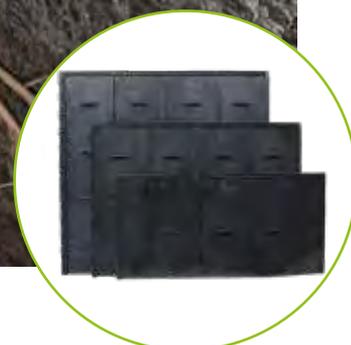


**Application: all around**





Application of low panels (30, 45 or 60 cm heigh)



Also applicable in tree granulate



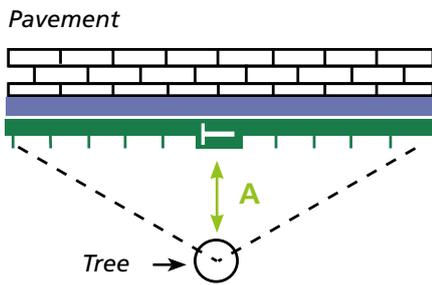
## Application of Root Guiding Panels linear installation:

### Linear installation (all types)

With Tree Root Guiding you ensure maximum protection of the hard landscaping. By using a linear application you give the tree maximum available root space and stability, therefore improving the health of the tree. To protect the hard landscaping the root guiding can be placed directly alongside of the pavement. For cables and pipes, we use the 90, 105 and 120 cm high panels to prevent tree roots from possibly damaging these cables and / or pipes. These types are therefore applied if the trees are too close to cables and pipes. The Root Guiding panels allow the roots to grow deeper into the soil, giving the tree more stability. The roots will no longer grow under the panel when the high panels (90, 105 and 120 cm) are used, so that the cables and pipes remain well protected.



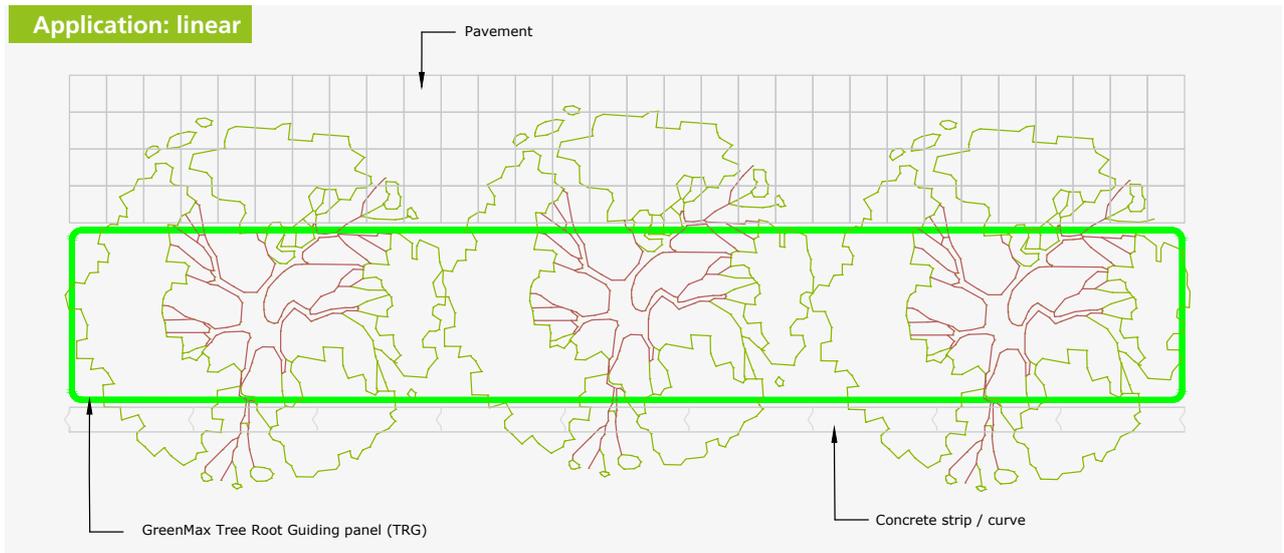
### Tree Root Guide linear installation



Minimum length of panels = 4 x A

Linear installation

### Application: linear





Applications of high panels (90,105 and 120 cm heigh)

### Other applications root barriers:

#### Root pruning during renovation work

By some pruning of existing tree roots and the use of a TRG Root Guide you can prevent the tree eventually being removed; reducing the need for future root pruning time after time.

Using a Tree Root Guiding system means future damage to the hard landscaping will be a thing of the past. There may be the requirement for the removal of some roots, leading to a temporary decrease in stability. We recommend to seek the advice of a tree specialist or gardener, if this is necessary.

#### Special applications

Root Guidance can also be a solution, for protection against root damage at exceptional situations such as tennis courts, slopes, cemeteries, retaining walls etc. Because of the different dimensions GreenMax TRG panels can be used in different areas with different groundwater levels.

#### RootBlock®

If the wall is positioned more than 2 metres from the tree, you can also opt for a root protection wall to block tree roots. In some cases, it may be more desirable to just block tree roots by means of a root protection screen like RootControl® or RootBlock®, see pages 26-29 in our catalogue for more information.

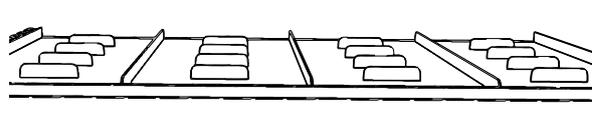


## Functional requirements of root guiding panels:

### 1 Top view of vertical guide ribs on the panel

Only a right-angle with a height of at least 10 mm will prevent roots from continuing their way horizontally along the screen. Vertical 90° guide ribs are perpendicular to the wall at a 90-degree angle. Research has shown that guide ribs at exactly 90 degrees lead the roots downwards; this is not the case with other angles.

Source: James Urban USA 1989



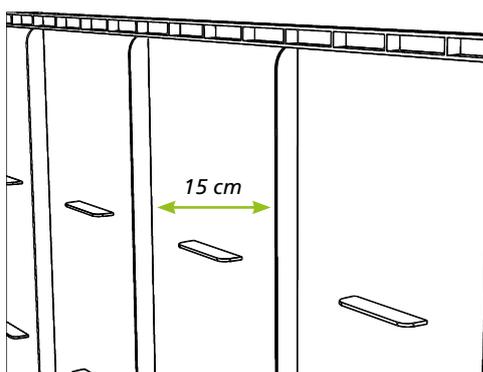
### Vertical ribs exactly 90 degrees



Top view: roots will be guided down vertically

### 2 Horizontal distance between ribs 15 cm at most, uninterrupted downwards

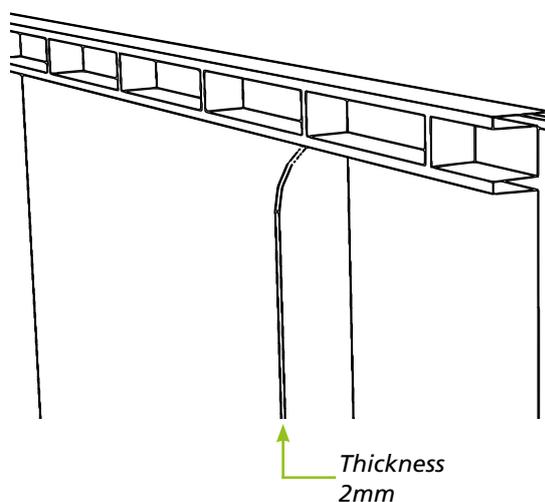
Research has shown that the effect is guaranteed at a distance of approximately 15 cm between the guide ribs; this guarantee has not been proven for other distances. At the end of the ribs, the root continues in its usual way. The ribs must therefore be uninterrupted from top to bottom.



Vertical distance for ribs 15 cm  
Uninterrupted ribs from top to bottom

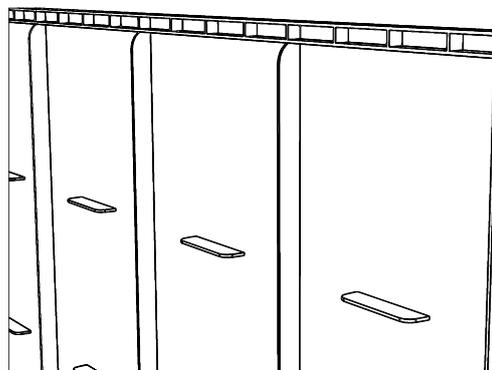
### 3 Thickness of at least 2 mm

Root guide must be at least 2 mm thick to be guaranteed to withstand root penetration.



#### 4 Ground (root) anchors ensure that the screen is not pushed up

Root growth around the horizontal ribs prevents the guide screen from being pushed upwards. The roots hold the panel, as it were. It is important that these horizontal ribs are perpendicular to the flat surface of the screen and have sufficient surface area, so that the panel does not shoot past the roots when pulled or pushed. The panel, with the side of the guide ribs and root anchors, must always face the tree. It is important for the surface (the surface that prevents it from pushing upwards) of the root anchors to be high enough and distributed across the screen. Multiple smaller anchors have proven to be more effective than a few large anchors.

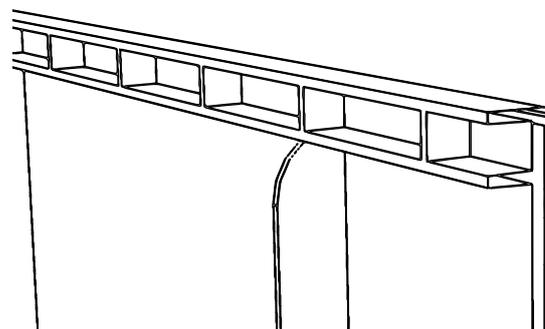


*Root anchors > 40 pieces per m<sup>2</sup> Total surface area of root anchors > 200 cm<sup>2</sup> per m<sup>2</sup> Right angle to the flat surface*

#### 5 A double edge at the top side, to prevent root overgrowth

Root guide screens should ensure that the roots push themselves deeper into the profile. It is therefore important that the screens are always placed high enough (just visible above ground level), so that roots cannot grow over them. The panel sticks out above ground level and the sturdy double edge allows for a visually clean and tidy installation. Research (1985 USA) shows that a double edge is most effective.

A sufficiently wide edge at the top already gives a reduced chance of the roots overgrowing the screen. This edge also ensures that, when walking on the screens, the edge will not be damaged, broken or cut. A broken screen provides instant escape for the roots, reducing the screen's functionality.



*Double top edge at least 10 mm wide and 5 to 10 mm apart*



# RootBlock®

## HDPE Root Barrier

### Material

- High-density polyethylene (HDPE)
- Produced from 100 % recycled material
- 100% recyclable
- Color: black
- Long lifespan (min. 100 years)
- Clean and easy to install
- UV-resistant
- Waterproof
- Flexible
- Resistant against chemical elements and micro-organisms
- Impermeable to tree- and bamboo roots (bamboo by RootBlock® 2 mm)



Coupling Profile



The 1 or 2 mm thick RootBlock® is a heavy duty Root Barrier from our range (other thicknesses available upon request).

RootBlock® is suitable for any type of plant root and soil. RootBlock® is cost effective, has a high quality and long lifespan. HDPE is a clean and environmentally friendly material and it will not affect the soil unlike products made from PVC. That is why RootBlock® is 100% recyclable and re-usable

RootBlock® 2 mm is also suitable for aggressive rooting species such as bamboo.

### Dimensions

Rolls	1 mm	50 mtr	2 mm	25 mtr
Height	Type		Type	
50 cm	WB/BB 50/1		WB/BB 50/2	
60 cm	WB/BB 60/1		WB/BB 60/2	
75 cm	WB/BB 75/1		WB/BB 75/2	
100 cm	WB/BB 100/1		WB/BB 100/2	
150 cm	WB/BB 150/1		WB/BB 150/2	
200 cm	WB/BB 200/1		WB/BB 200/2	

**Extra option: coupling profile**

Other strengths / depths of RootBlock® on request





# RootBlock® Bio Based

## HDPE Root Barrier

### Material

- Polyethylene based on residual sugar cane waste
- Produced from 100% recycled material
- 100% recyclable
- Color: brown
- Long lifespan (min. 100 years)
- Clean and easy to install
- UV-resistant
- Waterproof
- Flexible
- Resistant against chemical elements and micro-organisms
- Impermeable to tree- and bamboo roots (bamboo by RootBlock® 2 mm)



RootBlock® is suitable for any type of plant root and soil. The commonly used Root Barrier is made from HDPE (high density polyethylene) but is also now available made from a Bio-Based plastic, which is produced from the waste sugar cane and is also known as 'green polyethylene'. Re-using the waste from sugar cane has meant a new and sustainable alternative to standard polyethylene can be offered.

RootBlock® Bio-Based is fully recyclable and the green polyethylene material can be mixed with standard HDPE. This ensures that the Bio Based Root Barrier can be recycled in the same process as the PE RootBarriers and is re-usable many times.

The product is awarded the 'I Am Green' Logo. This logo may only be used in products that have the waste of sugar cane as a base material, using green polyethylene helps to reduce greenhouse gasses. In this way we hope to contribute to the development of the sustainable Bio-Based green cities.

### Dimensions

Rolls	1 mm	50 mtr	2 mm	25 mtr
	Type		Type	
50 cm	WB/BB 50/1 BIO		WB/BB 50/2 BIO	
60 cm	WB/BB 60/1 BIO		WB/BB 60/2 BIO	
75 cm	WB/BB 75/1 BIO		WB/BB 75/2 BIO	
100 cm	WB/BB 100/1 BIO		WB/BB 100/2 BIO	
150 cm	WB/BB 150/1 BIO		WB/BB 150/2 BIO	
200 cm	WB/BB 200/1 BIO		WB/BB 200/2 BIO	

Extra option: coupling profile

Other strengths / depths of RootBlock® on request





## Non-Woven Root Barrier

The RootControl® nonwoven root barrier is used as a dividing wall between trees and what needs protection such as paving, sewers, pipelines, etc.

RootControl® is a lightweight and flexible material and has many possible applications.

Placing a Root Barrier of RootControl® has a quick return on investment. Renovation of hard landscapes and the renewal of cables and sewage pipes due to root damage are no longer necessary. Installing RootControl® ensures future damage will not occur.

### Material

- Polypropylene (PP), non-woven, 360 g/m<sup>2</sup>
- Double sided coating
- Color: black
- 100% recyclable
- Warranty 30 years
- Clean and easy to install
- Impermeable for tree roots
- Waterproof
- Flexible and strong
- Very easy to use
- Resistant against chemical elements
- UV-resistant

### Dimensions

Rolls		
Height	Length	Type
50 cm	50 m <sup>1</sup>	RCL 50
65 cm	50 m <sup>1</sup>	RCL 65
75 cm	50 m <sup>1</sup>	RCL 75
100 cm	50 m <sup>1</sup>	RCL 100
130 cm	50 m <sup>1</sup>	RCL 130
150 cm	50 m <sup>1</sup>	RCL 150
200 cm	50 m <sup>1</sup>	RCL 200

**Extra option:** coupling profile

Other depths of RootControl® on request





Can install  
1000 m<sup>1</sup>  
in a day

Cost-effective  
from 500 m<sup>1</sup>



## RS 1000

Automatic Installation Root Barriers

### Material

- RootControl® (RCL 360) Polypropylene, non-woven, 360 g/m<sup>2</sup>, double-sided coating, black, 100% recyclable
- RootBlock® 1 mm flex (RB 1 mm flex) LDPE, 1 mm, black, 100% recyclable
- Machine width: 1.5 meters
- Maximum operating width: 2 meters
- Weight distribution: 4 tons distributed over caterpillar tracks
- Maximum height of Root Barrier: 65 cm

- Digging the trench
- Placing the Root Barriers
- Filling with soil
- Compacting the soil
- Sweeping up

These steps are all combined in one device!

A chain trencher is used to excavate a trench approx. 10 cm wide, cutting through existing roots in the process. A Root Barrier is then immediately inserted in the narrow trench. The machinery used ensures that the Root Barrier is inserted to the correct depth. The soil is then immediately backfilled, to ensure that the Root Barrier does not sink in further than intended. To finish off, the soil is levelled using a plate compactor.

The trencher is also suitable for use on both narrow and twisty roads. Furthermore, as the trencher weighs just four tonnes, it can also operate on thinly metalled roads.



An aerial photograph of a courtyard with several large, leafy green trees. The ground is paved with a herringbone pattern. A large, semi-transparent green circle is overlaid on the center of the image, containing text.

# Tree Anchoring

**Application:**

- Anchoring trees above and below ground

Please see  
page 34 and 35  
for a biodegradable  
root anchoring  
system



# Root Ball Anchoring

## Tree Anchoring

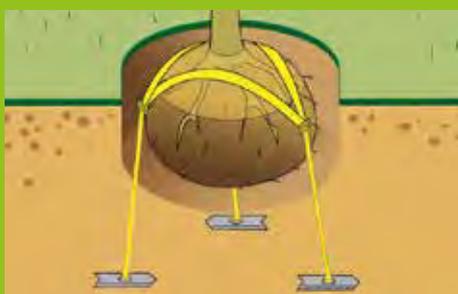
The demand to anchor trees without unsightly stakes or guy wires is increasing.

The GreenMax Root Ball Anchoring is an efficient and reliable method to anchor the trees underground and greatly improve the visual impact of the landscape. The trees will receive extra support without visible timber or stakes. Straps with attached steel anchors are installed underground. The steel anchors will ensure a strong underground root ball anchoring. The tree will keep its natural movement and still get the necessary support.

One person can install the entire Root Ball Anchoring in a few minutes. Time and costs are saved.

### Material

- Fast and easy installation (± 10 minutes)
- User friendly
- No unsightly anchors or wooden tree stakes above the surface (nice final image)
- Possibility to adjust anchor straps in length
- Suitable for circumferences from 90 cm and higher even possible
- The root ball anchoring system eventually detaches itself



With anchors



With wire mesh or anchors

Deadman anchoring

With eyebolt



### Application with anchors

Circumference	Type	The Root Ball Anchor set consists of
< 20 cm	GGB 120120	<ul style="list-style-type: none"> <li>▪ 3 straps with steel anchors</li> <li>▪ 1 Root Ball protection mat</li> <li>▪ 1 tensioning strap with ratchet</li> </ul>
< 25 cm	GGB 120225	
< 50 cm	GGB 120350	
< 90 cm	GGB 120460*	
> 90 cm	GGB 120970*	

Installation tools required: drive rod  
drive rod (available in the length of 1 m or 1.5 m) and strap tensioner; see images on page 34

\* Straps adjustable in length

### Application with wire mesh or eyebolts

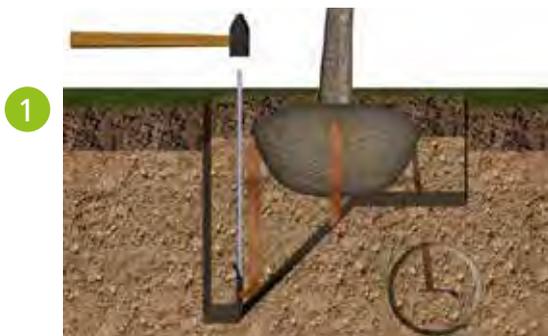
Circumference	Type	The Root Ball Anchor set consists of
< 50 cm	GGB 120550 GGB 120650*	<ul style="list-style-type: none"> <li>▪ 3 straps without steel anchors</li> <li>▪ 1 Root Ball protection mat</li> <li>▪ 1 tensioning strap with ratchet</li> </ul>
< 90 cm	GGB 120760*	
> 90 cm	GGB 121070*	

Installation tools required: strap tensioner and wire mesh; see images on page 34.

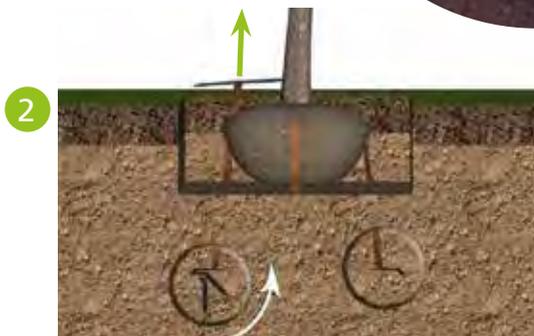
\* Straps adjustable in length

\*Advice: concrete mesh at least 20 cm wider on all sides of the Root Ball

\* To ensure that the concrete mesh remains in place, we advise to install a fleece (geotextile) between the root ball and concrete mesh (this also applies to the BIO Root Ball Anchoring)



1 Drive the 3 anchors into the ground and remove the driving rod



2 Loadlock the 3 anchors with firm pull on the strap



3 Push the tensioning strap through the 3 loops



4 Tighten the strap by winding the ratchet. Repeat after 2 days, after tightening unhook the ratchet tensioner



# Bio Root Ball Anchoring

## Bio Tree Anchoring

The GreenMax Root Ball Anchoring system is also available in a biodegradable form. The straps in this system are made of Bio Based polymers which breaks down after its intended use, to result in natural by-products.

No need for maintenance or remembering to cut the straps 5 years after planting the tree, when using our Bio Root Ball Anchoring system. Our system will loosen after several years due to the biological break down of the straps, prevented strangling or damaging tree roots.

The GreenMax Bio Root Ball Anchoring is certified by the European Bioplastic Quality Mark and provides a tested sustainable solution for anchoring trees underground.

### Test results

Testing (standards: DIN EN 12225 / DIN EN 13432 / DIN 18916) has shown that the organic straps remain sufficiently strong to vouch for stability during the first four years.

### Material

- Fast and easy installation (± 10 minutes)
- User friendly
- No unsightly anchors or wooden tree stakes above the surface (nice final image)
- Completely biodegradable bio straps after 5 year
- This underground anchoring system stimulates a natural growth

### Installation tools

#### Standard equipment:



Separate strap tension lever



Drive rod only necessary for ground anchors

#### Additional supplies (optional):



Ramrod



Drive rod remover

### Application with anchors

Circumference	Type	The Root Ball Anchor set consists of
< 25 cm	GGB 1202025 BIO	<ul style="list-style-type: none"> <li>▪ 3 Bio-straps with steel anchors</li> <li>▪ 1 Root Ball protection mat (diameter: 60 cm)</li> <li>▪ 1 Bio tensioning strap with ratchet</li> </ul>
< 35 cm	GGB 1202035 BIO	<ul style="list-style-type: none"> <li>▪ 3 Bio-straps with steel anchors</li> <li>▪ 1 Root Ball protection mat (diameter: 80 cm)</li> <li>▪ 1 Bio tensioning strap with ratchet</li> </ul>

Installation tools required: drive rod (available in the length of 1 m or 1.5 m) and strap tensioner

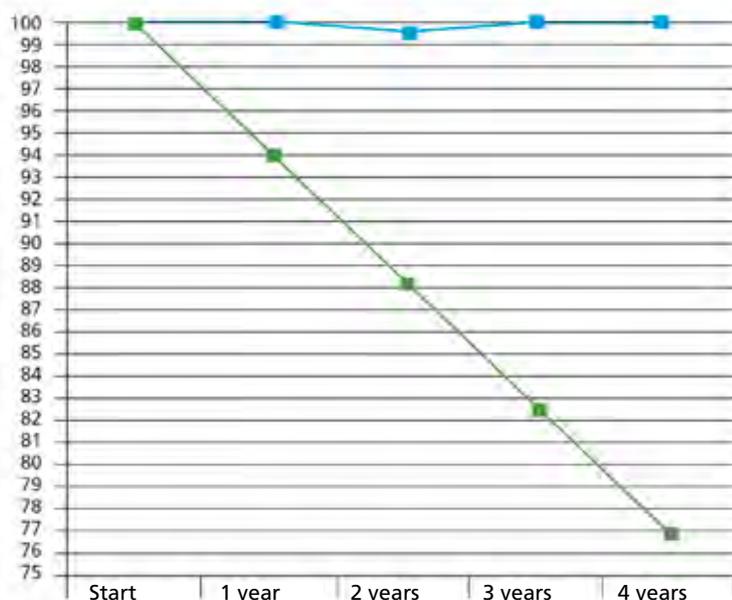
### Application with wire mesh or anchors

Circumference	Type	The Root Ball Anchor set consists of
< 35 cm	GGB 1202035 BIO 2	<ul style="list-style-type: none"> <li>▪ 3 Bio-straps without steel anchor</li> <li>▪ 1 Root Ball protection mat (diameter: 80 cm)</li> <li>▪ 1 Bio tensioning strap with ratchet (length: 250 cm)</li> </ul>

Installation tools required: strap tensioner and wire mesh



Degradation in % throughout a (simulated) four-year period, in accordance with the DIN EN 12225 standard



Standard polymer

Biodegradable polymer

**Microbiological resistance in accordance with DIN EN 12225**

The DIN EN 12225 standard describes a method for determining the microbiological resistance of geotextiles by means of a soil burial test.

Both the DIN EN ISO 846 and DIN EN 12225 standards prescribe specific temperature and humidity requirements. Furthermore, DIN EN ISO 846 calls for the presence of particular bacteria and fungi microbes. DIN EN 12225 prescribes the use of active soil, such as compost, in which natural forms of these micro-organisms are present. The micro-organisms multiply by consuming the bioplastic.



# Tree Tie

## Nylon Tree Tie

The GreenMax Nylon Tree Ties are used to easily bind up and fix trees.

By using a broad belt the trees are being kept in the right position.

### Material

- Nylon
- Color: grey / black
- Roll Length: 50 m<sup>1</sup>
- Width: 5 cm



*Nail*



### Dimensions

Type	Length	Width
Nylon Tree Tie	50 m <sup>1</sup>	5 cm
Nail 400 PCS (2,5 kg) per box	40 mm	3,1 mm





## Tree Tie

### Jute Tree Tie

The Jute Tree Tie is made of strong, 100% recycled woven jute. The added advantage of using jute is that it does not cut into the bark of the tree. The tie is secured to the tree stake using tacks.

It has a tensile strength largely comparable to that of the Nylon Tree Tie. The Tree Tie remains in place for two growing seasons. The decomposition process commences after three years, so that if one forgets to remove the tie, it will simply decompose naturally.

#### Material

- Jute
- Color: beige
- Roll Length: 25 m<sup>1</sup>
- Width: 7 cm
- Biodegradable

#### Dimensions

Type	Length	Width
Jute Tree Tie	25 m <sup>1</sup>	7 cm
Nail 400 PCS (2,5 kg) per box	40 mm	3,1 mm





# Tree Tie

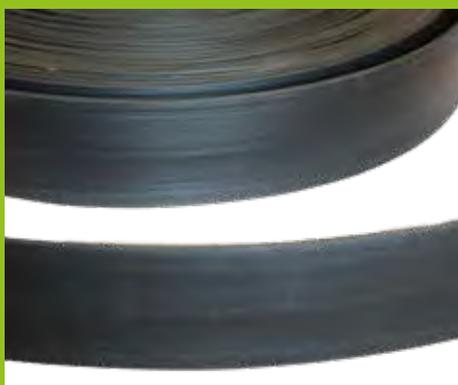
Canvas reinforced rubber tree ties

## Material

- Rubber, canvas reinforced
- Color: anthracite / black
- Roll length: 25 m<sup>1</sup>
- Width: 4 cm



*Tree tie buckle*



GreenMax's rubber Tree Ties are canvas reinforced and are used for easy tree tying and anchoring.

By using wide tree ties, trees are kept in the correct position. By means of (Tree Tie) nails, the tie can be attached to the tree stake.

The tightening loop can be used as a spacer between the Tree Stake and the tree trunk.

## Dimensions

Type	Length	Width
Canvas reinforced rubber tree ties	25 m <sup>1</sup>	4 cm
Nails 400 pieces (2,5 kg) per box	40 mm	3,1 mm
Tree tie buckle	n / a	5 cm Innersize





## Tree Stakes

Recycled plastic

### Material

- Recycled plastic
- Color: anthracite
- Round
- Measurements: 80 x 1200 mm



Tree Stakes are used for stable planting of young plants, so that the root ball can no longer move.

These round Tree Stakes are made of recycled plastic; very environmentally friendly and a sustainable alternative to the traditional wooden tree posts. The Tree Stakes are maintenance-free and insensitive to weather conditions. Due to the good quality of the tree stakes they have a long life span.

Recycled Tree Stakes are sustainable and circular, because they are made from low-grade recycled plastics; the remnants that can no longer be used everywhere.

### Dimensions

Thickness	Height
80 mm	1200 mm

Other measurements available on request



# Aeration & Irrigation

## Application:

- Effective irrigation for trees in the urban environment
- Ensures oxygen into the planting hole

# AirMax & AquaMax

## Aeration & Irrigation

### Material

- Polyethylene (PE)
- Polypropylene (PP)
- 100% recyclable
- Polyethylene hose with filtering cloth to protect against clogging up
- Extra perforation for better aeration (AirMax) and for better distribution of water (AquaMax)



Many (young) trees, shrubs and hedges in urban environments suffer from drought or lack of oxygen to the roots. This is usually caused by a compacted soil structure and / or the fact that rainwater hardly penetrates the soil. The AirMax Aeration system and the AquaMax Irrigation system is a highly effective and easy to install system for the convenient irrigation of trees.

All AirMax and AquaMax hoses and tubes are as standard provided with a polyester filtering cloth that allows an even infiltration of water (when used as irrigation) and a minimum of 45% diffusion (when used as aeration).

### Example of installation AirMax Aeration

Tree Diameter	Tree height	Tube length horizontal	Tube length vertical
8 - 16 cm	< 3 m	2 m <sup>1</sup>	1 m <sup>1</sup>
16 - 25 cm	3 - 5 m	2,5 m <sup>1</sup>	1 m <sup>1</sup>
25 - 45 cm	5 - 7 m	4,5 m <sup>1</sup>	1 m <sup>1</sup>
> 45 cm	> 7 m	7,5 m <sup>1</sup>	1 m <sup>1</sup>

Ø Tube horizontal: 80 mm

Ø Tube vertical: 80 mm

### Example of installation AquaMax Irrigation

Tree Diameter	Tree height	Tube length horizontal	Tube length vertical
8 - 16 cm	< 3 m	2 m <sup>1</sup>	0,5 m <sup>1</sup>
16 - 25 cm	3 - 5 m	2,5 m <sup>1</sup>	0,5 m <sup>1</sup>
25 - 45 cm	5 - 7 m	4,5 m <sup>1</sup>	0,5 m <sup>1</sup>
> 45 cm	> 7 m	7,5 m <sup>1</sup>	0,5 m <sup>1</sup>

Ø Tube horizontal: 80 mm

Ø Tube vertical: 80 mm



## Components



Flexible Irrigation / Aeration hose  
PE Ø 80 mm Type: AMS80  
PE Ø 100 mm Type: AMS100  
PE Ø 160 mm Type: AMS160  
50 m<sup>1</sup> per roll



Flexible Irrigation / Aeration hose including woven filtering cloth  
PE Ø 80 mm Type: AMS80K  
50 m<sup>1</sup> per roll  
PE Ø 100 mm Type: AMS100K  
50 m<sup>1</sup> per roll  
PE Ø 160 mm Type: AMS160K  
25 m<sup>1</sup> per roll



Flexible Irrigation / Aeration hose including coconut filtering cloth  
PE Ø 80 mm Type: AMS80C  
PE Ø 100 mm Type: AMS100C  
50 m<sup>1</sup> per roll

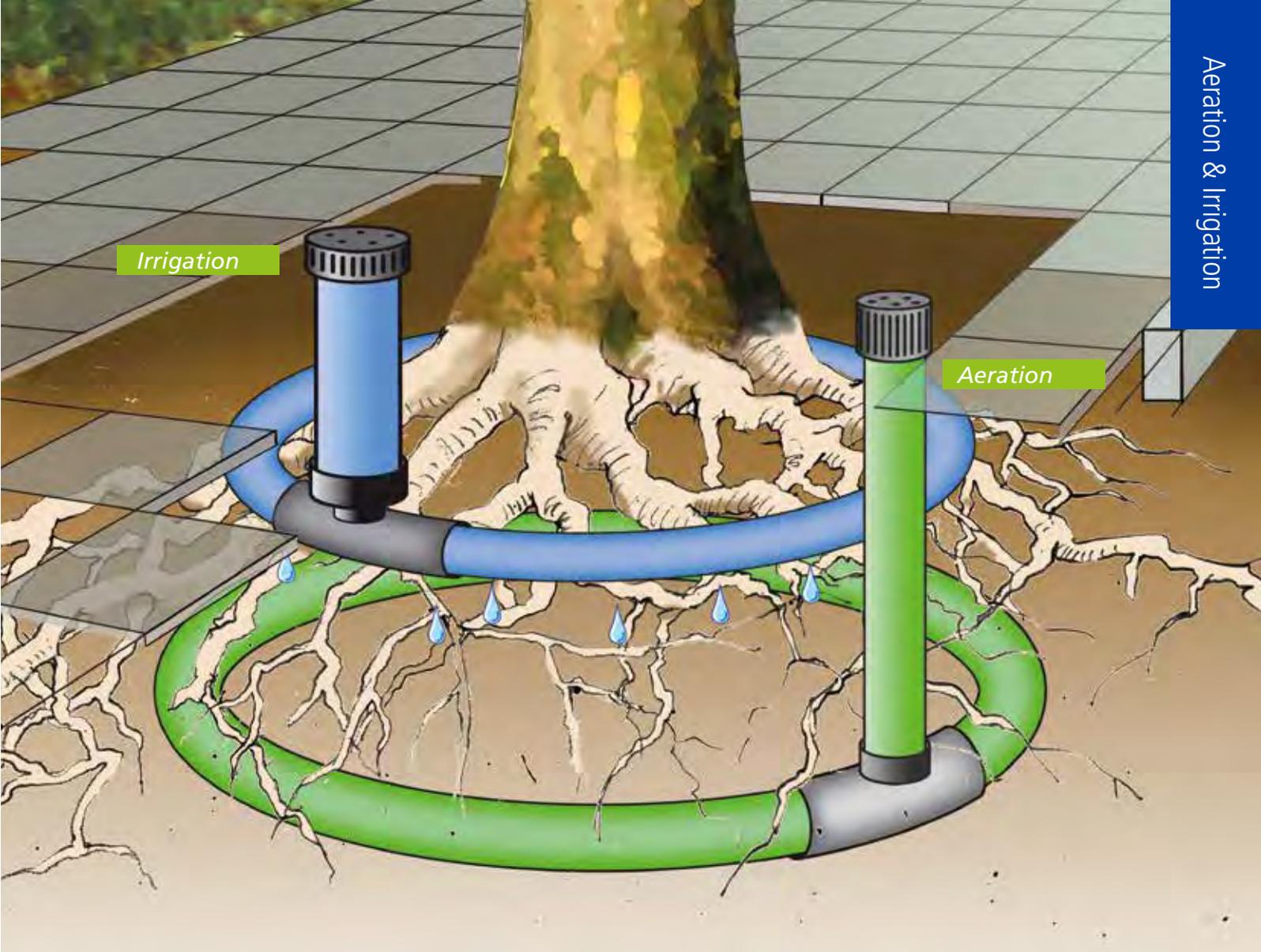


Flexible Irrigation / Aeration hose encased in polypropylene 450  
PE Ø 80 mm Type: AMS80PP  
PE Ø 100 mm Type: AMS100PP  
50 m<sup>1</sup> per roll



AirMax 45 Aeration hose 45% perforated including woven filtering cloth  
PE Ø 80mm Type: AMB80K  
PE Ø 100 mm Type: AMB100K  
Standard dimensions 1.05 m and 2.10 m  
Other dimensions available on request

Read more on page 46



## Components



Bend pipe 90 degrees  
 PP Ø 80 mm  
 Type: AM80 Bend pipe  
 PP Ø 100 mm  
 Type: AM100 Bend pipe



T-piece  
 PP Ø 80 x 160 x 80 mm  
 Type: AMT80 x 160 x 80  
 PP Ø 100 x 160 x 100 mm  
 Type: AMT100 x 160 x 100



T-piece  
 PP Ø 80 x 80 x 80 mm  
 Type: AMT80  
 PP Ø 100 x 100 x 100 mm  
 Type: AMT100  
 PP Ø 160 x 160 x 160 mm  
 Type: AMT160



Connector  
 PP Ø 80 mm  
 Type: AMK80  
 PP Ø 100 mm  
 Type: AMK100



Also available in different colors!

**Endcover components**

New!



Circular Endcover  
Grid: plastics or steel (stainless steel)  
100 x 100 mm  
Type: AME100KC (grid plastic)  
Type: AME100K-RVS (grid stainless steel)  
  
Circularly produced from our own recycling process



End cover with screw lid  
PP Ø 80 mm  
Type: AME80 Screw



Click-fit end cover with 5 air holes  
PP Ø 80 mm Type: AME80L  
PP Ø 100 mm Type: AME100L  
PP Ø 160 mm Type: AME160L



End cover hot-dip galvanized steel  
RAL 9005, powder coated  
Ø 80 mm, steel thickness 1 mm  
Type: AMROND80



End cap hot-dip galvanized steel grid\*  
100 x 100 mm  
Type: AMTHERM10 Small



End cap hot-dip galvanized steel grid\*  
170 x 170 mm  
Type: AMTHERM17 Large



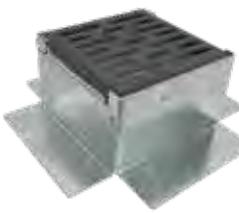
End cap stainless steel grid\*  
100 x 100 mm  
Type: AMRVS10 Small



End cap stainless steel grid\*  
170 x 170 mm  
Type: AMRVS17 Large



End cap sherardized grid\*  
100 x 100 mm  
Type: AMSTEEL10 Small



End cap sherardized grid\*  
170 x 170 mm  
Type: AMSTEEL17 Large



End cap Corten steel grid\*  
100 x 100 mm  
Type: AMCORTEN10 Small



End cap Corten steel grid\*  
170 x 170 mm  
Type: AMCORTEN17 Large

Can all be supplied with a leaf grille  
\*All steel end covers: galvanized with different material grid

# AirMax Bio & AquaMax Bio

## Advantages

- Natural resources!
- Sustainable and environmentally friendly
- 40% Reduction of CO<sub>2</sub> gasses during the production process
- In the right circumstances the system is completely compostable (EN13432, ASTM D6400, Vincotte OK Compost)



**AirMax / AquaMax BIO is a compostable aeration / irrigation system produced from corn and the bio synthetic granulate Cradonyl®**

All parts are biodegradable and will start breaking down within 3 to 5 years. It is therefore a much more durable solution than the standard plastic systems. Underground Aeration and Irrigation desperately needs the tree for the first few years after planting, after which the system is superfluous and the plastics remain useless in the ground.

## Components



Irrigation / Aeration hose Bio  
 Ø 80 mm  
 50 m<sup>l</sup> per roll  
 100% biodegradable  
 Type: CNBS80  
 Type: CNBSK80 (incl. coconut filtering cloth)



End cover with screw lid Bio  
 Ø 80 mm  
 100% biodegradable  
 Type: CNES80



T-piece Bio  
 80 x 80 x 80 mm  
 100% biodegradable  
 Type: CNT80



Click-fit end cover Bio  
 Ø 80 mm  
 100% biodegradable  
 Type: CNEK80



Connector Bio  
 Ø 80 mm  
 100% biodegradable  
 Type: CNMK80



Click-fit end cover Bio with aeration holes  
 Ø 80 mm  
 100% biodegradable  
 Type: CNEG



# AirMax 45

Aeration; ideal for in tree granulate

## Material

- HDPE, pressure resistant and UV-stable
- Ø 80 mm and Ø 100 mm tube
- 100% recyclable
- 45% perforation
- All lengths possible on request
- Inclusive polyester filtering cloth
- Produced from recycled products

The AirMax 45 Aeration system is placed deeper in the tree pit to provide much needed air allowing the deeper roots to establish and thrive.

The AirMax 45 tubes have 45% perforation and are, due to the high pressure resistance, ideal for use in structural soil. The system is covered with a polyester filtering fabric with a very long life span, exceeding the lifespan of coconut fibre.

Expandable with end caps and accessories from page 42 to 44

## Components



AirMax 45 Aeration tube  
 PE, 45% perforated incl. woven filtering cloth  
 Type: AMB80K (80 mm, 1.05 m of 2.1 m)  
 Type: AMB100K (100 mm, 1.05 m of 2.1 m)

Other dimensions on request



Bend pipe 90 degrees  
 PP Ø 80 mm  
 Type: AM80 Bend pipe  
 PP Ø 100 mm  
 Type: AM100 Bend pipe



T-piece  
 PP Ø 80 x 80 x 80 mm  
 Type: AMT80  
 PP Ø 100 x 100 x 100 mm  
 Type: AMT100



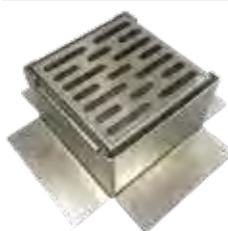
### Extension optional



Steel end cap, galvanized bottom part  
100 x 100 mm

With 4 types of grid:

Galvanised steel, Stainless steel, Corten steel and Sherardized steel (see page 44)



Steel end cap, galvanized bottom part  
170 x 170 mm

With 4 types of grid:

Galvanised steel, Stainless steel, Corten steel and Sherardized steel (see page 44)



Circular Endcover

100 x 100 mm

Grid: plastics or steel (Stainless steel)

Type: AME100KC (grid plastic)

Type: AME100K-RVS (grid Stainless steel)

New!

This new end cap is produced from recycled plastic from our circular collaboration with the plastic recycling industry.

The grid is a replacement for the iron end caps, cheaper, strong, drive-over and available in different colors. 100% recyclable, so very durable.

Delivered as  
a bundled set

### Set B1



#### \* Alternatives:



End cover  
with screw lid



Circular Endcover  
(plastic grid)  
■ 100 x 100 mm



Steel end cap:  
■ 100 x 100 mm  
■ 170 x 170 mm



Circular Endcover  
(stainless steel grid)  
■ 100 x 100 mm

### Set B1-F



#### \* Alternatives:



Endcover  
with screw lid



Steel end cap:  
■ 100 x 100 mm  
■ 170 x 170 mm



Circular Endcover (plastic grid)  
■ 100 x 100 mm



Circular Endcover (Stainless steel)  
■ 100 x 100 mm

## Aeration sets

### Contents B1

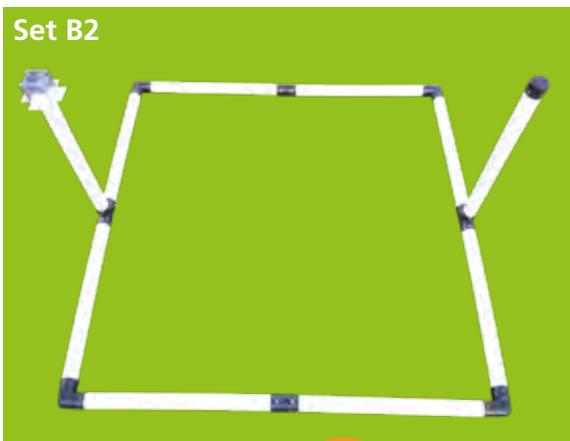
Dimensions: approx. 1.05 x 1.05 x 1.05 m. (L x W x H)

	4 pcs AirMax45 with cloth Ø 80 mm, 1.05 m <sup>1</sup> Type: AMB80K
	4 pcs AirMax45 with cloth Ø 80 mm, 0.5 m <sup>1</sup> Type: AMB80K - customization
	2 pcs Click-fit end cover* Ø 80 mm Type: AME80 Long
	2 pcs T-piece Ø 80 mm Type: AMT80
	4 pcs Bend pipe 90 degrees Ø 80 mm Type: AM80 Bend pipe

### Contents B1-F

Dimensions: ca. 1.05 x 1.05 x 1.05 m. (L x W x H)

	2 pcs AirMax45 with cloth Ø 80 mm, 1.05 m <sup>1</sup> Type: AMB80K
	4 pcs AirMax45 with cloth Ø 80 mm, 0.5 m <sup>1</sup> Type: AMB80K - customization
	2 pcs Flexible Irrigation / aeration hose including woven filtering cloth 1m <sup>1</sup> Type: AMS80K – customization
	2 pcs Click-fit end cover* Ø 80 mm Type: AME80 Long
	2 pcs T-piece Ø 80 mm Type: AMT80
	4 pcs Bend pipe 90 degrees Ø 80 mm Type: AM80 Bend pipe



**\* Alternatives:**



End cover with screw lid



Circular Endcover (plastic grid)  
■ 100 x 100 mm



Steel end cap:  
■ 100 x 100 mm  
■ 170 x 170 mm



Circular Endcover (stainless steel grid)  
■ 100 x 100 mm



**\* Alternatives:**



Endcover with screw lid



Steel end cap:  
■ 100 x 100 mm  
■ 170 x 170 mm



Circular Endcover (plastic grid)  
■ 100 x 100 mm



Circular Endcover (Stainless steel)  
■ 100 x 100 mm

**Aeration sets**

**Contents B2**

Dimensions: approx. 2.10 x 2.10 x 1.05 m. (L x W x H)

	10 pcs AirMax45 with cloth Ø 80 mm, 1.05 m <sup>1</sup> Type: AMB80K
	2 pcs connector Ø 80 mm Type: AMK80
	2 pcs Click-fit end cover* Ø 80 mm Type: AME80 Long
	2 pcs T-piece Ø 80 mm Type: AMT80
	4 pcs Bend pipe 90 degrees Ø 80 mm Type: AM80 Bend pipe

**Contents B2-F**

Dimensions: approx. 2.10 x 2.10 x 1.05 m. (L x W x H)

	8 pcs AirMax45 with cloth Ø 80 mm, 1.05 m <sup>1</sup> Type: AMB80K
	2 pcs Irrigation / aeration hose including woven filtering cloth 1m <sup>1</sup> Type: AMS80K – customization
	2 pcs connector Ø 80 mm Type: AMK80
	2 pcs Click-fit end cover* Ø 80 mm Type: AME80 Long
	2 pcs T-piece Ø 80 mm Type: AMT80
	4 pcs Bend pipe 90 degrees Ø 80 mm Type: AM80 Bend pipe

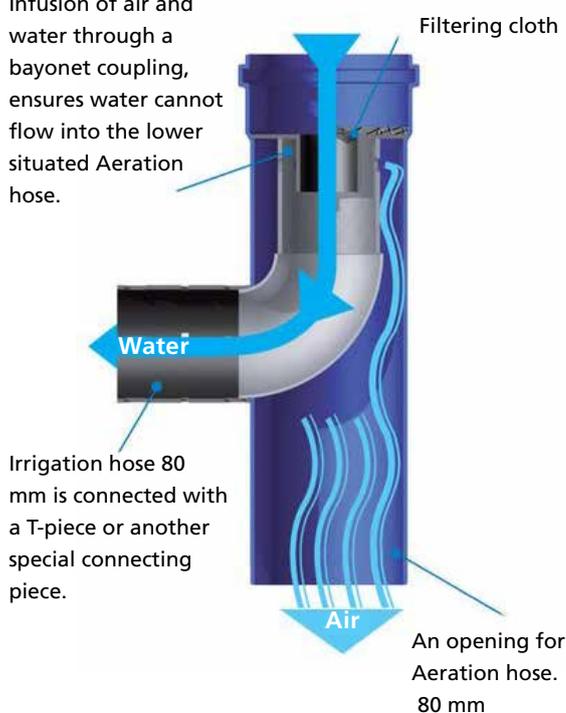


# LUWA

## Aeration & Irrigation



Infusion of air and water through a bayonet coupling, ensures water cannot flow into the lower situated Aeration hose.



Irrigation hose 80 mm is connected with a T-piece or another special connecting piece.

Many newly planted trees suffer from lack of water or oxygen caused by highly compacted soil, particularly in urban environments. It is imperative that an effective Aeration and Irrigation system be installed to support the newly planted trees in urban environments.

Existing systems have the risk of Aeration tubes being used for Irrigation, and vice-versa. Therefore this is the primary reason prompting the development of the LUWA system.

Two systems: one input!

Aeration and Irrigation systems are combined in the LUWA-system, ensuring that water cannot flow into the Aeration system which is installed deeper in the tree pit. By installing a two-in-one system, there are significant cost savings in both time and materials.



### Set includes:

	LUWA splitter		Reducer Ø 80 - Ø 110
	Connector PP Ø 80 mm Type: AMK80		Specie cover 110
	2 pcs T-pieces PP 80 x 80 x 80 mm Type: AMT80		Filter

Can be expanded with plastic end cap Ø 110 mm or steel end cap 170 x 170 mm



## AquaMax

### Water Reservoir

#### Material

- Produced from high quality recycled HDPE
- Produced from high quality recycled LDPE
- Polyethylene based on residual sugar cane waste
- 100% recyclable
- Color: green, black and brown

#### Installation tool

Cutting the water reservoir in a straight line with the AquaMax / AMGR CUTTING BOARD. The stainless steel cutting board is 10 cm wide and 36.5 cm high.



Dry soil in the urban environment will reduce the growth of young trees. The AquaMax water reservoir is a functional solution to keep the trees healthy. During the summer period it has an added benefit of protecting the trunk against mower or strimmer damage whilst in the winter it will protect against gritting operations.

The inside of the water reservoir can be filled with a coconut fibre mat or wood scraps to prevent weeds.

The water reservoir can easily be filled with water and has a large water storage capacity. A small part of the AquaMax should be placed in the ground (+ / - 10cm). This will make sure that the water reservoir stays stable and that the water will remain in the area around the tree trunk.

The water reservoir can be closed with double-sided tape or, upon request, with a coupling.





All our water reservoirs are re-usable. By using our water reservoir coupling re-using became much easier, because the water reservoir stay without nail holes.

### Dimensions and material

	Type	Material / color	Length	Height	Thickness	Structure	Lifecycle
	Budget water reservoir AMGR125Z	High-quality recycled HDPE Black/ anthracite* partly UV-stable	25 m <sup>1</sup>	30 cm	1,5 mm	Smooth	Approx. 5 years
	AquaMax water reservoir AMGR225Z	High-quality recycled HDPE Black UV-stable	25 m <sup>1</sup>	30 cm	2 mm	Smooth	Approx. 10 years
	AquaMax water reservoir AMGR325Z	High-quality recycled LDPE Black UV-stable	25 m <sup>1</sup>	30 cm	3 mm	With structure	Approx. 10 years
	Budget water reservoir AMGR320G	High-quality recycled LDPE Green* partly UV-stable	20 m <sup>1</sup>	30 cm	3 mm	Smooth	Approx. 5 years
	AquaMax water reservoir AMGR225G	High-quality recycled HDPE Dark green UV-stable	25 m <sup>1</sup>	30 cm	2 mm	With structure	Approx. 10 years
	AquaMax water reservoir AM-GR225GZ	High-quality recycled HDPE Bicolour: Dark green/ black UV-stable	25 m <sup>1</sup>	30 cm	2 mm	With structure	Approx. 10 years
	AquaMax water reservoir AMGR325G	High-quality recycled LDPE Dark green UV-stable	25 m <sup>1</sup>	30 cm	3 mm	With structure	Approx. 10 years

### Dimensions and material

	Type	Material / color	Length	Height	Thickness	Structure	Lifecycle
	AquaMax water reservoir AMGR335G25	High-quality recycled LDPE Dark green UV-stable	25 m <sup>1</sup>	35 cm	3 mm	With structure	Approx. 10 years
	AMGR Biobased water reservoir	Made of sugar cane waste Brown* UV-stable	25 m <sup>1</sup>	30 cm	2 mm	Smooth	Approx. 10 years
	Circular water reservoir	Based on waste plastic Anthracite Not UV-stable	20 m <sup>1</sup>	30 cm	3 mm	Smooth	Approx. 10 years
	AMGR bumper 38	Rubber Black* Not UV-stable	Ø 38 cm	26 cm	30 mm	mat	Approx. 10 years
	AMGR bumper 48	Rubber Black* Not UV-stable	Ø 48 cm	26 cm	30 mm	mat	Approx. 10 years



\* Not color-resistant





## Water reservoir accessories

All the accessories are available separately.



AquaMax water reservoir coupling 30-2

Coupling for the water reservoir of 1 – 2 mm, to attach together by sliding into each other

AquaMax water reservoir coupling 30-3

Coupling to close the 3 mm thick water reservoir. Coupling for the water reservoir of 3 mm, to attach together by sliding into each other

New!



AquaMax Water Reservoir click coupling

Coupling for attaching the water reservoirs of all thicknesses with a click coupling. With a pin for easy insertion of the click coupling into the ground



Coco Disk > 57 cm  
Coco Disk > 73 cm  
Coco Disk > 100 cm  
Coco Disk > 133 cm



Steel anchor

Steel anchor to attach coco fiber mat in the ground



BIO anchor

Biodegradable anchor to attach cocofiber mat in the ground



Wooden anchor

Biodegradable anchor to attach coco fiber mat in the ground



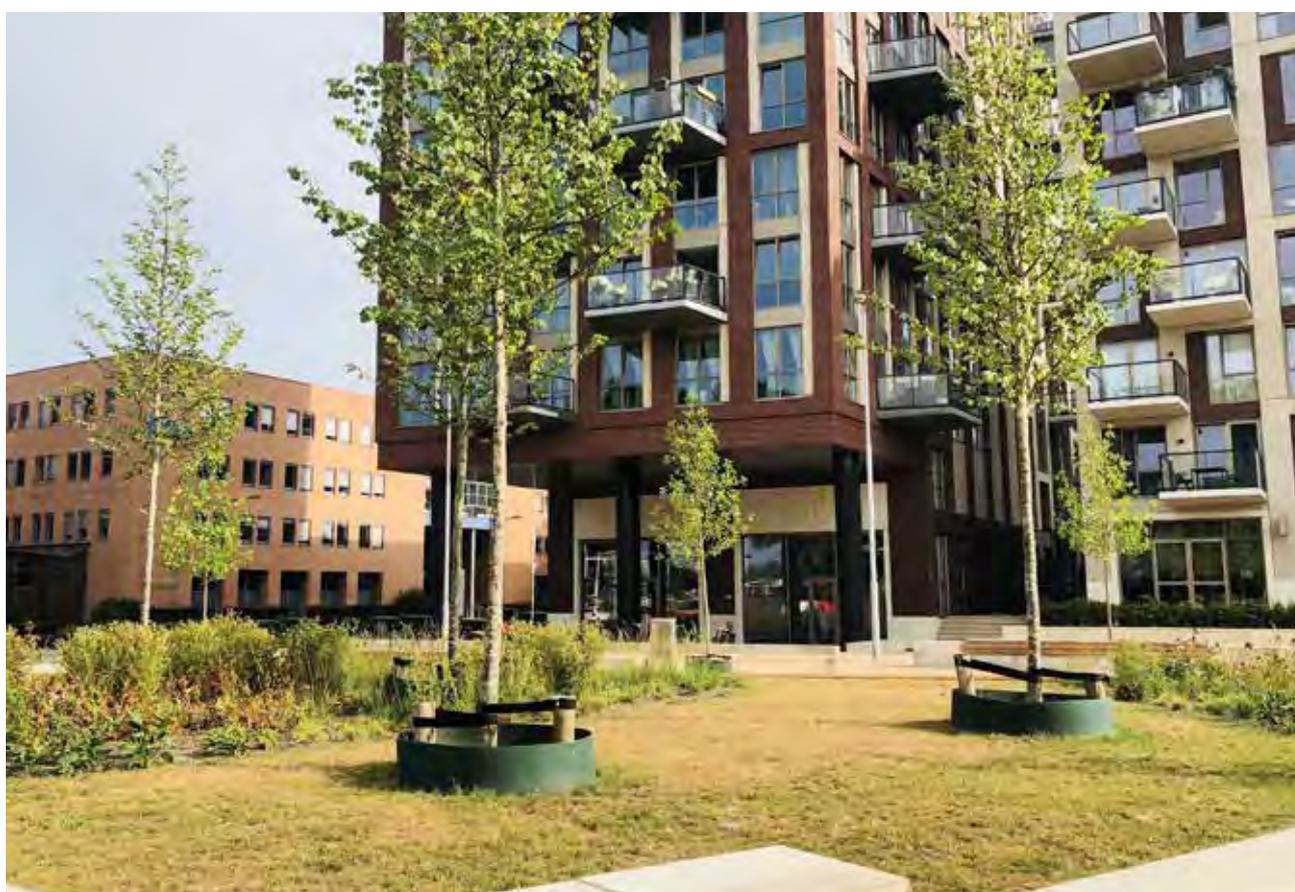
AMGR Cutting board

AquaMax cutting board to cutting the water reservoir in a straight line  
The stainless steel cutting board is 10 cm wide and 36.5 cm high

### Benefit bundle, standard with water reservoir type AMGR325G (also available with Bio Based)

The package consists of 1 water reservoir roll, couplings, coconut fibre mats and anchors.

Type	Ø Root Ball diameter	Water reservoir	Coupling	Coconut fiber mats	Steel anchor
GRTP 1	Ø 57 cm	1 roll water reservoir = 25 m <sup>3</sup> ; suitable for 14 trees Water reservoir per tree = 1.78 m <sup>3</sup> ≈ Ø 57 cm	14	14	42
GRTP 2	Ø 73 cm	1 roll water reservoir = 25 m <sup>3</sup> ; suitable for 11 trees Water reservoir per tree = 2.27 m <sup>3</sup> ≈ Ø 73 cm	11	11	44
GRTP 3	Ø 100 cm	1 roll water reservoir = 25 m <sup>3</sup> ; suitable for 8 trees Water reservoir per tree = 3.12 m <sup>3</sup> ≈ Ø 100 cm	8	8	40
GRTP 4	Ø 133 cm	1 roll water reservoir = 25 m <sup>3</sup> ; suitable for 6 trees Water reservoir per tree = 4.16 m <sup>3</sup> ≈ Ø 133 cm	6	6	36





# NepTunus

## Capillary Irrigation and Water Reservoir System

### Material

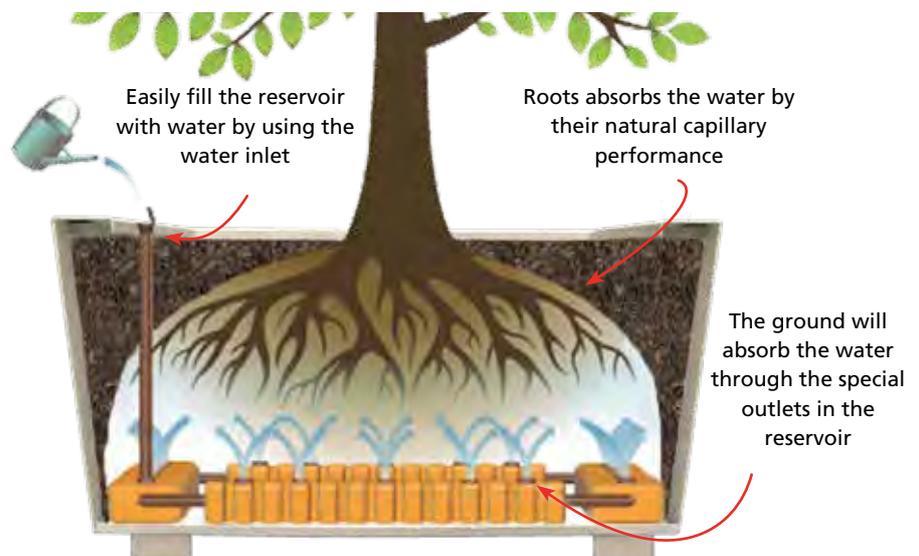
- Linkable modules
- Integrated float system
- Natural capillary performance
- Watercapacity adaptable to your needs
- One or more water inlet possibilities
- Suitable for planters and open ground situations
- Aircaps for extra oxygen supply at the roots
- Easy to install
- Made of recycled material

The system consists of linkable modules, so you can determine how much water you want to store. By using an integrated float system you can see easily how much water is available. The system can be used in a planter or open ground situation. By using the natural capillary action, the function can be guaranteed for many years. In case of drought, the stored water will be distributed to the roots of your plants or trees. The system doesn't use pumps or a capillary medium needing maintenance or replacement. Because of this the system is completely maintenance-free with a guaranteed performance.

### Prevent drought stress by city trees

Unlike planters, city trees are usually not included in the watering rounds, only in the first years after planting. (See water reservoirs; page 51). However, these trees have to contend with drought stress on many places.

Please ask our advisors for the possibilities for a maintenance free water buffering / irrigation system for trees in the city. Our advisors can also help you with the possibilities to link the rainwater into our systems.



*Ideal for tree planters*



These three models are standard in stock:



96 liter



24 liter



10 liter

New!

### Minimize the watering frequency for planters

Planters placed in public areas demand a lot of maintenance. Our planters are mobile, strong and durable and equipped with a water overflow and option of anchor eyes for anchoring trees. (See planters; page 66).

Watering is a recurring expense. With the NepTunus system you limit the frequency of watering by creating an extra waterbuffer which will help the planting during drought conditions.

Content		
Number of liters (tree box capacity)	Type NepTunus system	Number of liters NepTunus
up to 30 liter	On request	On request
30 to 100 liter	NepTunus Tank 10	10 liter
50 to 250 liter	NepTunus Tank 24 (1 piece)	24 liter
250 to 500 liter	NepTunus Tank 24 (2 pcs)	48 liter (2 x 24)
500 to 1000 liter	NepTunus Ring 24	96 liter
from 1000 liter	On request	On request



## Slow release watering bags

When planting young saplings, it is extremely important that they root well.

Use the AquaBag to prevent your newly planted trees from drying out or from being over-watered.

The AquaBag is a kind of drip bag that slowly releases drops of water around the trunk of the tree over a period of 6 to 10 hours, which prevents the water from draining away, and gives the tree ample time to absorb the water.

The bag is easy to attach around the tree by means of a zip.

Fill the AquaBag with clean water once or twice a week for optimal growth (to prevent the holes of the AquaBag from becoming blocked).

The bag can also be placed around the tree post if there is a risk of fungi or a lack of oxygen at the stem/trunk. This allows the water to drip at the root ball, while leaving the trunk unrestricted.

### Material

- Capacity 75 liters
- Easy to install
- Reusable
- 1 or more AquaBags per tree
- Can be used with trees and shrubs







# Tree Trunk Protector

Application:

- To protect trees against mowing damage and rodents



## Material

### TreeProtect PE:

- Polyethylene (PE), 100% recyclable
- Color: (dark)green (TP-G), brown (TP-B) and black (TP-Z)
- High-quality FDA certified plastics
- Easy to install
- UV proof
- Optimal aeration holes

### TreeProtect Biobased:

- Polyethylene based on residual sugar cane waste
- Color: (dark)green (TP-BIOB-G), brown (TP-BIOB-B) and black (TP-BIOB-Z)
- High-quality FDA certified recyclable plastics
- Easy to install
- UV proof
- Optimal aeration holes



# TreeProtect®

## Tree Trunk Protector

TreeProtect® is a cheap, effective and a reliable solution to protect trees against mowing damage and rodents. The tree trunk protector is available in the colors brown, green and black.

TreeProtect® has optimal air gaps. Therefore the tree gets enough air and light. Infraction by insects and rot of the tree bark is prevented by the air gaps.

TreeProtect® is easy to install, is 21 cm high and protects trunks to a diameter of 11 cm. For larger trees two or more TreeProtect® trunk protectors can easily be linked together.

## Dimensions

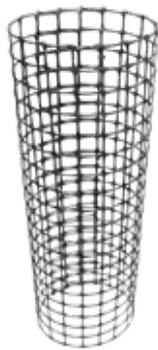
	Type	Height	Width	Thick-ness	Material
	TP-B or TP-BIOB-B	21 cm	36 cm	2 mm	PE or Biobased
	TP-G or TP-BIOB-G	21 cm	36 cm	2 mm	PE or Biobased
	TP-Z or TP-BIOB-Z	21 cm	36 cm	2 mm	PE or Biobased

All types are available in Polyethylene (PE) and Biobased.



**NL Greenlabel A+**

Royal Haskoning DHV has developed a method, for NL GreenLabel, that gives a view into the integral sustainability score of a product, material, plant or area. This score is translated into a label and displayed in a sustainability passport.

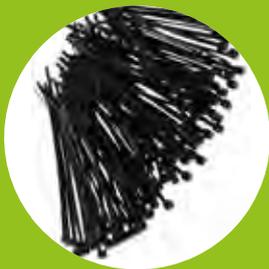


# BiteProtect®

## Tree Trunk Protector

### Material

- Polyethylene (PE), 100% recyclable
- Color: black
- Easy to install
- UV-resistant
- Optimal aeration holes
- Easy to place with tyraps



Tyraps

BiteProtect® tree trunk protection creates an effective protection against damages caused by animal bites. The trunk protector can be placed around the trunk to create an extra protection layer for the tree. With this it will be impossible for wildlife to damage the trees.

BiteProtect® is an open protection, making sure that a trunk will receive enough air and UV. Thereby preventing rotting of the tree trunk.

The BiteProtect® tree trunk protection can also be placed to prevent damage caused by golf balls at driving ranges.

### Dimensions

Type	Height	Length
BP 100	100 cm	50 m <sup>1</sup>
Tyraps	100 pieces in a bag (120 mm x 4.8 mm)	

Other dimensions on request





## ArboTape®

### Bio Wound Sealer

#### Material

- Bioplastic, made from potato starch
- Easy to install
- Protects wounds effectively against dehydration and light
- The foil starts to break down after approximately 10-12 months
- The wound recovers faster than with the conventional non-decomposable plastic film



Unfortunately Street trees are increasingly threatened by pollution and road salt and susceptible to damage caused by cars and trucks.

ArboTape® biological degradable wound sealer is an effectively proven material to heal tree wounds much faster.

The ArboTape® wound sealer is made of 100% renewable raw materials and also is 100% biodegradable. ArboTape® was tested in its suitability by the Institute for Tree Care in Hamburg. The result: The product is recommended for the quick recovery of the tree bark.

#### Dimensions

Type	Height	Length
ArboTape®	50 cm	50 m <sup>1</sup>
Biotape	5 cm	50 m <sup>1</sup>



*Fresh wound*



*Installation Arbotape® and Biotape*



*After 4 months*



*After 10 months*

# Exterior

## Application:

- Movable trees
- Green for events
- Traffic blocks
- Decoration of parks and gardens





All sizes and shapes are on our website

# GREEN2MOVE

CITY BEAUTIFICATION

## Planters

- Material**
- Fibreglass
  - Aluminium
  - Corten steel
  - EPS/Polyurea
  - Galvanized steel
  - Polymer concrete
  - Wood
  - Recycled plastic

It is important that your plant or tree fits in an appropriate pot or planter. Therefore GreenMax has several planters and pots with excellent quality for a profitable price.

We supply different sizes and shapes, use various types of materials and also offer planters with LED lighting.



### Fibreglass



- Standard material thickness is 3 mm
- Upper edge folded twice
- High-quality reinforced fibreglass
- Colored throughout the entire material
- Standard color: RAL 7021
- Available in several RAL colors
- Including insulation



## Aluminium



- Standard material thickness is 3 mm
- Upper edge folded twice
- Powder coated with a primer
- Scratch-resistant color coating
- Special primer inside
- Standard colors: RAL 7021 & RAL 9010, other RAL-colors possible for a small surcharge
- Customization possible



## Corten steel



- Standard material thickness is 2 mm
- Warm appearance
- Strong and weather-resistant type of steel
- Customization possible



## EPS/Polyurea



### Polyurea:

- Strong
- Tough elastic and impact-resistant
- Extreme wear resistance
- Liquid-tight
- Lightly diffusible
- Seamless in every layer thickness
- Good resistance to all temperature differences
- Split bridging
- Finishing with topcoat as desired

### EPS:

- Durable
- Lightweight
- Environmentally friendly
- High insulation value
- Fully recyclable
- Very shape and pressure resistant
- Insensitive to moisture
- Customization per project





## Galvanized steel



- Standard material thickness is 4 mm
- Galvanized steel
- Durable material, long-term corrosion resistant
- Weathered old look
- Customization possible



## Polymer concrete



- Polymer concrete is a cast composite stone
- Ideal for use outdoors
- Very high compressive strength and bending-resistance
- Natural raw materials such as quartz, basalt and granite, mixed with synthetic resin
- Durable material, not subject to wear
- 100% liquid tight
- Compact structure
- Color: RAL 7035
- Customization possible



## Wood



- FSC-Hardwood
- FSC-Certified
- Durability class 2
- Warm appearance
- No treatment required
- Stainless steel fasteners
- Anti-rooting fabric inside
- Customization possible



## Recycled plastic



- Resistant to any type of weather
- Maintenance-free
- Massive
- Colored to the core
- 100% recycled plastic
- 100% recyclable
- Colors: grey, black, brown, taupe, beige
- Customization possible



## Planter Complete concept



### The complete package

- Planter (without planting)
- Clay granules
- Tree Soil
- Overflow pipe (different shapes available)
- Frost protection
- Tempex Isolation
- Drip hose with coupling
- New: **RatControl**: hidden rat trap. Hidden in planters and waste bins so completely invisible. With GPRS system, to be informed remotely when a rat has been caught.

Complete concept

New!



## RatControl

New!



### New: **RatControl**: hidden rat trap

- Hidden in tree planters and waste bins so completely invisible.
- With GPRS system, to be informed remotely when a rat has been caught.





# Tree Grilles

Standard or custom made

## Material

- 5 ton / 50 kN wheel load

### Corten steel:

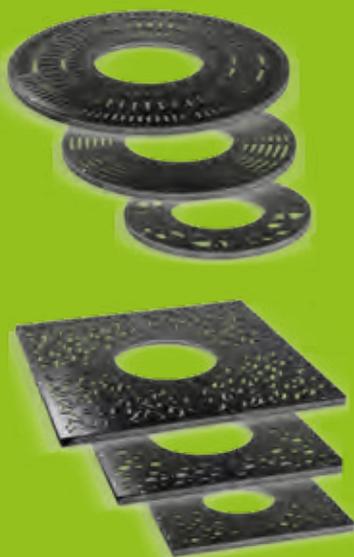
- 10 mm thick rolled Corten steel
- Many times stronger than cast iron
- More durable by own oxide layer
- natural look and low maintenance

### Black grey (RAL 7021):

- 10 mm thick rolled steel
- Many times stronger than cast iron
- More durable due to galvanization and powder coating

### Frame:

- Two-piece frame from thick-walled tube 50 x 25 x 2 mm.
- Hot-dip galvanised steel



By using Tree Grilles you care to apply safety first. The ground level remains the same all around the trees and prevents trip hazards. The trees themselves are also protected. The trunk and roots of trees are not damaged by the Tree Grilles.

Tree Grilles also ensure that water and oxygen can easily reach the roots. The underlying frame prevents load and damage to the roots.

Our Tree Grilles are also easy to install on existing concrete foundations.

Thick-walled Corten steel is ideal for the production of tree grates. Not only can you choose from an extensive range of standard products, but because of our own production we are able to comply with your wishes. Specific graphic patterns and dimensions we can produce especially for you, a custom made Tree Grille.

Also available with removable growth rings

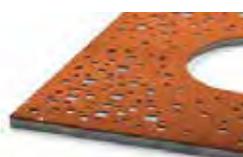


## Designs: square

Each design is available in every pattern. Designs may differ per different dimension.  
All grilles are also available in black grey.



S1 Tonys



S2 Blocks



S3 Dots



S4 Curls



S5 Rings



S6 Tracks



S7 Stripes

All grilles are also available in black grey (RAL 7021)

## Designs: square- different standard dimensions

Each design is available in every pattern. All designs are also available in black grey.

Type	Comments	∅ Tree hole mm	Length mm	Width mm	Height mm	Weight kg
Tree Grate S980	Grille ■ Corten steel ■ Black grey (RAL 7021)	500	980	980	10	46
	Frame ■ Galvanized steel	500	982	982	50	16
Tree Grate S1200	Grille ■ Corten steel ■ Black grey (RAL 7021)	500	1200	1200	10	72
	Frame ■ Galvanized steel	500	1202	1202	50	20
Tree Grate S1490	Grille ■ Corten steel ■ Black grey (RAL 7021)	700	1490	1490	10	115
	Frame ■ Galvanized steel	700	1492	1492	50	25
Tree Grate S1800	Grille ■ Corten steel ■ Black grey (RAL 7021)	700	1800	1800	10	178
	Frame ■ Galvanized steel	700	1802	1802	50	30
Tree Grate S1950	Grille ■ Corten steel ■ Black grey (RAL 7021)	1000	1950	1950	10	195
	Frame ■ Galvanized steel	1000	1952	1952	50	39



## Patterns: round

Each design is available in every pattern. Designs may differ per different dimension.  
All grilles are also available in black grey.



R1 Tonys



R2 Blocks



R3 Dots



R4 Curls



R5 Rings



R6 Tracks

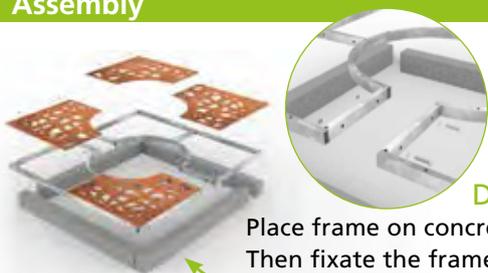
All grilles are also available in black grey (RAL 7021)

## Designs: round- different standard dimensions

Each design is available in every pattern. All designs are also available in black grey.

Type	Comments	∅ Tree hole mm	∅ Diameter mm	Height mm	Weight kg
Tree Grate R1200	Grille ■ Corten steel ■ Black grey (RAL 7021)	600	1200	10	59
	Frame ■ Galvanized steel	600	1202	50	15
Tree Grate R1500	Grille ■ Corten steel ■ Black grey (RAL 7021)	700	1500	10	96
	Frame ■ Galvanized steel	700	1502	50	19
Tree Grate R1800	Grille ■ Corten steel ■ Black grey (RAL 7021)	700	1800	10	185
	Frame ■ Galvanized steel	700	1802	50	23

## Assembly



Detail A

Place frame on concrete foundation.  
Then fixate the frame by screwing the bolts.



Detail B

M10 Stainless steel bolts loosely screwed for positioning. After placing the 4 grille-parts tighten the bolts.



# Tree Watering Island

## Exterior

### Material

#### Corten steel exterior

- Rolled Corten steel 3 mm thick
- More sustainable due to its own oxide layer
- Natural appearance and maintenance-friendly

#### Black-Grey (RAL 7021)

- Rolled aluminium 4 mm thick
- Corrosion-resistant
- Durable due to galvanisation and powder coating



Heavy downpours are becoming increasingly common with an increase in the number of brief extreme downpours, in particular. The number of days with heavy downpours in the Netherlands has even doubled since the 50s. The cause behind this is climate change. Because we are confronted with a rise in temperature, the quantity of water vapour increases. And the more water vapour in our atmosphere, the higher precipitation levels. For every degree of temperature rise, precipitation increases by up to 14% per hour during extreme showers. In this respect, it is important for cities to have appropriate measures in place. 'Urbanisation' presents a big problem here, as it prevents the rain water from seeping / filtering into the ground. Our sewer system is also not equipped to adequately handle the water excess during extreme downpours. The solution is for the water to infiltrate in places where it is useful for our urban greenery and for the groundwater to be replenished.

It would also be good to buffer all the falling water in green urban areas where possible. That would prevent the streets from becoming flooded and the sewage system from becoming overburdened. The greenery / trees can absorb this water so that the excess water can calmly seep down to groundwater level.

GreenMax has developed special Tree Watering Island for this purpose, which can be placed around tree trunks in hardened surfaces. The channel allows for quick drainage. The Tree Watering Islands are available in various designs. The raised edge also provides protection for the tree and reduce the pressure. Tree Watering Islands can also easily be combined with our Tree Grates.

### Assembly

Our Tree Watering Islands can be easily installed on existing concrete foundations. The grate must be supported by load-bearing gravel.



Assembly time for 1 person: 10 minutes



No additional delivery time when custom made



Available in both black-grey (RAL 7021) and Corten steel



# Tree Trunk Guard

Exterior

By using Tree Guards you offer the tree protection from external influences. Tree Guards in combination with our Grilles offer you both aesthetics and functionality as a total solution. Simplicity makes our Guards functional and robust. The right construction and materials make the Guard suitable for the public space.

Our Guards are equipped standard with a bracket with M10 assembly holes. Because of this, they are easy to assemble on our Tree Grilles or on the existing foundation.

## Material

- Corten steel (Spring, Autumn and Winter)
- Galvanised steel + RAL Powder coating
- Galvanised steel
- Hardwood

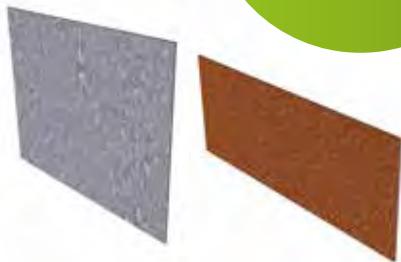
## Models

Model	∅ Inside mm	Height mm	Weight kg
 Spring Tree Guard	700	850	16
 Summer Tree Guard	700	850	11
 Autumn Tree Guard	700	850	16
 Winter Tree Guard	700	850	16

Shown per set (2 pieces)  
 Can be ordered per piece



You can find  
all of our  
measurements  
and shapes on  
our website



## Edge Retaining

### Exterior

The GreenMax Edge Retaining system, you can use to easily create straight or curved lines along your grass, lawn, bed or pond.

GreenMax uses contemporary raw materials with durable corrosion protection. The focus is on productions which can be easily installed, with a good price / quality ratio.

#### Material

- Plastic
- 100% Recycled Plastic ECO
- Corten steel
- Galvanized steel



#### Plastic

Our Plastic Edging systems are flexible to use. They are light weighted, very flexible and therefore easy to place install in all kinds of shapes / projects. The Eco Edging system consists of an ecologically manufactured material of 100% recycled plastic and has a really long lifespan.

#### Corten Steel

Corten steel is a strong and weather-resistant type of steel that has the property of covering itself with a protective rust layer when exposed to the outside air. This natural solid rust layer protects against further corrosion. Characteristic for Corten steel is the brown-orange rust color and the long lifespan.

#### Galvanized Steel

We supply Galvanized steel edging for people who prefer a gray / silver finish. The galvanizing of steel is done to protect iron from the formation of rust.



# Edge Retaining

Plastic

## Material

### Grass Edge black:

- Height: 15 cm
- Roll length: 25 m<sup>1</sup>
- Thickness: 4 mm
- HDPE

### Grass Edge green:

- Height: 10 cm
- Roll length: 25 m<sup>1</sup>
- Thickness: 3 mm
- LDPE

### Easy Line:

- PVC
- Color: black and green
- Length: 80 cm en 100 cm
- Height: 4.5, 6 en 8 cm
- Made from 100% recycled material

### ECO:

- 100% recycled plastic
- Color: grey and brown

### Ecolat straight:

- 2 m<sup>1</sup> of 3 m<sup>1</sup>
- Height: 14 of 19 cm
- Thickness: 1 cm

### Ecolat on a roll:

- 10 m<sup>1</sup> of 25 m<sup>1</sup>
- Height 14 or 19 cm (grey) 10 / 25 m<sup>1</sup>
- Height: 14 (brown) 25 m<sup>1</sup>
- Thickness: 0.7 cm

### Optional:

- ECO picket posts

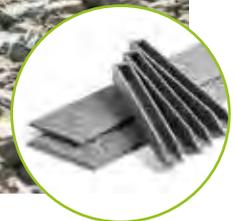
## Grass Edges

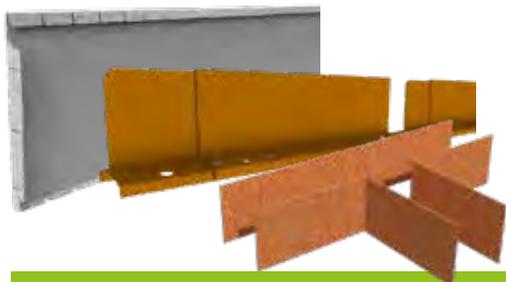


## Easy Line



## ECO





# Edge Retaining

Corten Steel & Galvanized Steel

## Material

### Edge Liner:

- Height: 10, 15, 20, 29 or 39 cm
- Available in a pack of 10 or 25 strips
- Package of 10 strips working length: 23.0 m<sup>1</sup>
- Package 25 strips working length: 57.5 m<sup>1</sup>
- Available: straight, set or crushed
- Available in Corten steel or galvanized steel with optional corners and / or picket posts

### Straightcurve:

- Height: 7.5, 10, 15, 24, 40 or 56 cm
- Length: 2.20 meter (flexline: 7.5, 10 and 15 cm high)
- Length: 2.16 meter (flexline: 24, 40 and 56 cm high)
- Can be ordered per strip
- Available: flexline & hardline

## Edge Liner



## Straightcurve



## Straightcurve





# Fauna Safe Panel

## Application:

- To protect amphibians and smaller wild game along roads

All sizes and shapes can be found on our website



## Fauna Safe panel

### Additional products

#### Material

- Produced from recycled material
- LDPE, green, 100% recyclable, 3 mm
- HDPE, black, 100% recyclable, 2 mm
- UV-stable
- Long lifespan
- Breakage and tear resistant
- Waterproof
- Available on rolls and panels



Because of the increasing traffic flow close to natural areas, animals are knocked over frequently. The installment of Fauna Safe Panels helps protecting these animals.

GreenMax offers you Fauna Safe Panels of the highest quality. The screens are cheap, UV-resistant and have a long lifespan and are easy to install.

Fauna Safe Panels are often installed in combination with mesh to protect small game.

The green rolls of 25 m<sup>1</sup> have a light grain structure. This has the great advantage that the light does not reflect and therefore the screens fit aesthetically much better in the landscape. In addition, the amphibian screens are also available on smooth panels of 3 m<sup>1</sup> wide in various thicknesses.



# GREENMAX

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2021-01



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