



Cronfa Amaethyddol Ewrop ar
gyfer Datblygu Gwledig
Ewrop yn Buddsoddi mewn Ardaloedd Gwledig
European Agricultural Fund for
Rural Development
Europe Investing in Rural Areas



Llywodraeth Cymru
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Glastir

Glastir Small Grants

Capital Works
Technical Guidance Booklet
Landscape and Pollinators 2021

The Welsh Government Rural Communities –
Rural Development Programme for Wales
2014-2020



Glastir Small Grants Scheme – Landscape and Pollinators

Glastir Small Grants is a programme of capital works available to farming businesses across Wales to carry out projects that will help to improve and maintain traditional landscape features, and provide habitat linkage for pollinating insects.

Capital Works items will be identified as ‘Main’ and ‘Supportive’ Work(s), which together form a ‘Project’.

The Project will be:

- The Main Capital Work, which will address the theme objectives.
- The Supportive Capital Work(s), which will allow the Main Capital Work to be undertaken, e.g. Plant New Hedges for Pollinators (option 922), is the Main Capital Work, while Post and Wire Fencing (option 594), to protect the new hedge from damage, would be a Mandatory Supportive Capital Work, and Hardwood Timber Field Gates (option 599) would be an Optional Supportive Capital Work.

The Landscape and Pollinators Theme offers Capital Works that have been chosen for their broad and general environmental benefits and their ability to deliver the Welsh Government’s ambitions to maintain traditional landscape features and provide habitat linkage for pollinating insects.

Expression of Interest (Eol)

Glastir Small Grants General Guidance

Scoring and Selection

To enable the Welsh Government to select those Eols that offer the highest environmental value for money, all Eols will be scored and ranked. Contracts will only be offered to the highest ranking Eols.

The theme of this Glastir Small Grants Window is ‘Landscape and Pollinators’, and the available activities have been chosen for their ability to contribute to enhancing landscape features and providing habitat for pollinator insect species.

Every eligible land parcel in Wales has been assigned a score for each available activity. This score is made up of the following:

- **A Glastir Small Grants Foundation Score:** one point has been assigned to each eligible field parcel to recognise that all land can contribute to the aims of the scheme.
- **Target objectives:** a number of target objectives have been identified across Wales. These objectives include habitat improvements for both landscape and pollinator insect benefits such as orchards and parklands.

Each land parcel has been awarded a different number of points depending on the specific activity and the combination of target objectives it overlaps with.

The ‘Create Project’ screen will show you the scores that each land parcel has been assigned for each available activity. The highest scoring activity for each parcel has been highlighted in green under the main capital works title.

Some field parcels will be marked as n/a (not available) either because that field parcel is not eligible, or because certain activities are not eligible if they could be potentially damaging to an environmental feature. For example tree planting options will not be available on land that is considered important for breeding lapwing. The nests of these rare ground nesting birds suffer predation from crows, and new trees will provide extra perches for crows to use when hunting for lapwing nests. Therefore it is not appropriate to plant more trees in these areas.

Unlike previous rounds, you will now be able to progress an EoI where you wish to carry out an activity on parcels where a Natural Resources Wales (NRW) sensitivity overlays them.

The Welsh Government will require consent from NRW for the proposed projects.

To avoid delaying contract issue, you may contact NRW directly to request consent and upload the approval using your RPW Online account before the EoI deadline date. If approval is not received by the deadline, Welsh Government will request consent on your behalf.

When requesting consent from NRW, you should provide as much evidence as possible of the area where you wish to carry out the activity and the area which adjoins, or is in close proximity to, the area concerned.

When selection is complete, selection outcome letters will be issued on your RPW Online account stating whether your EoI has been “Selected” or “Not Selected”. These will be under separate headings so that the successful and unsuccessful projects can be easily identified.

Once validated, contracts will be generated giving 21 days to either “accept” or “decline” the project via the ‘blue button’ on the RPW Online homepage. “Before” photos can be taken and work commenced once the contract has been accepted. The deadline for submission of claims and geo-tagged photos is 21 March 2022.

Capital Works

Main Capital Works

- 610 Trees – Standards (no fencing)
- 611 Trees and Shrubs (Transplants)
- 612 Trees & Shrubs – Whips
- 646 Sabre Planting
- 901 Hedge Coppicing and Gapping-Up
- 902 Hedge Laying
- 914 Pond restoration
- 922 Plant New Hedges for Pollinators
- 923 Dry Stone Wall Restoration
- 924 Earth Bank Restoration
- 925 Stone Faced Bank Restoration
- 926 Slate Fence Restoration
- 929 Fruit Tree Plus Guard and Stake

The following Supportive Capital Works aid the establishment and conservation of the Main Capital Works being undertaken:

Supportive Capital Works

- | | |
|---|--|
| 514 Ladder Stile | 608 Tree Shelter (60cm with stake) |
| 516 Timber Bridle Gate and Posts | 647 Spiral Rabbit Guards |
| 517 Timber Kissing Gate and Posts | 905 Bramble/Scrub Control
(Hand Knapsack Sprayer) |
| 519 Wooden Stiles (rebated) | 919 Bracken Control
(Hand Knapsack Sprayer) |
| 533 Badger Gate | 920 Bracken Control
(Mechanical Clearance) |
| 563 Piped Water Supply | 921 Bracken Control
(Tractor Mounted Sprayer) |
| 573 Water Gate | 924 Earth Bank Restoration |
| 574 Water Troughs | 925 Stone Faced Bank Restoration |
| 593 Post and Rail Fencing | 928 Top Wiring on Stone Walls |
| 594 Post and Wire Fencing | |
| 595 Post and Wire Fencing
with Stock Netting | |
| 596 Rabbit Fencing | |
| 599 Timber Field Gates (Hardwood) | |
| 600 Timber Field Gates (Softwood) | |
| 604 Parkland Tree Stock Guards | |

Landscape and Pollinators – Main and Supportive Capital Works Table

A Glastir Small Grants Project will be made up of one Main Capital Work underwritten with one or multiple Supporting Capital Works. Please note that Supporting Capital Works are mandatory, optional or unavailable, depending which Main Capital Work is being supported within that Project.

See table below:

		Supportive Capital Works																								
		Code	514	516	517	519	533	563	573	574	593	594	595	596	599	600	604	608	647	905	919	920	921	924	925	928
Main Capital Works	Code	Title	Ladder Stile	Timber Bridle Gate and Posts	Timber Kissing Gate and Posts	Wooden Stiles	Badger Gate	Piped Water Supply	Water Gate	Water Troughs	Post and Rail Fencing	Post and Wire Fencing	Post and Wire Fencing with Stock Netting	Rabbit Fencing	Timber Field Gates – Hardwood	Timber Field Gates – Softwood	Parkland Tree Stock Guards	Tree Shelter [60cm with stake]	Spiral Rabbit Guards	Bramble/ Scrub Control – Hand Knapsack Spraying	Bracken Control – Hand Knapsack Sprayer	Bracken Control – Mechanical	Bracken Control – Tractor Mounted Sprayer	Earth bank restoration	Stone faced bank restoration	Top wiring on stone walls
	610	Trees – Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	611	Trees & Shrubs – transplants	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	1	1	2	2	2	2	0	0	0
	612	Trees & Shrubs – Whips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	2	2	2	2	0	0	0
	646	Sabre Planting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0
	901	Hedge Coppicing and Gapping-up	2	2	2	2	2	2	2	2	0	1	1	2	2	2	0	0	0	2	2	0	0	2	2	0
	902	Hedge Laying	2	2	2	2	2	2	2	2	0	1	1	2	2	2	0	0	0	2	2	0	0	2	2	0
	914	Pond restoration	0	0	0	0	2	2	0	2	1	1	1	0	2	2	0	0	0	0	0	0	0	0	0	0
	922	Plant new hedges for pollinators	2	2	2	2	2	2	2	2	0	1	1	2	2	2	0	0	0	2	2	2	2	2	2	0
	923	Dry Stone wall restoration	2	2	2	2	2	2	2	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	2
	924	Earth bank restoration	2	2	2	2	2	2	2	2	0	2	2	2	2	2	0	0	0	2	2	0	0	0	0	0
	925	Stone faced bank restoration	2	2	2	2	2	2	2	2	0	2	2	2	2	2	0	0	0	2	2	0	0	0	0	0
	926	Slate fence restoration	2	2	2	2	2	2	2	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
929	Fruit Trees plus guard and Stake	2	2	2	2	2	2	0	2	2	2	2	2	2	2	0	0	0	2	2	2	2	0	0	0	

0 n/a 1 mandatory 2 optional

Main Capital Works

610 Trees Standards (No Fencing)

This technical note describes the minimum standard of work required in order to receive payments for 'Trees Standards (no fencing)'. Any variation must be approved by the Welsh Government prior to starting the work.

Planting small areas of woodland can provide benefits for wildlife and landscape. Growing trees removes carbon dioxide from the atmosphere (which has a positive impact on climate change) and absorbs a lot of water, reducing the amount of water running off farmland.

You must adhere to the following:

- Plant sturdy plants, which are at least 1.8m in height.
- Plant only native species as shown at the end of the tree planting notes.

Do not:

- Plant ash trees as part of any planting mix due to ash dieback disease (*Chalara fraxinea*).
- Allow damage from machinery or browsing animals (including wild animals).

Additional guidance which may be useful in addition to the specifications above:

- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.
- If undertaking any spraying as part of this activity ensure you have obtained any consents that may be necessary.

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Standards – used in registered parkland – are trees with at least 1.8m of clear stem before the branches. These should be chosen where individual or small groups of trees are required for an immediate effect. They are typically planted for landscaping purposes. They are less vulnerable to competition from weeds but more expensive and being drought susceptible, more difficult to establish than transplants and whips. They require tree stakes, ties and protection from machinery and browsing animals.
- Where possible, trees or shrubs should not be planted within 15 metres of ponds. This will ensure that when the trees are grown they will not shade the surface of the pond. Consideration should also be given when establishing scrub and tree cover to avoid any impact on water supply for ponds or the likelihood of damaging any pond lining.
- The planting season normally runs from 1 October to 30 April. In practice, frost and snow usually divides this period into two planting spells: October to December; and during March. At higher altitudes, planting can be extended into early April.
- Autumn planting is preferred for broadleaved trees and shrubs, since roots will grow in warm spells and thus lessen the effect of any subsequent spring drought. In exposed sites or areas where winter gales are likely, spring planting may be preferable.
- Order as far in advance as possible to ensure the correct trees are available. Request that plants are delivered as close as possible to the planting date. It is best to choose an established local nursery because they will usually have a reputation

to maintain and your transport costs should be lower. In addition, the plants will be out of the ground for the minimum length of time.

- Wherever possible try to obtain plants grown from locally obtained seeds or cuttings (native provenance), since these will do better under local conditions and are more valuable for wildlife than imported stock.
- Try to be on hand when plants arrive so that you can ensure they are in good physical condition. Keep the roots covered at all times before planting to prevent damage and drying out. Whilst cold is unlikely to be harmful, hot sun and any form of drying such as an east wind, can very quickly cause damage or kill the plants.
- If immediate planting is not possible, dig a trench before delivery and store plants in this with the roots covered so they are kept moist and cool. Protect the plants from animals, including rabbits and hares.
- There are four main methods of planting using a spade, which are illustrated at the end of the tree planting notes. More specialised tools are available for use on large scale plantings.
- Use individual tree guards and stakes where lengths of fencing would be uneconomic or unsightly, such as single or widely spaced trees in parklands, or where damage from machinery is possible.
- Annual maintenance is essential to ensure both survival and healthy growth. Plants should be watered both regularly and liberally during prolonged dry spells. It is advisable to apply water slowly so it has time to soak into the ground adjacent to the tree. A mulch may serve to reduce the frequency with which watering is needed.
- Plants should be kept clear of competing weeds and grasses (weeding will also reduce mouse and vole damage). Control can be achieved with a thick mulch of bark chippings or by using a 500-gauge

black polythene sheet and pegging down securely. Alternatively, carefully cut back grass and other vegetation in the area above the tree roots.

- Weeding is advisable twice in the first year after planting and once a year thereafter, until the tree is clear of surrounding vegetation. Cut weeds by hand or use herbicides to control grasses, docks, thistles and ragwort. If using a strimmer take care to protect the tree stem from damage. Any chemicals used must have a label recommendation for use on the target species and for the intended method of application. All manufacturers label recommendations regarding method of application must be strictly adhered to.
- Any plants that have been loosened or partly lifted by winds and winter frosts should be trodden back in carefully. Regularly inspect fencing, tree guards, stakes and tree ties (loosen tight ties as these will constrict tree growth) and prevent trees growing through or chafing against tree guards.

611 Trees and Shrubs (Transplants)

This technical note describes the minimum standard of work required in order to receive payments for 'Trees and Shrubs (Transplants)'. Any variation must be approved by the Welsh Government prior to starting the work.

Planting small areas of woodland can provide benefits for wildlife and landscape. Growing trees removes carbon dioxide from the atmosphere (which has a positive impact on climate change) and absorbs a lot of water, reducing the amount of water running off farmland.

You must adhere to the following:

- Plant sturdy plants, which are at least 50cm in height.
- Plant only native species as shown at the end of the tree planting notes.

Do not:

- Plant ash trees as part of any planting mix due to ash dieback disease (*Chalara fraxinea*).
- Allow damage from machinery or browsing animals (including wild animals).

Additional guidance which may be useful in addition to the specifications above:

- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.
- If undertaking any spraying as part of this activity ensure you have obtained any consents that may be necessary.
- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Transplants are 1-2 year old plants with a large proportion of root in relation to shoot, which gives them good powers of survival especially in poor soils and on exposed sites. They will generally outgrow whips in a few years to produce healthier and better formed trees. A high degree of protection from machinery and animals is needed. Careful maintenance during the first few years is essential. Transplants are considerably cheaper than whips and standards and are usually purchased in bulk.
- Where possible, trees or shrubs should not be planted within 15 metres of ponds. This will ensure that when the trees are grown they will not shade the surface of the pond. Consideration should also be given when establishing scrub and tree cover to avoid any impact on water supply for ponds or the likelihood of damaging any pond lining.
- The planting season normally runs from 1 October to 30 April. In practice, frost and snow usually divides this period into two planting spells: October to December; and during March. At higher altitudes, planting can be extended into early April.
- Autumn planting is preferred for broadleaved trees and shrubs, since roots will grow in warm spells and thus lessen the effect of any subsequent spring drought. In exposed sites or areas where winter gales are likely, spring planting may be preferable.
- Order as far in advance as possible to ensure the correct trees are available. Request that plants are delivered as close as possible to the planting date. It is best to choose an established local nursery because they will usually have a reputation to maintain and your transport costs should be lower. In addition, the plants will be out of the ground for the minimum length of time.
- Wherever possible try to obtain plants grown from locally obtained seeds or cuttings (native provenance), since these will do better under local conditions and are more valuable for wildlife than imported stock.
- Try to be on hand when plants arrive so that you can ensure they are in good physical condition. Keep the roots covered at all times before planting to prevent damage and drying out. Whilst cold is unlikely to be harmful, hot sun and any form of drying such as an east wind, can very quickly cause damage or kill the plants.
- If immediate planting is not possible, dig a trench before delivery and store plants in this with the roots covered so they are kept moist and cool. Protect the plants from animals, including rabbits and hares.

- There are four main methods of planting using a spade, which are illustrated at the end of the tree planting notes. More specialised tools are available for use on large scale plantings.
- Use individual tree guards and stakes where lengths of fencing would be uneconomic or unsightly, such as single or widely spaced trees in parklands, or where damage from machinery is possible.
- Annual maintenance is essential to ensure both survival and healthy growth. Plants should be watered both regularly and liberally during prolonged dry spells. It is advisable to apply water slowly so it has time to soak into the ground adjacent to the tree. A mulch may serve to reduce the frequency with which watering is needed.
- Plants should be kept clear of competing weeds and grasses (weeding will also reduce mouse and vole damage). Control can be achieved with a thick mulch of bark chippings or by using a 500-gauge black polythene sheet and pegging down securely. Alternatively, carefully cut back grass and other vegetation in the area above the tree roots.
- Weeding is advisable twice in the first year after planting and once a year thereafter, until the tree is clear of surrounding vegetation. Cut weeds by hand or use herbicides to control grasses, docks, thistles and ragwort. If using a strimmer take care to protect the tree stem from damage. Any chemicals used must have a label recommendation for use on the target species and for the intended method of application. All manufacturers label recommendations regarding method of application must be strictly adhered to.
- Any plants that have been loosened or partly lifted by winds and winter frosts should be trodden back in carefully. Regularly inspect fencing, tree guards, stakes and tree ties (loosen tight ties as these will constrict tree growth) and prevent trees growing through or chafing against tree guards.

612 Trees and Shrubs – Whips

This technical note describes the minimum standard of work required in order to receive payments for 'Trees and Shrubs – whips'. Any variation must be approved by the Welsh Government prior to starting the work.

Planting small areas of woodland can provide benefits for wildlife and landscape. Growing trees removes carbon dioxide from the atmosphere (which has a positive impact on climate change) and absorbs a lot of water, reducing the amount of water running off farmland.

You must adhere to the following:

- Plant sturdy plants, which are at least 1m in height.
- Plant only native species as shown on the table.

Do not:

- Plant ash trees as part of any planting mix due to ash dieback disease (*Chalara fraxinea*).
- Allow damage from machinery or browsing animals (including wild animals).

Additional guidance which may be useful in addition to the specifications above:

- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.
- If undertaking any spraying as part of this activity ensure you have obtained any consents that may be necessary.
- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you

obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.

- Whips are used for individual tree planting and for hedgerow trees – trees of 1m or taller with little branching. These should be used occasionally, in specific circumstances. Although more expensive and less sturdy than transplants, they are cheaper and easier to establish than standards. Usually short enough not to require stakes and ties, they are tall enough to prevent the leading shoots being damaged by hares and are easier to protect from rabbits than transplants. Weeding is less critical but they will need protection from browsing animals and machinery.
- Where possible, trees or shrubs should not be planted within 15 metres of ponds. This will ensure that when the trees are grown they will not shade the surface of the pond. Consideration should also be given when establishing scrub and tree cover to avoid any impact on water supply for ponds or the likelihood of damaging any pond lining.
- The planting season normally runs from 1 October to 30 April. In practice, frost and snow usually divides this period into two planting spells: October to December; and during March. At higher altitudes, planting can be extended into early April.
- Autumn planting is preferred for broadleaved trees and shrubs, since roots will grow in warm spells and thus lessen the effect of any subsequent spring drought. In exposed sites or areas where winter gales are likely, spring planting may be preferable.
- Order as far in advance as possible to ensure the correct trees are available. Request that plants are delivered as close as possible to the planting date. It is best to choose an established local nursery because they will usually have a reputation to maintain and your transport costs should be lower. In addition, the plants will be out of the ground for the minimum length of time.
- Wherever possible try to obtain plants grown from locally obtained seeds or cuttings (native provenance), since these will do better under local conditions and are more valuable for wildlife than imported stock.
- Try to be on hand when plants arrive so that you can ensure they are in good physical condition. Keep the roots covered at all times before planting to prevent damage and drying out. Whilst cold is unlikely to be harmful, hot sun and any form of drying such as an east wind, can very quickly cause damage or kill the plants.
- If immediate planting is not possible, dig a trench before delivery and store plants in this with the roots covered so they are kept moist and cool. Protect the plants from animals, including rabbits and hares.
- There are four main methods of planting using a spade, which are illustrated at the end of this note. More specialised tools are available for use on large scale plantings.
- Use individual tree guards and stakes where lengths of fencing would be uneconomic or unsightly, such as single or widely spaced trees in parklands, or where damage from machinery is possible.
- Annual maintenance is essential to ensure both survival and healthy growth. Plants should be watered both regularly and liberally during prolonged dry spells. It is advisable to apply water slowly so it has time to soak into the ground adjacent to the tree. A mulch may serve to reduce the frequency with which watering is needed.
- Plants should be kept clear of competing weeds and grasses (weeding will also reduce mouse and vole damage). Control can be achieved with a thick mulch of bark chippings or by using a 500-gauge black polythene sheet and pegging down securely. Alternatively, carefully cut back grass and other vegetation in the area above the tree roots.
- Weeding is advisable twice in the first year after planting and once a year thereafter, until the tree is clear of surrounding

vegetation. Cut weeds by hand or use herbicides to control grasses, docks, thistles and ragwort. If using a strimmer take care to protect the tree stem from damage. Any chemicals used must have a label recommendation for use on the target species and for the intended method of application. All manufacturers label recommendations regarding method of application must be strictly adhered to.

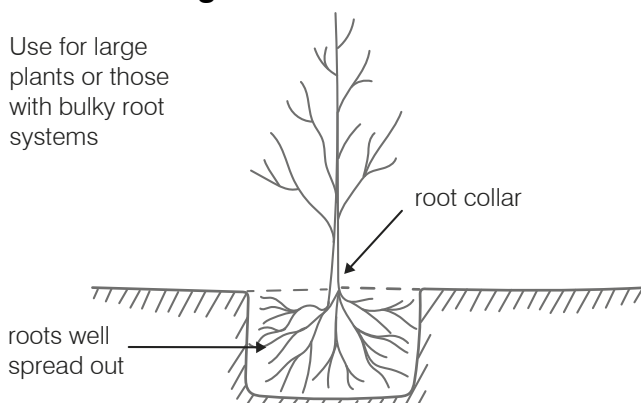
- Any plants that have been loosened or partly lifted by winds and winter frosts should be trodden back in carefully. Regularly inspect fencing, tree guards, stakes and tree ties (loosen tight ties as these will constrict tree growth) and prevent trees growing through or chafing against tree guards.

Native Trees and Shrubs Suitable for Planting			
Alder	Crab Apple	Guelder Rose	Oak
Beech	Dog Rose	Hawthorn	Rowan (Mountain Ash)
Birch	Elder	Hazel	Spindle
Blackthorn	Field Maple	Holly	Willow
Cherry (Wild & Bird)			

Example of the four main methods of planting using a spade

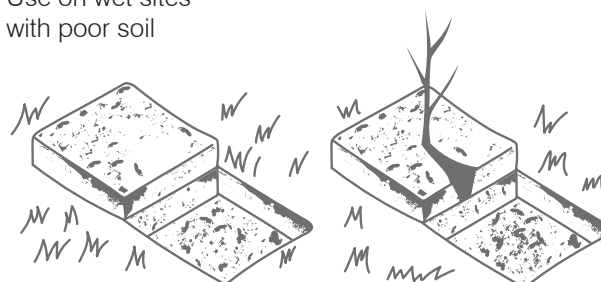
1. Pit Planting

Use for large plants or those with bulky root systems



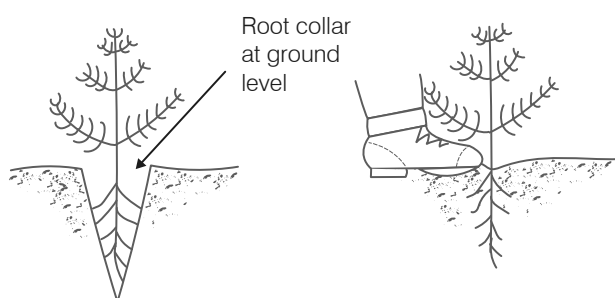
2. Turf Planting

Use on wet sites with poor soil



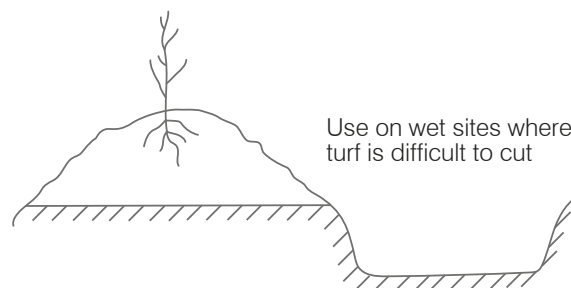
3. Notch or Slit Planting

Use for smaller plants with compact root systems



4. Ridge or Mount Planting

Use on wet sites where turf is difficult to cut



646 Sabre Planting

This technical note describes the standard of work required in order to receive payments for 'Sabre Planting'. Any variation must be approved by the Welsh Government prior to starting the work.

Pioneered by an independent local charity 'Bugeiliaid y Coed' (Tree Shepherds), the 'No Fence Planting' technique mimics the way in which self-sown trees establish themselves naturally on grazed farmland. Trees over 1m in height can be 'sabre-planted' perpendicular to steep ground (rather than pointing straight up) so that the leading shoots cannot be reached by browsing sheep and cattle. Such trees typically have a 'sabre-shaped' profile and can be seen growing in most valleys in Wales.

You must adhere to the following:

- Plant sturdy plants, which are at least 1m in height.
- Plant at an angle perpendicular to the slope on steep ground.
- Plant only native species as shown on the table.

Do not:

- Plant ash trees as part of any planting mix due to ash dieback disease (*Chalara fraxinea*).

Additional guidance which may be useful in addition to the specifications above:

- Trees can be planted amongst gorse.
- Steep and broken ground with bracken is ideal for 'Sabre Planting'.
- Other no-fence methods include the planting of 1.5m-2m trees.
- Where possible, trees or shrubs should not be planted within 15 metres of ponds. This will ensure that when the trees are grown they will not shade the surface of the pond. Consideration should also be given when establishing scrub and tree cover

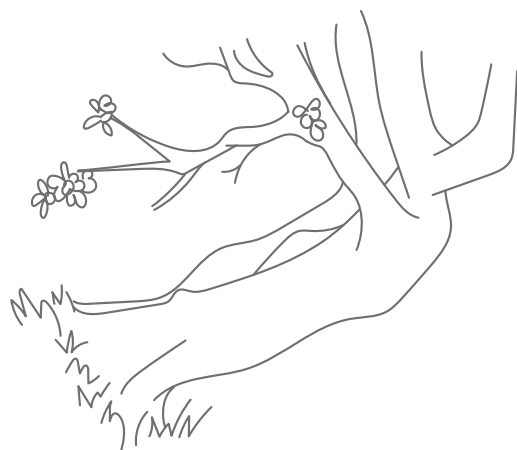
to avoid any impact on water supply for ponds or the likelihood of damaging any pond lining.

- The planting season normally runs from 1 October to 30 April. In practice, frost and snow usually divides this period into two planting spells: October to December; and during March. At higher altitudes, planting can be extended into early April.
- Autumn planting is preferred for broadleaved trees and shrubs, since roots will grow in warm spells and thus lessen the effect of any subsequent spring drought. In exposed sites or areas where winter gales are likely, spring planting may be preferable.
- Order as far in advance as possible to ensure the correct trees are available. Request that plants are delivered as close as possible to the planting date. It is best to choose an established local nursery because they will usually have a reputation to maintain and your transport costs should be lower. In addition, the plants will be out of the ground for the minimum length of time.
- Wherever possible try to obtain plants grown from locally obtained seeds or cuttings (native provenance), since these will do better under local conditions and are more valuable for wildlife than imported stock.
- Try to be on hand when plants arrive so that you can ensure they are in good physical condition. Keep the roots covered at all times before planting to prevent damage and drying out. Whilst cold is unlikely to be harmful, hot sun and any form of drying such as an east wind, can very quickly cause damage or kill the plants.
- If immediate planting is not possible, dig a trench before delivery and store plants in this with the roots covered so they are kept moist and cool. Protect the plants from animals, including rabbits and hares.

Native Trees and Shrubs Suitable for Planting			
Alder	Crab Apple	Guelder Rose	Oak
Beech	Dog Rose	Hawthorn	Rowan (Mountain Ash)
Birch	Elder	Hazel	Spindle
Blackthorn	Field Maple	Holly	Willow
Cherry (Wild & Bird)			

Examples of Sabre Planted trees

Mature self-sown tree



Young Sabre Planted tree



901 Hedge Coppicing and Gapping-Up

This technical note describes the minimum standard of work required in order to receive payments for 'Hedge Coppicing and Gapping up'. Any variation must be approved by the Welsh Government prior to starting the work.

Please note that hedge trimming with a flail cutter does not meet the technical specification necessary to fulfil the requirement of coppicing the hedge at the level set out below. Hedge Coppicing and Gapping-up projects where a hedge has only been trimmed back, will be rejected.

Coppicing

Coppicing is generally undertaken when a hedge stem is too thick (more than 10cm in width) to be properly laid. In some circumstances, the stems may be so thick that you may need to obtain a Felling Licence from Natural Resources Wales. It is your responsibility to check whether or not this is the case.

You must adhere to the following:

- Coppice the hedge to within 7.5cm or less of ground level to allow re-shooting.
- Retain all large, mature trees where undertaking hedgerow renovation work, particularly those with features such as holes, splits, cracks or dense ivy cover; as these provide roosting sites for bats.
- Plant native trees and shrubs in a mix of at least three hedging species, with no one component of the mix comprising more than 75% of the total.
- Plant hedge plants that are at least 45cm – 60cm high which should have a strong leader shoot.
- Plant new hedgerows at a density of 7 plants per metre in a staggered double row, with 20cm between each row.
- Prevent new plants from being killed by shading out from excessive weed growth.
- Protect newly planted hedges from livestock.
- Replace any dead plants.

- Ensure that all redundant fencing or wire is removed.
- Ensure there is at least 1m between new planting and protective fencing.
- Ensure that the hedge is able to grow to a 3m width. There must be a gap of at least 3m between double fences.

Do not:

- Plant any ash trees as part of any planting mix due to ash dieback disease (*Chalara fraxinea*), in any planting mix, either for woodlands or when establishing or restoring hedgerows.
- Cause damage to any existing hedge banks during ground preparation, planting or fencing.
- Use trees and shrubs as strainers or fencing posts, or use them to support fencing wire, staples or netting.

Additional guidance which may be useful in addition to the specifications above:

- Depending on the volume of timber felled you may need to obtain a Felling Licence from Natural Resources Wales.
- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.
- If undertaking any spraying as part of this activity ensure you have obtained any consents that may be necessary.
- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.

- Carry out hedge restoration work between dates permitted by Cross Compliance rules.
- Restricting the hedge restoration dates further to between November and March will be even more beneficial to wildlife such as dormice.
- Ensure the best chances of survival, by planting new hedgerow plants in the winter months from November to March. Keep root balls damp during planting, and water liberally in dry spells until established.
- An additional 1 metre at the base between hedge and fence (on top of the minimum 3 metre width) will create additional wildlife habitat.
- Increasing the species mix beyond the minimum requirement of a 3 species mix will provide a greater selection of food sources for wildlife.
- Select plants with well-developed root systems. Plants which are 3–4 years old are recommended.
- Holly and blackthorn are both suitable species to use. Prepare the ground for planting by either rotovating or digging over during the previous summer. Avoid damaging historic banks during ground preparation by digging manually.
- You may incorporate some well-rotted manure if planting hedge plants on poor soils.
- Plant locally common native species where possible. Plants should be derived from locally collected seeds or cuttings if possible as these are likely to survive better and support more species of native wildlife. No one component of the mix should comprise more than 75% of the total.
- In previously un-coppiced hedges gaps should be thoroughly cleared of vegetation and hedges cut back to allow healthy growth on both sides.
- Control weeds by using a mulch of wood chippings or by securely pegging down a 500-gauge black polythene

sheet, 1m – 2m wide at the base of the transplants. Chemical control of grasses, thistles, docks and ragwort may be undertaken. Any chemical used must have a label recommendation for use on the listed species and for the intended method of application. All manufacturers label recommendations regarding application of the herbicide must be strictly adhered to.

- Encourage new growth by trimming the transplant back.
- Establish at least 1–2 hedgerow trees per 100m. Either plant new saplings (at least 1m tall), or identify existing plants that can develop into trees. It is sensible to tag the tree to avoid accidental damage when hedge trimming. Choose native tree species that grow well in local hedges, as they will contribute to an attractive landscape and can increase the wildlife value of the hedge.
- Spiral guards can be used to protect the hedge from rabbits, although in certain areas rabbit fencing may be a more effective deterrent.
- Retain all large mature trees where undertaking hedgerow renovation work, as these can provide roosting sites for bats.
- Where work is required to a tree that has been identified as a bat roost (either because bats are known to be present or where positive signs of bat use have been found), a Habitats Regulations licence from Natural Resources Wales must be obtained.

902 Hedge Laying

This technical note describes the minimum standard of work required in order to receive payments for 'Hedge Laying'. Any variation must be approved by the Welsh Government prior to starting the work.

You must adhere to the following:

- Ensure that all redundant fencing or wire is removed.
- Lay the hedge by partially cutting through suitable stems at ground level, at an angle of approximately 30°.
- Lay the cut stems as close to ground level as possible, and secure in place with stakes.
- Retain all large, mature trees where undertaking hedgerow renovation work, particularly those with features such as holes, splits, cracks or dense ivy cover as these provide roosting sites for bats.
- Ensure there is at least 1m between new planting and protective fencing.
- Ensure that the hedge is able to grow to a 3m width. There must be a gap of at least 3m between double fences.

Do not:

- Use wire or baler twine to secure either the stakes or cut stems.
- Plant any ash trees as part of any planting mix due to ash dieback disease (*Chalara fraxinea*), in any planting mix, either for woodlands or when establishing or restoring hedgerows.
- Cause damage to any existing hedge banks during ground preparation, planting or fencing.
- Use trees and shrubs as strainers or fencing posts, or use them to support fencing wire, staples or netting.

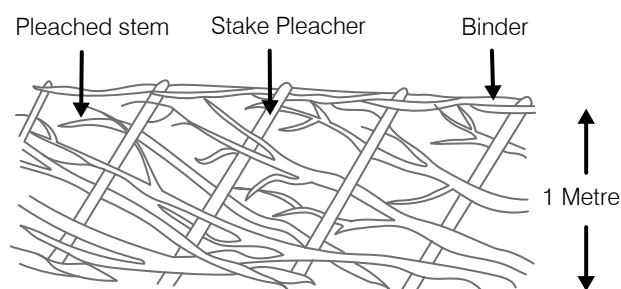
Additional guidance which may be useful in addition to the specifications above:

- Depending on the volume of timber felled you may need to obtain a Felling Licence from Natural Resources Wales.
- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained

and made available on request. See Terms and Conditions for more details.

- If undertaking any spraying as part of this activity ensure you have obtained any consents that may be necessary.
- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Carry out hedge restoration work between dates permitted by Cross Compliance rules.
- Restricting the hedge restoration dates further to between November and March will be even more beneficial to wildlife such as dormice.
- Stems for laying should be about 5cm – 10cm thick at the base, and 2.5m – 3.5m in height. Beyond this stage coppicing should be considered as a more suitable alternative.
- An additional 1 metre at the base between hedge and fence (on top of the minimum 3 metre width) will create additional wildlife habitat.
- If planting any gaps, using the widest selection of species available will provide a greater selection of food sources for wildlife.
- Aim to lay hedges in the winter months between November and March.
- Whenever possible follow local traditional methods and customs.
- In the interest of biodiversity, remove only as much elder as is necessary and cut back any bramble, briar or other climbing growth where this impedes laying operations.
- Hedge laying should aim to be upslope and in the same direction wherever possible.
- Maintain existing ash trees where possible.
- Retain all large mature trees where undertaking hedgerow renovation work, as these can provide roosting sites for bats.
- Where work is required to a tree that has been identified as a bat roost (either because bats are known to be present or where positive signs of bat use have been found), a Habitats Regulations licence from Natural Resources Wales must be obtained.

Example of the 'stake and pleach' style of hedge laying



914 Pond Restoration

This technical note describes the minimum standard of work required in order to receive payments for 'Pond Restoration'. Any variation must be approved by the Welsh Government prior to starting the work.

Ponds and other small water bodies are important for freshwater biodiversity and storing water. Areas with large numbers of ponds can be particularly important because they provide habitats for a wider range of plants and animals.

Ponds are particularly vulnerable to nutrient enrichment, siltation and domination by invasive plants. Causes of this include nutrient-rich runoff from fields and farmyards, high stock densities causing overgrazing and poaching of margins, feeding of waterfowl and stocking with fish. Invasive species may spread naturally or by deliberate or accidental introduction.

There are many different kinds of 'good' pond and you should not try to make all ponds on your farm look the same. A range of different

sorts of ponds provide the widest range of habitats and can support some of our most threatened animals and plants. If you have more than one pond, managing vegetation and silt on a staggered rotation of about 10 years will provide a range of different habitats.

Nevertheless, there are some general rules.

Good ponds tend to have:

- Extensive areas of shallow water.
- Not too many fish or water birds.
- Clear water.
- A range of different water plants with no invasive species.
- Lightly grazed margins with no more than about half the pond shaded.

Ponds do not need to contain water all year, and some rare animals and plants need temporary ponds where predators cannot survive. However, water levels must be allowed to vary naturally, but the pond should contain water for at least 6 months per year.

Do not introduce animals or plants to your pond, especially from a garden pond, or a garden centre. Native pond species are good dispersers, and will arrive in healthy ponds by themselves.

The following types of pond are not suitable for this Glastir pond restoration option:

- A significant inflow or outflow 1m or more wide. This is because water courses often carry silt and/or pollutants.
- Significant water quality problems that cannot be addressed by the restoration measures of this option. If there is serious pollution, disposal of material can be problematic and restoration is much less likely to be effective.
- Constructed wetlands or other traps for dirty water. These ponds are designed to trap pollution.
- Ponds with large numbers of fish or ducks make poor habitat for wildlife due to heavy predation.

- Ornamental ponds or ponds with non-native invasive species. These ponds make poor habitat for wildlife and restoration activities may encourage spread of invasive animals and plants.

You must adhere to the following:

- Maintain a buffer strip of long vegetation between the pond and any upslope intensively managed land.
- Ensure you have prevented any sources of pollution and nutrients from reaching the pond including any run offs that may contain fertilisers, slurries, manures, silage effluent or other nutrients.
- Remove any scrap, redundant fencing or any other rubbish such as plastic wrap.
- Spread any removed silt on adjacent land in compliance with waste exemption U10 and waste exemption D1.
- Exclude all stock from accessing the pond by ensuring there is at least 1 metre between the fence and waters edge. Stock access can be permitted to 10% of the pond area.
- Create a mixed pattern of trees and shrubs around the pond by coppicing some scrub to allow more light onto the surface of the water and reducing leaf drop into the pond.

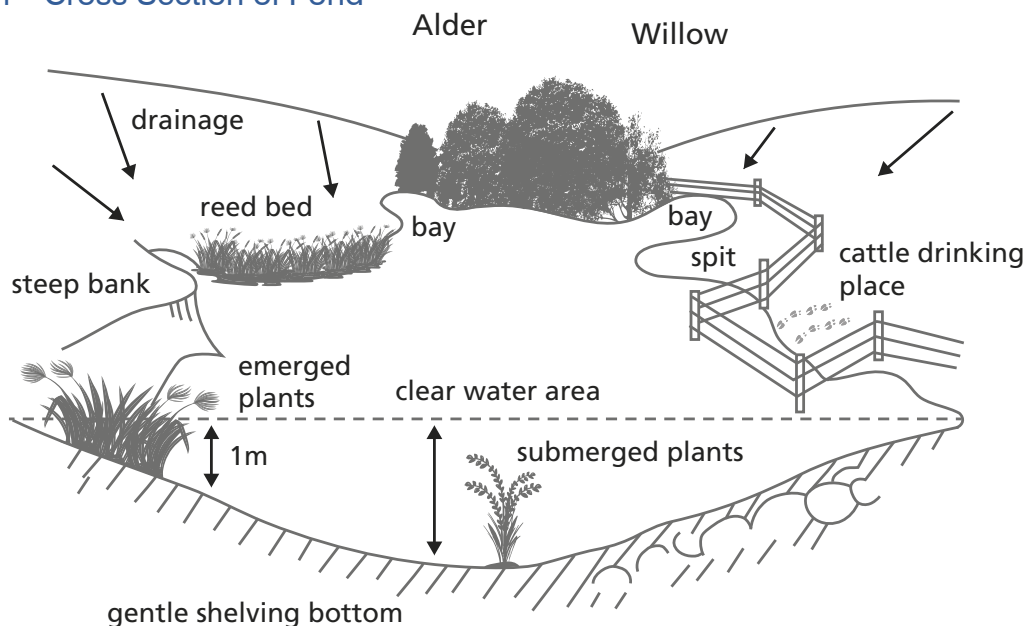
Do not:

- Restore ponds between March and August.
- Dredge more than one third of the surface area of a pond at any time.
- Allow dredged silt to run back into the pond. Dredged material must be spread down slope from the pond, but not where it may run into adjacent watercourses.
- Create islands in the pond.
- Allow stock drinking access for more than 10% of the pond.
- Remove any old trees from around the pond as they may contain bird nesting sites, bat roosts and rare mosses and lichens.

Additional guidance which may be useful in addition to the specifications above:

- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.
- Ensure that you apply for a European Protected Species licence from Natural Resources Wales (NRW) if you have Great Crested Newts in or close to the pond. This should not normally prevent restoration works since these will generally be beneficial to newts, but it is important to include sufficient time for the application process.
- **This Glastir project includes dredging a maximum of one third of the pond.** The remaining two thirds should be dredged in rotation in future years, but this is not included within this Glastir project. This ensures that invertebrate populations are not totally removed.
- Do not damage ponds that are considered existing habitat such as reed beds, fens or ponds on unenclosed land. It may be possible to obtain grants for pond restoration on existing habitat but this will require further discussion and/or consultation with Natural Resources Wales to ensure that no damage is being done to a Section 7 Habitat or Species, protected species or feature of a Protected Site.
- To minimise impacts on wildlife, restore ponds between September and January. Aim to do work in dry weather when pond levels are low and machinery will run less risk of poaching the soil.
- Removing silt from the pond is appropriate when:
 - No submerged aquatic plants can be seen, either because the water is very turbid or because the bed is clearly covered by a deep, loose layer of silt or leaf litter.
 - The sediment is completely black and smells of rotten eggs, and large bubbles of gas can be seen bubbling up occasionally.
- If removing from the pond, scrape out loose sediment until a firmer layer such as clay, marl or other firmer sediment is reached. Take care not to break the natural seal of the pond bed.
- Do not create artificial islands as they encourage gulls and waterfowl, resulting in poor water quality.
- If there is a danger of leaching from adjacent intensively managed fields, consider establishing a strip of long vegetation adjacent to the pond which can act as a buffer strip.
- The Million Ponds website also has useful information regarding restoring ponds for other protected species such as Great Crested Newts and Water Vole:
 - <https://freshwaterhabitats.org.uk/projects/million-ponds/>
- More information on ghost ponds can be found at
 - <http://ghostponds.wordpress.com/>
- More information on waste exemption U10
 - (<https://www.gov.uk/guidance/wasteexemption-u10-spreading-waste-to-benefitagricultural-land>)
- More information on waste exemption
 - (<https://www.gov.uk/guidance/wasteexemptions-disposing-of-waste>) D1 and registering waste exemptions.

Diagram – Cross Section of Pond



922 New Hedge Planting for Pollinators

This technical note describes the minimum standard of work required in order to receive payments for 'New Hedge Planting'. Any variation must be approved by the Welsh Government prior to starting the work.

You must adhere to the following:

- Plant native trees and shrubs in a mix of at least three hedging species. At least 90% of the planting mix must comprise of the following species; blackthorn, hawthorn, crab apple, wild plum or wild cherry. No one component of the mix should comprise more than 75% of the total.
- Plant hedge plants that are at least 45-60cm high which should have a strong leader shoot.
- Plant new hedgerows at a density of 7 plants per metre in a staggered double row, with 20cm between each row.
- Prevent new plants from being killed by shading out from excessive weed growth.
- Protect newly planted hedges from livestock.
- Replace any dead plants.

- Ensure there is at least 1m between new planting and protective fencing.
- Ensure that the hedge is able to grow to a 3m width. There must be a gap of at least 3m between double fences.

Do not:

- Plant any ash trees as part of any planting mix due to ash dieback disease (*chalara fraxinea*).
- Cause damage to any existing historic hedge banks during ground preparation, planting or fencing.
- Use trees and shrubs as strainers or fencing posts, or use them to support fencing wire, staples or netting.

Additional guidance which may be useful in addition to the specifications above:

- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.

- If undertaking any spraying as part of this activity ensure you have obtained any consents that may be necessary.
- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Ensure the best chances of survival, by planting new hedgerow plants in the winter months from November to March. Keep root balls damp during planting, and water liberally in dry spells until established.
- Select plants with well-developed root systems. Plants which are 3–4 years old are recommended.
- Prepare the ground for planting by either rotovating, ploughing or digging over during the previous summer. Avoid damaging historic banks during ground preparation by digging manually.
- You may incorporate some well-rotted manure if planting hedge plants on poor soils.
- Plant locally common native species where possible. Plants should be derived from locally collected seeds or cuttings if possible as these are likely to survive better and support more species of native wildlife.
- Control weeds by using a mulch of wood chippings or by securely pegging down a 500-gauge black polythene sheet, 1-2m wide at the base of the transplants. Chemical control of grasses, thistles, docks and ragwort may be undertaken. Any chemical used must have a label recommendation for use on the listed species and for the intended method of application. All manufacturers label recommendations regarding application of the herbicide must be strictly adhered to.
- Encourage new growth by trimming the transplant back.
- Establish at least 1–2 hedgerow trees per 100m. Either plant new saplings (at least 1m tall), or identify existing plants that can develop into trees. It is sensible to tag the tree to avoid accidental damage when hedge trimming. Choose native tree species that grow well in local hedges, as they will contribute to an attractive landscape and can increase the wildlife value of the hedge.
- Spiral guards can be used to protect the hedge from rabbits, although in certain areas rabbit fencing may be a more effective deterrent.

923 Dry Stone Wall Restoration

This technical note describes the minimum standard of work required in order to receive payments for 'Dry Stone Wall Restoration'. Any variation from the standards set out must be approved by the Welsh Government prior to starting the work.

Dry stone walls are an important landscape feature which can be an important record of historical land use, as well as important features for biodiversity and stock shelter. Dry stone walls may not follow straight lines, a factor that contributes to both their landscape and historic importance. Vehicle damage, theft and rubbing by livestock can all cause damage to the wall.

You must adhere to the following:

- Restore degraded dry stone walls so that the height and the line of the restored wall follow that of the existing feature.
Best practice guidelines for restoring dry stone walls are described below:
- All stone used to restore dry stone walls must match the stones in existing features.
- Retain and/or rebuild all stone stiles, sheep creeks, culverts and other traditional features.

- All surplus stone and earth should be removed from site on completion and the adjacent ground returned to the original vegetation.

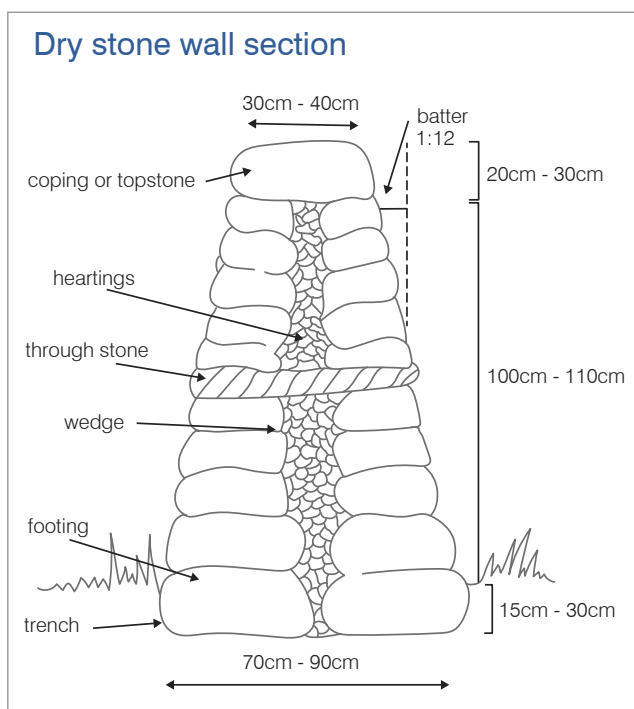
Additional guidance which may be useful in addition to the specifications above:

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Local stone should be used wherever possible, but do not raid stone from inappropriate places such as ruins or other walls. Imported stone should be of local provenance where possible.
- Decide if top wiring is to be incorporated before wall restoration commences.
- **Footings/foundations** – the first layer of large stones at the base. Footings should consist of two rows of the largest stones available laid in a trench 15cm to 30cm deep. In very soft conditions a deeper foundation may be required. The gaps at the centre of the footings should be packed with irregular stones. The footings should be about 7.5cm wider than the base of the wall. When rebuilding a wall the old footings must be carefully checked and replaced if they are insecure, out of line, tilted, or if the stone has crumbled.
- **Batter** – the inward taper of the wall from base to top. The wall should taper evenly on both sides to the top. The amount of batter may depend on the type of stock grazing next to the wall. For a 1.3m high wall, the base should be 70cm to 90cm wide, tapering to a width of 30cm to 40cm under the coping, depending on the size and type of stone of local style.
- **Face stones** – Walls should be built with two even faces which follow the batter. Face stones should be placed with the following rules in mind:
 - use the largest stones at the bottom, grading to the smallest at the top
 - build in even courses (unless style of building is not coursed)
 - place stones with their longest dimension running into the wall
 - each gap between stones must be securely covered by a stone in the next course so that there are no vertical breaks in the wall
 - stones must not slope into the wall
 - the face must be even with no stones protruding from the wall except ‘through stones’
 - stones must be laid horizontally along the line of the wall even when walling on a slope
 - wedges (small stones to secure larger stones) must only be placed on the inside and not the face of the wall.
- **Hearting** – small stones used as filling and packing. Gaps in the middle of the wall between face stones must be packed with smaller, irregular stones. Soil and other fine material must not be used as it will wash out. Each course must be hearted before starting the next.
- **Through stones** – heavy, large stones placed at intervals to tie the sides together. Ideally two rows of ‘through stones’ should be placed at 45cm and 90cm above ground level with 100cm between adjacent ‘through stones’ for a 1.3m high wall. If there is insufficient suitable stone a single row of ‘through stones’ should be placed at between 60cm and 75cm above ground level. The ‘through stones’ must be at least the full width of the wall and may protrude a few centimetres from the wall.

- **Coping** – top stones to give weight and protection. The top of the wall should be built to an even height and properly hearted. Coping stones must be the full width of the wall and should be 20cm to 30cm high. Normally, stones that are wider than the wall should be trimmed but where there is no grazing stock on one side the coping stones may protrude up to 5cm on that side. The coping stones must be carefully placed so that they pack tightly together and provide weight onto every top face stone.
- **Wall heads** – vertical ends to a length of wall. They should be built of alternate courses of ties ('through stones' tying both sides of the wall together) and runners (long stones placed in line with the face). The end coping stone must be large and heavy enough to support the remainder of the coping. There must not be any stones protruding from the wall head which could be rubbed by stock.
- **Building a retaining wall** – Retaining walls are built into the face of a bank to prevent soil moving down slope. Retaining walls should be built in the same way as free standing walls with two faces. The inner face need not be even, as is required for a free standing wall. The inner face should be vertical, with a normal batter on the outer face. Where necessary, provision should be made for drainage.
- **Mortar** – Where walls are to be built next to busy roads, particularly those used by heavy vehicles, it may be necessary to use mortar to stop the wall being damaged by the vibration. In such situations, the hearting throughout the wall and the coping stones could be mortared, leaving an external appearance of a dry stone wall. Where coping stones are likely to be dislodged because of people climbing the wall (e.g. next to a picnic site) the coping stones can be mortared.

This should not be done for at least one year after a wall is built to allow it to settle.

- **Top wiring** – Wooden posts can be set into the wall to support a line of barbed along the length of the wall to prevent stock climbing the wall and causing damage.
- The finished wall must be solid with tight facing stones, on impact there should be no movement of the wall or heartings.



924 Earth Bank Restoration

This technical note describes the minimum standard of work required in order to receive payments for 'Earth Bank Restoration'. Any variation from the standards set out must be approved by the Welsh Government prior to starting the work.

Earth banks are an important landscape feature which can be an important record of historical land use, as well as important features for biodiversity and stock shelter. They may or may not have hedgerows planted on top. Old hedges and banks may not follow straight lines, a factor that contributes to both their landscape and historic importance. Prolonged bad weather, trampling by livestock and burrowing by rabbits can all cause damage to the bank.

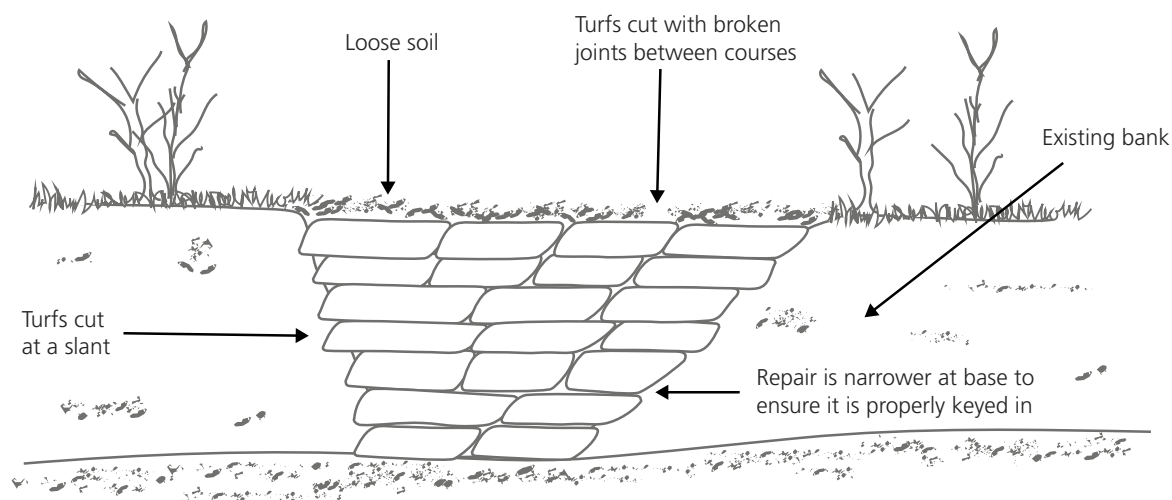
You must adhere to the following:

- Restore degraded earth banks so that the height and the line of the restored bank follow that of the existing feature. Best practice guidelines for restoring earth banks are described below.
- Ensure that grazing animals do not damage restored banks.
- Fill any trenches or pits from which soil has been taken with loose earth or discarded turfs. The area on both sides of the newly restored bank should be left level and tidy.

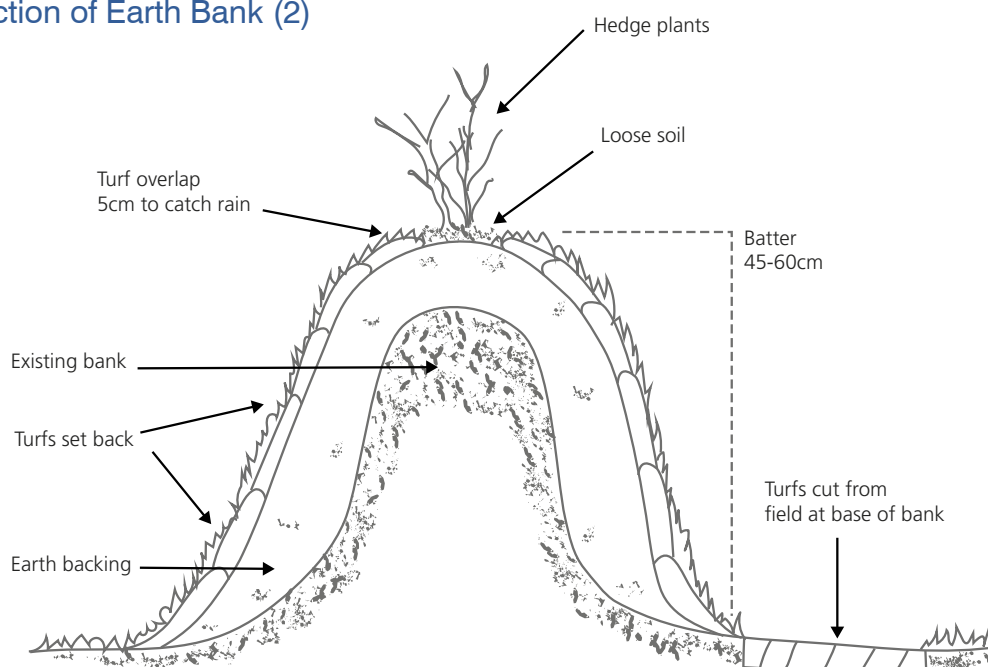
Additional guidance which may be useful in addition to the specifications above:

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Excavate all loose turf and earth from the area to be repaired until a firm foundation is available. Retain loose soil for use during rebuilding. The cleaned area should slope inwards slightly as well as being wider at the top than the bottom (v-shaped or trapezoid in face view), as this will allow the repair work to key into the existing bank on both sides. Tamp down the newly formed foundation with a suitable hand tool to achieve as firm a surface as possible. (See diagram 1).
- Replacement turfs should be cut from the field at the foot of the bank. Smaller turfs are more likely to knit together once they have been placed in their new position. Turfs less than 30cm square are easier to handle and turfs cut on a slant will knit together more easily than those with squared edges (See diagram 1).
- Proper backing for the new turfs must be provided before they are placed in position. Use the previously retained earth together with any loose soil left in the trench, from which the newly cut turfs were removed. Keep the backing well filled and slightly above the level of each course of turfs as they are put in place. The backing should be keyed into the old bank and tamped down firmly to reduce the risk that heavy rain or a severe frost will cause the new work to slip away. (See diagram 2).
- Best practice is to place turfs in a series of layers or courses. Break the joints between alternate courses as in brickwork. Turfs should slope inwards slightly with each turf tamped well down to eliminate as far as possible the visible joints between the courses. Set each course very slightly back from the course below by about 1-2.5cm. Together with the inward slope this will allow for some movement outwards when tamping down, and for rain water to run into the root areas of each turf. (See diagrams 1 & 2).
- Finish with loose soil on the top of the bank, to just above the level of the turf to allow for settlement. The batter (the slope back from the vertical) may be varied according to the site and conditions, but the base of the bank will normally be some 45–60cm wider than the top.
- Infilling any large gaps with well compacted soil before replacing the surface turf will help prevent further erosion taking place. The short turf covering a well-maintained earth bank helps to maintain the shape of the structure.

Face View of Earth Bank (1)



Cross Section of Earth Bank (2)



925 Stone Faced Earth Bank Restoration

This technical note describes the minimum standard required in order to receive payments for 'Stone Faced Earth Banks Restoration'. Any variation from the standards set out must be approved by the Welsh Government prior to starting the work.

Stone faced earth banks are an important landscape feature which can be an important record of historical land use, as well as important features for biodiversity and stock shelter. They may or may not have hedgerows planted on top. Old hedges and

banks may not follow straight lines, a factor that contributes to both their landscape and historic importance. Prolonged bad weather, trampling by livestock and burrowing by rabbits can all cause damage to the stonework and the underlying bank.

You must adhere to the following:

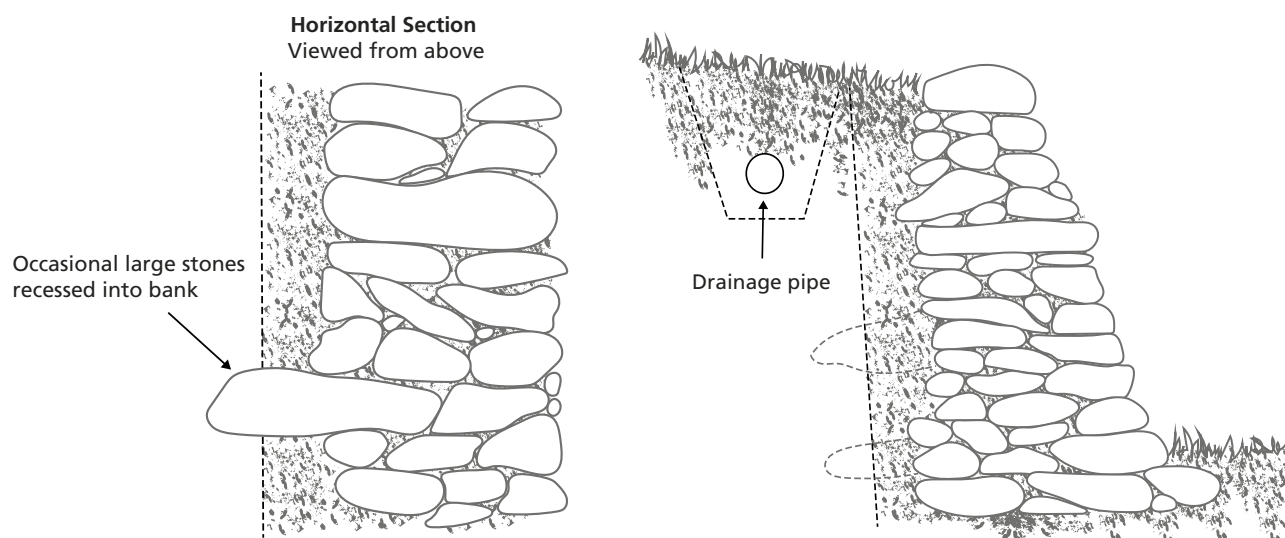
- Restore degraded stone faced banks so that the height and the line of the restored bank follow that of the existing feature. Best practice guidelines for restoring stone faced earth banks are described below.
- Ensure that grazing animals do not damage restored banks.

- All surplus stone and earth should be removed from site on completion and the adjacent ground returned to the original vegetation.

Additional guidance which may be useful in addition to the specifications above:

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Local stone should be used wherever possible, but do not raid stone from inappropriate places such as old ruins or other walls.
- **Footings and Foundations** – Loose stones and earth fill must be cleared out until a good, sound earth bank is encountered. Replace the previously removed stones and earth in stages. During this work the earth infill should be allowed to settle at various stages before completion. This settling process will be sped up if it rains during rebuilding.
- Where complete restoration is specified, all of the stone facings should be removed down to the foundations and rebuilt from this level. Sound foundations or footings will consist of at least one row of the largest stones available, laid in a trench 15–20cm deep. Gaps between footings should be packed with smaller stones. The footings themselves should be at least 7.5cm wider than the base of the wall. (See diagram).
- **Batter** – Batter is the term given to the inward taper of the wall from the base to the top. If the stone facing is 70–90 cm wide at the base it should be 30–40 cm wide at the top. There must be sufficient batter to ensure a stable wall. The batter can be straight, 'A'-shaped or a concave depending upon the local style.
- **Drainage** – Where surface water run off is liable to endanger the stability of the wall, a 40–60cm deep drain should be installed as shown in the diagram. Pipes should be laid in the trench bottom before refilling with loose stone.
- **Mortar** – Where stone faced earth banks are built next to busy roads or picnic sites, it may be necessary to use lime mortar in places, especially between the coping stones on the top. Mortar should not be used throughout the structure as this can cause drainage problems. The external appearance should be of a dry stone wall.
- Once restored, stone-faced earth banks must be regularly maintained to prevent deterioration.

Stone Faced Earth Banks



926 Slate Fence Restoration

This technical note describes the minimum standard of work required in order to receive payments for 'Slate Fencing Restoration of Existing'. Any variation from the standards set out must be approved by the Welsh Government prior to starting the work.

Slate fences are a feature in the landscape in areas where the slate has been quarried commercially, notably at Nantlle, Waunfawr, Llanberis and Bethesda in North Wales.

You must adhere to the following:

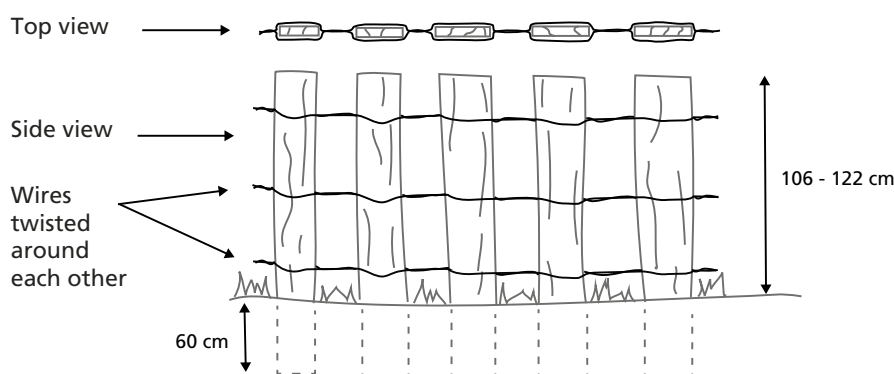
- Restore existing slate fences only.
- Restore the fence so that there are at least three vertical slates per metre run.
- Set slates into the ground to a sufficient depth to ensure stability.
- Ensure that the top of the slates are at least 106cm from the ground.

- Wire individual slates together by drilling the slates and using at least 3 lines of wire (top, middle and bottom of the slate fence). Two wires should be used on each line and loops twisted around the slates, as shown in the diagram below. Where slates are spaced more widely, the individual slates should be drilled and the wire strained as in a standard post and wire fence using wooden straining posts.
- All slate used to restore slate fences must match the slates in existing features.

Additional guidance which may be useful in addition to the specifications above:

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- Best practice is to set slates at least 60cm into the ground to ensure stability.

Example diagram of a slate fence



929 Fruit Trees Plus Guard and Stake

This technical note describes the minimum standard of work required in order to receive payments for planting 'Fruit Trees with a Guard and Stake'. Any variation must be approved by the Welsh Government prior to starting the work.

In the past, nearly every farm would have grown varieties of fruit for domestic use and for marketing locally. As the trees aged, they were not replaced; the few surviving examples are a distinctive feature in the countryside and often have a high wildlife value. The retention of old fruit trees should take priority over re-planting, as old trees are important for their biodiversity value and can be pruned to prolong their life.

You must adhere to the following:

- Use either M25 or MM111 rootstocks to give a traditional 'standard' size tree at maturity.
- Plant trees at a maximum density of 100 trees per hectare and space the trees throughout the area to be planted.
- Stake young trees and protect from grazing livestock by using a guard.
- All guards constructed from timber rails must be at least 1.2m high and set at least 1m from the tree to protect against sheep (or 1.5m to protect against cattle and horses). Each of the 4 corner posts should have a minimum diameter of 10cm x 10cm. At least 4 wooden rails with a minimum diameter of 10cm x 5cm should be fixed to the outside of the posts. Galvanised stock netting should then be fixed around the outside of the structure and held in place with galvanised staples.
- Triangular shaped enclosures are only acceptable where sheep are the sole livestock. Such enclosures must be at least 1.2m high and set at least 1m from the tree to protect against sheep. It is important to remember that as the tree grows it may be necessary to widen the guard.
- Use fencing timber comprising either hardwood or pressure treated softwood.
- Ensure that timbers, wire, netting and galvanised staples consist of new materials.

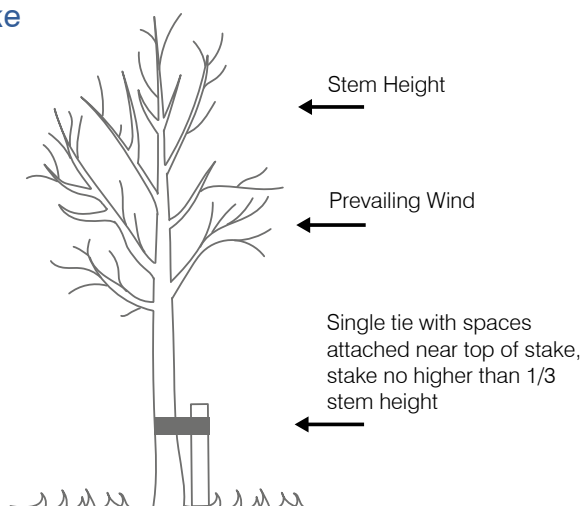
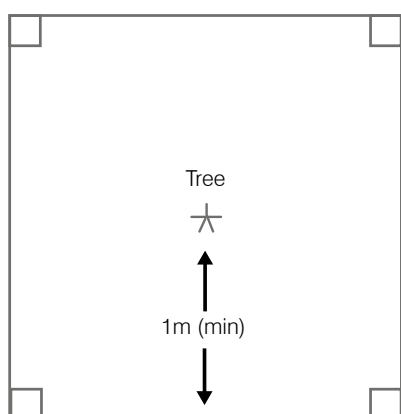
Do not:

- Use dwarfing rootstocks.

Additional guidance which may be useful in addition to the specifications above:

- Plant a selection of trees including early and late flowering varieties, to assist with pollination and to reduce problems caused by frost or disease. The addition of a small number of plums, damsons or pears, as well as apple trees will add diversity.
- As a guide, trees should not be planted less than 6m apart.
- When constructing the guards, use a combination of vertical posts and horizontal rails to build a rigid structure. Fix wire netting around it to prevent access by livestock. The horizontal rails will prevent the posts from being loosened. A variety of stock might have access over time so the guard must be strong enough to withstand the worst case scenario. Do not try to increase the distance of the top rail from the tree by slanting the posts outwards. This will make it difficult to fix the netting securely in place.
- It is not necessary to top the enclosure with barbed wire, as this is unlikely to stop animals leaning over, and you will make it more difficult to get into the enclosure to tend the tree.
- Additional sets of rails may also be placed mid way up the posts to provide additional strength.

Example of Fruit tree plus guard and stake



Supportive Capital Works

514 Ladder Stile

This technical note describes the minimum standard of work required in order to receive payments for 'Ladder Stile'. Any variation must be approved by the Welsh Government prior to starting the work.

Ladder stiles are used to allow walkers to cross walls and banks.

You must adhere to the following:

- Construct the ladder stile from pressure treated softwood or hardwood.
- Use timber with dimensions no less than those shown in the diagram. The steps can either be rebated into the 'A' frames or supported by extra pieces of timber.
- Secure the stile on both sides by burying the ends of the 'A' frame to a sufficient depth in the ground and anchoring them with stobs as shown.
- Construct a platform at the top of the stile to cross over wide walls or banks if needed.
- Ensure the gate is compliant with BS5709:2006, as amended. The least restrictive furniture must be used as possible e.g. a gate is less restrictive than a stile.

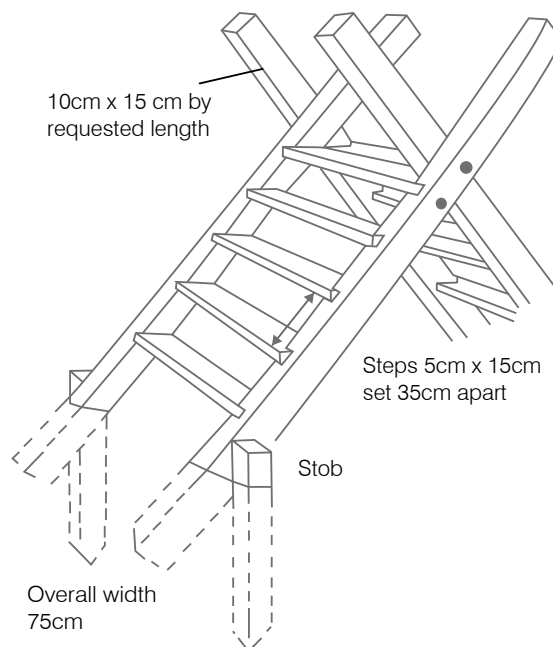
Do not:

- Use ladder stiles on a Public Right of Way (PROW) unless approved by the Welsh Government.
- Use concrete to secure timber supports in the ground.
- Reduce the size of wide walls or banks to enable the ladder to span the boundary. Construct a platform at the top of the stile if needed.

Additional guidance which may be useful in addition to the specifications above:

- Best practice is to bury the ends of the 'A' frame at least 30cm into the ground to anchor the stile.

Example of a step ladder stile



516 Timber Bridle Gate and Posts

This technical note describes the minimum standard of work required in order to receive payments for 'Timber Bridle Gate and Posts'. Any variation must be approved by the Welsh Government prior to starting the work.

Bridle gates are used to allow access for walkers and horse riders.

You must adhere to the following:

- Install Timber Bridle Gates and Posts constructed from either pressure treated softwood or hardwood.
- Install gates that are at least 1.5m wide and 1.3m high. Ensure there is sufficient space on one side of the gate for the horse to stand while the gate is being opened.
- Use a ready made gate, or construct a gate. All gate timbers must meet the following dimensions:
 - Uprights should be at least 10cm x 7.5cm in cross section.

- All rails should be 7.5cm x 2.5cm in cross section except the top rail which should be 10cm x 7.5cm.
- Hang the gate so that it can be opened from both directions.
- Fit latches that allow the gate to be opened without the rider dismounting.
- Ensure that all post timbers must meet the following dimensions:
 - Hanging posts must be at least 15cm diameter.
 - Shutting posts must be at least 12cm in diameter.
 - Posts must be set into the ground to a sufficient depth to ensure stability.

Do not:

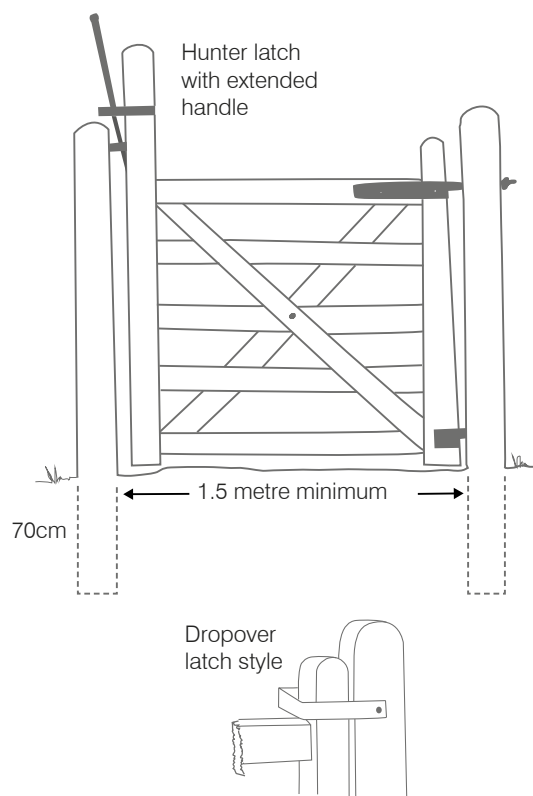
- Install bridle gates and posts on Public Rights of Way (PRoW) unless approved by the Welsh Government.
- Use concrete to secure posts in the ground, as it can lead to rotting of the posts at ground level.

Additional guidance which may be useful in addition to the specifications above:

- Use an 'extended' or a 'drop over' latch to allow the gate to be opened without the rider dismounting.
- In areas prone to vandalism, the top hook can be reversed to prevent the gate being lifted off.

- Best practice is to set the posts at least 70cm into the ground to ensure stability.

Example of a timber bridle gate



517 Timber Kissing Gate and Posts

This technical note describes the minimum standard of work required in order to receive payments for 'Timber Kissing Gate and Posts'. Any variation must be approved by the Welsh Government prior to starting the work.

Kissing gates are used to allow walkers to cross field boundaries.

You must adhere to the following:

- Install Timber Kissing Gates and Posts constructed from either pressure treated softwood or hardwood.
- Install a kissing gate that is stock-proof with the gate in any position, yet allowing free passage for pedestrians.
- Ensure that the kissing gate is an effective barrier against motorcycles and horses.

- Use a ready made gate, or construct a gate. All gates must meet the following dimensions:
 - The gate must be 1.2m wide and 1.2m high.
 - A 1m cylinder, must be able to pass through. Note that the 'throat' dimension (the narrowest space to pass through when the gate is opened) must be at least 1m.
- Ensure that post and rails meet the following dimensions:
 - Uprights should be at least 10cm x 7.5cm in cross section.
 - Rails should be 7.5cm x 2.5cm in cross section except the top rail which should be 10cm x 7.5cm.
 - Hanging posts must be at least 15cm diameter.
 - Shutting posts must be at least 12cm in diameter.
 - Posts must be set into the ground to a sufficient depth to ensure stability.
- Hang the gate so that the gate hooks are 'offset' by 3cm. This will cause the gate to close against one of the side posts when released.
- Ensure the gate is compliant with BS5709:2006, as amended. The least restrictive furniture must be used as possible e.g. a gate is less restrictive than a stile.

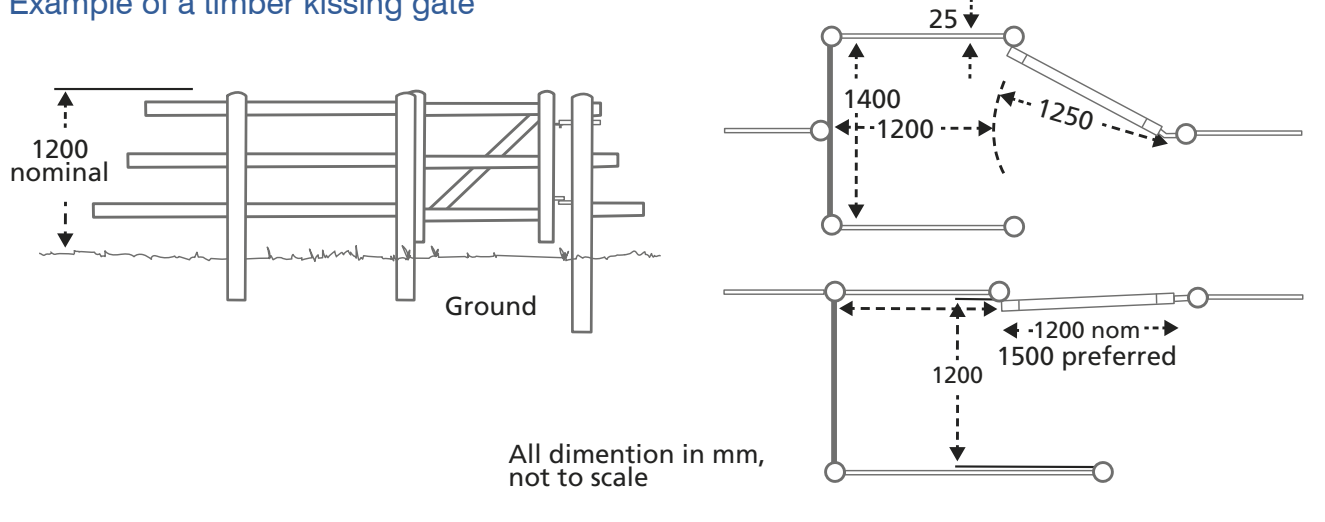
Do not:

- Use concrete to secure posts in the ground, as it can lead to rotting of the posts at ground level.
- Use any barbed wire on the kissing gate.

Additional guidance which may be useful in addition to the specifications above:

- For added protection against stock, a self-closing latch can be fitted.
- In areas prone to vandalism, the top hook can be reversed to prevent the gate being lifted off.
- Best practice is to set the posts at least 70cm into the ground to ensure stability.

Example of a timber kissing gate



519 Wooden Stiles

This technical note describes the minimum standard of work required in order to receive payments for 'Wooden Stiles'. Any variation must be approved by the Welsh Government prior to starting the work.

Wooden stiles are used to allow walkers to cross field boundaries.

You must adhere to the following:

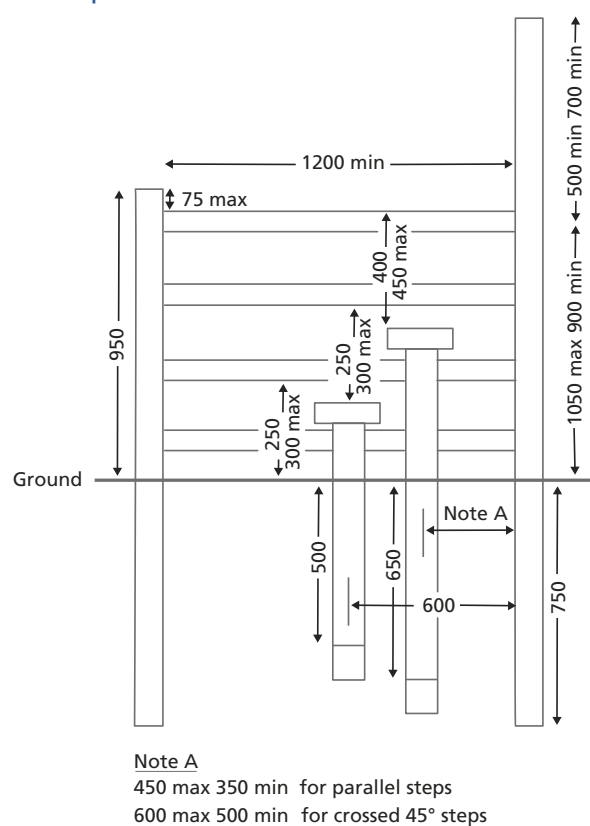
- Install wooden stiles constructed from either pressure treated softwood or hardwood.

- Use a ready made stile kit, or construct a stile. For both narrow and wide stiles, they must meet the following dimensions:
 - Step width should be 200min.
 - Hand posts should be 70 to 100mm diameter or across faces.
 - Posts should be vertical to 1 in 30.
 - Steps should level in all directions to 1 in 30.
- Install a third step on the downhill side on a steep slope if needed. This step must be twice the width of a standard step and the 300mm step height rule applies.
- Ensure the stile is compliant with BS5709:2006, as amended. The least restrictive furniture must be used as possible e.g. a gate is less restrictive than a stile.

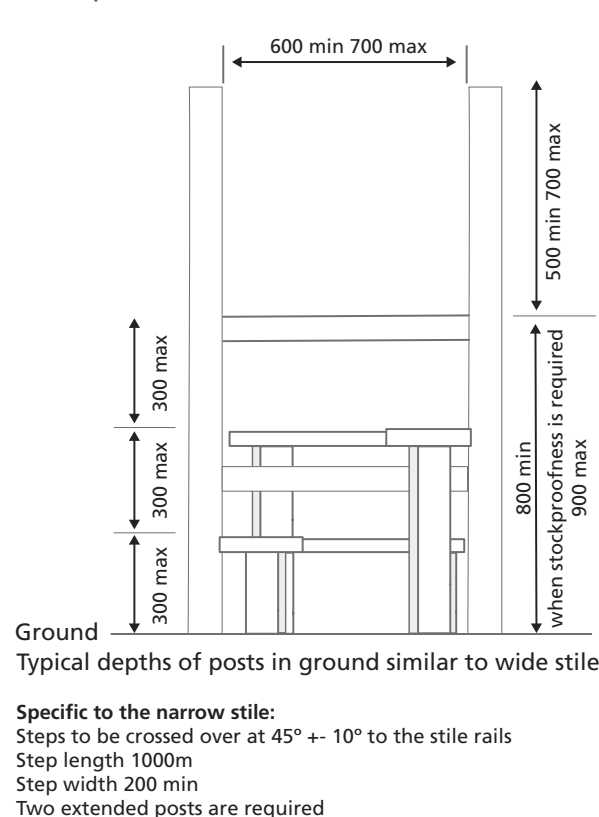
Do not:

- Allow the step tread boards to touch the cross-rails of the stile as a see-saw effect may develop, making the stile unsafe to use.
- Use posts as straining posts for fencing.

Example of wide stile



Example of narrow stile



533 Badger Gate

This technical note describes the minimum standard of work required in order to receive payments for 'Badger Gates'. Any variation must be approved by the Welsh Government prior to starting the work.

Badgers normally follow the same route when moving around their territory. Fencing to manage an area of habitat should take into account established badger runs. Badger gates can be used to allow badgers to cross stock proof boundaries without damaging the fences.

You must adhere to the following:

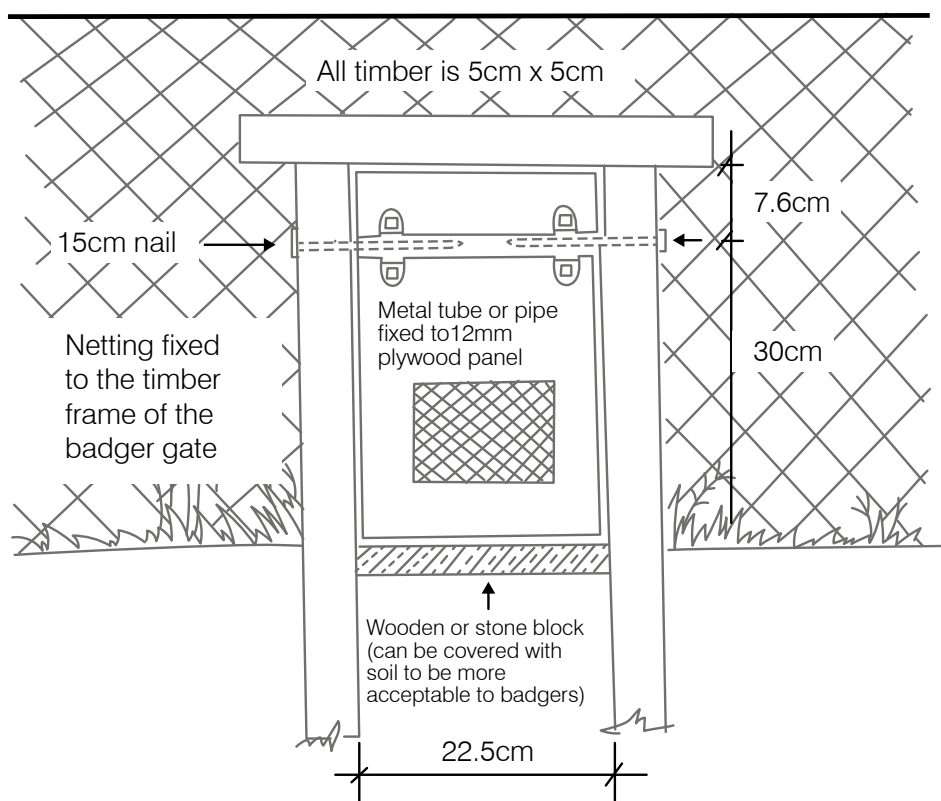
- Install a badger gate using the same dimensions as shown in the diagram below.
- Gates must be located directly on existing badger runs in order to encourage the use of the gate by badgers.
- Bury the fence on either side of the gate to a sufficient depth into the ground to prevent badgers burrowing around the gate.

- Position a wooden or stone base under the gate to prevent erosion of the ground.

Additional guidance which may be useful in addition to the specifications above:

- Best practice is to bury the fence to a depth of at least 15cm either side of the gate.
- Treat all timbers with a non-toxic, odourless preservative.

Example of a badger gate



563 Piped Water Supply

This technical note describes the minimum standard of work required in order to receive payments for 'Piped Water Supply'. Any variation must be approved by the Welsh Government prior to starting the work.

Piping can be used to supply drinking water to water troughs where stock have been prevented from accessing other water sources by Glastir activities.

You must adhere to the following:

- Install piping made from medium density blue polyethylene with a minimum external diameter of 2.5 cm.
- Use watertight joints made of brass or plastic.
- Bury pipework to a sufficient depth to prevent damage from surface activities.
- Reinststate disturbed ground to match the surrounding ground once pipework has been completed.

- Protect any pipework above ground from animal or frost damage.
- Ensure any pipes crossing open ditches or tracks are suitably protected. The pipe must be covered by a tubular steel guard or sleeve pipe, laid sufficiently below the ditch to allow space for ditch cleaning. When crossing farm tracks, ensure the pipe is sufficiently protected below the track.
- Control water supply at the point of supply and at each trough by isolating valves/stop cocks. The isolating valves/stop cocks must be protected against frost and damage from stock, and must be easily accessible. Where valve/stop cocks are buried, this must be at a minimum of 60cm and access should be available through a covered inspection chamber.
- Ensure that the water is able to supply sufficient cold potable water to continuously refill all the water troughs along its length throughout the year within 10 minutes.
- Ensure all water supply works are compliant with British Standards Codes of Practice BS 6572, as amended.
- Bury pipework to a minimum depth of 60cm although this may need to be deeper if future deep ploughing or sub-soiling is envisaged.
- Lay pipes by trenching, mole plough or sub-soiler, depending on soil type and machinery available.
- Best practice when laying pipes under a ditch is that it is laid 60cm below the ditch to allow space for ditch cleaning.
- Best practice when laying pipes under farm tracks is to lay the pipe on a 7.5cm bed of sand and then covered by a further 10cm of sand before being overlaid by backfill.

573 Water Gate

This technical note describes the minimum standard of work required in order to receive payments for 'Water Gate'. Any variation must be approved by the Welsh Government prior to starting the work.

Water gates are required to control stock where fence lines cross rivers and streams. They are especially useful where the water level varies considerably throughout the year.

Do not:

- Damage other services such as water supply, waste, gas, electricity or telephone.

Additional guidance which may be useful in addition to the specifications above:

- Consider combining access to valve positions with field drains to make inspection access easier.
- Consider a range of factors when determining pipe diameter. These include: water pressure, water capacity, variable flow, length of pipe, changes in altitude, volume of water required, number of troughs, number and type of stock using each trough.
- Where joints are buried underground, it is advisable to mark their locations, on fence posts for example, to assist with future maintenance.

You must adhere to the following:

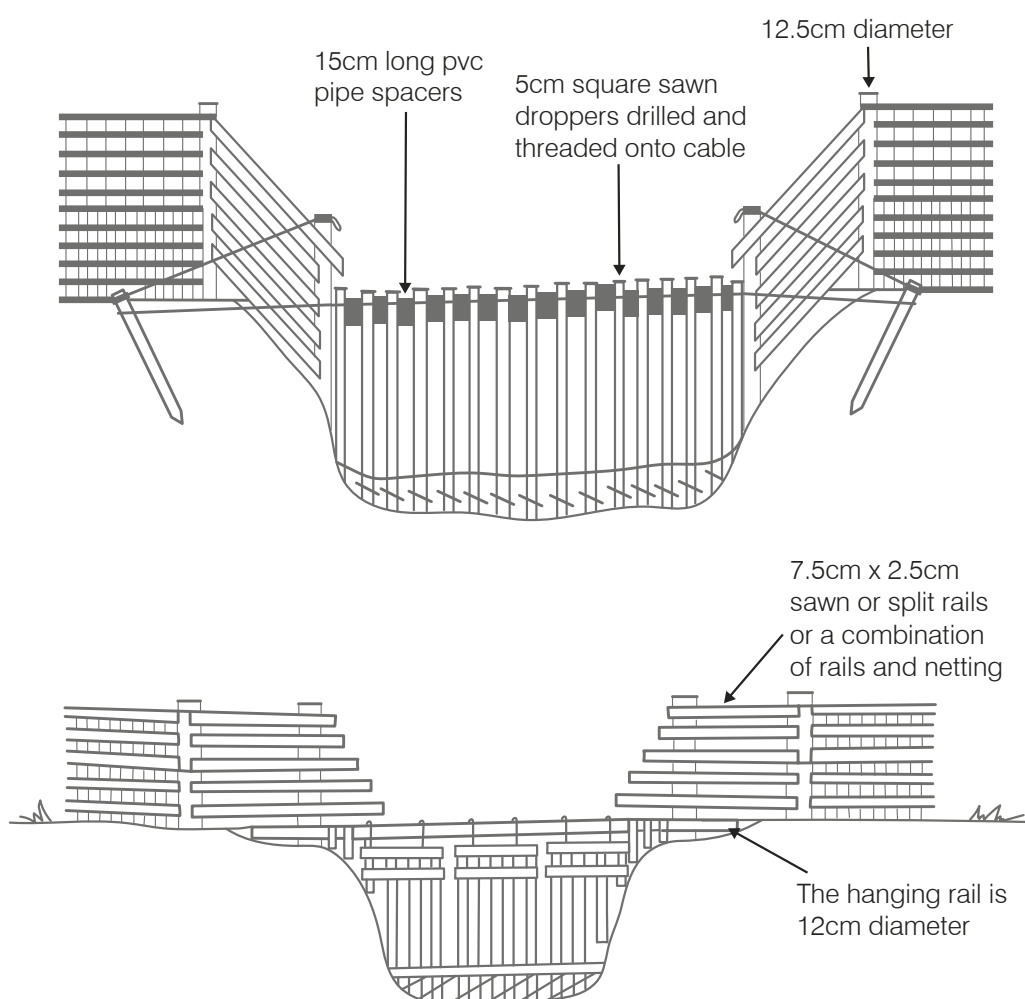
- Construct a gate comprising a series of wooden droppers attached to a length of cable or a round wooden rail which is suspended horizontally between straining posts. Each gate has to be constructed to fit the profile of the individual stream.
- Ensure the water gate is separated from the main fence line by short lengths of wooden rail or netting, fixed to straining posts that have been suitably positioned.
- Attach droppers that are at least 5cm square in cross section. Droppers must be constructed from sawn untreated timbers. The droppers must be drilled and threaded onto the cable of fencing wire with 15cm lengths of plastic pipe acting as spacers. As a result, each dropper is 15cm apart.

- Increase the dimensions of the droppers to at least 7cm square, where the stream gully is over 1.5m deep. Hang droppers on a round wooden pole using loops of fencing wire.

Additional guidance which may be useful in addition to the specifications above:

- Suitable crossing points will have a hard river bottom and reasonable access from both banks. The correct choice of crossing points will make both construction and maintenance easier.
- Hanging the gate separately from the main fence allows the gate to be pulled off during heavy floods without damaging the main fence. Minimum damage will be caused to the gate which can then be recovered, repaired and repositioned.
- It is advisable to create larger water gates in several sections which will reduce the risk of the whole gate being lost or damaged during severe floods.
- It is advisable to periodically clear the base of the water gate, as the accumulation of debris at the base of the water gate will put pressure on both wires and stakes and can result in damage.
- Hang water gates at an angle, with the bottom of the gate resting on the stream bed on the down stream side. This prevents stock passing underneath when the water level drops.

Examples of water gates



574 Water Troughs

This technical note describes the minimum standard of work required in order to receive payments for 'Water Troughs'. Any variation must be approved by the Welsh Government prior to starting the work.

Water troughs can be used to supply drinking water to livestock where they have been prevented from accessing other water sources by Glastir activities.

You must adhere to the following:

- Use water troughs made of galvanised steel, plastic or concrete.
- Install a trough at least 1.8m length. They must either be connected to a water supply or supplied from a bowser on a regular basis, in order to provide sufficient potable water. The standard payment includes the cost of fittings such as ball cocks etc.
- Use water troughs that have been specifically designed for the purpose.

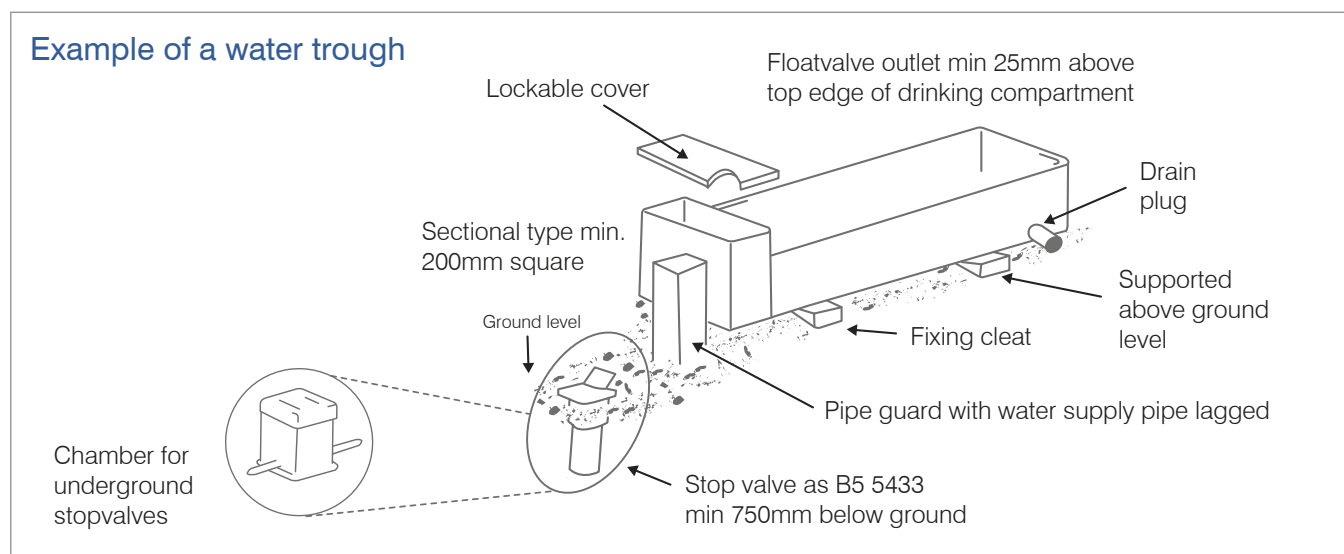
- Install the trough so that it does not spill or leak water – the payment rate includes an allowance for base supports.
- Ensure that water troughs conform to current British Standard Codes of Practice.

Do not:

- Locate water troughs in gateways or near footpaths.
- Locate water troughs in wet ground due to the risk of poaching.

Additional guidance which may be useful in addition to the specifications above:

- Do not locate water troughs in known areas of botanical or wildlife interest.
- Aim to cause least landscape impact by locating the trough at the edge of fields, and choose a material that has the minimum impact when viewed as part of the surrounding landscape.
- Install troughs of sufficient size to supply the type and number of stock in the field with their water requirements.



593 Post and Rail Fencing

This technical note describes the minimum standard of work required in order to receive payments for 'Post and Rail Fencing'. Any variation must be approved by the Welsh Government prior to starting the work.

Post and rail fencing is generally used where appropriate in the landscape, normally in parkland areas or for stock control along water-side features.

You must adhere to the following:

- Use fencing timber comprising either hardwood or pressure treated softwood.

- Use posts that are at least 1.8m in length, and no less than 12.5cm x 7.5cm cross section.
- Use posts that are square or rectangular.
- Install posts at centres not exceeding 2m (normally 1.8m as the standard length of rails is 3.6m).
- Set posts at a sufficient depth into the ground to ensure stability. The face of the post must be square to the fence line. If the tops of the posts are sawn after setting, the cut surfaces must be treated with a suitable preserving fluid of the same colour as the original timber treatment.
- Attach at least three rails of 3.8cm x 8.7cm sawn timber, skew nailed to the posts. Additional rails may be added where necessary.
- Attach rails on the 'stock' side of the posts, to prevent stock pushing rails off posts.
- Alternate joints between rails on the posts, as shown on the diagram.
- Ensure there is at least 1m from the ground to the top of the uppermost rail.

Do not:

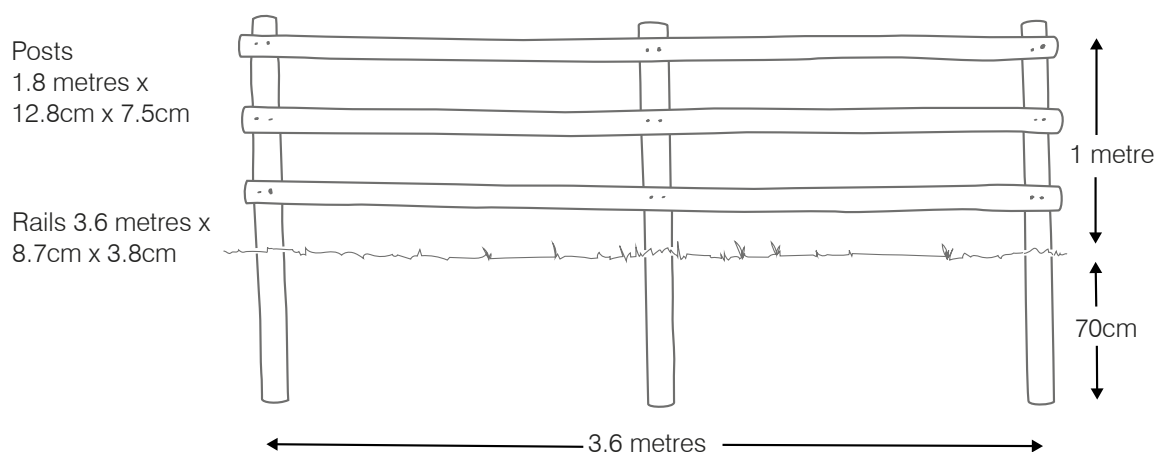
- Use trees and shrubs as strainers or fencing posts, or attach wire, staples or netting to them.

- Use concrete to secure the posts as it promotes rotting of the posts at ground level.

Additional guidance which may be useful in addition to the specifications above:

- Best practice is to set the posts at least 70cm into the ground to ensure stability, and secure the posts with rammed earth and stone.
- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.
- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.

Example of a Post and Rail Fence



Suitable for use with horses and cattle

594 Post and Wire Fencing

This technical note describes the minimum standard of work required in order to receive payments for 'Post and Wire Fencing'. Any variation must be approved by the Welsh Government prior to starting the work.

You must adhere to the following:

- Ensure that you have obtained, and adhere to any licences, consents or permissions that are needed.
- Use fencing timber comprising either hardwood or pressure treated softwood.
- Ensure that timbers, wire, netting and galvanised staples consist of new materials.
- Attach at least three lines of wire made up of either galvanised mild steel wire (4mm gauge) or two ply twisted barbed wire (2.5mm gauge). The top wires of any fencing erected next to public access routes must consist of plain wire or an additional line of plain wire must be affixed to the outside of the posts closest to the route in question.
- Use straining posts that are a minimum of 12.5cm cross section and at least 2m long. Straining posts must be set into the ground at a sufficient depth to ensure stability. Straining posts must be placed at either end of the fence line and at centres of 100m or less, as well as at every horizontal or vertical change of direction.
- Attach struts at each end of the fence line and at all changes of slope and direction. Struts must have a top diameter of at least 6.5cm and must be supported to prevent them splaying outwards.
- Use intermediate posts that are at least 6.5cm diameter (round posts and sawn timber) and at least 1.7m long. Half round posts are acceptable provided they measure at least 6.5cm from the mid point of the sawn side to the mid point of the round side. Intermediate posts must be set at centres of 3m or less.
- Attach wire to posts with galvanised staples.
- Attach the top wire no less than 1.05m from the ground.
- Ensure that the new fencing conforms to British Standards 1722 and 4102, as amended.

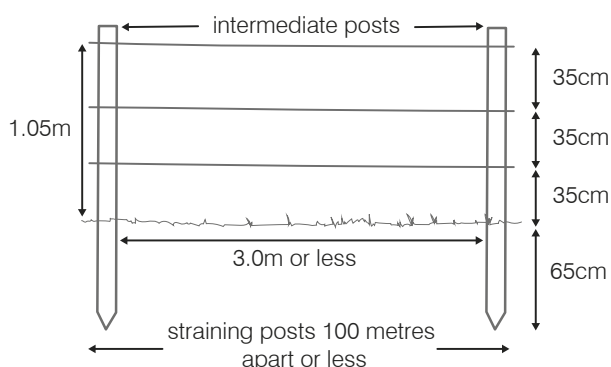
Do not:

- Use trees and shrubs as strainers or fencing posts, or attach wire, staples or netting to them.

Additional guidance which may be useful in addition to the specifications above:

- Best practice is to set the posts at least 1m into the ground to ensure stability.
- Diagonal struts must be supported with either a base plate or a suitably positioned intermediate post to prevent them splaying outwards.
- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.
- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.

Example Diagram of Three Line Wire Fence



595 Post and Wire Fencing with Stock Netting

This technical note describes the minimum standard of work required in order to receive payment for 'Post and Wire Fencing with Stock Netting'. Any variation must be approved by the Welsh Government prior to starting the work.

You must adhere to the following:

- Ensure that you have obtained, and adhere to any licences, consents or permissions that are needed.
- Use fencing timber comprising either hardwood or pressure treated softwood.
- Ensure that timbers, wire, netting and galvanised staples consist of new materials.
- Use straining posts that are a minimum of 12.5cm cross section and at least 2m long. Straining posts must be set into the ground at a sufficient depth to ensure stability. Straining posts must be placed at either end of the fence line and at centres of 100m or less, as well as at every horizontal or vertical change of direction.
- Attach struts at each end of the fence line and at all changes of slope and direction. Struts must have a top diameter of at least 6.5cm and must be supported to prevent them splaying outwards. Use intermediate posts that are at least 6.5cm diameter (round posts and sawn timber) and at least 1.7m long. Half round posts are acceptable

provided they measure at least 6.5cm from the mid point of the sawn side to the mid point of the round side. Intermediate posts must be set at centres of 3m or less.

- Attach netting to posts with galvanised staples.
- Attach wire to posts with galvanised staples with the distance from the ground to the top wire no less than 1.05m. In cases where there is heavy pressure from sheep or cattle, a second line wire on top of the netting as well as an additional wire at the bottom should be added. The top wires of any fencing erected next to public access routes must consist of plain wire or an additional line of plain wire must be affixed to the outside of the posts closest to the route in question.
- Ensure that the new fencing conforms to British Standards 1722 and 4102, as amended.

Do not:

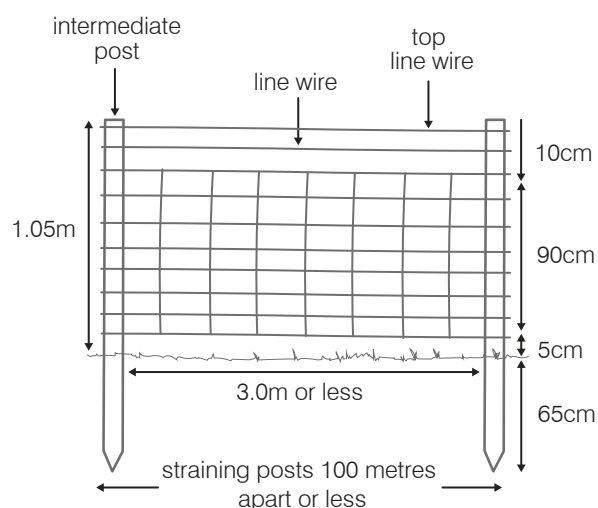
- Use trees and shrubs as strainers or fencing posts, or attach wire, staples or netting to them.

Additional guidance which may be useful in addition to the specifications above:

- Best practice is to set the posts at least 1m into the ground to ensure stability.
- Diagonal struts must be supported with either a base plate or a suitably positioned intermediate post to prevent them splaying outwards.
- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.

Example Diagram of Post and Wire with Stock Netting



596 Rabbit Fencing

This technical note describes the minimum standard of work required in order to receive payments for 'Rabbit Fencing'. Any variation must be approved by the Welsh Government prior to starting the work.

Rabbit fencing can be specifically used to prevent damage to archaeological sites, or to specific landscape features such as newly planted trees and hedgerows.

You must adhere to the following:

- Use fencing timber comprising either hardwood or pressure treated softwood.
- Use straining posts that are a minimum of 12.5cm cross section and at least 2m long. Straining posts must be set into the ground at a sufficient depth to ensure stability. Straining posts must be placed at either end of the fence line and at centres of 100m or less, as well as at every horizontal or vertical change of direction.
- Attach struts at each end of the fence line and at all changes of slope and direction. Struts must have a top diameter of at least 6.5cm and must be supported to prevent them splaying outwards.
- Use intermediate posts that are at least 6.5cm diameter (round posts and sawn timber) and at least 1.7m long. Half round posts are acceptable provided they measure at least 6.5cm from the mid point of the sawn side to the mid point of the round side. Intermediate posts must be set at centres of 3m or less.
- Attach all wire and mesh to posts with galvanised staples.
- Use galvanised wire netting at least 1.05m high, with a mesh no larger than 3cm.
- Ensure the top edge of the netting is at least 0.75m above ground level.
- Ensure that timbers, wire, netting and galvanised staples consist of new materials.
- Ensure that the netting is fastened to the fencing with the bottom edge of the netting buried in the ground to a sufficient depth to prevent rabbits burrowing underneath.
- Fix at least two strands of line wire above the netting and there must be at least 1.05m from ground level to the top wire.
- Ensure any gates used in rabbit fences are appropriately proofed to prevent rabbit/hare access.
- Ensure that the new fence conforms to British Standards 1722 and 4102, as amended.

Do not:

- Use trees and shrubs as strainers or fencing posts, or attach wire, staples or netting to them.

Additional guidance which may be useful in addition to the specifications above:

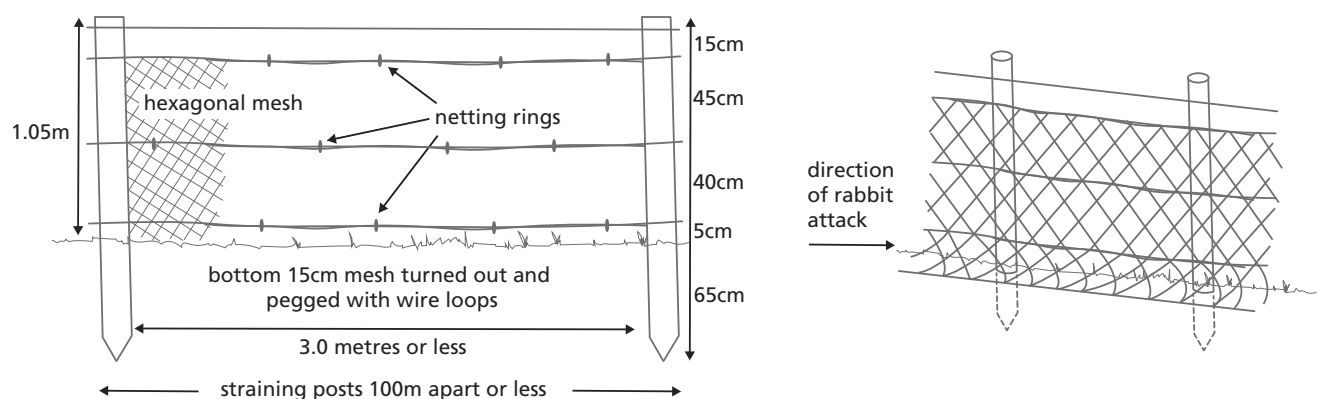
- Best practice is to set the posts at least 1m into the ground to ensure stability.

- Diagonal struts must be supported with either a base plate or a suitably positioned intermediate post to prevent them splaying outwards.
- Prevent rabbits burrowing underneath by ensuring that the netting is buried in the ground to a depth of 15cm and then turned outwards a further 15cm and anchored securely.
- Ensure that you have the appropriate Flood Risk Activity Permit if you are planting or fencing near a main river, flood plain or flood defence structure. Alternatively, ensure you have the

appropriate Ordinary Water Course Consent if you are carrying out works near an ordinary water course. The permit/consent (or confirmation that a permit/consent is not needed) should be retained and made available on request. See Terms and Conditions for more details.

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.

Example of Rabbit Fencing



599 Timber Field Gates (Hardwood)

This technical note describes the minimum standard of work required in order to receive payments for 'Timber Field Gates (Hardwood)'. Any variation must be approved by the Welsh Government prior to starting the work.

You must adhere to the following:

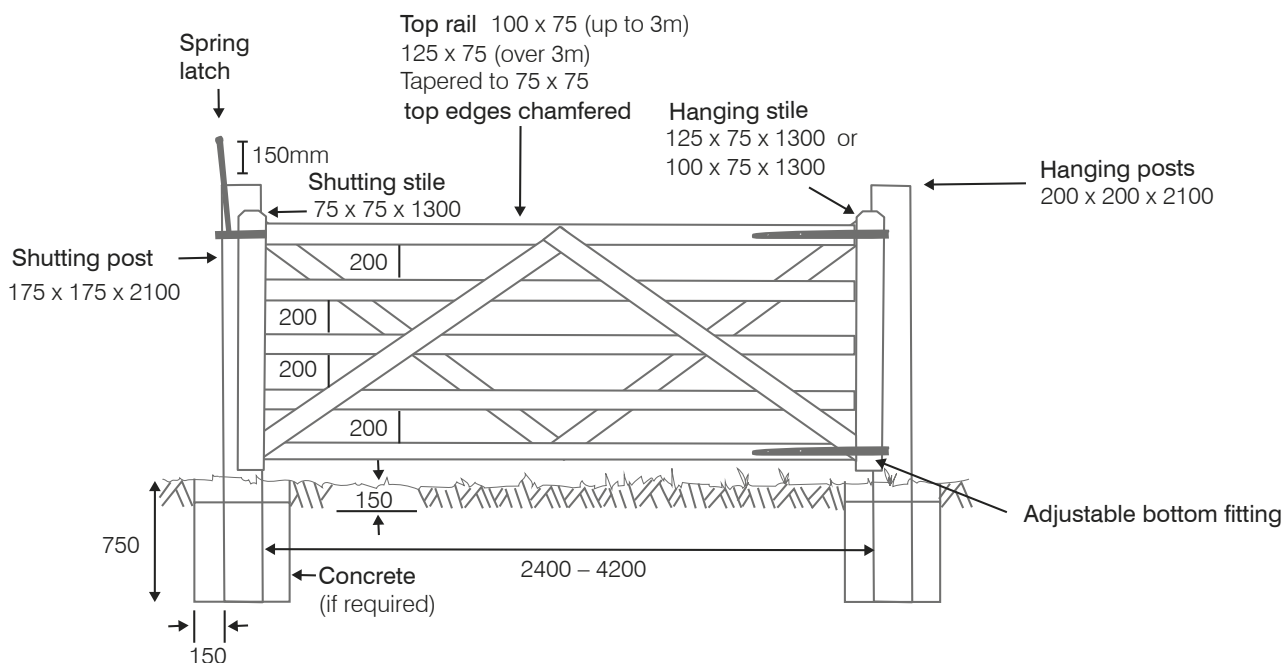
- Install timber field gates that are at least 2.4m wide, but no more than 4.2m wide. Any openings greater than 4.2m must have two leaves.
- Use timber field gates constructed from hardwood only, which complies with the dimensions set out in the diagram below.
- Use timber field gates that conform to the specifications set out in the diagram below as well as those of British Standard 3470, as amended.

- Hang gates on timber gate posts at least 2.1m long. Hanging posts must be at least 200mm x 200mm in cross section. Shutting posts must be at least 175mm x 175mm in cross section.
- Set gateposts correctly into the ground, using concrete if necessary and fit with appropriate hangings and latches.

Do not:

- Use hanging or shutting posts as straining posts for fencing. A short length of split timber should be used to form a horizontal strut between the gate post and adjacent straining post.
- Use second hand material for constructing gates unless approved in advance by the Welsh Government.

Example of Timber Field Gate (Hardwood)



600 Timber Field Gates (Softwood)

This technical note describes the minimum standard of work required in order to receive payments for 'Timber Field Gates (Softwood)'. Any variation must be approved by the Welsh Government prior to starting the work.

You must adhere to the following:

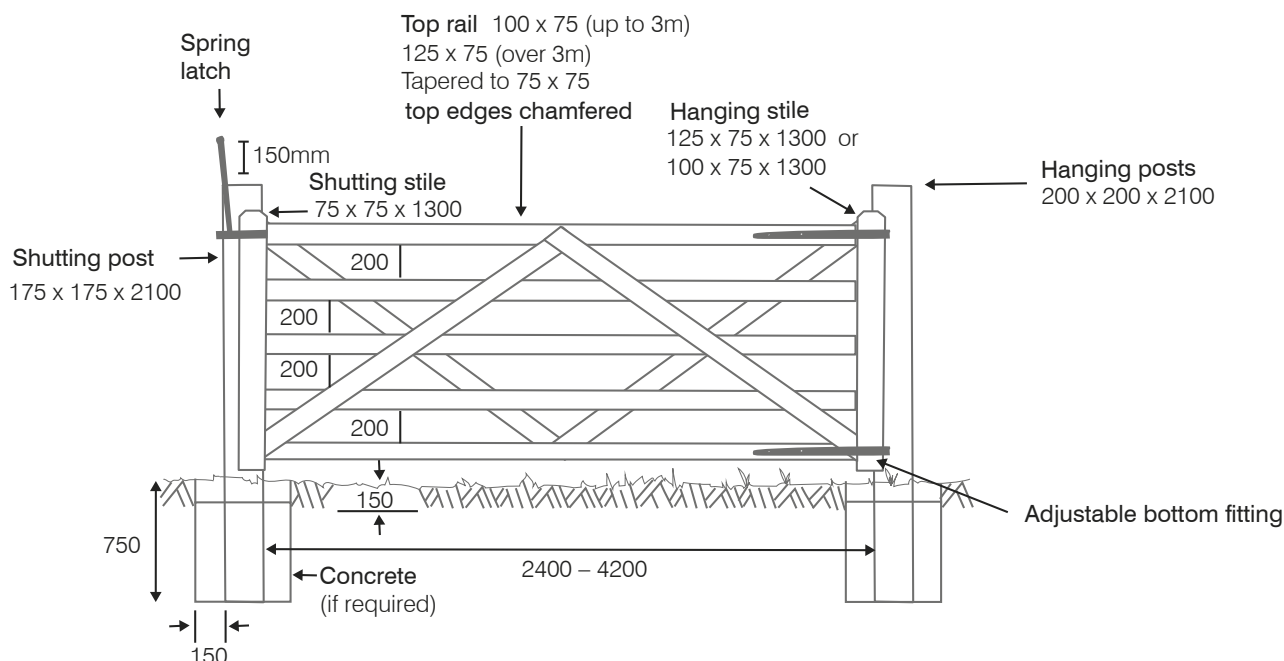
- Install timber field gates that are at least 2.4m wide, but no more than 4.2m wide. Any openings greater than 4.2m must have two leaves.
- Use timber field gates constructed from hardwood or pressure treated softwood, which complies with the dimensions set out in the diagram below.
- Use timber field gates that conform to the specifications set out in the diagram below as well as those of British Standard 3470, as amended.
- Hang gates on timber gate posts at least 2.1m long. Hanging posts must be at least 200mm x 200mm in cross section. Shutting posts must be at least 175mm x 175mm in cross section.

- Set gateposts correctly into the ground, using concrete if necessary and fit with appropriate hangings and latches.

Do not:

- Use hanging posts or shutting posts as straining posts for fencing. A short length of split timber should be used to form a horizontal strut between the gate post and adjacent straining post.
- Use second hand material for constructing gates unless approved in advance by the Welsh Government.

Example of Timber Field Gate (Softwood)



604 Parkland Tree Stock Guards

This technical note describes the minimum standard of work required in order to receive payments for 'Parkland Tree Stock Guards'. Any variation must be approved by the Welsh Government.

You must adhere to the following:

- Install tree guards that are large enough and designed correctly to protect from any livestock that will have access to the land.
- All guards constructed from timber rails must be at least 1.2m high and set at least 1m from the tree to protect against sheep (or 1.5m to protect against cattle and horses). Each of the 4 corner posts should have a minimum diameter of 10cm x 10cm. At least 4 wooden rails with a minimum diameter of 10cm x 5cm should be fixed to the outside of the posts. Galvanised netting should then be fixed around the outside of the structure and held in place with galvanised staples. Triangular shaped enclosures are only acceptable in parklands where sheep are the sole livestock.
- Use fencing timber comprising either hardwood or pressure treated softwood.
- Ensure that timbers, wire, netting and galvanised staples consist of new materials.
- If traditional metal guards are used rather than wooden guards, ensure they are sufficiently sized to protect from all livestock.

Additional guidance which may be useful in addition to the specifications above:

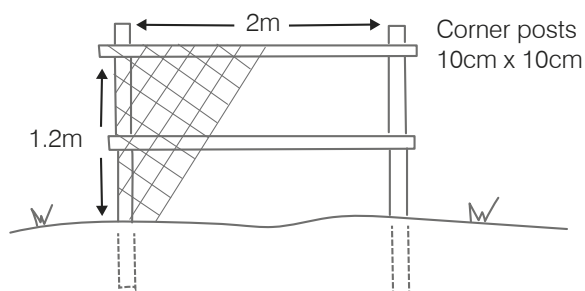
- The choice of tree guard will depend upon:
 - The size of tree to be protected.
 - The type of damage expected, e.g. browsing, bark stripping, fraying.
 - Type of animal most likely to cause damage.
 - Period of time the tree is at risk from damage.
 - The visual appearance of the guard (UKWAS General Forest Practice 24 Consider the impact of fencing on landscape).
- Use a combination of vertical posts and horizontal rails to build a rigid structure. Fix wire netting around it to prevent access by livestock. The horizontal rails will

prevent the posts from being loosened. A variety of stock might have access to the parkland over time so the guard must be strong enough to withstand the worst case scenario. Do not try to increase the distance of the top rail from the tree by slanting the posts outwards. This will make it difficult to fix the netting securely in place.

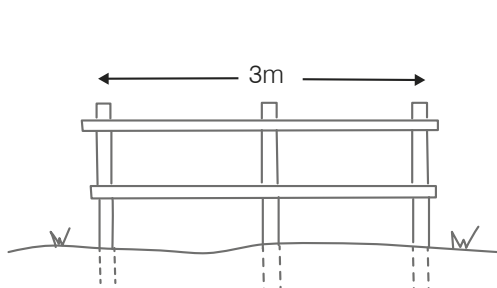
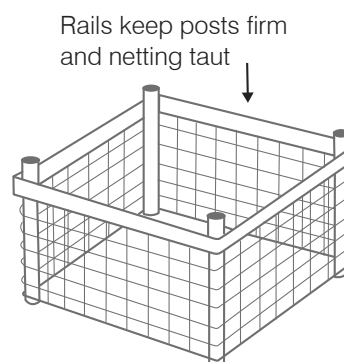
- It is not necessary to top the enclosure with barbed wire as this is unlikely to stop animals leaning over, and you will make it more difficult to get into the enclosure to tend the tree. Barbed wire may also cause injury to both you and your livestock.
- Additional sets of rails may also be placed mid way up the posts to provide additional strength.
- Triangular shaped enclosures are only acceptable in parklands where sheep are the sole livestock. Such enclosures must be at least 1.2m high and set at least 1m from the tree to protect against sheep. It is important to remember that as the tree grows it may be necessary to widen the guard.
- Traditional metal types of guards are used in long established parklands. It is important that they are checked regularly to ensure that the tree does not grow into the metal work and become deformed. Such guards were originally made out of wrought iron but are now available in mild steel.

Examples of Parkland Tree Guards

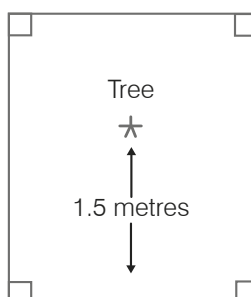
1. Post and Rail Type



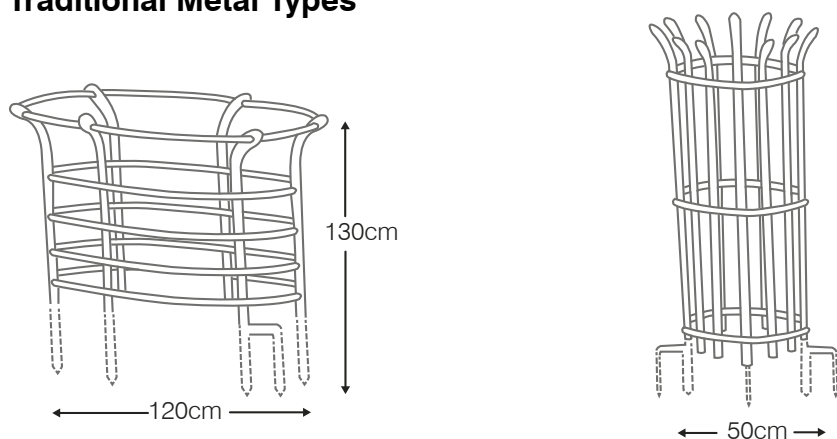
a) Suitable for use with sheep



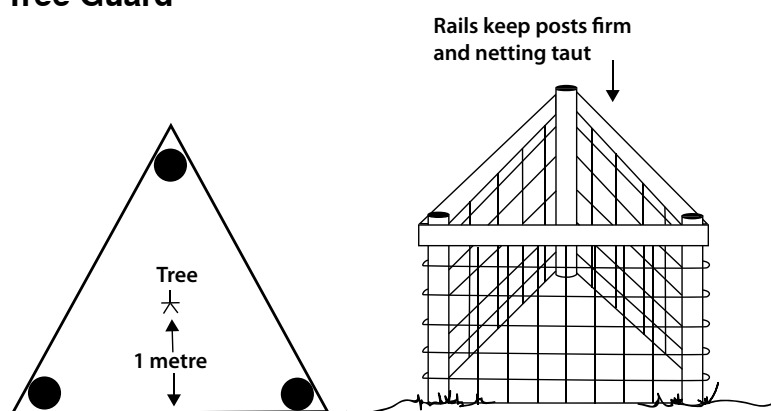
b) Suitable for use with horses and cattle



3. Traditional Metal Types



2. Traditional Tree Guard



608 Tree Shelter (60cm With Stake)

This technical note describes the minimum standard of work required in order to receive payments for 'Tree Shelter (60cm with stake)'. Any variation must be approved by the Welsh Government prior to starting the work.

Newly planted trees and shrubs only need protection where animals or machinery might damage them. Fencing will usually provide more economic protection for groups of trees and shrubs against machinery or large browsing animals, in combination with spiral rabbit guards to protect against rabbits and hares.

Individual tree shelters and stakes can also be used where lengths of fencing would be unsightly, for example in parklands.

You must adhere to the following:

- Insert a stake vertically into the ground next to each newly planted tree. The stake should have a diameter of 2.5cm x 2.5cm on sheltered sites and 3cm x 3cm on more exposed sites.
- Fix all tree shelters to the stake with wire or plastic cable clips.
- Ensure that the stake is no taller than the shelter.

Do not:

- Allow weeds to grow inside the shelters.

Additional guidance which may be useful in addition to the specifications above:

- Tree shelters to protect young trees are translucent plastic tubes up to 2m in height, with a diameter of up to 12cm. They are constructed of twin wall polypropylene.

- Each shelter should provide support and protection for some 5 –10 years before it bio-degrades.
- Although shelters come in a range of colours, there is little difference between them in terms of tree growth. When planting under established trees, where light intensity is likely to be low, it is generally better to use clear translucent tubes.
- Tree shelters need to be above the browse height of the animal. This can vary from 60cm for rabbits and hares, to 2m for Roe deer. Sheep can browse at 1.2m-1.5m high.
- The removal of weeds around trees and in shelters is crucial as the weeds can compete for nutrients and light. Trees in tree shelters must be weeded for the first 2-3 years of life. Weeds growing inside the tree shelter must also be removed. This can be done by lifting the shelter slightly and carefully pulling the weeds out from the tube by hand.
- Any plants that have been loosened or partly lifted by winds and winter frosts should be trodden back in carefully. Regularly inspect fencing, tree guards, stakes and tree ties (loosen tight ties as these will constrict tree growth) and prevent trees growing through or chafing against tree guards.

647 Spiral Rabbit Guards

This technical note describes the minimum standard of work required in order to receive payments for 'Spiral Rabbit Guards'. Any variation must be approved by the Welsh Government prior to starting the work.

Spiral rabbit guards are the most widely used form of tree protection against rabbits and voles.

You must adhere to the following:

- Ensure each spiral rabbit guard is supported by a bamboo cane.

Do not:

- Use guards that are taller than the tree it is to protect at the time of planting.

Additional guidance which may be useful in addition to the specifications above:

- Spiral rabbit guards are made from a plastic material and are available in three sizes, (45cm, 60cm and 75cm).
- Ideally the bamboo cane should be pushed into the ground next to the newly planted tree. The guard is then wound or spiralled around both tree and cane so that small mammals are excluded.

905 Bramble/Scrub Control – Hand Knapsack Spraying

This technical note describes the minimum standard of work required in order to receive payments for control of 'Bramble/Scrub Control – Hand Knapsack Spraying'. Any variation must be approved by the Welsh Government prior to starting the work.

Bramble is a successful and invasive native species. It can produce dense thickets and can have a negative impact on other vegetation. Bramble will prevent new trees from establishing, so will have to be cleared before tree planting takes place.

You must adhere to the following:

- Treat a sufficient area of bramble to allow tree planting to be carried out and the trees to establish unhindered by bramble.
- Ensure you use a glyphosate product suitable for your specific use and method of application. Product labels should be retained and made available on request.

Additional guidance which may be useful in addition to the specifications above:

- Use a knapsack to control vegetation higher than waist height, or for clearing large areas. It will be tiring to keep the boom above the bramble and coverage will be impaired.

- Use any other chemical other than glyphosate. All manufacturers label recommendations regarding herbicide application should be strictly adhered to.
- More useful information may be found at the following locations:

The 'Green Code' (Approved Code of Practice for the Safe Use of Pesticides on Farms and Holdings, MAFF, 1998)

UKFS Guidelines: General Forest Practice
www.forestry.gov.uk/ukfs

Use of Herbicides

In all cases the herbicide used must have a label recommendation for your intended use, and for the intended method of application.

919 Bracken Control (Hand Knapsack Sprayer)

This technical note describes the minimum standard of work required in order to receive payments for 'Bracken control (Hand Knapsack Sprayer)'. Any variation must be approved by the Welsh Government prior to starting the work.

Bracken is a vigorous perennial fern which grows from an underground rhizome system. Above ground, bracken fronds are fully open from about mid June to August and it is at this time that the plants have deployed most of their nutrient reserves. This option is available to clear areas of bracken so that ground flora can develop or to allow new trees and hedgerows to be established.

Note regarding the ban on Asulam – the active ingredient of Asulox products:

The ban of 'Asulam' came into affect on 31 December 2011. After this date it is illegal to apply or store products containing Asulam unless Emergency Authorisation has been obtained. Any Bracken Control work included in the Glastir contract can only be claimed if Emergency Authorisation has been granted by the relevant authority.

Emergency Authorisation has been granted for the 2017 season.

Note regarding the use of Asulam in proximity to watercourses, and designated sites:

There is a statutory obligation on land managers to obtain consent from Natural Resources Wales (NRW) for the use of herbicides/pesticides in any of the four following scenarios:

You will need a simple herbicide agreement if you wish to spray:

- On any land within 1500m of a designated site such as a Site of Special Scientific Interest (SSSI) or a local, marine or National Nature Reserve, but not actually within the designated site. Or,
- Within 250m of water, including on the banks of watercourses or lakes, but not in/on water.

You must adhere to advice and guidance that is available on the NRW website. You will need to apply to NRW for a higher risk (previously referred to as 'complex') agreement if you wish to spray:

- Within a designated site such as a Site of Special Scientific Interest (SSSI) or a local, marine or National Nature Reserve. Or,
- In/on water to control weeds in water.

Further details on all the above, including the application forms and the locations of designated sites can be found on the NRW website.

You must adhere to the following:

- Treat a sufficient area of bracken to allow tree planting to be carried out and the trees to establish unhindered by bracken.
- Ensure that your use of Asulam is covered by an Emergency Authorisation.
- Ensure you use an Asulam product suitable for your specific use and method of application. Product labels should be retained and made available on request.

- Ensure that you are using Asulam within dates that are compliant with the label recommendations, and permitted within the Emergency Authorisation.

Do not:

- Control bracken by burning.

Additional guidance which may be useful in addition to the specifications above:

- Ensure that if you intend to use herbicides including Asulam in proximity to water or designated sites that you have obtained the relevant authorisation from NRW.
- It is important to bear in mind that stands of bracken can contribute to landscape diversity and may well be of considerable value to wildlife in their own right. Where intermixed with scattered trees and shrub, bracken is often important for birds such as whinchat, yellowhammer and nightjar. Open bracken with an understorey of violets may support populations of fritillary butterflies. Even dense stands with heavy litter may provide cover for overwintering birds of prey such as hen harrier and short eared owl, as well as mammals such as bank vole, badger and deer.
- Adhere to all manufacturers label recommendations regarding application of the herbicide.
- Cutting should ideally be followed up by grazing of heavy stock such as cattle before tree planting, since this will help to prevent frond regrowth.
- You are advised to follow the recommendations in the 'Green Code' (Approved Code of Practice for the Safe Use of Pesticides on Farms and Holdings, MAFF, 1998).

920 Bracken Control (Mechanical Two Cuts/Yr)

This technical note describes the minimum standard of work required in order to receive payments for 'Bracken control (Mechanical

cutting)'. Any variation must be approved by the Welsh Government prior to starting the work.

Bracken is a vigorous perennial fern which grows from an underground rhizome system. Above ground, bracken fronds are fully open from about mid June to August and it is at this time that the plants have deployed most of their nutrient reserves.

This option is available to clear areas of bracken so that ground flora can develop or to allow new trees and hedgerows to be established. This option is preferred where chemical control of bracken is not appropriate.

You must adhere to the following:

- Control the bracken by bruising, crushing or cutting only.
- Control bracken at least twice during the growing season. Additional guidance on the best time to control bracken is listed below.

Do not:

- Control bracken using chemicals such as 'Asulam'.
- Control bracken by burning.

Additional guidance which may be useful in addition to the specifications above:

- Crushing and cutting should be timed so that the fully extended frond is taken out before the plant has time to translocate food reserves from the frond back to the rhizome. The plant has expended considerable food reserves in producing the frond and well timed removal causes substantial weakening. The period from May to mid-August will generally be the best time to crush or cut depending on weather conditions.
- This method is strongly recommended, especially where it is necessary to avoid chemical damage to water courses or sensitive plants such as other ferns.

- Cutting should ideally be followed up by grazing of heavy stock such as cattle before tree planting, since this will help to prevent frond regrowth.
- It is important to bear in mind that stands of bracken can contribute to landscape diversity and may well be of considerable value to wildlife in their own right. Where intermixed with scattered trees and shrub, bracken is often important for birds such as whinchat, yellowhammer and nightjar. Open bracken with an understorey of violets may support populations of fritillary butterflies. Even dense stands with heavy litter may provide cover for overwintering birds of prey such as hen harrier and short eared owl, as well as mammals such as bank vole, badger and deer.

921 Bracken Control (Tractor Mounted Sprayer)

This technical note describes the minimum standard of work required in order to receive payments for 'Bracken control (Tractor Mounted Sprayer)'. Any variation must be approved by the Welsh Government prior to starting the work.

Bracken is a vigorous perennial fern which grows from an underground rhizome system. Above ground, bracken fronds are fully open from about mid June to August and it is at this time that the plants have deployed most of their nutrient reserves. This option is available to clear areas of bracken so that ground flora can develop or to allow new trees and hedgerows to be established.

Note regarding the ban on Asulam – the active ingredient of Asulox products:

The ban of 'Asulam' came into affect on 31 December 2011. After this date it is illegal to apply or store products containing Asulam unless Emergency Authorisation has been obtained. Any Bracken Control work included in the Glastir contract can only be claimed if Emergency Authorisation has been granted by the relevant authority.

Emergency Authorisation has been granted for the 2017 season.

Note regarding the use of Asulam in proximity to watercourses, and designated sites:

There is a statutory obligation on land managers to obtain consent from Natural Resources Wales (NRW) for the use of herbicides/pesticides in any of the four following scenarios:

You will need a simple herbicide agreement if you wish to spray:

- On any land within 1500m of a designated site such as a Site of Special Scientific Interest (SSSI) or a local, marine or National Nature Reserve, but not actually within the designated site. Or,
- Within 250m of water, including on the banks of watercourses or lakes, but not in/on water.

You must adhere to advice and guidance that is available on the NRW website.

You will need to apply to NRW for a higher risk (previously referred to as 'complex') agreement if you wish to spray:

- Within a designated site such as a Site of Special Scientific Interest (SSSI) or a local, marine or National Nature Reserve. Or,
- In/on water to control weeds in water. Further details on all the above, including the application forms and the locations of designated sites can be found on the NRW website.

You must adhere to the following:

- Treat a sufficient area of bracken to allow tree planting to be carried out and the trees to establish unhindered by bracken.
- Ensure that your use of Asulam is covered by an Emergency Authorisation.
- Ensure you use an Asulam product suitable for your specific use and method of application. Product labels should be retained and made available on request.

- Ensure that you are using Asulam within dates that are compliant with the label recommendations, and permitted within the Emergency Authorisation.

Do not:

- Control bracken by burning.

Additional guidance which may be useful in addition to the specifications above:

- Ensure that if you intend to use herbicides including Asulam in proximity to water or designated sites that you have obtained the relevant authorisation from NRW.
- It is important to bear in mind that stands of bracken can contribute to landscape diversity and may well be of considerable value to wildlife in their own right. Where intermixed with scattered trees and shrub, bracken is often important for birds such as whinchat, yellowhammer and nightjar. Open bracken with an understorey of violets may support populations of fritillary butterflies. Even dense stands with heavy litter may provide cover for overwintering birds of prey such as hen harrier and short eared owl, as well as mammals such as bank vole, badger and deer.
- Adhere to all manufacturers label recommendations regarding application of the herbicide.
- Use any other chemical other than 'Asulam', without agreement from the Welsh Government.
- Cutting should ideally be followed up by grazing of heavy stock such as cattle before tree planting, since this will help to prevent frond regrowth.
- You are advised to follow the recommendations in the 'Green Code' (Approved Code of Practice for the Safe Use of Pesticides on Farms and Holdings, MAFF, 1998).

928 Top Wiring on Stone Walls

This technical note describes the minimum standard of work required in order to receive payments for 'Top Wiring on Stone Walls'. Any variation from the standards set out must be approved by the Welsh Government prior to starting the work.

You must adhere to the following:

- Use fencing timber comprising either hardwood or pressure treated softwood.
- Ensure that timbers, wire and galvanised staples consist of new materials.
- Use posts with at least 6.5cm top diameter. Posts must be set at centres of 3m or less. Posts should be set within the wall.
- Attach at least one line of wire (4mm gauge plain or 2.5mm two ply barbed) to the posts with galvanised staples.
- Remove any existing derelict fencing.

Do not:

- Use trees and shrubs as strainers or fencing posts, or attach wire, staples or netting to them.

Additional guidance which may be useful in addition to the specifications above:

- Where Glastir activities include the installation of access furniture such as stiles or gates on a Public Right of Way, it is your responsibility to ensure you obtain approval under Section 147 of the Highways Act, 1980, from the appropriate Highway Authority.
- For further detailed specifications see British Standards 1722 and 4102, as amended.