

Arboricultural Method Statement

Site Address:	103 High Street, Penistone, S36 6BR	Client:	John Mahoney
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		Version	I
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Terms of Reference

Key Tree Solutions has been commissioned by Mr John Mahoney, to produce an arboricultural method statement in accordance with the recommendations within the British Standards document BS 5837:2012 'Trees in Relation to Design, Demolition and Construction – Recommendations' (BS5837). This has been conducted to support the planning application by demonstrating safe working methods in relation to trees associated with the property.

This report has been written and compiled by Laurence Smith, BSc (Hons) Arb, M Arbor A, an Arboricultural Consultant. Laurence has a degree in Arboriculture and a BTEC National Diploma in Forestry and Arboriculture. He is a professional member of the Arboricultural Association with over a decade of experience within the arboricultural industry, initially as an arborist and for the last seven years as a consultant.

Arboricultural site data used within this report is based on information located within the report HSP01-24 and replicated under Appendix A.

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1 Introduction

1.1 Method Statement Status

This report has been prepared as part of the planning condition to guide the development contractor(s) for a safe working methodology concerning trees located both on and directly adjacent to the site. While this document sets out the agreed methodology it is vital to understand that the implementation of the document must be the responsibility of the contractor and applicable to all on-site persons. Any deviation from standards set out in the report must be approved by the retained arborist and in some cases the appointed tree officer.

The approach towards tree protection throughout the development is described within this report, however, these approaches must be confirmed by Barnsley Council before work commencement.

This document should be included as part of the specification and schedule of works issued to the building contractor and can form part of the contract.

1.2 Report Limitations

This report was written using arboricultural data collected on the 7th of March 2024 the methodology of which is described in the Arboricultural Survey & Impact Assessment (report reference: HSP01-24). Locations of arboricultural elements have been plotted using topographical data supplied by a 3rd party which appeared accurate at the time of surveying.

Should changes have occurred on site which may have impacted the trees or arboricultural locations are different from the plans the retained arboriculturalists must be immediately informed.

Tree data was collected from ground level only with the report not intended to be utilised as a risk management survey, however, should significant defects be observed during tree works operations or from the scaffolding which may affect the value or viability of the asset the retained arboriculturalists should be consulted to evaluate the significance of the observation.

Local planning authorities have the power to preserve selected trees and woodlands by making tree preservation orders (TPOs). The local authorities can serve these orders at any point. Any tree work should not be undertaken without confirmation that the trees do not have protective status or that the correct permissions are in place.

1.3 Proposed Works

The works proposal is to modify the existing two-story sunroom by extending it to the east and developing a new raised terrace to the north. This terrace then connects to the garden via steps and an encircling patio around the proposal. The space under the sunroom and terrace will be converted into a garage.

2. Arboricultural Method Statement

2.1 Introduction

Throughout the proposed development, several tasks need to be undertaken at specific intervals so that work can be undertaken in a logical order. These approaches for tree protection must be confirmed in writing by the local planning authority before the commencement of works.

2.2 Relevant Contact Details

To ensure the efficiency of this process it is necessary to retain several professional persons who can carry out the work to the standards described within the methodology and liaise with the tree officer if necessary. The details of the appointed parties to date are listed in the table below.

Organisation/ Detail	Contact Name	Contact
Appointed Consultant	TBC	TBC
Tree Officer	TBC	TBC
Site Manager	TBC	TBC

2.3 Arboricultural sequence of events

The following table outlines the sequence of arboricultural events regarding tree protection and how the retained arboriculturalist will be utilised. The table also suggests stages at which the tree officer should be invited to the site should they wish to attend.

Stage	Action	Relevant parties
1	<p>Pre-commencement site meeting.</p> <ul style="list-style-type: none">Confirm the location and specification of the protective barriers.Confirm the requirement for reporting tree-related incidentsConfirm ongoing contact details.	<p>Site Manager</p> <p>Arboricultural Consultant</p> <p>Tree Officer (optional)</p>
2	<p>Setting out of protective barriers.</p> <ul style="list-style-type: none">Set out tree protection measures.Review location and specification of tree protection fencing/temporary ground protection.Confirm any additional tree protection requirements.	<p>Site Manager/Contractor</p> <p>Arboricultural Consultant</p>

3	<p style="text-align: center;">During operation.</p> <ul style="list-style-type: none"> · Review location and specification of tree protection. · Assess condition of retained trees. · Confirm any additional tree protection measures. · Produce progress sheet 	<p>Arboricultural Consultant</p> <p>Tree Officer (optional)</p>
4	<p style="text-align: center;">Post construction.</p> <ul style="list-style-type: none"> · Inspect all retained trees for damages. · Instruct any remedial works if necessary. 	<p>Arboricultural Consultant</p>

3. Methodology

3.1 Pre Development

3.1.1 Appointment of an Arboricultural Consultant

The site manager will appoint an arboricultural consultant. The role of the consultant will be to monitor and oversee the implementation of the works required within this document.

The arboricultural consultant will be the first point of contact for arboricultural advice relating to any issues which may arise and are not detailed within this report. Examples of this may include additional trees work or unforeseen work within the root protection area. Any tree-related damage should immediately be reported to the consultant who can document the incident, and recommend any remedial works alongside any modifications to the tree protection methodology.

The appointed arboricultural consultant should produce a record of site visits recording any new tree-related findings or deviations from this document. Any damage to trees during development should also be recorded. A record of site visits and findings should be retained by the site manager for inspection by the tree officer if they see fit.

3.1.2 Pre-Commencement Site Meeting

A pre-commencement site meeting should take place between the arboricultural consultant, site manager, appointed arborist and potentially the tree officer. This meeting will ensure clarity of the tree works and tree protection methodology along with the limitations of the protection. This meeting will also allow discussion of any unforeseen issues, reporting procedure and confirmation of contact details.

3.1.3 Tree Works

Tree works should be carried out as discussed in the pre-commencement site meeting with the arborist ensuring that the correct permissions to fell/carry out tree works have been obtained from the local authority.

No tree works are foreseeable within the development proposal.

3.1.4 Tree Protection

Before any development works occur on-site, tree protection must be set out as detailed within the Tree Protection Plan (TPP) and discussed within the pre-development site meeting. This protection method comprises fencing and temporary ground protection. After installation, the barriers should be inspected by the arboricultural consultant and potentially the local tree officer, should they wish to attend the site.

Once installed and inspected, barriers should not be moved or tampered with as they form a Construction Exclusion Zone (CEZ). Should adjustments need to be made they should only be undertaken with approval from both the arboricultural consultant and the tree officer.

The default specification for protective barriers will consist of a vertical and horizontal scaffold framework, well-braced to resist impacts, as illustrated in **Figure 1**. The vertical tubes should be spaced at a maximum interval of 3 m and driven securely into the ground. Onto this framework, welded mesh panels should be securely fixed. Care should be exercised when locating the vertical poles to avoid underground services and, in the case of the bracing poles, also to avoid contact with structural roots.

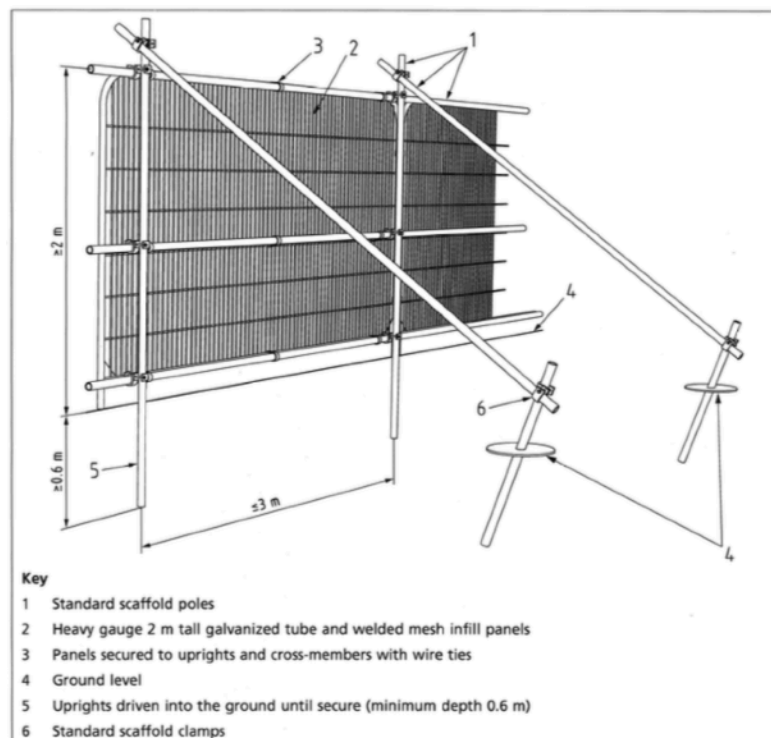


Figure 1. An example of the default fencing used for the protection of retained trees.

Where tree protection fencing cannot be satisfactorily braced, such as over hard-standing or utility runs, an alternative fencing specification has been given. This will consist of 2m tall welded mesh panels supported on concrete feet. Each panel will be secured to its neighbour with a minimum of 2 anti-tamper couplers secured so that they can only be undone from inside the CEZ. The panels will be further supported by stabiliser struts, which will be pinned to the ground. Where the fencing is to be erected on retained hard surfacing, or it is otherwise unfeasible to use ground pins, the stabiliser struts should be mounted on a block tray. An example of this type of barrier is given in **Figure 2**. The use of this alternative fencing can only be used with prior permission from the LPA.

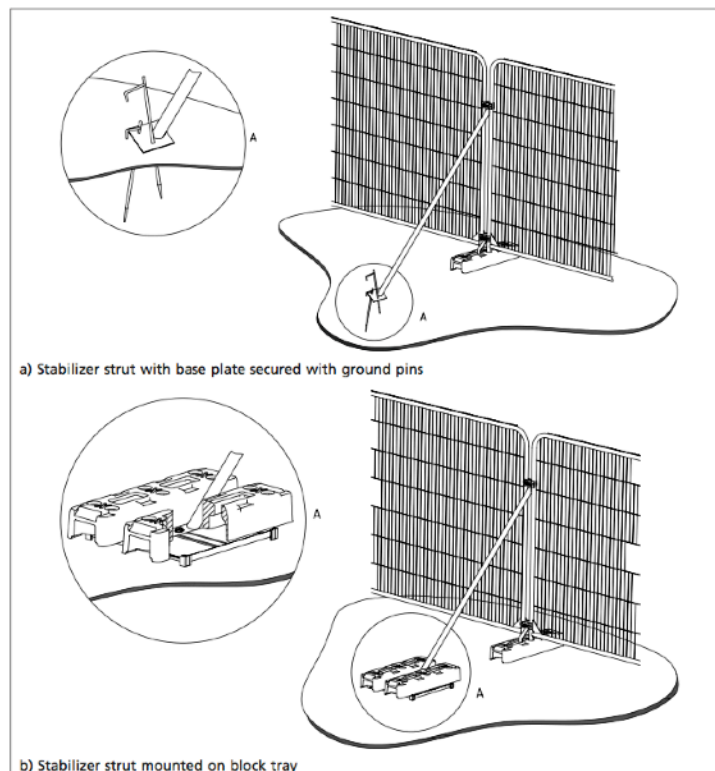


Figure 2. An example of the alternative fencing for use in regions where the default specification can not be utilised.

Within the CEZ, the following prohibitions will be complied with:

- No excavations, including by hand, unless agreed with the retained arboricultural consultant;
- No storage of machinery;
- No storage or handling of building materials, fuel, chemicals or spoil;
- No fires;
- No vehicular access;
- No pedestrian access, unless agreed with the retained arboricultural consultant;
- No alteration, increase or decrease, to existing ground levels;
- No excavation or installation of services.

To ensure all site personnel and visitors are aware of the purpose of the fencing all weather notices will be attached to the fencing to highlight the CEZ. An example of a suitable notice is given in Appendix E.

3.1.5 Temporary Ground Protection

In regions where unmade ground within the RPA of retained trees exists but is outside of the protective barrier and is exposed to construction damage and or soil compaction. Temporary ground protection should be installed immediately following the erection of the tree protection fencing and before starting work on site.

Ground protection will be constructed using no-dig construction principles. This will involve cutting back any understory vegetation and installing interlinked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of wood chip), laid onto a geotextile membrane with 300mm overlaps. An image of suitable group protection is given in **Figure 3**.



Figure 3. An example of suitable temporary ground protection spanning over a root protection area.

3.2 During Development

3.1.2 Demolition

Regions of the building that need to be demolished can be achieved in any way, providing it is ensured that the machinery is working from outside the RPA. In regions where demolition must be conducted in close proximity to RPAs, a 'top-down, pull back' procedure in small controlled sections must be undertaken using a small arm demolition vehicle, removing all demolition debris in small amounts as soon as it has fallen to the ground. This is to ensure that any overhead canopies, as much as is reasonably practical, are not damaged by machinery. If it is not possible to operate the machinery within the given confines without damaging tree canopies or accessing the CEZ, the arboricultural consultant must be the first point of contact for advice.

3.1.3 Permanent Surfacing (No-dig constructions) within an RPA

The principle of 'no-dig construction' is that there is no excavation required. All construction is built upon the existing ground level but is designed to be load-bearing so that the additional structure does not cause compaction to the soil within the RPA.

Where no-dig construction is to be developed, surface vegetation will be removed. It may be possible to achieve minor levelling, however, this must be undertaken using hand tools only and under arboricultural supervision. Should such works be necessary this must be indicated to the arboriculturalist during the pre-commencement site meeting who will advise on what can be reasonably achieved.

Hard surfacing design will consist of a geotextile membrane laid out on top of the existing ground before a three-dimensional Cellular Confinement System (CCS) is installed. This will act as the sub-base. Infill materials should include a no-fines aggregate (granular) sub-base layer which, when compacted, is free draining and allows gaseous exchange. Clean angular stones 4-20mm or 20-40mm in diameter, or angular gravel over 4mm can create a positive interlock with the CCS. Further information on the CCS product is given in Appendix F. In regions where no-dig construction and normal construction need to marry up in height, it may be necessary to expand the no-dig construction method to incorporate a larger area.

The wearing course should be a permeable surface allowing gaseous exchange and the infiltration of water into the root zone. New hard surfacing should only be installed on completion of surrounding construction work. A cross-section of acceptable no-dig construction has been given in Figure 4.

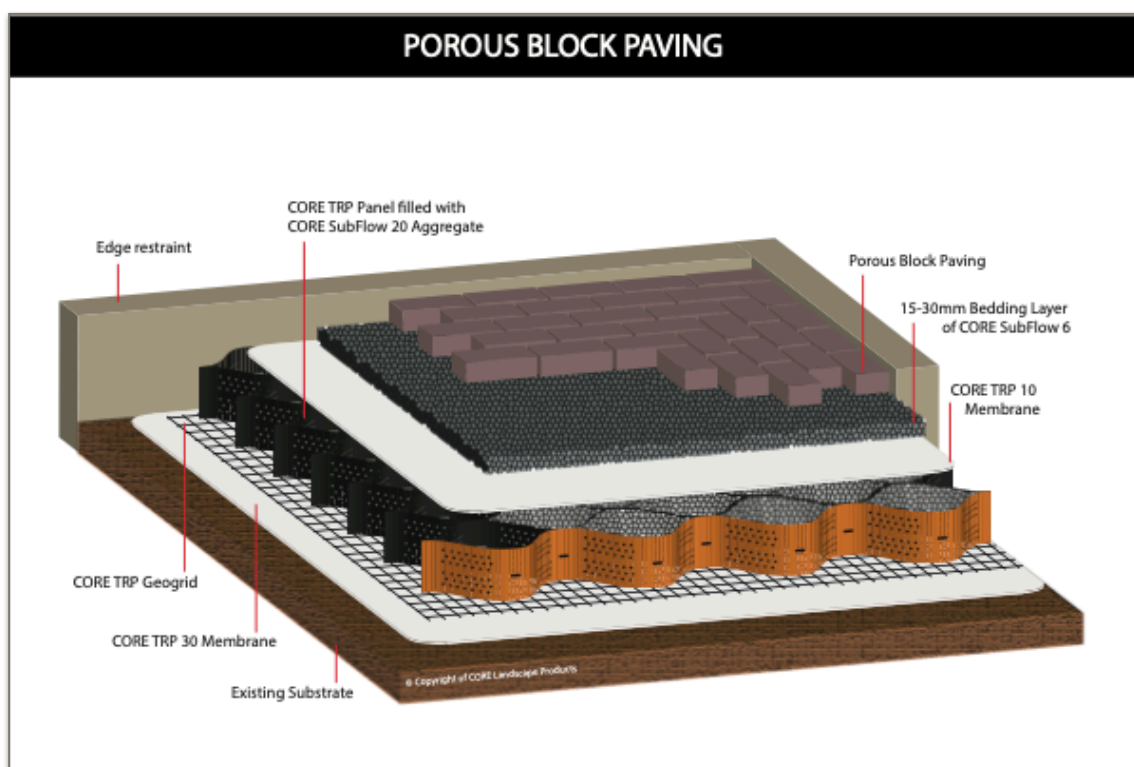


Figure 4. A cross section of acceptable no-dig development.

Kerbs and edgings that require excavations should not be used. Where kerbing is required for light structures, above-ground peg and board edging might be acceptable. Where the use of standard kerbs is unavoidable in areas used by vehicular traffic, foundations should not be continuous where this would require cutting or severing of roots larger than 25mm in diameter. Instead, the kerbs should be “bridged” over the roots, leaving space that allows for a future increase in the root diameter.

3.1.3 Location of the Site Compound

The site compound, typically including the site office, mess facilities, toilets, storage of materials and parking, must be located away from and outside the RPA of retained trees. Areas designated for the storage and/or mixing of chemicals, including petrol, diesel and oils must also be located away from and outside the RPA of retained trees. Such areas should be constructed with consideration to, and contingencies for, the occurrence of spillages, preventing the leaching of chemicals into unprotected, open ground.

3.3 Post Development

3.3.1 Removal of the Protective Fencing

Post construction and after all development traffic has left the site, the protective fence can be removed and the landscaping plan undertaken, provided the season is suitable.

3.3.2 Annual Inspection

An annual inspection of trees will be undertaken post-construction for two years following completion. It is not anticipated that the condition of trees will significantly change following the development's completion, but continued monitoring of the trees' condition will be made by the arboriculturalist. Where appropriate remedial works will be undertaken to improve the environment for trees or to make the trees safe. This inspection should also include any new trees planted within the landscaping plan.

Appendix A: Key & British Standard BS5837:2012 Survey Table

A1. Survey Key

Column Heading	Description
ID	Each surveyed element has been given a unique reference number as shown on the survey drawings. Each number is prefixed with a letter to represent the element type. (T) Tree, (G) Group, (H) Hedge, (W) Woodland.
Age Class	The tree is described as Young, Semi Mature, Early Mature, Mature, Over Mature, Veteran or Dead.
Species	The English common name has been used. In some instances the botanical name is also given in <i>italics</i> .
Height (m)	An indication of the tree's height measured in metres.
Stem Diameter (mm)	The diameter of the tree stem when measured at 1.5 metres from ground level.
Branch Spread (m) N E S W	The distance the live crown extends in each fo the four cardinal directions.
First Main Branch Height (m) / Direction	Height given in meters that the first significant branch extends from the stem and the direction of which it points towards.
Canopy Height (m)	Height given in metres of the lowest part of the canopy.
Vitality	<p>A quick reference guide to the trees overall health and condition. Given as Good, Fair, Poor or Dead</p> <p>Good – a tree with little or no obvious physiological defects; leaf density and colour are typical for the species, bud, flower and fruit production are good and there are no signs of dieback at any point throughout the crown.</p> <p>Fair – a tree with moderate physiological defects may have some or all of the following factors; leaf density is less than typical for the species, leaf cover is chlorotic, bud, flower or fruit production are deficient, there are signs of minor dieback within the crown, there is a moderate degree of deadwood within the crown.</p> <p>Poor – a tree with major or multiple physiological defects; evidence of extensive crown thinning, bud, flower or fruit production is poor or missing, there are signs of advanced dieback throughout the crown, there is extensive or major deadwood throughout the crown.</p> <p>Dead – a tree that has died due to either old age, drought, disease, pest infestation, physical damage to the main stem or rooting system, or a combination of these factors.</p>
General Observations	Narrative comment on the general condition including significant defects and overall appearance.
Preliminary Management Recommendations	Any works recommended in order to minimise risk, improve form or maintain a high value.
Estimated Remaining Contribution	An estimation of how long the feature will contribute to its surroundings in the current landscape context. Recorded in bands of either 10< years, 10> years, 20> years and 40> years.
Category Grading	The trees are graded to the categories prescribed within BS5837:2012 (U, A, B & C). These letters are suffixed with a number which gives an indication of how the tree sits within the landscape. More information on these values is given in the cascade chart in A2.
Root Protection Area Radius (m)	The minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability.

A2. BS5837: 2012 Cascade Chart

Trees to be considered for retention	(1) Mainly arboricultural qualities	(2) Mainly landscape qualities	(3) Mainly cultural values, including conservation.	Identification on plan
<p>Category A</p> <p>Trees of high quality with an estimated remaining life expectancy of at least 40 years</p>	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	Light Green
<p>Category B</p> <p>Trees of moderate quality with an estimated remaining life expectancy of at least 20 years</p>	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	Mid Blue
<p>Category C</p> <p>Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm</p>	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	Grey
Trees unsuitable for retention				
<p>Category U</p> <p>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.</p>	<ul style="list-style-type: none"> Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning). Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline. Tree infected with pathogens of significant to health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <p>NOTE: Category U trees can have existing or potential conservation value which it might be desirable to preserve.</p>			Red

Appendix B: Arboricultural Survey Data

ID	Age Class	Species	Height (m)	Stem Diameter (mm)	Branch Spread (m) N E S W	First Main Branch Height (m) / Direction	Canopy Height (m)	Vitality	General Observations	Preliminary Management Recommendations	Estimated Remaining Contribution	Category Grading	Root Protection Area Radius (m)	Fig ref:
T1	Mature	Ash <i>Fraxinus excelsior</i>	20	720	5, 10, 4.5, 9.5	6 W	5.5	Fair	Occluded pruning wounds to 6m where the canopy develops two long lateral limbs growing east and west. Minor reduction in vigour although not considered significant to health at this point.	None	20>	B2	8.6	Fig 1.
T2	Over Mature	Ash <i>Fraxinus excelsior</i>	22	1210	8.5, 11, 11.5, 13	6.5 S	5	Normal	Large surface roots visible under the grass. Swelling around the base on the southern aspect assumed to be as a result of ongoing epicormic development. Moderate occluded pruning wounds to around 6m before the canopy expands out laterally. Branches have sporadic epicormic along the length of the limbs. Minor deadwood but generally good condition for its age.	None	40>	A2	14.5	Fig 1.
T3	Early Mature	Elder <i>Sambucus nigra</i>	6	140, 130, 130	3.5, 2.5, 3, 3	N/A	1.5	Normal	Woody shrub species with typical multi stem form located against the boundary wall.	None	10>	C1	2.3	Fig 2.
T4	Semi Mature	Laburnum <i>Laburnum anagyroides</i>	5	140, 130	1.5, 2.5, 2, 3	N/A	2	Poor	Die back and cambial death on the two main limbs. Heavily suppressed. Limited long-term retention value due to ongoing decline.	None	10<	U	1.9	Fig 3.
H5	Early Mature	Mixed	3.5	150 ave	N/A	N/A	Ground level	Normal	Mixed species hedgerow, with Cypress in the north and Beech along the east. Several woody shrubs are located against this boundary feature, including Holly, Hazel and laurel.	None	20>	B2	1.8	Fig 2, 3, 4 & 5.
T6	Over Mature	Sycamore <i>Acer pseudoplatanus</i>	3.5	670*	2, 3, 2, 1.5	N/A	1	Poor	Retained stem and heavily pruned scaffold limbs of a once much larger tree. Stem and branches are heavily decayed with the only viable foliage being young epicormic growth pruned as part of the hedge. The tree is considered to be part of the boundary feature.	None	10<	U	8	Fig 4.

ID	Age Class	Species	Height (m)	Stem Diameter (mm)	Branch Spread (m) N E S W	First Main Branch Height (m) / Direction	Canopy Height (m)	Vitality	General Observations	Preliminary Management Recommendations	Estimated Remaining Contribution	Category Grading	Root Protection Area Radius (m)	Fig ref:
T7	Semi Mature	Willow Sp. <i>Salix</i>	6	200*	2, 2.5, 2, 2	N/A	2	Normal	No access to the base of the tree with vision obscured. The diameter is estimated based on canopy visible. The tree makes up part of the boundary feature although it is not clear if the stem is located within the site boundary.	None	10>	C2	2.4	Fig 5.

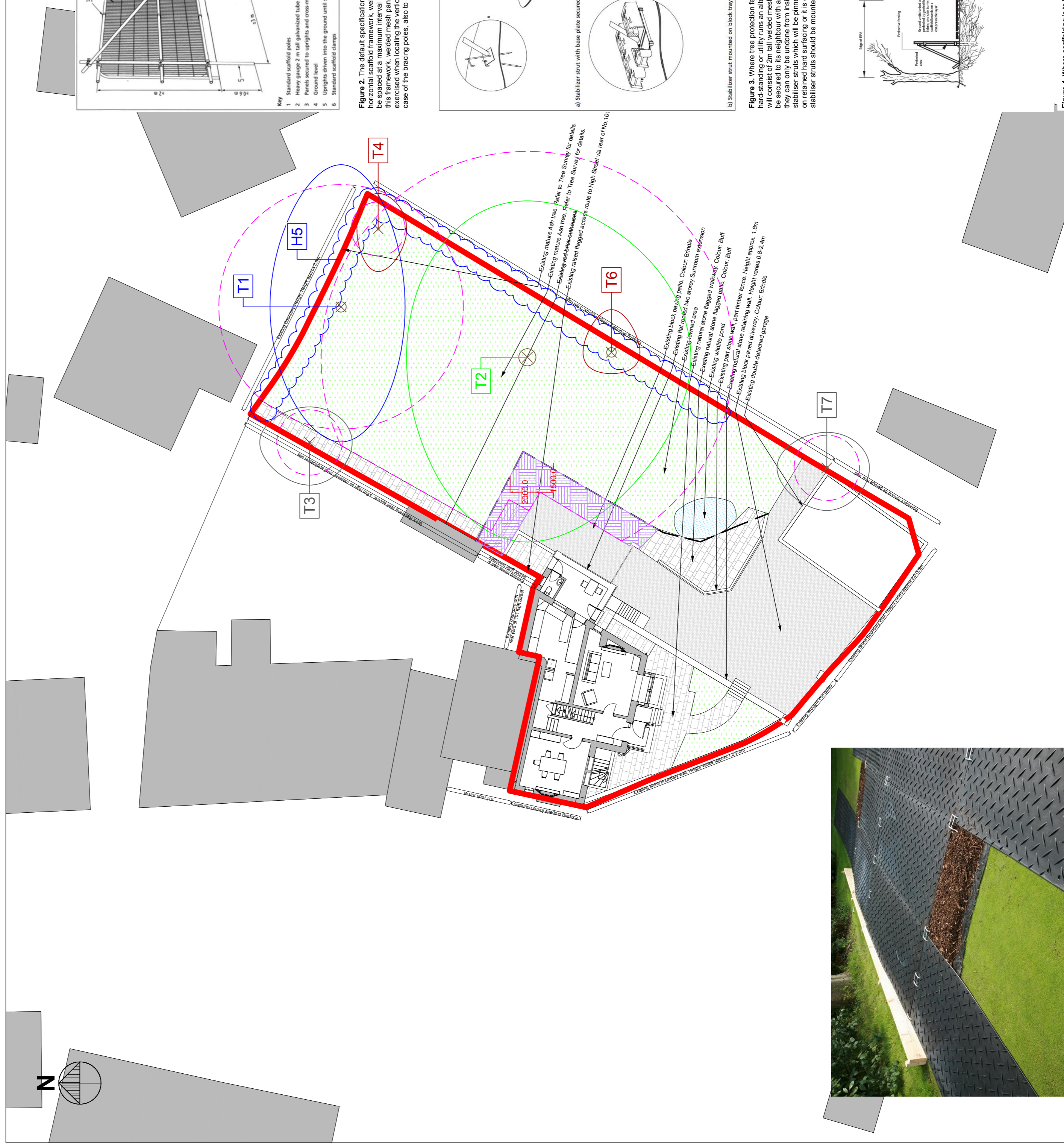


Figure 2. The default specification for horizontal scaffold framework, which will be spaced at a maximum interval of 1.5m. The framework, wedged in between parallel uprights, will be secured to the ground in the case of the bracing poles, also to

Figure 3. Where tree protection for hard-standing or utility runs an alternative method of protection will be used. This will consist of a 1.5m high protection which they can only be undone from the inside. Stabiliser struts will be pinned to retained hard surfacing or fluted on stabiliser struts should be mounted

Figure 4. Where scaffolding is to be used for temporary ground protection.



Figure 1. Ground protection will be constructed using no-dig construction principles. This will involve cutting back any understorey vegetation and installing interlinked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of wood chip), laid onto a geotextile membrane with 300mm overlaps.

Tree Protection Zone

KEEP OUT

**TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
STRICT PLANNING CONDITIONS**

**ANY DAMAGES CAUSED TO THESE TREES MAY RESULT IN
CRIMINAL PROSECUTION**

RESTRICTED AREA

THE PROTECTIVE FENCE MUST NOT BE MOVED OR BREACHED

NO PERSON, MACHINERY, VEHICLE OR PLANT IS PERMITTED
WITHIN THE TREE PROTECTION ZONE

NO MATERIALS SHALL BE STORED WITHIN THE TREE
PROTECTION ZONE

NO EXCAVATIONS ARE PERMITTED WITHIN THE TREE
PROTECTION ZONE

NO SPOIL IS TO BE DEPOSITED WITHIN THE TREE PROTECTION
ZONE

NO FIRES ARE TO BE LIT WITHIN THE TREE PROTECTION ZONE

ANY DAMAGES MUST BE REPORTED TO THE SITE MANAGER

Appendix F: Core TRP - Tree Root Protection System

CORE TRP®

TREE ROOT PROTECTION SYSTEM



CORELandscap
Products

www.corelp.co.uk

WHY CHOOSE THE **CORE TRP**® SYSTEM?

We are one of the UK's leading suppliers of tree root protection systems and have specifically designed and manufactured a range of protection panels and accessories to provide a fully APN12 compliant system that can be used in both domestic and commercial applications.



0800 118 2278



We have an experienced technical team on hand to deal with any site specific queries and an online library of product specification sheets, install guides and case studies available to download.

The CORE TRP product specification sheets can also be found on the RIBA Product Selector and have been included on the NBS Plus database for architects & specifiers.



FULLY COMPLIANT SYSTEM

Our system has been tried and tested on a range of projects from small residential driveways to large commercial car parks. As a contractor or specifier you can set your mind at ease. Our TRP system is CE certified and complies with BS 5837:2012 and APN12.



WARRANTY

CORE LP provide the option of obtaining a comprehensive written guarantee for an additional fee. Our system is one of the few systems available in today's market with this option. (See page 29)



TECHNICAL SUPPORT

We have a team of technical experts on hand who will be happy to give advice and guidance on specification and installation as well as answer any site specific questions.



PRICE PROMISE

You will not buy an equivalent system cheaper anywhere else on the market. We strive to give our customers our lowest possible price at all times but on the rare occasion you receive a cheaper price, just send us the competitors itemised quotation and we promise to beat it by at least 5%.



FAST DELIVERY

We have a huge UK stock holding which enables us to dispatch same day and offer a next day delivery service to most locations in the UK.



A COMPLETE SYSTEM

We not only manufacture and supply a complete tree root protection system but also offer specialist infill aggregates; wearing course materials; on site training; or a complete 'turn key' installation service.

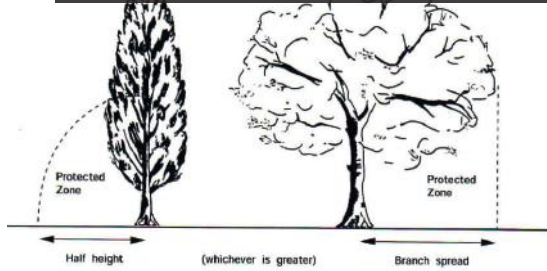




Waterlogged and over compacted soil



Root Protection Area (RPA) According to BS 5837



THE PROBLEM...

Due to the rate of urbanisation within the UK it is becoming ever more popular to find trees located in both rural and urban areas with Tree Preservation Orders (TPOs). This is an attempt to ensure the protection and welfare of mature trees, especially where construction or groundworks are being carried out nearby.

Damage to trees can be caused by a number of factors including:

- Contamination of surrounding soils due to oil, diesel or chemical spills.
- Root damage due to excavations.

- Waterlogging of surrounding soil.
- Storage of heavy building materials within the root protection area (RPA).
- Over compaction of surrounding soils due to construction & vehicular traffic.

The BSI group published a document (BS 5837:2012) that contains explanatory guidance on tree care, carefully outlining best practice for every aspect of dealing with trees throughout the development. It explains the importance of the RPA and how it should be dealt with.

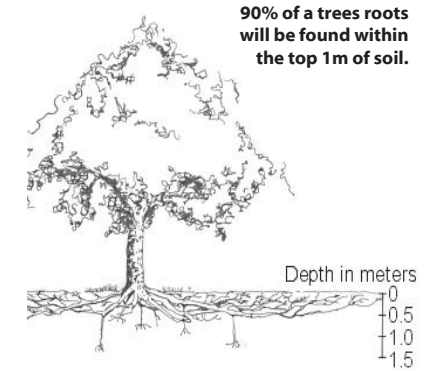
Failure to provide adequate protection within the RPA could result in the surface becoming over compacted and rutted; reducing oxygen and nutrient exchange to the roots, ultimately causing damage or destroying the tree.

Local authorities have the right to prohibit construction work within the RPA of any mature tree and can issue a TPO. Failing to protect the tree means you have failed to comply with the TPO. This is treated as a serious offence towards the environment and can result in a fine of up to £20,000 per tree.

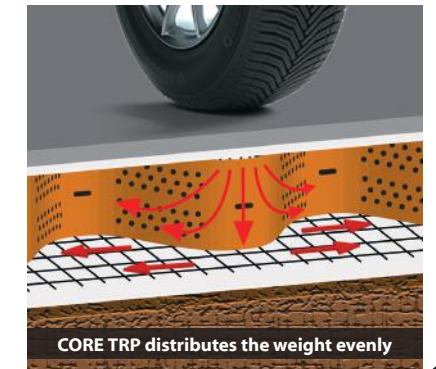
The majority of roots are found within 1m of the surface and can extend to a distance equal to the tree's overall height. This makes it an impossible task to build a sustainable track or driveway, near to a mature tree, using traditional excavation methods without disturbing the feeder roots.

Arboricultural Practice Note 12 (APN12) explains how the installation of 2-dimensional and 3-dimensional load spreading products can be used to achieve a 'No Dig' construction for trafficked areas such as roads, car parks, driveways and pathways.

With this in mind, many local authorities across the UK are recognising tree root protection systems, such as the CORE TRP system, as a practical solution to reduce the impact of construction on the environment.



Downward pressure causes over compacted soil



CORE TRP distributes the weight evenly





CORE TRP® SYSTEM

...THE SOLUTION

CORE TRP is a 3-dimensional cellular web system that provides protection to the roots of mature trees from pedestrian and vehicular traffic.

It comprises of a geocellular confinement panel that provides 3-dimensional load distribution; porous and highly puncture resistant TRP membranes; and a TRP geogrid that provides additional 2-dimensional support.

The CORE TRP system is fully compliant with BS 5837:2012 section 7.4.2 Note 1 and has been specifically designed to achieve the 'No

Dig' construction method set out in APN12.

The system is installed within the RPA on top of the existing soil to create a shallow high load-bearing 'above ground' subbase.

It helps distribute the weight of traffic evenly across the surface delivering a significant reduction in the loads transferred from above. This prevents harmful subsoil compaction around the roots.

It is a completely porous system allowing continued water permeation which helps to maintain a healthy tree.

The CORE TRP panels should be filled with a clean angular cohesive material with 'reduced fines' as highlighted in APN12, such as our CORE SubFlow20 aggregate. This will allow oxygen to diffuse into the soil and damaging gases such as carbon dioxide and methane to escape out of the soil.

The correct fill material is a key requirement for the success of the system as it needs to remain porous yet have sufficient surface friction to enable adequate compaction.

The system can be used as a temporary track for construction traffic, or as a permanent subbase for all types of traffic.

If it is intended for permanent use the system will require a porous wearing course.

The most popular options of porous wearing course are:

- **Porous Pavers / Gravel Grids** such as the CORE TRP gravel grid.
- **Porous Grass Pavers** such as the CORE Grass HD reinforcement grid.
- **Porous Asphalt.**
- **Porous Resin Bound Surfaces** such as CORE Bound.
- **Permeable Paving Systems.**



To comply with BS 5837:2012, s7.4.2.3

Any new hard surface should not exceed 20% of any existing unsurfaced ground within the Root Protection Area (RPA).



CORE TRP® SYSTEM

Is a CE Certificated Product

THE SOLUTION



WATER INFILTRATION & GASEOUS EXCHANGE

It is no secret that without sufficient access to water and oxygen our trees would ultimately perish.

Therefore, it is paramount to consider the impact that architecture & construction has on the landscape when designing structures that are within, or that are close to, Root Protection Areas (RPAs).

It is important to incorporate design elements that allow the roots maximum accessibility to water and oxygen.

The main reason tree roots are starved of water and oxygen are:

- Over compaction of the soil surrounding the roots.
- Impermeable surface/wearing courses and ground coverings that prevent water infiltrating through to the roots.

These problems can be easily avoided by using the CORE TRP system with a porous or permeable wearing course. The two combined promote both water infiltration and gaseous exchange.

CORE TRP SYSTEM COMPONENTS & HOW THEY WORK...

1. CORE TRP 30 Membrane - 300g/m² non-woven geotextile membrane prevents the granular infill material from migrating into the subsoil due to its high puncture resistance. It also filters four times as many hydrocarbons than standard geotextiles and allows water infiltration at a significantly higher rate than standard membranes.

2. CORE TRP Geogrid - provides additional 2-dimensional support to the infill material within the cellular structure of the system as recommended by APN12. It also reinforces the TRP 30 membrane below, creating an even stronger separation barrier between the subsoil and the TRP infill material.

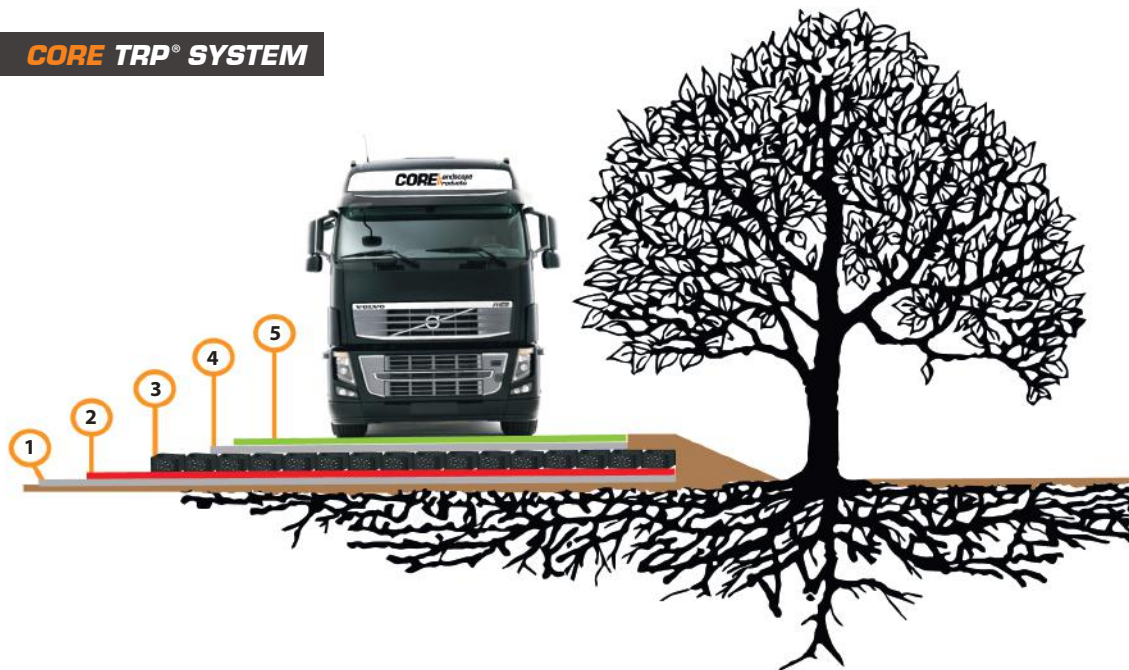
3. CORE TRP Panel - the geocellular confinement panel provides a 3-dimensional erosion barrier and structural bridge that ensures the loads placed upon it are laterally dissipated rather than transferred to the soil and roots below. The walls of the cells are perforated and, when combined with the clean infill material, enable free movement of water and oxygen, ensuring that nutrient supply to the tree roots are maintained.

The TRP panel should be filled with a SUDS compliant free draining subbase material such as CORE SubFlow20; a cohesive angular 4/20mm mix that has been screened and washed to create a 'reduced fines' infill that remains porous even after compaction within the cellular structure.

4. CORE TRP 10 Membrane - 100g/m² non-woven geotextile separation membrane that serves two purposes. Firstly, it prevents migration of the bedding/laying course into the fill material and secondly, it protects the system from contamination from silt and pollutants.

5. Permeable/Porous Wearing Course - There are several options of permeable/porous wearing courses (see construction diagrams starting on page 11).

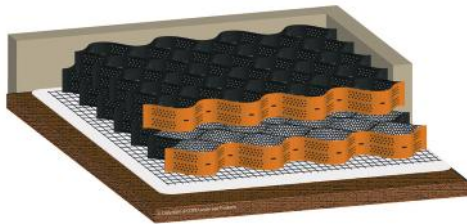
CORE TRP® SYSTEM



DESIGN FLEXIBILITY

As we all know, no two projects are identical... Conditions often vary and many site specific factors will need to be taken into consideration when designing a suitable tree root protection system.

One of the most common questions we are asked is; Can the CORE TRP panels be stacked if I need to raise ground levels? YES, they can! The CORE TRP panels come in 5 different depths and can be stacked and combined to tailor the depth and meet each site's individual requirements.



CORE TRP Panels can be staggered & stacked.

This provides maximum flexibility when designing both temporary and permanent access.

Panels can be layered to cope with initial construction loadings and can be removed, once construction has finished, to leave a single layer of TRP panel in preparation for the final wearing course.

Edge restraints can also be tailored to project requirements. The selection process will often depend on the project's budget; suitability for the intended traffic load; and application.

Tanalised wooden edging is commonly specified as it is the most cost effective option. Sometimes a more substantial kerb is required: concrete kerbs, granite setts or heavy duty flexible steel edging (CORE EDGE) can all be used with the CORE TRP system. Concrete haunching can be installed to the perimeter cells of the TRP panels should it be required. *(Please refer to Step 7 of our Installation guide on page 26).*

FULL SYSTEM GUARANTEE AVAILABLE



We can provide a full system guarantee that will cover the cost of up to £10,000 per tree. Please see page 29 for more information.

CPD SESSIONS & TRAINING

Here at CORE LP we are committed to providing industry leading training and sharing our extensive knowledge and experience of tree root protection systems.

We have a CPD session solely focused on tree root protection and have received fantastic feedback from the Landscape Architects/ Specifiers that we have shared it with.

If you would like to find out more about our CPD sessions please visit our website or call on 01753 652 555.



INSTALLATION & SUPERVISION

NATIONWIDE INSTALLATION SERVICE AVAILABLE



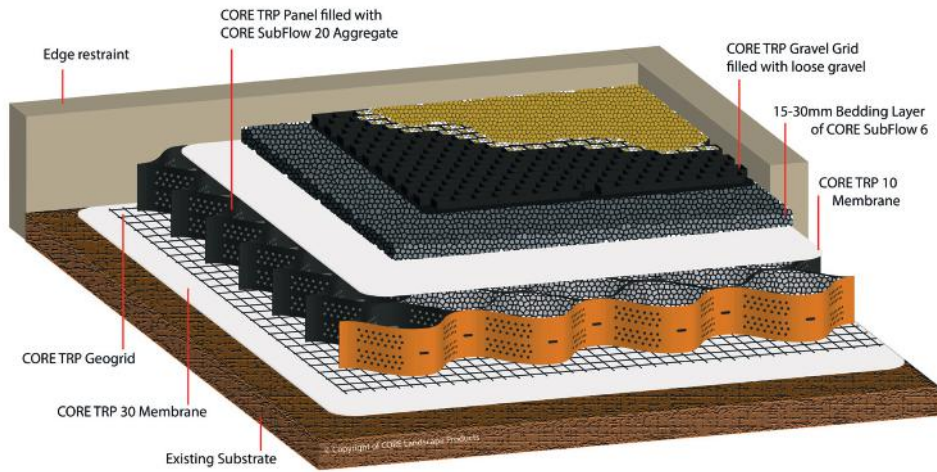
All operatives and supervisors are NRSWA qualified and have extensive experience of tree root protection systems and surfacing.

We also offer an unrivalled installation service across the UK. All of our contractors have a wealth of experience when it comes to tree root protection and surfacing.

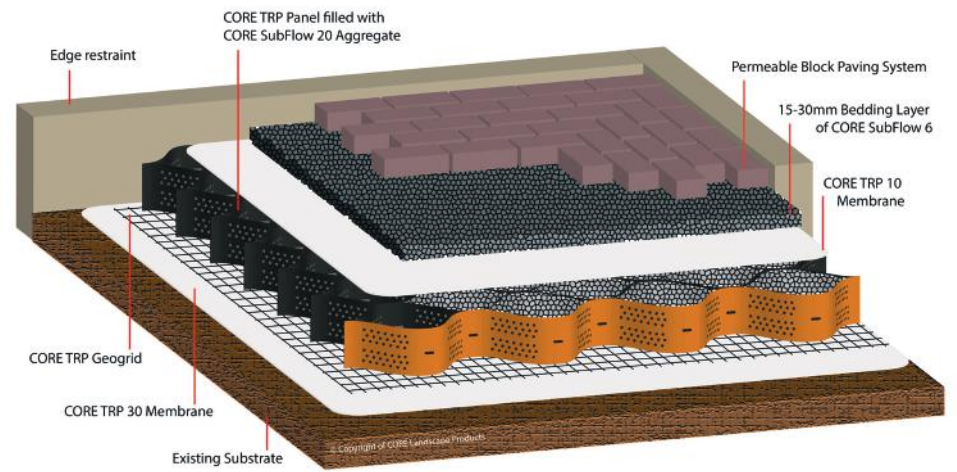
If you are installing the system yourself and are looking for some guidance, we have a technical support team just a phone call away. We can even send one of our supervisors to oversee your install to give you peace of mind that it is being carried out correctly.



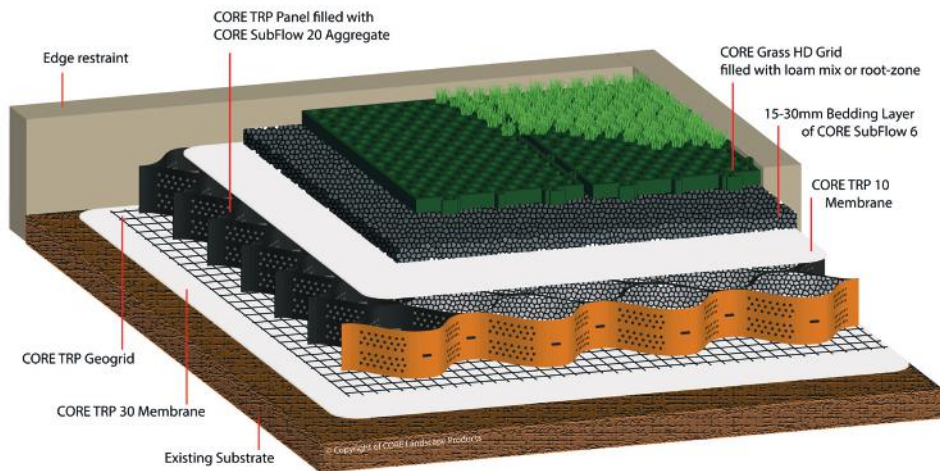
POROUS PAVER/ GRAVEL GRID WEARING COURSE



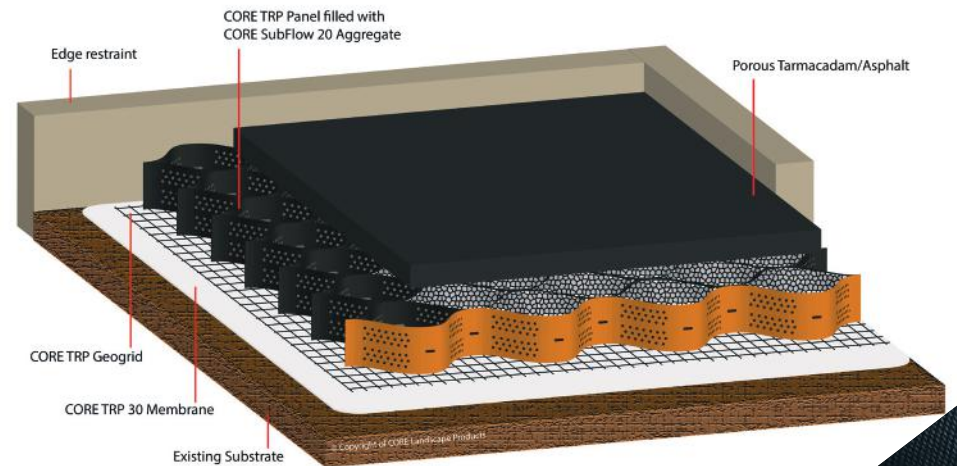
PERMEABLE BLOCK PAVING WEARING COURSE



GRASS REINFORCEMENT GRID WEARING COURSE



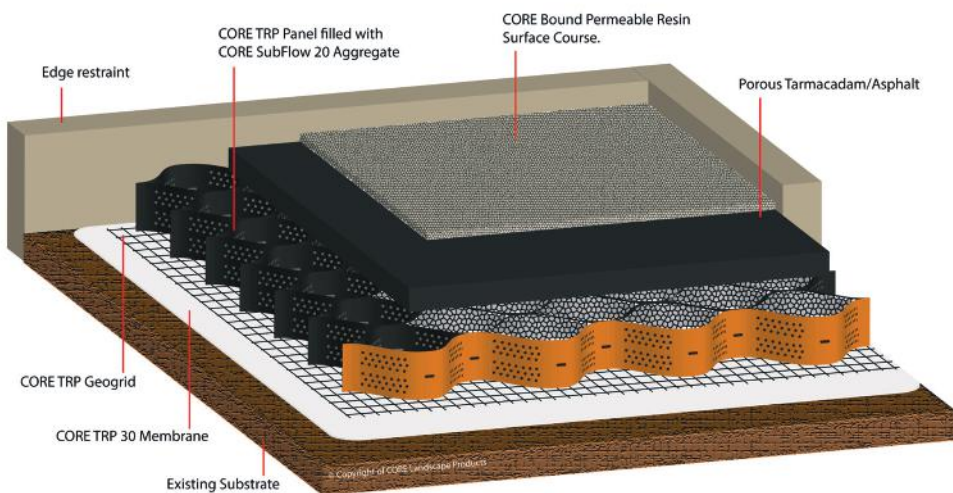
POROUS ASPHALT WEARING COURSE



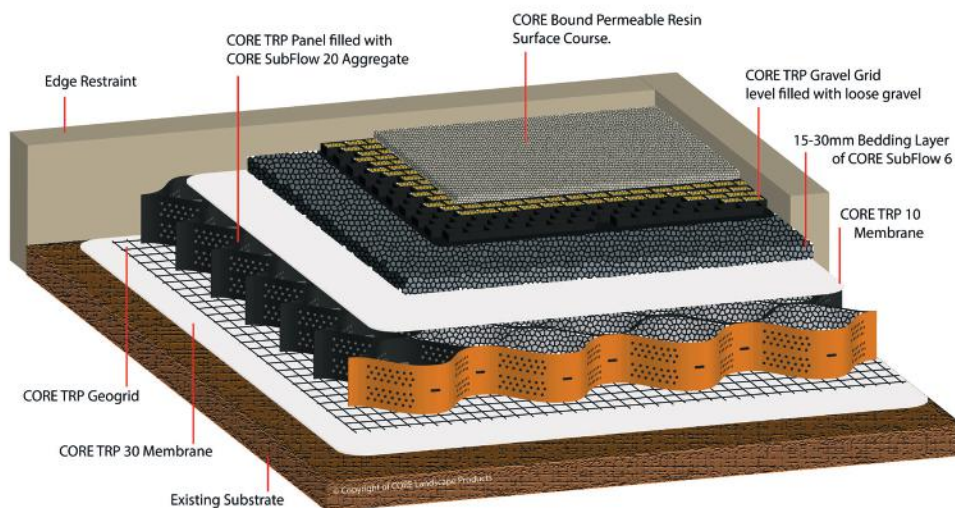
WEARING COURSE OPTIONS



RESIN BOUND SURFACE OVER POROUS ASPHALT WEARING COURSE



RESIN BOUND SURFACE OVER GRAVEL GRID WEARING COURSE



RESIN BOUND SURFACING

Resin bound paving is fast becoming the UK's first choice for permeable surfacing.

A porous resin bound layer can be installed over the porous asphalt wearing course to provide a unique and modern finish.

For pedestrian areas where access is restricted and asphalt is not a viable option, the CORE TRP gravel grid can be used as the base layer for a resin bound surface course.

Level fill the cells of the gravel grid with a standard angular gravel, then lay the resin bound surface course as you would over a traditional asphalt or concrete base.



CORE BOUND

If you are looking for resin bound surfacing options, give our sales team a call or head over to www.corelp.co.uk/core-bound to see our range of colour mixes.

CORE LP supply all the necessary tools and materials for resin bound surfacing.

Call for your free resin bound samples today!



TRP FOR TEMPORARY SITE ACCESS

It is often the case that the need for tree root protection is highlighted at the initial stages of project planning.

If the main access route to the site is hindered by the presence of mature trees the local authority will want to be satisfied that sufficient protection measures have been put in place to minimise the impact the construction traffic will have on the protected trees well before any works commence.

The CORE TRP system can be installed to provide safe access for all types of construction traffic.

By installing a temporary wearing course which can be removed at the end of the construction phase you have the option to utilise the TRP system as a permanent subbase for your final wearing course once the heavy construction is complete.

Panels can be layered to cope with heavy construction loadings and can be removed, once construction has finished, to leave a single layer of TRP panel suitable for lighter traffic.

The CORE TRP 10 membrane and temporary wearing course will prevent pollutants and silt from construction traffic contaminating the TRP system.

RE-USING THE ACCESS...

After removing the temporary wearing course and TRP 10 membrane, inspect the CORE SubFlow 20 infill material to ensure no contamination has taken place. If areas of contamination are found remove and replace with clean fill.

Next install a new layer of TRP 10 membrane followed by the specified build for your chosen wearing course.

(If laying porous asphalt, TRP 10 membrane is not required).

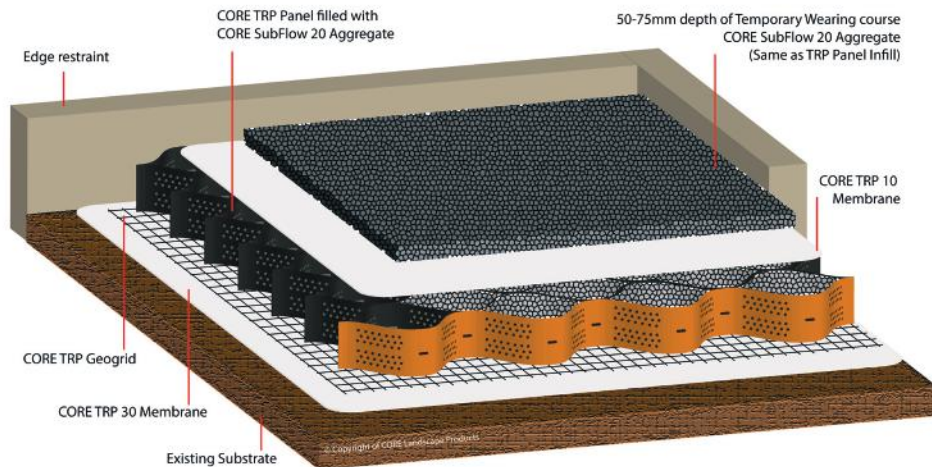
STILL UNSURE?



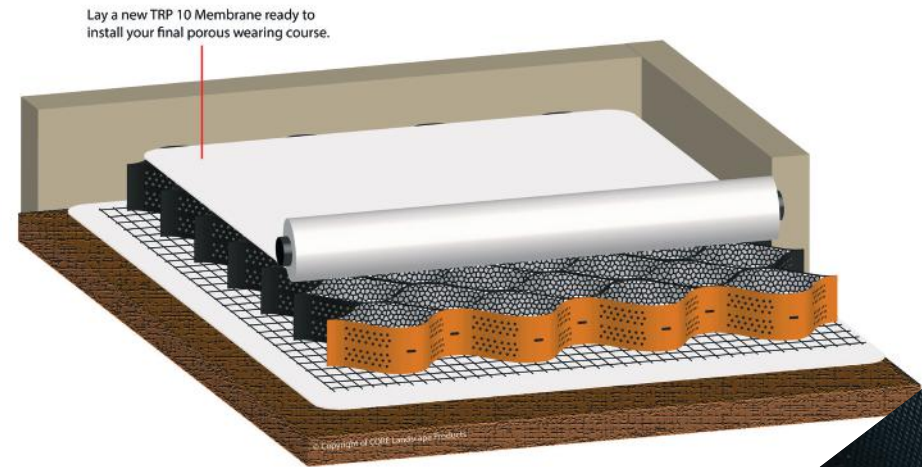
For site specific advice or questions regarding design specification or installation, give our experienced technical support team a call on

0800 118 22 78

TEMPORARY SITE ACCESS CONSTRUCTION



RE-USING THE TEMPORARY SITE ACCESS



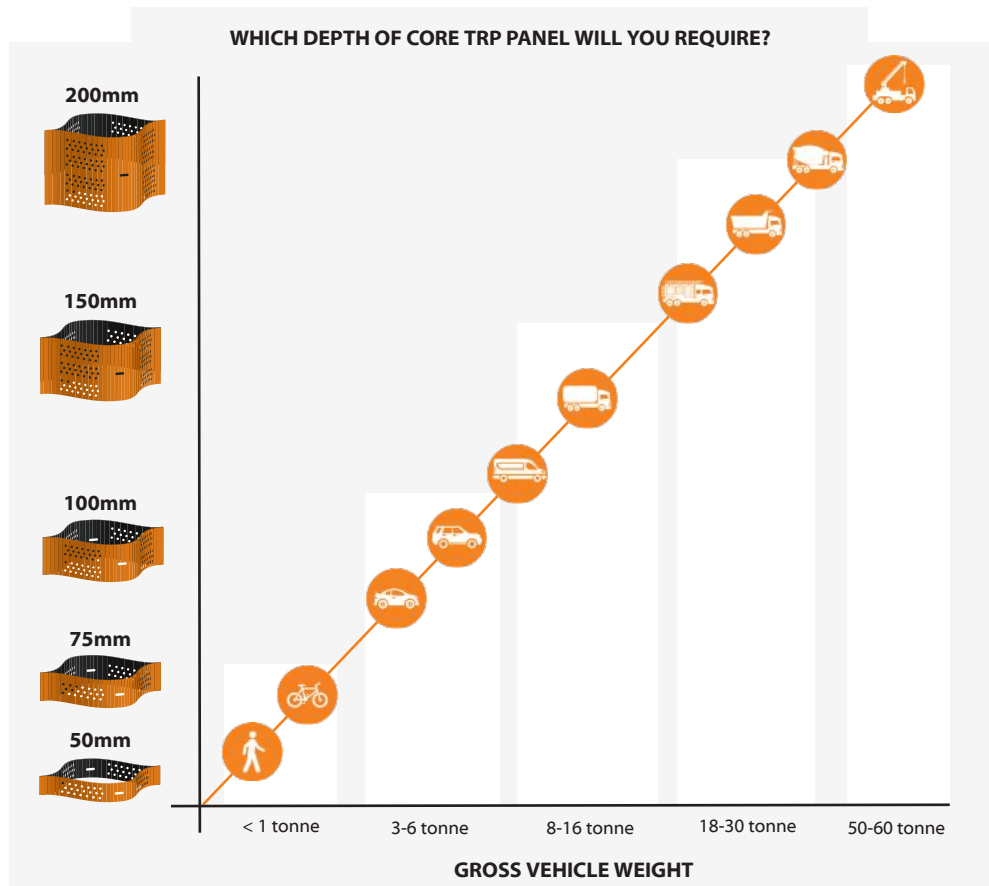
DESIGN & SPECIFICATION

The chart below should be used as a guide for planning your tree root protection project. We always recommend you seek the advice from an arboriculturist or our technical support team with regards to your full requirements.

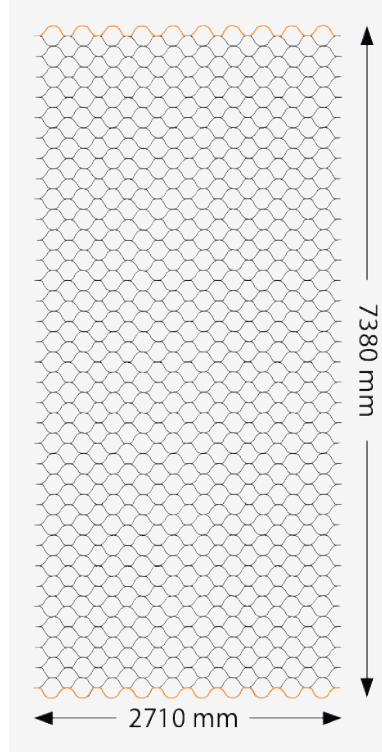
The guide has been based on a firm and stable subsoil condition with a CBR value of 3%.

We offer 5 depths of CORE TRP panel to cover the entire spectrum of traffic you may encounter.

Our TRP panels all come flat packed to make them easy to transport around site. The panels should always be fully expanded and then cut to size if required.



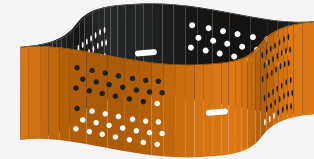
EXPANDED PANEL DIMENSIONS



CORE TRP PANEL

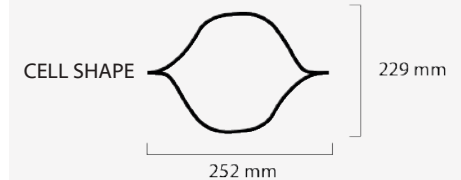
3D Cellular Confinement System

CELL STRUCTURE



Perforations in the cell wall promote lateral drainage and gaseous exchange.

CELL DIMENSIONS

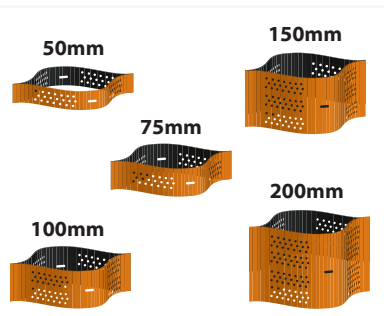


TECHNICAL PROPERTIES

- PANEL MATERIAL** VIRGN HIGH DENSITY POLYETHYLENE
- CELL WALL THICKNESS** 1.5 MILLIMETRES
- AREA COVERED PER PANEL** APPROX. 20M² (7380 X 2710 MM)
- SEAM WELD STRENGTH** 1420KN PER 100MM
- TENSILE STRENGTH** 18.4 MPa / 19.5 MPa
- BIOLOGICAL RESISTANCE** UNAFFECTED BY ALGAE & MOULD
- CHEMICAL RESISTANCE** EXCELLENT CHEMICAL RESISTANCE
- TEMPERATURE RANGE** -20°C TO 120°C



MATERIALS LIST



CORE TRP PANELS

MATERIAL	VIRGIN HDPE
PANEL SIZE	2710 x 7380mm (20m ²)
OPEN CELL DIMS.	252 x 229 mm
DEPTHS AVAIL.	50/75/100/150/200mm
PANEL WEIGHTS	12/ 18/ 24/ 36/ 48Kg
SOLD IN QUANT.	INDIVIDUALLY

CORE TRP MEMBRANES

MEMBRANES	TRP 10	TRP 30
MATERIAL	Non-Woven	Non-Woven
WEIGHT	100g/m ²	300g/m ²
FULL ROLL	4 x 100m	5.25 x 100m
HALF ROLL	2.25 x 50m	2.62 x 100m

Both the TRP 10 and TRP 30 membranes are sold in full or part rolls.

CORE TRP GEOGRID

MATERIAL	VIRGIN PP
COLOUR	BLACK
TENSILE STR.	20, 30 or 40 kN/m ²
MANF. METHOD	PUNCHED & DRAWN
FULL ROLL	4 x 50m (200m ²)
HALF ROLL	2 x 50m (100m ²)



CONNECTING STUDS

MATERIAL	VIRGIN HDPE
THREAD LENGTH	15 mm
NUT SIZE	16 mm
BOLT HEAD TYPE	FLAT SCREWDRIVER
SOLD IN QUANT.	PACKS OF 100



GALVANISED STAKING PINS

MATERIAL	GALVANISED STEEL
LENGTH	300 / 750 / 1000 mm
THICKNESS	12mm REBAR
SOLD IN QUANT.	PACKS OF 10

AGGREGATE MATERIAL

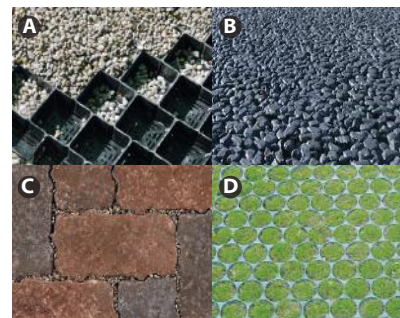
CORE SubFlow20 or 40 - a 4-20mm or 20/40mm graded clean angular aggregate that has been washed to provide the ultimate 'reduced fines' fill material for SUDS compliance.

CORE SubFlow6 - a 2-6mm hard clean grit used as the bedding/laying course for both gravel/grass grid and permeable block paving wearing courses.



POROUS WEARING COURSE

- A | CORE TRP GRAVEL GRID
- B | POROUS ASPHALT
- C | PERMEABLE BLOCK PAVING
- D | CORE GRASS HD GRID



Install Guide

The following guide is designed to be an overview of the installation process. As you can appreciate, site conditions will often vary so please seek expert advice or call our technical support team if you have questions that have not been covered in the install guide or the FAQs below. Our team will also be happy to visit your site if you require any site specific guidance.

FAQ's

Q | WHAT CAN I DO TO LEVEL THE UNDULATING GROUND WITHIN THE ROOT PROTECTION AREA (RPA)?

A | TRP Panels require an evenly graded subbase layer, which can be made up to any high points with granular, permeable fills such as crushed stone (CORE SubFlow20 or 6), sharp sand or clean graded soil, dependant on depth of fill required.

Q | CAN I USE A STANDARD WEED MEMBRANE?

A | No, standard separation membranes do not have the adequate tensile strength required for tree root protection. A specialist TRP membrane should be used below the system, they have high tensile strength and help maintain water and gaseous exchange.

Q | WHY DO I NEED A TRP GEOGRID BELOW THE SYSTEM?

A | CORE TRP Geogrid is an additional 2-dimensional support layer that helps to distribute the traffic load further, preventing the fill material within the cells from puncturing the specialist TRP membrane when exposed to extremely heavy traffic loads.

Q | WHAT AGGREGATE SHOULD BE USED TO FILL THE TRP PANELS WITH?

A | The fill material is one of the most important elements of the TRP system. The TRP Panel should be filled with a SUDS compliant free draining subbase material such as CORE SubFlow20 or SubFlow40 (a cohesive angular 4/20mm or 20/40mm mix that has been screened and washed to create a 'reduced fines' infill that remains porous even after compaction within the cellular structure).

Q | WHICH DEPTH OF CORE TRP PANEL SHOULD I BE USING ON MY PROJECT?

A | The depth of TRP panel required depends on the intended traffic loads. The heavier the traffic or softer the subsoil, the deeper the panel will need to be to sufficiently distribute the load. Please refer to page 17 for guidance and consult your arboricultural advisor.

Q | HOW CLOSE TO A TREE CAN I GO WITH THE CORE TRP SYSTEM?

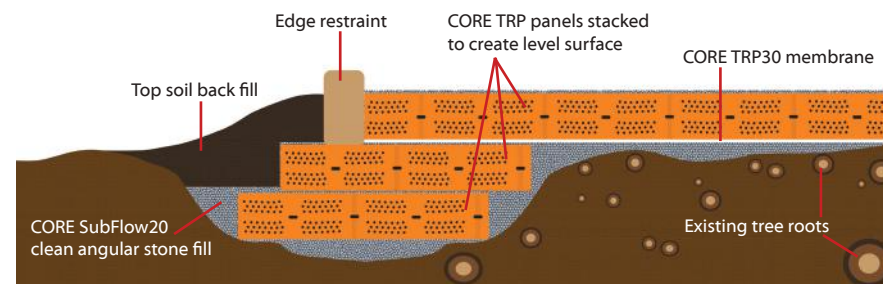
A | BS 5837 recommends a minimum distance of 500mm between new surfacing and buttress roots. There may be scope for flexibility in this separation for mature trees with little potential for future growth, if agreed by the supervising arboriculturist.

STEP 1 - Prepare existing subsoil



1. If agreed with the supervising arboriculturist remove the surface vegetation using hand held tools or herbicides. Cover any exposed tree roots using a suitable fill material. If large roots pretrude above ground the entire surface level may need to be adjusted. Please consult your supervising arboriculturist.

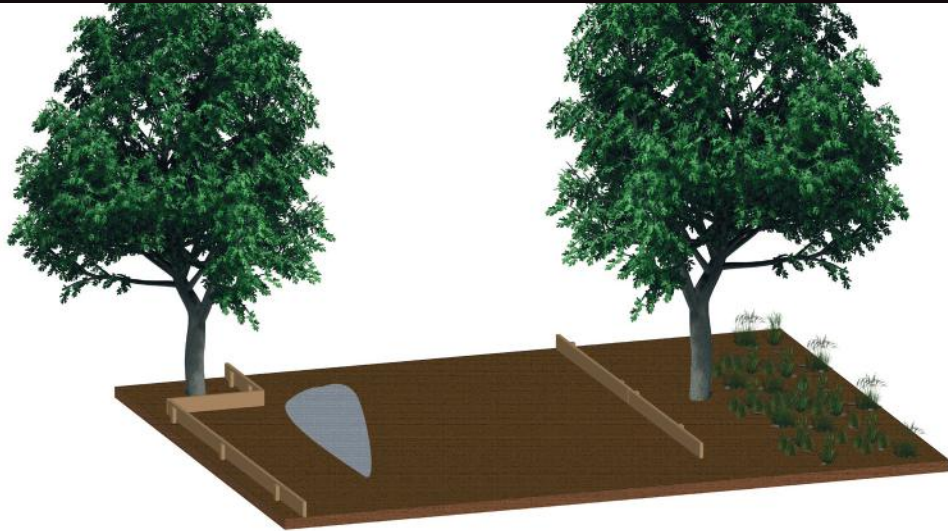
Fill any dips and undulations with a clean granular permeable fill material to bring the surface level in line with existing high spots. Do not remove any high spots and do not use mechanical compaction equipment to compact the fill material or surrounding soil.



If the existing subsoil level within the RPA is sloping or has large undulations it may be necessary to stack the TRP panels to create a level surface for the final wearing course. Filling large dips and bumps with unstabilised fill material is not advised.

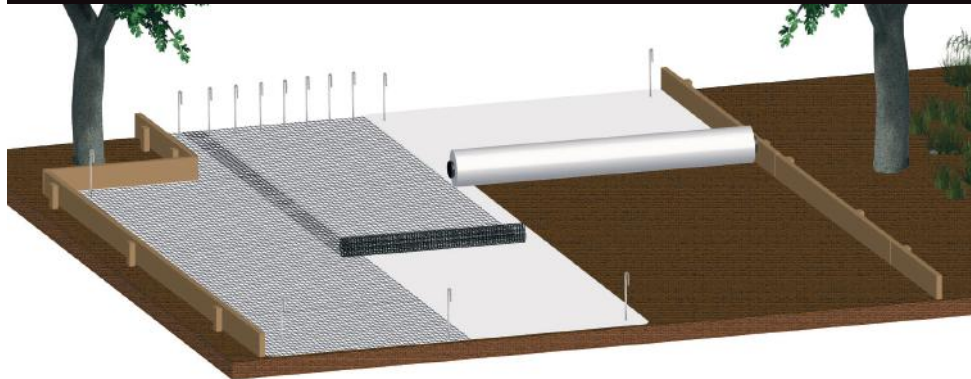


STEP 2 - Install Edge Restraint



2. An edge restraint should be used around the perimeter of the TRP area. Tanalised timber and railway sleepers are the most commonly used edging for TRP systems. If a more substantial edging is required, concrete kerbs or path edgings can be used. *Edgings for the wearing course are explained in greater detail in Step 7.*

STEP 3 - Lay TRP Membrane

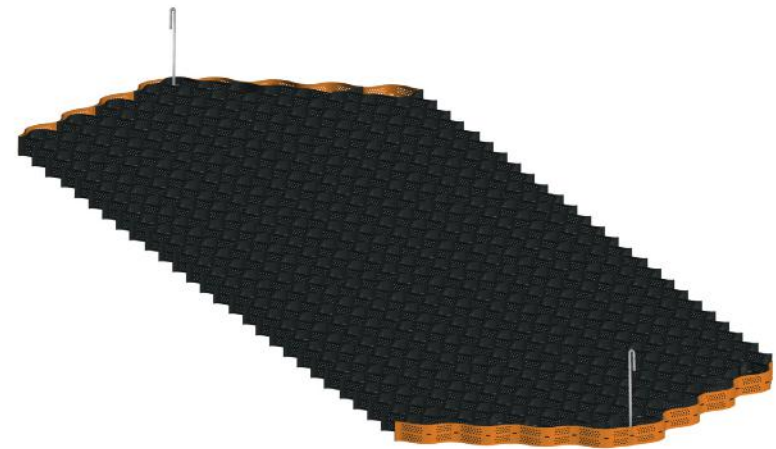


3. Once a generally level surface has been achieved lay the TRP 30 membrane. Ensure there is a minimum 150mm overlap on any membrane joints. *This may need to be more depending on soil structure. Seek advice from your arboricultural supervisor.*

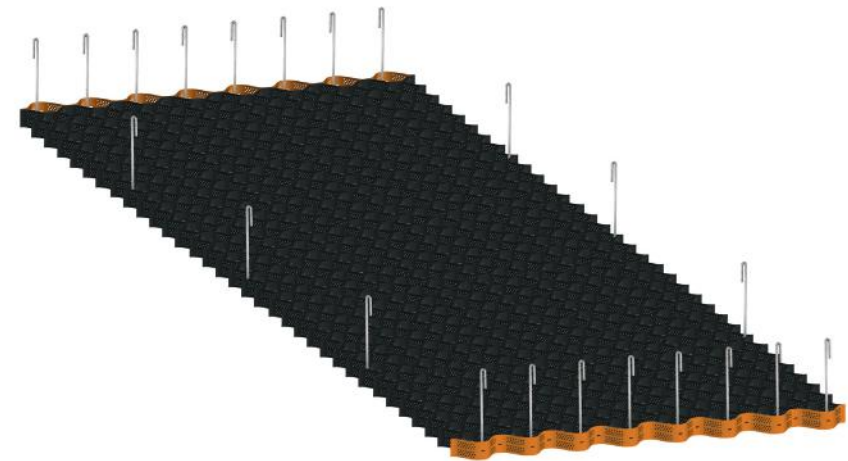
Pin the corners of the membrane to prevent it from moving. Pin the leading edge of TRP Geogrid and roll out over the membrane. Remove the pins from the membrane and re insert pinning the outer corners of the TRP Geogrid.

TRP Geogrid may be required subject to intended traffic load and soil structure. Seek advice from your arboricultural supervisor.

STEP 4 - Expand Panels



4. Measure in 1355mm from the edge restraint (half the width of the panel). Lay the collapsed CORE TRP panel and pin the centre cell closest to the end of the panel. Expand the panel to its full length (7380mm). Pin the centre cell at the opposite end.

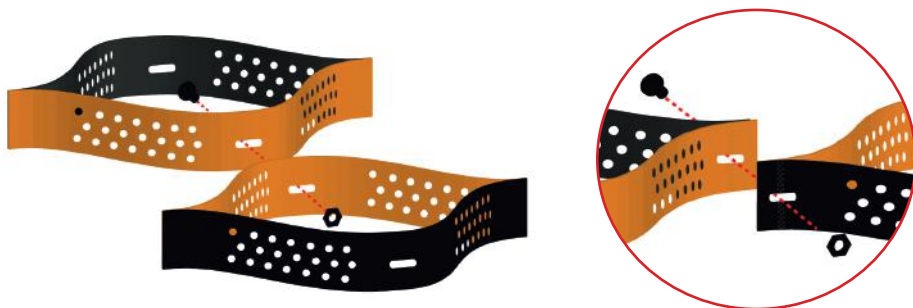


4a. Now measure 2710mm (the full width of the panel), and pin out the four corners to produce a fully expanded panel 2710 x 7380mm. Pin the remaining cells along each 2710mm end and evenly space 3 pins down each 7380mm side.

This will produce a cell size of 229 x 252mm once fully expanded and under tension. Do not try to curve or bend the panel into place. Any curves should be cut from fully expanded panels and pinned accordingly.



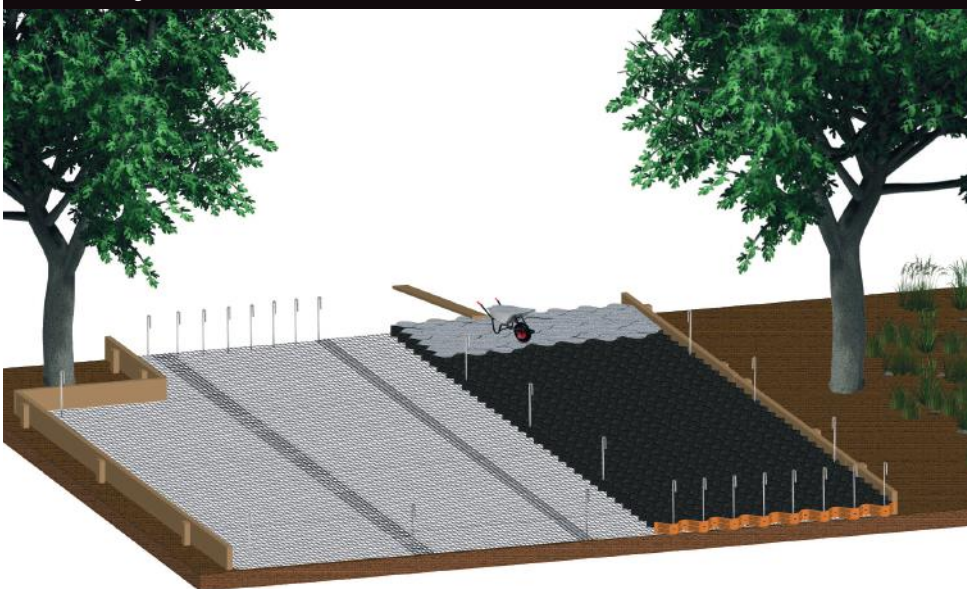
STEP 5 - Connecting Panels



5. When connecting ends of adjacent panels align the elongated holes in the centre of the cell walls. Insert the stud through the holes in both panels and attach the securing nut.

5a. When connecting two panels side-on, align the elongated holes in the centre of the seam welds and insert connecting stud as before.

STEP 6 - Filling Panels



6. Starting at one end, begin to fill the cells progressively using CORE SubFlow20 or SubFlow40 clean angular 4/20 - 20/40mm cohesive stone. Limit the drop height to less than 1m to avoid collapsing unfilled cells.

Once you have completed an area, you can bring vehicles or plant onto the filled cells using a ramp to continue filling. Ensure to fill the complete width of the panel.

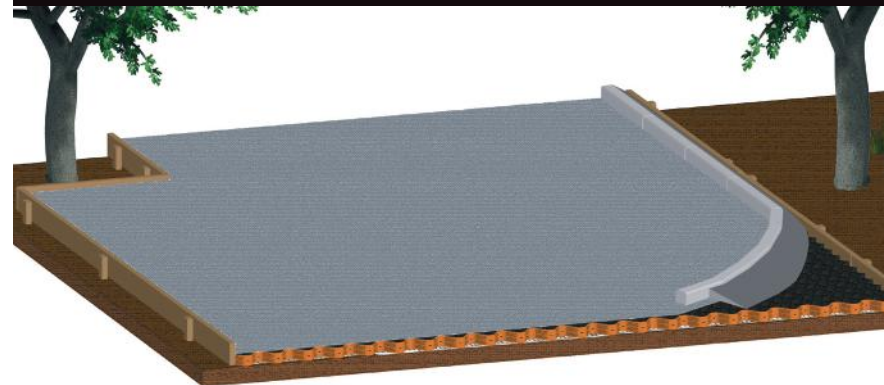
- Do not drive or walk on unfilled cells to avoid damage.

- Flint gravel is not an acceptable fill material as it does not have the cohesive properties required.

- MOTTYPE 1 or crushed stone should also be avoided as they have a high fines content.

- 3 passes with a non-vibrating roller is the best method of settlement for the infill material.

STEP 7 - Edging for wearing course



7. If the edging you installed in Step 2 is not the correct height or a different edging detail has been specified such as a granite sett or concrete kerb, this can be installed on top of the CORE TRP panel. The concrete haunching can go inside the cells of the TRP panel and on top to create an extremely strong and robust edge.

STEP 8 - Surfacing Options



8. The wearing course over the TRP panel must be porous. There are several options including; porous asphalt, permeable block paving; porous gravel or grass grids; resin bound; and rubbercrumb surfacing. For specific construction diagrams please refer to page 11.



CASE STUDY

PROJECT LOCATION | East Sussex
CONTRACTOR | SH Groundworks
CLIENT | Homeowner
PROJECT SIZE | 220m²
DEPTH OF TRP | 100mm
WEARING COURSE | CORE TRP Grid



PRACTICAL SOLUTION | CONTINUED...

CORE provided additional assistance when it came to installing the TRP system.

One of the experienced technical support team members had a call with the contractor to fully explain the process and the necessary build up.



PROJECT BRIEF | CREATE A NEW ACCESS WAY THROUGH AN EXISTING ROOT PROTECTION AREA.

The client had built a new dwelling at the rear of the existing property.

The new access cut across the path of two mature trees that were both subject to TPOs.

The arboriculturalist had requested that the access had to be constructed in strict accordance with Arboricultural Practice Note 12 (APN12) - The 'No Dig' solution.

Once the TRP system had been laid, levelled and compacted, a TRP 10 membrane was installed. A bedding layer of CORE SubFlow6 aggregate was next, followed by a CORE TRP Gravel Grid wearing course and finally a 10mm silver granite infill.

The main contractors had used a gravel stabiliser system before but commented on how easy the CORE TRP Gravel Grid panels were to lay.



PRACTICAL SOLUTION | INSTALL THE CORE TRP SYSTEM TO PREVENT ANY DAMAGE TO TREES.

CORE provided guidance and advice to the main contractors on the 'No Dig' solution required and specified the depth of TRP panel producing a materials list to make it easier for the contractors.

This was the first TRP project for the contractors. CORE guided them through the process whilst liaising with the arboriculturalist to ensure the system was to his satisfaction.



OUTCOME | SUCCESSFUL INSTALL AND BOTH CONTRACTOR AND HOMEOWNER WERE HAPPY WITH THE RESULT.

All parties involved were impressed with the performance of the system overall and the main contractors commented on the high level of support provided by CORE throughout the project.



WARRANTY

With the CORE Tree Root Protection (TRP) system you are using tried and tested tree root protection of the highest quality that outperforms competitors, offering total peace of mind. Top quality raw materials and intuitive design ensure the roots of the trees you want to protect will not be damaged by traffic or footfall.

By simply following our recommendations and adopting industry standard installation practices, you can rest assured you are not only choosing the best possible system, but also getting the best value for money.

With CORE TRP you have the option of obtaining a comprehensive written guarantee for an additional fee. The CORE TRP system is one of the few systems available in today's market with this option. Independently tested, it offers unrivalled protection for your tree roots, and has been used throughout the world for years without failure.

COMPLETE CONTROL

As every good businessman knows “nothing is truly free in business” so we prefer to offer you the option of paying for the written guarantee. In our experience not everyone requires a guarantee so this allows us to offer you the best possible price for your CORE TRP system. We will specify and quote your requirements

using exactly the same great product with or without the warranty. We will then advise you on the cost of the optional warranty, if you require one. Either way the protection the roots receive is the same, so you have the option of how you spend your resources. With expert guidance from our arboriculturalists and design engineers, CORE TRP gives our customers the assurance that specific site requirements and design criteria will be achieved.

The optional warranty covers the replacement of not only the CORE TRP system but also the tree(s), giving the customer complete peace of mind. Our engineers will offer site specific technical recommendations to help you obtain the best results for the best possible price.

FREQUENTLY ASKED QUESTIONS

What is covered under the warranty? | The guarantee covers the replacement of dead tree(s) within the protected area, up to a value of £10,000.00. The guarantee also covers the replacement of the CORE TRP system which has failed up to the value of £50,000.00. The guarantee is valid for 10 years from date of invoice.

How to Make a claim for loss of a tree? | In the unlikely event that a tree dies within the 10 year guarantee period, you will need to notify us as soon as discovered. We will carry out a full investigation into the actual cause of death. Once

our investigation has identified the cause we will establish what remedial action is required.

How to make a claim for material failure?

| In the unlikely event that your CORE TRP system fails within the 10 year guarantee period, you will need to notify us as soon as discovered. We will carry out a full investigation into the actual cause of failure. Once our investigation has identified the cause we will establish what remedial action is required.

Can I alter the CORE TRP system?

| The system is created and designed using only high quality raw materials that outperform many of our competitors. This manufacturing process creates a truly unique system. Our installation guides and technical recommendations ensure the complete success of the project therefore we can only offer the warranty if the full system has been installed with no alterations, additions or omissions.

Can I pass the warranty on?

| Yes, the warranty is owned by the landowner. This can be transferred should the ownership of the land change, provided we are given notice of the transfer.

HOW TO OBTAIN A WARRANTY

Site Survey | Provide us with a copy of the Arboricultural Report for the site. [If a report hasn't already been produced, we would advise approaching an Arboricultural Association registered consultant to have a full survey completed].

Technical Recommendation | We can offer all of our client's engineering advice and services. On all guaranteed projects, we provide full technical recommendations and calculations.

Site Survey Scope Agreement | Once we have received the arboricultural report and produced our technical recommendation, we will advise on which trees can be covered under the warranty using a scoping agreement. We will then advise on the cost of the warranty.

Straight Forward Installation | By following our installation guide and technical recommendations the works should be carried out adhering to basic industry guidelines. Once completed, the customer signs, agreeing to the terms and conditions of the warranty.

Certification | Once your signed agreement is received by us, we will send out a pack containing your guarantee certificate with full details of your purchase.



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