

Austin-Smith:Lord

Project: YGG Tregeles

Title: Landscape Specification

Client: Knox & Wells for Neath Port Talbot Council

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Ac_85_30_01/190 Amenity grass maintenance

Activities

Ac_85_30_01/190 Amenity grass maintenance

1. Maintenance fertilizer: [Pr_45_31_89_58 Organic fertilizers](#)
2. System facility management: [Ac_85_30_01/946 General maintenance of amenity and functional turf \(other than sports turf\)](#); [Ac_85_30_01/903 Disposal of arisings during maintenance operations](#); [Ac_85_30_01/921 Weed control generally](#); [Ac_85_30_01/922 Restrictions to applying selective herbicide](#); [Ac_85_30_01/962 Mowing amenity grassland areas](#); [Ac_85_30_01/969 Protecting tree stems in grassed or meadow areas](#)

Products

Pr_45_31_89_58 Organic fertilizers

Shared by: [Ss_45_35_05_67 Pit-planted small tree and shrub systems](#)

1. Supplier: Contractor's choice
2. Standard: In accordance with the Fertiliser Industry Assurance Scheme (FIAS).
3. Fertilizer type: Pre-seeding fertilizer. Tree and shrub fertilizer.
4. Availability to plants: Slow-release.

System facility management

Ac_85_30_01/903 Disposal of arisings during maintenance operations

1. Generally: Leave the works in a clean, tidy condition after maintenance operations.
2. Surplus topsoil and arisings: Remove from site.
3. Biodegradable arisings: Remove to recycling facility.
4. Grass cuttings: Remove to recycling facility.
5. Litter and non-biodegradable arisings: Remove from site.
6. Diseased plant material: Remove from site.
7. Contamination: Remove from site material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

Ac_85_30_01/921 Weed control generally

1. Weed tolerance: Substantially free of broad leaved weeds.
2. Method: Application of a suitable selective herbicide.
3. Stones brought to the surface: Remove regularly any exceeding 25 mm in any dimension.
4. Areas of settlement: Make good.
5. Adjacent plants, trees and grass: Do not damage.

Ac_85_30_01/922 Restrictions to applying selective herbicide

1. Description: No Glyphosate products to be used.

Ac_85_30_01/946 General maintenance of amenity and functional turf (other than sports turf)

1. Standard: To [BS 7370-3](#). Carry out maintenance appropriate to each category of turf.

Ac_85_30_01/962 Mowing amenity grassland areas

1. Grass height: 25–50 mm.
2. Grass height - wildflower areas: 50–150 mm.
3. Arisings: Remove from site.

Ac_85_30_01/969 Protecting tree stems in grassed or meadow areas

1. General requirements: Do not damage bark.
2. Mowing machinery: Do not use closer than 100 mm to tree stems.
3. Nylon filament rotary cutters and other hand held mechanical tools: Do not use closer than 100 mm to tree stems.
4. Operations close to stems: Complete using hand tools.

Ω End of Activity

Ss_15_10_30_90 Topsoil filling systems

Systems

Ss_15_10_30_90 Topsoil filling systems

1. Description: For all proposed planting.
2. Execution: [Ss_15_10_30/724 Spreading topsoil generally](#); [Ss_15_10_30/604 Testing of materials](#); [Ss_15_10_30/630 Tolerances for excavated and filled surfaces](#); [Ss_15_10_30/606 Topsoil analysis](#)
3. Site won existing topsoil: Existing topsoil to be re-used where possible.
4. Site won existing subsoil: Existing subsoil to be re-used where possible
5. Imported topsoil: Any deficit in existing topsoil for re-use or existing soils deemed unsuitable for reuse, to be made up with imported topsoil to BS 3882:2015.
6. Imported subsoil: Any deficit in existing subsoil for re-use or existing soils deemed unsuitable for re-use, to be made up with imported subsoil to BS 8601:2013.
Subsoil to wildflower meadows to be Low Fertility sandy loam / loamy sand.
7. Imported Filter medium to rain gardens: Proprietary rain garden soil to meet engineers requirements for filter medium material.
Supplier: Bourne Amenity or equal
<https://bourneamenity.co.uk/>
Product: Rain Garden Soil.

Execution

Ss_15_10_30/604 Testing of materials

1. Material to be analysed: Imported topsoil and subsoil.
2. Submit
 - 2.1. Tests: Chemical analysis. Chemical analysis and contaminants. Electrical conductivity. Maximum stone content, stone size and pH value. Nutrient content, pH value and textural classification. pH value and textural classification. Phytotoxic and CLEA elements. Textural classification and maximum stone content.
 - 2.2. Report: Submit report detailing results and soil analyst's recommendations.

Ss_15_10_30/606 Topsoil analysis

1. Soil to be analysed: Topsoil stockpiles. Collection of site won topsoil before soil preparation for all planting to determine if imported topsoil is required.
2. Soil analyst: A laboratory operating in accordance with the requirements of BS EN ISO/IEC 17025:2017.
3. Samples: Collect in accordance with BS 3882.
4. Preparation of samples: To [BS 3882](#), Annex c.
5. Submit
 - 5.1. Declaration of analysis: Maximum coarse fragment content. Mass loss on ignition. Soil pH. Plant nutrient content. Carbon: nitrogen ratio. Electrical conductivity. Potentially phytotoxic elements. Visible contaminants. Sharps.
 - 5.2. Report: Submit report detailing results and topsoil parameters as derived from [BS 3882](#), Table 1.

Ss_15_10_30/630 Tolerances for excavated and filled surfaces

1. Permissible deviations from linear dimensions generally: To engineers earthworks specification.

2. Tolerances on inclination of slope surface: To engineers earthworks specification.
3. Permitted localized deviations from slope surface: To engineers earthworks specification.

Ss_15_10_30/724 Spreading topsoil generally

1. Method: Contractors choice.
2. Locations for spreading topsoil: In areas where topsoil is required for new planting.
3. Preparatory works:
 - 3.1. Rock and chalk subgrades: Lightly scarify to promote free drainage.
 - 3.2. Removing stones: Timing: Immediately before spreading topsoil.
Size in any dimension (maximum): 50 mm.
 - 3.3. Arisings, contaminants and debris: Remove from site.
 - 3.4. Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450 mm.
 - 3.5. Levelling and grading: Excavate and/ or place fill to required profiles and levels. Grade to smooth-flowing contours to achieve specified finished levels of topsoil. Avoid over-compaction.
 - 3.6. Loosening: Light and non-cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300 mm.
4. Inspecting formations
 - 4.1. Give notice: Before spreading topsoil for areas to receive landscape planting.
5. Temporary roads and surfacing: Remove before spreading topsoil.
6. Layers
 - 6.1. Firming: Gently firm each layer before spreading the next.
7. Depths after firming and settlement (minimum):
 - 7.1. Grass areas: 150 mm.
 - 7.2. Shrub and hedging areas: 450 mm.
8. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.
9. Protected areas: Do not raise soil level within root spread of trees that are to be retained.

Ω End of System

Ss_20_10_70_84 Storage shelter systems Cycle Shelter

Systems

Ss_20_10_70_84 Storage shelter systems Cycle Shelter

1. Description: Cycle shelter to main entrance.
2. Shelter type: [Pr_20_65_78_77 Semi-closed shelters](#)
3. Base: Concrete slab to engineers details.
4. Method of fixing to ground or base: To supplier's details.
5. Execution: [Ss_20_10_70/600 Execution and installation generally](#)

Products

Pr_20_65_78_77 Semi-closed shelters

1. Description: Cycle shelter to main entrance.
2. Manufacturer: Broxap Ltd or accepted equivalent.
3. Contact:
 - 3.1. Address: Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD
 - 3.2. Telephone: 01782 564411
 - 3.3. Email: info@broxap.com
4. Product reference: Apollo Cycle Shelter (ref BXMW/AP).
5. Shelter description: To take 7no Harrogate Cycle Stand (ref BXMW/GH0) hoops.
6. Dimensions
 - 6.1. Plan size: 6000 mm. TBC by supplier to achieve the storage requirements.
 - 6.2. Height: Height (Front): 2860 mm
Height (Rear): 2150 mm.
7. Frame
 - 7.1. Material: Structural steel.
 - 7.2. Finish: Hot-dip galvanized and powder-coated.
 - 7.3. Colour: TBC.
8. Roof covering: As supplied.

Execution

Ss_20_10_70/600 Execution and installation generally

1. Appearance: Conceal fixings unless otherwise indicated on detailed drawings.
2. Frameworks: Assemble and brace, including temporary members required for installation. Do not subject members to non-design loadings.
3. Interfaces: Locate flashings, closers, etc. to form weathertight junctions between components.
4. Cutting and drilling into structure: Obtain approval before cutting and drilling in positions not shown on detailed design drawings.
5. Metal fixings: Protect from corrosion. Avoid contact between dissimilar metals.

6. In situ welding: Not permitted.
7. Site-applied finishes
 - 7.1. Timing: Prepare surfaces and apply finishes as soon as possible after fixing.
8. Disposal of arisings
 - 8.1. Biodegradable arisings: Remove to recycling facility.
 - 8.2. Tree roots and stumps: Remove from site.
 - 8.3. Litter and non-biodegradable arisings: Remove from site.

Ω End of System

Ss_25_14_08_08 Board or palisade fencing systems

Systems

Ss_25_14_08_08 Board or palisade fencing systems

1. Description: To refuse and service yard enclosures.
2. System fabricator: Composite Sales or accepted equivalent.
3. Address: 25 Harvester Way
Fengate
Peterborough
PE1 5UT.
4. Telephone: 01206 484310.
5. Product: Clarity Composite Fence Board - 157mm x 1830mm Walnut (ref ECOFBWN183).
6. Posts: To supplier's recommendation to suit fence panels.
7. Post foundations: To supplier's recommendation and engineer's detail.
8. Execution: [Ss_25_14_63/605 Alignment of fences](#); [Ss_25_14_63/607 Fencing work generally](#);
[Ss_25_14_63/612 Fixing fence post base plates to concrete pads and strips](#)

Execution

Ss_25_14_63/605 Alignment of fences

Shared by: [Ss_25_14_61_86 Steel vertical bar fencing systems](#) and [Ss_25_14_61_51 Metal mesh panel fencing systems](#)

1. Alignment of fences and barriers: Straight lines or smoothly flowing curves, following profile of the ground.
2. Tops of posts: Follow ground profile.
3. Verticality: Plumb.
4. Tolerances: ± 30 mm of prescribed alignment and, within any 10 m length, ± 15 mm from the straight or required radius.
5. Changes of direction: Obtuse angles such that no angle is less than 130° .

Ss_25_14_63/607 Fencing work generally

Shared by: [Ss_25_14_61_86 Steel vertical bar fencing systems](#) and [Ss_25_14_61_51 Metal mesh panel fencing systems](#)

1. Metal fixings: Protect from corrosion.
2. In situ welding: Not permitted.
3. Treatment of minor damage to galvanized surfaces
 - 3.1. Repairs to areas of damage less than 40 mm^2
 - 3.1.1. Zinc coating thickness (minimum): Thickness of the original layer.
4. Site cutting of wood
 - 4.1. Components generally: Minimize cutting.
 - 4.2. Wood below or near ground level: Do not cut.
 - 4.3. Treatment of surfaces exposed by minor cutting and drilling
 - 4.3.1. Method: Apply sufficient material to provide a coating equal to the original preservative.
 - 4.3.2. Number of coats: Two.

5. Site applied finishes
 - 5.1. Timing: Prepare surfaces and apply finishes as soon as possible after fixing.
6. Disposal of arisings
 - 6.1. Biodegradable arisings: Remove to recycling facility.
 - 6.2. Tree roots and stumps: Remove from site.
 - 6.3. Litter and nonbiodegradable arisings: Remove from site.

Ss_25_14_63/612 Fixing fence post base plates to concrete pads and strips

1. Fixing: Securely fix components.

Ω End of System

Ss_25_14_61_51 Metal mesh panel fencing systems

Systems

Ss_25_14_61_51 Metal mesh panel fencing systems

1. Description: To internal security line.
2. System manufacturer: [CLD Physical Security Systems](#) or accepted equivalent.
3. Contact details
 - 3.1. Address: MODSEC House
Moston Road
Sandbach
Cheshire
United Kingdom
CW11 3HL
 - 3.2. Telephone: [+44 \(0\)1270 764751](tel:+44(0)1270764751)
 - 3.3. Web: <https://www.cld-systems.com>
 - 3.4. Email: info@cld-systems.com
4. Product reference: [CLD Dulok S1](#)
5. System performance: Anti-intruder and security fencing performance.
6. Standard: To BS 1722-14:2017, BS EN ISO 1461:2009, BS EN 13438:2013.
7. Posts: Carbon steel posts.
8. Post foundations: Set posts in holes minimum of 300 mm square or 400 mm diameter x 800 mm deep.
9. Panels: Mesh and wire, single vertical and double horizontal wires.
10. Site applied finishes: Not permitted.
11. Height: 2400 mm.
12. Width: 2508 mm.
13. Colour/ Finish: RAL 9005 (Black).
14. Mesh size: 200 x 50 mm.
15. WireDiameter: 6 mm verticals and twin 8 mm horizontals (868).
16. Fixings: 40 x 5 mm full length clamp bar. M8 x 40 mm stainless steel Sheardrive bolt.
17. Projection: 30 mm.
18. Size: 60 x 40 mm.
19. Installation: Bottom of panel approximately 50 mm above ground.
20. SecurityRating: LPS 1175 A1 (SR1) Issue 8.
21. Execution: [Ss_25_14_63/605 Alignment of fences](#); [Ss_25_14_63/607 Fencing work generally](#)

Execution

See [Ss_25_14_63/605 Alignment of fences](#) in [Ss_25_14_08_08 Board or palisade fencing systems](#)

See [Ss_25_14_63/607 Fencing work generally](#) in [Ss_25_14_08_08 Board or palisade fencing systems](#)

Ω End of System

Ss_25_14_61_86 Steel vertical bar fencing systems

Systems

Ss_25_14_61_86 Steel vertical bar fencing systems

1. Description: To new building's access to northern footpath.
2. System manufacturer: [CLD Physical Security Systems](#) or accepted equivalent.
3. Contact details
 - 3.1. Address: MODSEC House
Moston Road
Sandbach
Cheshire
United Kingdom
CW11 3HL
 - 3.2. Telephone: +44 (0)1270 764751
 - 3.3. Web: <https://www.cld-systems.com>
 - 3.4. Email: info@cld-systems.com
4. Product reference: [CLD FlexaRail \(1500 mm high\)](#)
5. Standard: To BS 1722-9.
6. Posts: Carbon steel posts.
7. Post foundations: Set posts in holes minimum 300 mm diameter x 800 mm deep.
8. Panels: No topping.
9. Fence topping: Vertical bars.
10. Diameter: 25.4 mm.
11. Horizontal rail: 55 x 52 mm.
12. Size: 60 x 60 mm.
13. Panel Type: Mesh and wire with 4 or 5 profiles as required attached to FenceSafe base.
14. Fixings: Unique ball-joint fixing.
15. Post centres: 2995 mm.
16. Installation: Bottom of panel approximately 40 mm above ground .
17. Width: 2880 mm.
18. Height: 2000 mm.
19. Colour: Galvanized and polyester powder coated, RAL 9005 (Black).
20. Standard: To [BS 1722-9](#).
21. Posts: [Pr_20_76_64_12 Carbon steel posts](#)
22. Execution: [Ss_25_14_63/605 Alignment of fences](#); [Ss_25_14_63/607 Fencing work generally](#)

Products

Pr_20_76_64_12 Carbon steel posts

1. Manufacturer: CLD Physical Security Systems.
(Contact details as per [Ss_25_14_61_86](#)).
2. Standards: To [BS 1722-9](#).
3. Posts
 - 3.1. Size and profile: 60 x 60 mm dia 2.5 mm SHS.

4. Post top: Flat top. Post caps.
5. Post base: Flat.
6. Finish as delivered
 - 6.1. Worked finish: Galvanized to BS EN 10346:2015. polyester powder coated to BS EN 13438:2013.
 - 6.2. Colour: RAL 9005 (Black).

Execution

See [Ss_25_14_63/605 Alignment of fences](#) in [Ss_25_14_08_08 Board or palisade fencing systems](#)

See [Ss_25_14_63/607 Fencing work generally](#) in [Ss_25_14_08_08 Board or palisade fencing systems](#)

Ω End of System

Ss_25_16_94_10 Bollard systems collapsible

Systems

Ss_25_16_94_10 Bollard systems collapsible

1. Description: To car park for maintenance access.
2. Foundations: To engineer's details.
3. Bollard type: [Pr_20_76_08_82 Stainless steel bollards collapsible](#)
4. System accessories: [Pr_35_90_87_72 Retroreflective self-adhesive tapes](#)

Products

Pr_20_76_08_82 Stainless steel bollards collapsible

1. Manufacturer: [Marshalls Landscape Protection & Street Furniture](#) or accepted equivalent.
2. Contact details
 - 2.1. Address: Landscape House
Lowfields Business Park
Elland
West Yorkshire
United Kingdom
HX5 9HT
 - 2.2. Telephone: [0370 600 2425](#)
 - 2.3. Web: <https://www.marshalls.co.uk/landscaping/landscape-protection?page=1>
 - 2.4. Email: StreetFurniture@marshalls.co.uk
3. Product reference: RS001 stainless steel bollard removable.
4. Standard: In accordance with [BS ISO 22343-2](#).
5. Performance characteristics:
 - 5.1. Dimensions
 - 5.1.1.Diameter: 114 mm.
 - 5.1.2.Height: 1000 mm above ground
 - 5.2. Top profile: Flat.
 - 5.3. Base: Removable.
6. Accessories: Reflectors.

Pr_35_90_87_72 Retroreflective self-adhesive tapes

1. Description: Supplier's standard fitting.
2. Manufacturer: Same as bollard.
3. Colour: Yellow.

Ω End of System

Ss_25_16_94_10 Bollard systems fixed

Systems

Ss_25_16_94_10 Bollard systems fixed

1. Description: To car park.
2. Foundations: To engineer's details.
3. Bollard type: [Pr_20_76_08_82 Stainless steel bollards](#)

Products

Pr_20_76_08_82 Stainless steel bollards

1. Manufacturer: [Marshalls Landscape Protection & Street Furniture](#) or accepted equivalent.
2. Contact details
 - 2.1. Address: Landscape House
Lowfields Business Park
Elland
West Yorkshire
United Kingdom
HX5 9HT
 - 2.2. Telephone: [0370 600 2425](#)
 - 2.3. Web: <https://www.marshalls.co.uk/landscaping/landscape-protection?page=1>
 - 2.4. Email: StreetFurniture@marshalls.co.uk
3. Product reference: RS001 stainless steel bollard.
4. Standard: In accordance with [BS ISO 22343-2](#).
5. Performance characteristics:
 - 5.1. Dimensions
 - 5.1.1.Diameter: 114 mm.
 - 5.1.2.Height: 1000 mm (above ground).
 - 5.1.3.Length below ground: 500 mm.
 - 5.2. Top profile: Flat.
 - 5.3. Fixing method: Root fix.
6. Accessories: None.

Ω End of System

Ss_30_14_90_36 Flag and slab unbound paving systems

Systems

Ss_30_14_90_36 Flag and slab unbound paving systems

1. Description: To main entrance approach.
2. Standard: To [BS 7533-101](#)
3. Geotextile below granular sub-base: To engineer's detail.
4. Granular sub-base: To engineer's detail.
5. Geotextile below laying course: To engineer's detail.
6. Laying course: To engineer's detail.
7. Paving course
 - 7.1. Paving units: [Pr_25_93_60_16 Concrete flags](#)
 - 7.2. Jointing: [Pr_20_31_04_44 Jointing fine aggregates](#)
8. Execution: [Ss_30_14_90/605](#) Adverse weather and unit paving construction; [Ss_30_14_90/609](#) Cutting paving units; [Ss_30_14_90/611](#) Permissible deviations from design levels for unit paving; [Ss_30_14_90/614](#) Regularity of finished paving surface for accessibility; [Ss_30_14_90/617](#) Avoidance of colour banding in unit paving; [Ss_30_14_90/653](#) Laying unbound flag and slab pavements; [Ss_30_14_90/781](#) Final compaction of unbound paving

Products

Pr_20_31_04_44 Jointing fine aggregates

1. Supplied by: Contractor's choice
2. Standard: To [BS EN 12620](#).
3. Material: Silica sand.
4. Colour: Natural.
5. Aggregate size and grading category: To engineer's detail.
6. Fines content: To engineer's detail.

Pr_25_93_60_16 Concrete flags

1. Manufacturer: [Marshalls Landscaping](#) or accepted equivalent.
2. Contact details
 - 2.1. Address: Landscape House
Lowfields Business Park
Elland
West Yorkshire
HX5 9HT.
 - 2.2. Telephone: [+44 \(0\)330 0574472](tel:+44(0)3300574472)
 - 2.3. Web: <https://www.marshalls.co.uk>
 - 2.4. Email: specification.support@marshalls.co.uk
3. Product reference: Modal X Paving.
4. Standard: To BS EN 1339.
5. Physical properties
 - 5.1. Colours:
 - Mid grey granite - textured (50%)

- Oatmeal granite - textured (30%)
 - Charcoal granite - textured (20%).
- 5.2. Finish: Textured.
- 5.3. Dimensions and associated tolerances
- 5.3.1. Nominal sizes:
- 600 x 300 x 80 (70%)
 - 300 x 300 x 80 (30%).
- 5.3.2. Tolerances on plan dimension and thickness (nominal): Length ± 2 mm, width ± 2 mm, thickness ± 3 mm.
- 5.4. Weathering resistance: ≤ 1.0 kg/m² as a mean with no individual value > 1.5 kg/m² (freeze thaw durability).
- 5.5. Abrasion resistance: ≤ 23 mm (Wide Wheel Abrasion Test).
- 5.6. Slip resistance: > 45 .
- 5.7. Skid resistance: > 45 .

Execution

Ss_30_14_90/605 Adverse weather and unit paving construction

1. Standard: In accordance with [BS 7533-3](#).
2. General
 - 2.1. Temperature: Do not lay or joint paving if the temperature is below 3°C on a falling thermometer or below 1°C on a rising thermometer.
 - 2.2. Frozen materials: Do not use. Do not lay bedding on frozen or frost covered bases.
3. Kerbs edgings, and channels: Adequately protect foundations, bedding and haunching against frost and rapid drying by sun and wind.
4. Paving with mortar joints or bedding: Protect from frost damage, rapid drying out and saturation until mortar has hardened.
5. Paving with fine aggregate bedding and joints
 - 5.1. Stockpiled laying course material: Protect from saturation.
 - 5.2. Exposed areas of laying course material and uncompacted areas of unbound paving: Protect from heavy rainfall.
 - 5.3. Saturated laying course: Remove and replace, or allow to dry before proceeding.
 - 5.4. Laying dry fine aggregate jointed paving in damp conditions : Brush in as much fine jointing aggregate as possible. Minimize site traffic over paving. As soon as paving is dry, top up joints and complete compaction.

Ss_30_14_90/607 Laying unit pavings generally

1. Standard: In accordance with Highways England [MCHW Volume 1: Specification for highway works](#).
2. Setting out: Start from an edge restraint.
3. Paving units: Free of damage, mortar and sand stains. Interlocking units to be adequately connected
4. Appearance: Smooth and even with regular joints. Accurate to line, level and profile.
5. Cut edges: Turn inwards where possible. Do not position against edge restraints or other features.
6. Laying course: Grade consistently and accurately. Spread and compact to produce uniform thickness and support for paving units.
7. Bedding of paving units: Firm so that rocking or subsidence does not occur or develop.
8. Falls: Prevent ponding.

9. Laying on slopes: Lay paving units upwards from the bottom of slopes.

Ss_30_14_90/609 Cutting paving units

1. Generally: Cut units cleanly, accurately and vertically, without spalling, to give neat junctions with edgings and adjoining finishes. Do not mark or damage visible surfaces.
2. Natural stone: In accordance with [BS 7533-3](#). Cut setts with a disc cutter or masonry saw.
3. Concrete flags: To [Interpave Cutting paving. Cutting precast concrete blocks flags and kerbs - efficient design and managing the risk](#).

Ss_30_14_90/611 Permissible deviations from design levels for unit paving

1. Standard: To [BS 7533-3](#).
2. Permissible deviation from specified levels (mm)
 - 2.1. Permeable pavements
 - 2.1.1.Sub-base: -20 to +20 mm.
 - 2.1.2.Laying course: -20 to +20 mm.
 - 2.1.3.Surface course: ± 6 mm.
 - 2.1.4.Kerbs and channels: ± 6 mm.
 - 2.2. Conventional pavements
 - 2.2.1.Sub-base: -10 to +5 mm.
 - 2.2.2.Road base: -10 to +5 mm.
 - 2.2.3.Laying course: -5 to +10 mm.
 - 2.2.4.Surface course: ± 6 mm.
3. Height of finished paving above features
 - 3.1. At gullies: +6 to +10 mm.
 - 3.2. At drainage channels and kerbs: +3 to +6 mm.

Ss_30_14_90/614 Regularity of finished paving surface for accessibility

1. Standard: In accordance with [BS 8300-1](#).
2. Method of measurement: Under a 1m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface).
3. Maximum undulations in the pavement surface: 3 mm.
4. Joints between paving units or utility access covers
 - 4.1. Joints flush with the surface: Difference in level between adjacent units to be no more than twice the joint width (with a 5 mm max difference in level).
 - 4.2. Recessed, filled joints: Difference in level between adjacent units to be no greater than 2 mm; the recess to be no deeper than 5 mm.
 - 4.3. Unfilled joints: Difference in level between adjacent units to be no greater than 2 mm.
5. Sudden irregularities: Not permitted.

Ss_30_14_90/617 Avoidance of colour banding in unit paving

1. Number of separate packs: 3no.

Ss_30_14_90/653 Laying unbound flag and slab pavements

1. General requirements: [Ss_30_14_90/607 Laying unit pavings generally](#)
2. Standard: In accordance with [BS 7533-4](#). To [Interpave Concrete flag paving. Guide to the properties, design, handling, construction, reinstatement and maintenance of concrete flag pavements](#).

3. Laying course thickness after compaction (nominal): 25 mm.
4. Bond
 - 4.1. Concrete flags: As drawings.
5. Joint width (nominal): 2–5 mm.

Ss_30_14_90/781 Final compaction of unbound paving

1. Sand dressing: Leave a thin layer of dry fine aggregate jointing material over the paving, sweep clean before practical completion.
2. Final compaction of the surface course: In accordance with [BS 7533-3](#). In accordance with [BS 7533-4](#).

Ω End of System

Ss_40_20_30_28 External furniture systems

Systems

Ss_40_20_30_28 External furniture systems

1. Description: Seating to external areas.
2. Foundations: To manufacturer's recommendation and engineer's detail.
3. External furniture: [Pr_40_30_29_84 Street and site benches](#)
4. Execution: [Ss_40_20_30/607 Work on street furniture generally](#); [Ss_40_20_30/613 Fixing baseplates to concrete pads and strips](#)

Products

Pr_40_30_29_84 Street and site benches

1. Manufacturer: [Broxap Street Furniture](#) or accepted equivalent.
2. Contact details
 - 2.1. Address: Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD.
 - 2.2. Telephone: [+44 \(0\)1782 571700](tel:+44(0)1782571700)
 - 2.3. Web: <https://www.broxap.com/>
 - 2.4. Email: nbs@broxap.com
3. Product reference: Litchard Bench (ref BX17 4071/B).
4. Length: 1800 mm.
5. Base: Base plate.
6. Material: Heavy-duty steel frame and FSC softwood timber slats as standard.
7. Colours: RAL colour for steel frame TBC.
8. Accessories: None.

Execution

Ss_40_20_30/607 Work on street furniture generally

1. Metal fixings: Protect from corrosion.
2. In situ welding: Not permitted.
3. Treatment of minor damage to galvanized surfaces
 - 3.1. Repairs to areas of damage less than 40 mm²
 - 3.1.1. Method: At least two coats of zinc-rich paint.
 - 3.1.2. Zinc coating thickness (minimum): Thickness of the original layer.
4. Site cutting of wood
 - 4.1. Components generally: Minimize cutting.
 - 4.2. Wood below or near ground level: Do not cut.
 - 4.3. Treatment of surfaces exposed by minor cutting and drilling
 - 4.3.1. Method: Apply sufficient material to provide a coating equal to the original preservative.
 - 4.3.2. Number of coats: Two.

5. Site-applied finishes: Prepare surfaces and apply finishes as soon as possible after fixing.
6. Disposal of arisings
 - 6.1. Biodegradable arisings:
 - 6.2. Tree roots and stumps: Remove from site.
 - 6.3. Litter and non-biodegradable arisings: Remove from site.

Ss_40_20_30/613 Fixing baseplates to concrete pads and strips

1. Fixing: Securely fix components.

Ω End of System

Ss_45_35_05_66 Pit-planted large tree systems

Systems

Ss_45_35_05_66 Pit-planted large tree systems

1. Description: EHS tree planting
2. Standard: Prepare trees and transplant in accordance with [BS 8545](#).
3. Trees: [Pr_45_30_90_74 Root-balled trees](#)
4. Tree pit
 - 4.1. Drainage
 - 4.1.1. Drainage layer: Stone layer subject to site drainage.
 - 4.2. Irrigation and aeration accessories: Proposed trees within planting beds to have Mona Relief Grande Aria.
Tree Irrigation Watering System from Green-tech or equal . Size appropriate to rootball size.
<https://www.green-tech.co.uk/>
 - 4.3. Tree pit backfill material: As per tree pit detail.
5. Above ground supports
 - 5.1. Type: [Pr_45_63_64_84 Stakes](#)
 - 5.2. Fixings: [Pr_45_63_64_83 Stake ties](#)
6. Tree pit surfacing
 - 6.1. Loose fill tree pit surfacing: [Pr_45_31_63_56 Natural bark](#)
7. Execution: [Ss_45_35_05/707 Triple staking](#); [Ss_45_35_05/610 Water restrictions](#);
[Ss_45_35_05/692 Applying loose mulch around trees](#); [Ss_45_35_05/642 Planting amenity trees in pits](#)

Products

Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers

Shared by: [Pr_45_30_80_20 Container-grown shrubs](#) and [Pr_45_30_90_21 Container-grown trees](#)

1. General requirements
 - 1.1. Condition: Materially undamaged, sturdy, healthy and vigorous.
 - 1.2. Appearance: Of good shape and without elongated shoots, appropriate to species and variety.
 - 1.3. Hardiness: Grown in a suitable environment and hardened off.
 - 1.4. Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
 - 1.5. Budded or grafted plants: Bottom-worked. Visible suckers to be removed flush with rootstock. Trees to be budded or grafted on fully compatible rootstock appropriate to the type. Union to be well-callused.
 - 1.6. Root system and condition: Balanced with branch system.
 - 1.7. Species: True to name.
2. Delivery label requirements
 - 2.1. Standard: To the [National Plant Specification](#).
 - 2.2. Labels to provide the following information: Full botanical name; total number; number of bundles; part bundles; supplier's name; employer's name and project reference; and plant specification (in accordance with scheduled [National Plant Specification](#) categories).
 - 2.3. Additional information:

Pr_45_30_90_74 Root-balled trees

Shared by: [Ss_45_35_05_67 Pit-planted small tree and shrub systems](#)

1. General requirements: [Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers](#)
2. Standards: In accordance with the [National Plant Specification](#).
3. Clear stem height (minimum): 200 cm.
4. Root condition and protection: Rootballs to be firm and solid, free of perennial weeds and enclosed in hessian, which must decompose within 18 months of planting and not constrict continuing growth of the plant. Roots to penetrate the whole ball.
5. Origin and provenance: British provenance.
6. Execution: [Pr_45_30_90/614 Plant handling, storage and transport](#)

Pr_45_31_63_56 Natural bark

Shared by: [Ss_45_35_05_67 Pit-planted small tree and shrub systems](#)

1. Supplied by: Melcourt Industries Limited,
Boldridge Brake, Long Newnton,
Tetbury, Gloucestershire.
GL8 8RT
or accepted equivalent.
2. Source: Product Ref: Amenity Bark Mulc
This product is from FSC MIX Sources at a minimum of 70%, FSC certificate number CU-COC-806457.*
3. Quality: Dry, no decomposition, no signs of mould or fungi. Free of methyl bromide and other contaminants.

Pr_45_63_64_83 Stake ties

1. Description: Ties for double staked trees.
2. Manufacturer: Submit proposals
3. Tie type: Flexible webbing.
4. Material: Biodegradable natural fibre.

Pr_45_63_64_84 Stakes

1. Description: For double staking of proposed trees.
2. Manufacturer: Submit proposals
3. Material: Softwood, peeled chestnut, larch or oak.
4. Quality: Straight. Free from projections and large or edge knots.
5. Cross-section size (minimum): 75 mm diameter.
6. Length: As detail- nom 1800mm stakes with 900mm above ground.
7. End profiles: Pointed at one end, cut square at other.

Execution

Pr_45_30_90/614 Plant handling, storage and transport

Shared by: [Pr_45_30_80_20 Container-grown shrubs](#) and [Pr_45_30_90_21 Container-grown trees](#)

1. Standard: In accordance with Committee of Plant Supply and Establishment (CPSE) [Recommendations for Plant Handling](#).
2. Plants reserved at supplier's premises

- 2.1. **Species:** As plant schedule.
- 2.2. **Pre-delivery inspection:** Required. Give notice.
- 2.3. **Labelling:** Identify inspected plants as reserved for use on this project.
3. **Extreme cold:** Protect plants from frost.
4. **Handling:** Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
5. **Packaging of bulk quantities:** Pallets or bins sealed with polyethylene and shrink wrapped.

Ss_45_35_05/610 Water restrictions

Shared by: [Ss_45_35_05_67 Pit-planted small tree and shrub systems](#)

1. **Planting:** If water supply is or is likely to be restricted by emergency legislation, do not carry out planting until instructed.
2. **After planting:** If planting has been carried out, obtain instructions on watering.

Ss_45_35_05/642 Planting amenity trees in pits

Shared by: [Ss_45_35_05_67 Pit-planted small tree and shrub systems](#)

1. **Pit dimensions**
 - 1.1. **Plan size (minimum):** See tree pit detail.
 - 1.2. **Depth (minimum):** See tree pit detail.
2. **Sloping ground:** Maintain minimum depth throughout.
3. **Excavated material:** Separate topsoil and subsoil material and stockpile for backfilling.
4. **Pit bottoms**
 - 4.1. **Generally:** Break up base.
 - 4.2. **Profile:** Slightly raise centre.
 - 4.3. **Break up depth (nominal):** 200 mm.
 - 4.4. **Treatment:** Work soil ameliorant into pit bottoms.
5. **Pit sides**
 - 5.1. **Profile:** Vertical.
 - 5.2. **Treatment:** Scarify.

Ss_45_35_05/692 Applying loose mulch around trees

1. **Preparation:** Clear weeds. Water soil thoroughly.
2. **Coverage area:** In a circular area of 1200 mm radius measured from tree stem.
3. **Depth:** 75 mm.
4. **Finished level of mulch:** As per tree pit detail.

Ss_45_35_05/707 Triple staking

1. **General:** Do not impede natural movement of plants or restrict growth.
2. **Position:** Equidistantly around the tree position.
3. **Driving:** Drive stakes vertically at least 300 mm into bottom of pit before planting.
4. **Backfilling:** Consolidate material around stakes.
5. **Firming:** Sufficiently firm to prevent movement of the root system.
6. **Height of stakes:** 600 mm above ground level.
7. **Tying**

- 7.1. **Method:** Secure tree firmly to the stakes without causing constriction or chafing. Ensure support in all directions.
- 7.2. **Tie position:** Within 25 mm of the top of the stakes.
- 8. **Fixing of ties to supports:** Nail ties to stakes using galvanized nails to [BS 1202-1](#), minimum 25 mm long and 10 mm diameter heads.

Ω End of System

Ss_45_35_05_67 Pit-planted small tree and shrub systems

Systems

Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Preparatory work to soil
 - 1.1. Fertilizer: [Pr_45_31_89_58 Organic fertilizers](#)
 - 1.2. Additional materials: [Pr_45_31_89_55 Mycorrhizal inoculants](#)
2. Trees and shrubs: [Pr_45_30_90_21 Container-grown trees](#); [Pr_45_30_80_20 Container-grown shrubs](#); [Pr_45_30_90_74 Root-balled trees](#)
3. Mulch: [Pr_45_31_63_56 Natural bark](#)
4. Protection: [Pr_45_63_64_78 Shrub protectors](#)
5. Execution: [Ss_45_35_05/601 Amenity planting generally](#); [Ss_45_35_05/603 Times of year for amenity planting](#); [Ss_45_35_05/605 Climatic conditions for amenity planting](#); [Ss_45_35_05/642 Planting amenity trees in pits](#); [Ss_45_35_05/610 Water restrictions](#); [Ss_45_35_05/631 Random setting out of amenity planting](#)
6. System completion: [Ss_45_35_05/801 Operations immediately after planting](#); [Ss_45_35_05/802 Establishment of new planting](#); [Ss_45_35_05/803 Weeding new planting](#); [Ss_45_35_05/804 Fertilizing new planting](#); [Ss_45_35_05/806 Watering new planting](#); [Ss_45_35_05/807 Final mulching of planting beds and trees](#); [Ss_45_35_05/810 Instructions for maintenance](#); [Ss_45_35_05/809 Plants that have failed to thrive](#)

Products

Pr_45_30_80_20 Container-grown shrubs

1. General requirements: [Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers](#)
2. Standards: In accordance with the [National Plant Specification](#).
3. Root condition and protection: Container-grown. Plants to be centred in the container, well-rooted, firm and moist on delivery. Surface of the growing medium to be free of all weeds. Container to have adequate holes for drainage when placed on any substrate.
4. Origin and provenance: British provenance.
5. Execution: [Pr_45_30_90/614 Plant handling, storage and transport](#)

See [Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers](#) in [Ss_45_35_05_66 Pit-planted large tree systems](#)

Pr_45_30_90_21 Container-grown trees

1. General requirements: [Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers](#)
2. Standards: In accordance with the [National Plant Specification](#).
3. Stem size
4. Clear stem height (minimum): 200 cm.
5. Root condition and protection: Container-grown. Plants to be centred in the container, well-rooted, firm and moist on delivery. Surface of the growing medium to be free of all weeds. Container to have adequate holes for drainage when placed on any substrate.
6. Origin and provenance: British provenance.
7. Execution: [Pr_45_30_90/614 Plant handling, storage and transport](#)

See [Pr_45_30_90_74 Root-balled trees](#) in [Ss_45_35_05_66 Pit-planted large tree systems](#)

See [Pr_45_31_63_56 Natural bark](#) in [Ss_45_35_05_66 Pit-planted large tree systems](#)

Pr_45_31_89_55 Mycorrhizal inoculants

1. Description: Root dip to all bare root plants.
2. Manufacturer: Green-tech or similar approved.
3. Product: MycoForce Endo Ecto Mycorrhizal Whip Dip
PRODUCT CODE: 100FE5039-PRO.
4. Application rate: To supplier's recommendations. (100g is sufficient to make Dip for 220 whips).
5. Notes: Add 100 grammes of Whip Dip and 1-2 hydro gel sachet to 3-6 litres of water while stirring (the actual hydro gel and water requirement will depend upon water hardness and plant root mass.).
Dip the bare roots of the whips into the paste just before planting (if dipped offsite, cover the roots in plastic during transport).

See [Pr_45_31_89_58 Organic fertilizers](#) in [Ac_85_30_01/190 Amenity grass maintenance](#)

Pr_45_63_64_78 Shrub protectors

1. Manufacturer: Green-tech or similar approved.
2. Shape: Round.
3. Material
 - 3.1. Type: Special water-proof cardboard which is 100% Biodegradable, 100% recyclable, and 100% compostable.
 - 3.2. Additional requirements: Biodegradable.
4. Dimensions
 - 4.1. Width: 150 mm.
 - 4.2. Height: 600 mm.
5. Colour: Green.
6. Execution: [Pr_45_63_64/670 Installing tree and shrub protectors](#)

Execution

See [Pr_45_30_90/614 Plant handling, storage and transport](#) in [Ss_45_35_05_66 Pit-planted large tree systems](#)

Pr_45_63_64/670 Installing tree and shrub protectors

1. General: Do not impede natural movement of plants or restrict growth. Install vertically.
2. Support
 - 2.1. Type: 90cm x 25mm stake supplied by Green-tech or equal.
 - 2.2. Number: 1 per plant.
3. Installation: Drive supports 1/3 of the total length into the ground. Fix to protectors using nylon ratchet straps.

Ss_45_35_05/601 Amenity planting generally

1. Standard: To [HTA Handling and establishing landscape plants](#).
2. Planting: Upright or well balanced with best side to front.

Ss_45_35_05/603 Times of year for amenity planting

1. Deciduous trees and shrubs: Late October to late March.
2. Conifers and evergreens: September/ October or April/ May.
3. Herbaceous plants (including marginal): September/ October or March/ April.

4. Wildflower plugs: Late August to mid-November or March/ April.
5. Container grown plants: At any time if ground and weather conditions are favourable.
6. Dried herbaceous bulbs, corms and tubers: September/ October.

Ss_45_35_05/605 Climatic conditions for amenity planting

1. General: Carry out the work while soil and weather conditions are suitable. Do not plant in strong winds.

See [Ss_45_35_05/610 Water restrictions](#) in [Ss_45_35_05_66 Pit-planted large tree systems](#)

Ss_45_35_05/631 Random setting out of amenity planting

1. Layout: Random groups of 3–7 of the same species, such that no three plants are aligned.
2. Planting density: As specified in the planting schedule for each species.

See [Ss_45_35_05/642 Planting amenity trees in pits](#) in [Ss_45_35_05_66 Pit-planted large tree systems](#)

System completion

Ss_45_35_05/801 Operations immediately after planting

1. Watering: Immediately after planting, water thoroughly. Do not damage or displace plants or soil.
2. Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.

Ss_45_35_05/802 Establishment of new planting

1. Duration: One full growing season from the date of planting.
2. Soil condition: Fork over beds to keep soil loose, with gentle cambers and no hollows. Do not reduce depth or effect of mulch.

Ss_45_35_05/803 Weeding new planting

1. All planting areas: Keep planting beds clear of weeds.
2. Trees and shrubs
 - 2.1. Area: Maintain a weed-free area around each tree and shrub.
 - 2.2. Diameter (minimum): The larger of 1 m or the surface of the original planting pit.

Ss_45_35_05/804 Fertilizing new planting

1. Time of year: March or April.
2. Application
 - 2.1. Method: Spread evenly.
 - 2.2. Application rate (minimum): To suppliers recommendations.

Ss_45_35_05/806 Watering new planting

1. Quantity: Wet full depth of topsoil.
2. Application: Even and without damaging or displacing plants or soil.
3. Trees: Spray crown when in leaf during warm weather.
4. Frequency: As necessary to ensure establishment and continued thriving of planting.
5. Interval (nominal) : As a very general guide, Handling and establishing landscape plants (section 7.4) advises that newly planted trees and shrubs should be irrigated after any four-week period without appreciable rainfall. Irrigation should be fortnightly with, e.g. heavy standard trees receiving at least 20 L and a small transplant 10 L for each watering.

6. Timing: After dusk.

Ss_45_35_05/807 Final mulching of planting beds and trees

1. Timing: At end of the maintenance period.
2. Watering: Thoroughly moisten soil before remulching. Water where necessary.
3. Depth of mulch (minimum): 75 mm.

Ss_45_35_05/809 Plants that have failed to thrive

1. Defects due to materials or workmanship not in accordance with the Contract
 - 1.1. Exclusions: Theft or malicious damage after completion.
 - 1.2. Rectification: Replace with equivalent plants/ trees/ shrubs.
2. Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater.
3. Timing of making good: During the next suitable planting season.

Ss_45_35_05/810 Instructions for maintenance

1. Recommended procedures for maintenance of planting work for one year
 - 1.1. Format: Printed report.
 - 1.2. Timing: Before end of maintenance period.

Ω End of System

Ss_45_35_45_33 Grass and wildflower seeding systems

Systems

Ss_45_35_45_33 Grass and wildflower seeding systems

1. System performance: [Ss_45_35_45/220 Performance of grass swards and wildflower meadows](#)
2. Topsoil preparation
 - 2.1. Herbicide: Contractor to submit proposals- No Glyphosate products to be used.
3. Seed: [Pr_45_30_76_97 Wildflower seeds](#)
4. Execution: [Ss_45_35_45/602 Water restrictions](#); [Ss_45_35_45/612 Cultivation of topsoil](#); [Ss_45_35_45/603 Disposal of arisings](#); [Ss_45_35_45/621 Preparation of undisturbed topsoil](#); [Ss_45_35_45/624 Setting out of seeded and turfed areas](#); [Ss_45_35_45/631 Final preparatory works to seed beds and areas to be turfed](#); [Ss_45_35_45/635 Wildflower seeding](#)
5. System completion: [Ss_45_35_45/801 Seeding and turf maintenance up to practical completion](#); [Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period](#); [Ss_45_35_45/803 Failures in the establishment period](#); [Ss_45_35_45/811 Watering](#); [Ss_45_35_45/821 Finishing edges to seeded or turfed areas](#); [Ss_45_35_45/854 Cutting meadows prior to practical completion](#)

System performance

Ss_45_35_45/220 Performance of grass swards and wildflower meadows

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. Appearance: A closely knit, continuous ground cover of even density, height and colour.
2. Growth and development: Healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease.

Products

Pr_45_30_76_97 Wildflower seeds

1. Supplied by: Emmorsgate Seeds or equal performance.
2. Standard: In accordance with the Flora Locale [Code of practice for collectors, growers and suppliers of native flora. Planting with wildlife in mind.](#)
3. Mix type: Emmorsgate Seeds or equal performance.
4. Species: Standard General Purpose Meadow Mixture EM2:

Wild flowers – 15%

0.90% Achillea millefolium – Yarrow

1.20% Centaurea nigra – Common Knapweed

0.075% Cruciferae laevipes – Crosswort

Wildflower meadow seeding systems

0.15% Daucus carota – Wild Carrot

0.30% Knautia arvensis – Field Scabious

0.75% Leucanthemum vulgare – Oxeye Daisy

2.10% Malva moschata – Musk Mallow

3.00% Plantago lanceolata – Ribwort Plantain

2.25% Poterium sanguisorba ssp sanguisorba – Salad Burnet

0.15% Primula veris – Cowslip

0.60% Ranunculus acris – Meadow Buttercup

2.25% Silene dioica – Red Campion

0.075% *Silene vulgaris* – Bladder Campion
1.20% *Galium verum* – Lady's Bedstraw

Grasses – 85%

8.50% *Agrostis capillaris* – Common Bent (w)
29.75% *Cynosurus cristatus* – Crested Dogtail
25.50% *Festuca rubra* – Red Fescue
4.25% *Phleum bertolonii* – Smaller Cat's-tail (w)
17.00% *Poa pratensis* – Smooth-stalked Meadow-grass

Sow at 4gms/m²

Standard Cornfield Mixture - EC1

Wild Flowers 100%

45.00% *Agrostemma githago* – Corncockle
20.00% *Centaurea cyanus* – Cornflower
10.00% *Cota austriaca* – (*Anthemis austriaca*) – Corn Chamomile
20.00% *Glebionis segetum* – (*Chrysanthemum segetum*) – Corn Marigold
5.00% *Papaver rhoeas* – Common Poppy

Sow at 2gms/m².

5. Origin and provenance: British native. UK origin.
6. Germination testing: Submit germination test results to [International rules for seed testing \(ISTA\)](#).

Execution

Ss_45_35_45/602 Water restrictions

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. Timing of seeding or turfing operations: If water supply is or is likely to be restricted by emergency legislation do not carry out seeding/ turfing until instructed.
2. After seeding or turfing: If seeding or turfing has been carried out and the water supply is or is likely to be restricted by emergency legislation, obtain instructions on watering.

Ss_45_35_45/603 Disposal of arisings

1. Generally: Leave the works in a clean, tidy condition at completion.
2. Biodegradable arisings: Remove to recycling facility.
3. Grass cuttings: Remove to recycling facility.
4. Tree roots and stumps: Remove from site.
5. Shrub and tree prunings: Remove to recycling facility.
6. Litter and non-biodegradable arisings: Remove from site.
7. Diseased plant material: Remove from site.
8. Stones removed during cultivation and topsoil preparation: Remove from site.
9. Contamination: Remove from site material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

Ss_45_35_45/612 Cultivation of topsoil

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. Grading and cultivation
 - 1.1. Standard: In accordance with [BS 4428](#).
 - 1.2. Category: Grading to to engineers details.
 - 1.3. Depth: 150 mm.

2. **Timing:** Following the preparation of undisturbed topsoil. Two to three days before seeding or laying turf.
3. **Working conditions**
 - 3.1. **Soil condition:** Reasonably dry and workable.
 - 3.2. **Weather conditions:** Suitably dry.
4. **Compacted topsoil:** Break up to full depth.
5. **Soil within root spread of trees and shrubs to be retained:** Do not dig or cultivate.
6. **Surface**
 - 6.1. **Contours:** Smooth and flowing, with falls for adequate drainage.
 - 6.2. **Hollows and ridges:** Not permitted.
7. **Remove visible weeds, roots and large stones with any dimensions exceeding:** 50 mm.
8. **Marrying in with adjacent levels:** Extend cultivation into adjacent areas sufficiently to ensure full marrying in with no step in level.
9. **Notice:** Give notice if required levels cannot be achieved by movement of existing soil.

Ss_45_35_45/621 Preparation of undisturbed topsoil

1. **Cultivation:** Plough or dig over to full depth of topsoil.
2. **Hard ground:** Break up thoroughly.
3. **Remove visible roots and large stones with a diameter greater than:** 50 mm.
4. **Soil within root spread of trees and shrubs to be retained:** Do not dig or cultivate.
5. **Weed control**
 - 5.1. **Treatment:** Submit proposals.
 - 5.2. **Timing of herbicide application before cultivation:** Submit proposals.

Ss_45_35_45/624 Setting out of seeded and turfed areas

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. **Boundaries:** Mark clearly.
2. **Delineation:** In straight lines or smoothly flowing curves as shown on drawings.

Ss_45_35_45/631 Final preparatory works to seed beds and areas to be turfed

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. **Seed bed**
 - 1.1. **Generally:** Loosen, aerate and break up topsoil to a tilth suitable for blade grading. Reduce to fine, firm tilth with good crumb structure. Remove visible weeds.
 - 1.2. **Depth of final cultivation:** 75 mm.
 - 1.3. **Surface preparation:** Rake to a regular, even surface, friable and lightly firmed but not over compacted.
 - 1.4. **Size (minimum) of surface stones and earth clods to be removed**
 - 1.4.1. **General grass areas to be seeded:** 20 mm.
 - 1.4.2. **Fine lawn areas to be seeded:** 10 mm.
 - 1.4.3. **Areas to be turfed:** 25 mm.
 - 1.4.4. **Meadow areas:** 50 mm.

Ss_45_35_45/635 Wildflower seeding

1. **Generally:** Establish good seed contact with the seed bed.

2. Method: Manually broadcast.
3. Distribution: Two equal sowings at right angles to each other.
4. Timing: March to May or August to October.
5. Application rate: To supplier's recommended rate suitable for the mix.
6. Raking and firming of seed bed: Lightly rake or harrow the seed bed after seeding. Firm with a lightweight roller.

System completion

Ss_45_35_45/801 Seeding and turf maintenance up to practical completion

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. Generally: Maintain in a manner appropriate to the intended use. Leave the works in a clean, tidy condition.
2. Seeded and turfed areas
 - 2.1. Condition: Maintain a healthy vigorous sward, free from disease, fungal growth, discolouration, scorch or wilt.
 - 2.2. Waterlogging and compaction: Prevent.
 - 2.3. Damage: Repair trampling, abrasion or scalping.
 - 2.4. Litter and fallen leaves: Remove regularly to maintain a neat appearance.
3. Visits to site for inspection
 - 3.1. Notice: Give notice before visiting site up to practical completion
 - 3.2. Period of notice: One week.

Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. Generally: Maintain in a manner appropriate to the intended use. Leave the works in a clean, tidy condition.
2. Seeded and turfed areas
 - 2.1. Condition: Maintain a healthy vigorous sward, free from disease, fungal growth, discolouration, scorch or wilt.
 - 2.2. Waterlogging and compaction: Prevent.
 - 2.3. Damage: Repair trampling, abrasion or scalping.
 - 2.4. Litter and fallen leaves: Remove regularly to maintain a neat appearance.
3. Visits to site for inspections
 - 3.1. Notice: Give notice before visiting site up to the end of the rectification period.
 - 3.2. Period of notice: One week.

Ss_45_35_45/803 Failures in the establishment period

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. Defective materials or workmanship: Areas that have failed to thrive.
2. Exclusions: Theft or malicious damage.
3. Method of making good: Re-cultivation and re-seeding/ re-turfing.
4. Timing of making good: The next suitable planting season.

Ss_45_35_45/811 Watering

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. **Quantity:** Wet full depth of topsoil.
2. **Application:** Even and without displacing seed, seedlings or soil.
3. **Frequency:** As necessary to ensure the establishment and continued thriving of seeding and turfing.

Ss_45_35_45/821 Finishing edges to seeded or turfed areas

Shared by: [Ss_45_35_45_35 Grass seeding systems](#)

1. **Finishing edges:** Draw back adjacent topsoil and re-form edges to neat straight lines or smooth flowing curves, sloping slightly back from vertical. Keep clear of adjacent topsoil or mulch.
2. **Turf edging:** Keep moist at all times.

Ss_45_35_45/854 Cutting meadows prior to practical completion

1. **Conditions for cutting:** When the sward is reasonably dry.
2. **Preparation:** Before each cut remove litter and debris.
3. **Initial cutting**
 - 3.1. **Height:** 75 mm.
 - 3.2. **Timing:** To be agreed at practical completion depending on timing and growth of annual nurse crop.
4. **Cuttings:** Remove from site.

Ω End of System

Ss_45_35_45_35 Grass seeding systems

Systems

Ss_45_35_45_35 Grass seeding systems

1. System performance: [Ss_45_35_45/220 Performance of grass swards and wildflower meadows](#)
2. Topsoil preparation
 - 2.1. Fertilizer: Pre-seed fertilizer to Amenity Seed mix only- not species rich or wildflower mixes.
3. Seed: [Pr_45_30_76_34 Grass seeds](#)
4. Execution: [Ss_45_35_45/624 Setting out of seeded and turfed areas](#); [Ss_45_35_45/631 Final preparatory works to seed beds and areas to be turfed](#); [Ss_45_35_45/633 Grass seeding](#); [Ss_45_35_45/639 Forming edges to seeded areas](#); [Ss_45_35_45/612 Cultivation of topsoil](#); [Ss_45_35_45/602 Water restrictions](#); [Ss_45_35_45/623 Finished levels of topsoil after settlement](#)
5. System completion: [Ss_45_35_45/801 Seeding and turf maintenance up to practical completion](#); [Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period](#); [Ss_45_35_45/803 Failures in the establishment period](#); [Ss_45_35_45/811 Watering](#); [Ss_45_35_45/821 Finishing edges to seeded or turfed areas](#); [Ss_45_35_45/851 First cut of grassed areas](#); [Ss_45_35_45/853 Cutting grassed areas prior to practical completion](#)

System performance

See [Ss_45_35_45/220 Performance of grass swards and wildflower meadows](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

Products

Pr_45_30_76_34 Grass seeds

1. Supplied by: Germinal Amenity
Customer Services
01522 868714
expert@germinalamenity.com
Camp Road
Witham St. Hughes
Lincoln LN6 9QJ
or accepted equivalent.
2. Mix type: Grass seed mix for Amenity Grass areas - Mix A24 Wear and Tear.
3. Species: To supplier's list.

Sow @ 50 gms/m2.
4. Origin and provenance: British provenance.
5. Certification
 - 5.1. Standard: In accordance with European Commission purity and germination regulations.
 - 5.2. Level of certification: Blue label certification.
 - 5.3. Submittals: Official Seed Testing Station certificate of germination, purity and composition.
6. Freshness: Produced for the current growing season.
7. Execution: [Pr_45_30_76/603 Protection of seeds](#)

Execution

Pr_45_30_76/603 Protection of seeds

1. Protection during handling, storage and transport: Protect seeds from moisture and frost.

See [Ss_45_35_45/602 Water restrictions](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

See [Ss_45_35_45/612 Cultivation of topsoil](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

Ss_45_35_45/623 Finished levels of topsoil after settlement

1. Finished level of topsoil for grass or meadows in relation to adjoining paving, kerbs or hard surfaces: 30 mm above. Profiles at swales / filter drains etc to engineers details.
2. Finished level of topsoil for grass or meadows in relation to DPC of adjoining buildings (minimum): 150 mm below.
3. Finished level of topsoil for grass or meadows in relation to adjoining planting areas: 25 mm above.
4. Tolerance for specified levels on sportsfields
 - 4.1. From levels shown on drawings: ± 75 mm.
 - 4.2. Evenness along a 2 m straight edge: ± 25 mm.
5. Within root spread of existing trees: Do not change levels.
6. Adjoining grassed areas: Marry in with adjacent levels.
7. Thickness of turf or top dressing: Included in stated values.

See [Ss_45_35_45/624 Setting out of seeded and turfed areas](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

See [Ss_45_35_45/631 Final preparatory works to seed beds and areas to be turfed](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

Ss_45_35_45/633 Grass seeding

1. Generally: Establish good seed contact with the seed bed.
2. Method: Manually broadcast.
3. Distribution: Two equal sowings at right angles to each other.
4. Timing: April to June or August to October.
5. Application rate: Amenity seed mix: 50 gms/m²
Wildflower mix: 20 gms/m².
6. Raking and firming of seed bed: Lightly rake or harrow the seed bed after seeding. Firm with a lightweight roller.

Ss_45_35_45/639 Forming edges to seeded areas

1. Timing: After seeded areas are well established.
2. Forming edges: Draw back soil and form edges to neat straight lines or smooth flowing curves, sloping slightly back from vertical. Keep clear of adjacent topsoil or mulch.
3. Arisings: Remove from site.

System completion

See [Ss_45_35_45/801 Seeding and turf maintenance up to practical completion](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

See [Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

See [Ss_45_35_45/803 Failures in the establishment period](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

See [Ss_45_35_45/811 Watering](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

See [Ss_45_35_45/821 Finishing edges to seeded or turfed areas](#) in [Ss_45_35_45_33 Grass and wildflower seeding systems](#)

Ss_45_35_45/851 First cut of grassed areas

1. Conditions for cutting: When grass is reasonably dry.
2. Height of initial growth (nominal): 75 mm.
3. Preparation
 - 3.1. Debris and litter: Remove from site.
 - 3.2. Stones and earth clods larger than 25 mm in any dimension: Remove from site.
4. Height of first cut (nominal): 40 mm.
5. Arisings: Remove from site.

Ss_45_35_45/853 Cutting grassed areas prior to practical completion

1. Conditions for cutting : When grass is reasonably dry.
2. Preparation: Before each cut remove litter and debris.
3. Height of growth at any time (maximum): Amenity grass mix: 75 mm
Wildflower mix: 150 mm.
4. Cutting
 - 4.1. Timing: As and when necessary.
 - 4.2. Height (nominal): Amenity grass mix: 25 mm
Wildflower mix: 50 mm.
 - 4.3. Arisings: Remove from site.
5. Trimming
 - 5.1. Locations: All edges.
 - 5.2. Arisings: Remove from site.

Ω End of System

Austin-Smith:Lord

Enhancing Life & Environments By Design