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Ss_15_10_30_25

Earthworks excavating systems

Systems

Ss_15_10_30_25 Earthworks excavating systems

1. System performance: Ss_15_10_30/210 Testing, filling, compaction and treatment of formations Type A
2. Execution: Ss_15_10_30/602 Site clearance generally;
Ss_15_10_30/610 Stripping topsoil;
Ss_15_10_30/614 Handling topsoil for reuse or sale;
Ss_15_10_30/616 Removal of excavated topsoil;
Ss_15_10_30/618 Storage of excavated topsoil;
Ss_15_10_30/621 Storage of excavated subsoil;
Ss_15_10_30/622 Removal of excavated subsoil;
Ss_15_10_30/626 Excavations next to existing foundations;
Ss_15_10_30/650 Unstable ground;
Ss_15_10_30/654 Unrecorded features;
and Ss_15_10_30/666 Excavations which encounter springs or running water. Ss_15_10_30/662 Treatment of underground structures in landscape areas

System performance

Ss_15_10_30/210 Testing, filling, compaction and treatment of formations Type A

1. Requirements for acceptability and testing: **In accordance with Appendix 6/1 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
2. Requirements for compaction: **In accordance with Appendix 6/3 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
3. Requirements to fill to structures and fill above structural foundations: **In accordance with Appendix 6/6 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
4. Requirements for sub-formation and capping and preparation and surface treatment of formation: **In accordance with Appendix 6/7 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
5. Requirements for earthwork environmental bunds, landscape areas, strengthened embankments: **In accordance with Appendix 6/9 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**

Execution

Ss_15_10_30/602 Site clearance generally

1. General: **Clear site of rubbish, debris and vegetation. Do not compact topsoil.**
2. Timing: **Before topsoil stripping, if any.**
3. Removal of non-organic matter
 - 3.1. Remove stones with any dimension exceeding: **50 mm.**
 - 3.2. Contamination: **Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.**
4. Application of herbicide
 - 4.1. Type of herbicide: **Non-residual.**
 - 4.2. Point of application: **To areas to receive planting and To areas to receive gravel surfacing.**
5. Arisings

- 5.1. Arising materials: **Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings, and other undesirable matter.**
- 5.2. Required actions: **Remove from site.**

Ss_15_10_30/610 Stripping topsoil

1. General requirements: Ss_15_10_30/602 Site clearance generally .
2. Depth of existing topsoil (estimated average value): **150 mm.**
3. Topsoil strip
 - 3.1. Extent of topsoil strip: **In areas where there will be regrading, buildings, pavings, roads and in other areas shown on drawings.**
 - 3.2. Depth (average) to be removed: **150 mm.**
 - 3.3. Topsoil around trees: **Do not remove topsoil from below the spread of trees to be retained.**
4. Notice (minimum)
 - 4.1. Period of notice (minimum): **Seven days.**
 - 4.2. Timing: **Before beginning general excavation or filling.**
5. Site storage of topsoil: **Keep separate from excavated sub-soil.**

Ss_15_10_30/614 Handling topsoil for reuse or sale

1. Standard: **To BS 3882.**
2. Multiple handling: **Keep to a minimum. Use topsoil immediately after stripping where possible.**
3. Material not to be mixed with topsoil: **Subsoil, stone, hardcore, rubbish or material from demolition works. Other soil or material containing aggressive weeds, sharps, plastics and non-soil-forming materials and notifiable animal or plant diseases. Oil, fuel, cement or other substances harmful to plant growth. Other classifications of topsoil.**
4. Aggressive weeds: **Notify the presence of species included in the Weeds Act, section 2 or the Wildlife and Countryside Act 1981 (as amended), Schedule 9, part II.**
5. Wet conditions: **Do not handle during or after heavy rainfall or when it is wetter than the plastic limit**
6. Timing: **Give notice.**

Ss_15_10_30/616 Removal of excavated topsoil

1. Required actions: **Remove surplus topsoil from site.**

Ss_15_10_30/618 Storage of excavated topsoil

1. Standard: **To BS 3882.**
2. Temporary storage heaps
 - 2.1. Location of temporary storage heaps: **Indicate extent and location of storage heaps on drawings.**
 - 2.2. Limitations
 - 2.2.1. Height (maximum): **1.0 m.**
 - 2.2.2. Width (maximum): **2.0 m.**
 - 2.2.3. Special requirements: **Tip soils loosely and firm the surface to encourage the shedding of water.**
3. Protection: **Do not place any other material on top of storage heaps; Do not allow construction plant to pass over storage heaps; and Prevent compaction and contamination.**
4. Treatment: **Apply herbicide at appropriate times to prevent seeding of weeds.**

Ss_15_10_30/621 Storage of excavated subsoil

1. Material to be reused
 - 1.1. Temporary storage heaps
 - 1.1.1. Required actions: **Stockpile in temporary storage heaps.**
 - 1.1.2. Locations of temporary storage heaps: **As approved by the clerk or works.**
 - 1.2. Required actions: **Spread and level surplus subsoil on site.**
 - 1.3. Relocation of surplus subsoil: **Indicate extent and location of storage heaps on drawings.**
 - 1.4. Protected areas: **Do not raise soil level within root spread of trees that are to be retained.**

Ss_15_10_30/622 Removal of excavated subsoil

1. Required actions: **Remove surplus subsoil from site.**

Ss_15_10_30/626 Excavations next to existing foundations

1. Required actions before excavation: **Excavate and inspect trial pits next to existing foundations to determine extent and formation levels.**
2. Amendments to new foundation next to existing foundations: **Consult with project Civil Engineer. Submit proposals.**
3. Timing for submission of proposals: **Submit within 5 working days of discovery of unrecorded features.**
4. Timing for submission of trial pit report (minimum): **Submit within 10 working days of inspection.**

Ss_15_10_30/650 Unstable ground

1. Excavation: **Keep stable at all times.**
2. Unstable excavations: **Submit proposals when newly excavated faces are too unstable to allow earthwork support to be installed.**
3. Instability likely to affect adjacent structures or roadways: **Take appropriate emergency action and contact Contract Administrator immediately.**

Ss_15_10_30/654 Unrecorded features

1. Actions for dealing with unrecorded features: **Give notice immediately if encountered and Submit proposals.**
2. Timing for submission of proposals: **Within 5 working days of discovery of unrecorded features.**

Ss_15_10_30/662 Treatment of underground structures in landscape areas

1. Walls, roads, foundations, disused services, drains, manholes etc: **Consult with project Civil Engineer. Submit proposals.**

Ss_15_10_30/666 Excavations which encounter springs or running water

1. Springs and running water: **Give notice immediately if encountered and Submit proposals for diversion.**

Ω End of System

Ss_15_10_30_90

Topsoil filling systems

Systems

Ss_15_10_30_90 Topsoil filling systems

1. System performance: Ss_15_10_30/210 Testing, filling, compaction and treatment of formations
2. Fill materials: 45-40-85/325 Imported topsoil and Ss_15_10_30/520 Site-made topsoil.
3. Execution: Ss_15_10_30/724 Spreading topsoil generally.

System performance

Ss_15_10_30/210 Testing, filling, compaction and treatment of formations

1. Requirements for acceptability and testing: **In accordance with Appendix 6/1 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
2. Requirements for compaction: **In accordance with Appendix 6/3 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
3. Requirements to fill to structures and fill above structural foundations: **In accordance with Appendix 6/6 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
4. Requirements for sub-formation and capping and preparation and surface treatment of formation: **In accordance with Appendix 6/7 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**
5. Requirements for earthwork environmental bunds, landscape areas, strengthened embankments: **In accordance with Appendix 6/9 of the Highways England MCHW Volume 1: Specification for highway works (SHW).**

Products

45-40-85/325 Imported topsoil

1. General requirements: Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally .
2. Supplier: **Contractor's choice .**
3. Source: **Local, within 20 mile radius.**
4. Standard: **To BS 3882 free of stone, brick and glass content.**
5. Classification: **Multipurpose.**
6. Soil textural class: **Any class within the acceptable range indicated in BS 3882, Figure 1.**

Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally

Shared by: Pr_45_31_89_41 Imported growing media

1. Purity: **Free of pests and disease.**
2. Foreign matter: **Visually free of undesirable and potentially injurious foreign matter, including fragments and roots of aggressive weeds, sticks, straw, subsoil, pieces of brick, concrete, wire, large lumps of clay or vegetation, metal objects, plastics, treated wood, textiles, sharp fragments of ceramics and glass, and similar foreign objects.**
3. Contamination

- 3.1. Topsoil and growing medium: **Do not use if contaminated with subsoil, rubbish or other materials that are: corrosive, explosive or flammable; hazardous to human or animal life; detrimental to healthy plant growth.**
- 3.2. Subsoil: In areas to receive topsoil or planting media, do not use subsoil contaminated with rubbish or other materials that are: corrosive, explosive or flammable; hazardous to human or animal life; detrimental to healthy plant growth.
4. Objectionable odour: **Not permitted.**
5. Give notice: If evidence or symptoms of soil contamination are discovered on the site or in topsoil or planting media to be imported.
6. Quantity: Provide as necessary to make up any deficiency of topsoil or growing media existing on site and to complete the work.

Pr_45_31_89_16 Composted materials

Shared by: Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Supplier: **Manufacturer's standard .**
2. Source: **Local, within a 20 mile radius.**
3. Certification: **To PAS 100.**
4. Compost type: **Spent mushroom compost.**
5. Horticultural parameters
 - 5.1. pH (1:5 water extract): **7.0–8.7.**
 - 5.2. Electrical conductivity (maximum, 1:5 water extract): **200 mS/m.**
 - 5.3. Moisture content (m/m of fresh weight): **35–55%.**
 - 5.4. Organic matter content (minimum): **25%.**
 - 5.5. Grading (air-dried samples): **95% passing 25 mm and 90% passing 10 mm screen mesh apertures.**
 - 5.6. Carbon:Nitrogen ratio (maximum): **20:1.**
6. Texture: **Friable.**
7. Objectionable odour: **Not permitted.**

Ss_15_10_30/520 Site-made topsoil

1. Base material: **Excavated topsoil.**
2. Additional materials: **Pr_45_31_89_16 Composted materials.**
3. Crumb structure: **Made up of discernible crumbs.**
4. Particles
 - 4.1. Size in any dimension (maximum): **50 mm.**
 - 4.2. Large particle content by dry weight (maximum): **2%.**
5. Organic content (by dry weight): **15–20%.**
6. Nutrient content: **Minimum index values for nitrogen, phosphorus, potassium and magnesium to be as for BS 3882 multipurpose topsoil.**

Execution

Ss_15_10_30/724 Spreading topsoil generally

1. Method: **By machine or for any reason impractical shall be executed by hand.**
2. Locations for spreading topsoil: **Any areas where topsoil is required for new planting.**

3. Preparatory works
 - 3.1. 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 overcompaction.
 - 3.2. Loosening
 - 3.2.1. Light and non-cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300 mm.
 - 3.2.2. Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450 mm.
 - 3.2.3. Rock and chalk subgrades: Lightly scarify to promote free drainage.
 - 3.3. Removing stones
 - 3.3.1. Timing: Immediately before spreading topsoil.
 - 3.3.2. Size in any dimension (maximum): 50 mm.
 - 3.4. Arisings, contaminants and debris: Remove from site.
 - 3.5. Inspecting formations: Notify.
4. Temporary roads and surfacing: Remove before spreading topsoil.
5. Layers
 - 5.1. Depth (maximum): Lay in 100 mm depths.
 - 5.2. Firming: Gently firm each layer before spreading the next.
6. Depths after firming and settlement (minimum): Seed and turf areas minimum 150 mm. Shrub and hedge planting areas minimum 450 mm.
7. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs.
8. Protected areas: Do not raise soil level within root spread of trees that are to be retained.
9. Period of notice before spreading topsoil (minimum): Seven days.

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. Standard: **Prepare trees and transplant in accordance with BS 8545.**
2. Preparatory work to soil
3. Trees: Pr_45_30_90_09 Bare-root trees type A;
Pr_45_30_90_17 Container-grown conifers;
Pr_45_30_90_21 Container-grown trees;
Pr_45_30_90_05 Bare-root conifers;
Pr_45_30_90_72 Rootballed conifers;
and Pr_45_30_90_74 Rootballed trees.
4. Tree pit
 - 4.1. Drainage
 - 4.2. Root barriers: Pr_25_57_65_60 Plastics sheets type B.
 - 4.3. Irrigation and aeration accessories: **Platipus piddler tree irrigation system PID0 or similar approved.**
 - 4.4. Tree pit backfill material: Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material and Pr_45_31_89_41 Imported growing media.
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. Weed control fabric: Pr_25_57_65_60 Plastics sheets type A
 - 6.2. Loose fill tree pit surfacing: Pr_45_31_63_56 Natural bark.
7. 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_05/692 Applying loose mulch around trees;
and Ss_45_35_05/703 Double staking.
8. System completion: Ss_45_35_05/801 Operations immediately after planting;
Ss_45_35_05/806 Watering new planting;
and Ss_45_35_05/807 Final mulching of planting beds and trees.

Products

Pr_25_57_65_60 Plastics sheets type A

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Manufacturer: **Contractor's choice .**
2. Material: **Polypropylene and polyethylene laminate.**
3. Purpose: **Weed control layer.**
4. Standard: **To BS EN 13249.**
5. Performance characteristics
 - 5.1. Tensile strength (minimum): **6 kN/m².**

- 5.2. Tear resistance: **800 N.**
- 5.3. Elongation to break: **28%**
- 5.4. Fire performance: **Required.**
- 5.5. Antistatic properties: **Required.**
- 6. Third-party certification: **British Board of Agrément (BBA) Certificate.**
- 7. Form: **Non-woven.**
- 8. Physical properties
 - 8.1. Colour: **Grey.**
 - 8.2. Weight (minimum): **90 g/m².**
 - 8.3. Dimensions
 - 8.3.1. Thickness (minimum): **0.68 mm.**
 - 8.3.2. Width (minimum): **2.25 m.**
 - 8.3.3. Roll length (minimum): **50 m.**
- 9. Execution: Pr_25_57_65/630 Installing geotextile sheet.

Pr_25_57_65_60 Plastics sheets type B

- 1. Manufacturer: **GreenBlue Urban Ltd. RER600A**
- 2. Material: **High density polyethylene (PE-HD).**
- 3. Purpose: **Root barrier.**
- 4. Execution: **As per manufacturer recommendations.**

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

Shared by: Pr_45_30_80_20 Container-grown shrubs

- 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: **Country of origin.**

Pr_45_30_90_05 Bare-root conifers

- 1. General requirements: Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers .
- 2. Supplied by: **Contractor's choice .**

3. Standards: **Trees and shrubs** to BS 3936-1.
4. Root condition and protection: **Bare root** (bagged: co-extruded polythene – black inside, white outside), containing and enclosing the whole root system.
5. Origin and provenance: **British grown**.
6. Execution: Pr_45_30_90/614 Plant handling, storage and transport.

Pr_45_30_90_09 Bare-root trees type A

1. General requirements: Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers .
2. Supplied by: **Contractor's choice** .
3. Standards: **Trees and shrubs** to BS 3936-1.
4. Root condition and protection: **Bare root** (bagged: co-extruded polythene – black inside, white outside), containing and enclosing the whole root system.
5. Origin and provenance: **British grown**.
6. Execution: Pr_45_30_90/614 Plant handling, storage and transport.

Pr_45_30_90_17 Container-grown conifers

1. General requirements: Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers .
2. Supplied by: **Contractor's choice** .
3. Standards: **Trees and shrubs** to BS 3936-1.
4. Root condition and protection: **Container grown**. Plants to be centred in the container, well rooted, firm and moist on delivery. Surface of growing medium to be free of all weeds.
5. Origin and provenance: **British grown**.
6. Execution: Pr_45_30_90/614 Plant handling, storage and transport.

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. Supplied by: **Contractor's choice** .
3. Standards: **Trees and shrubs** to BS 3936-1.
4. 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.
5. Origin and provenance: **British grown**.
6. Execution: Pr_45_30_90/614 Plant handling, storage and transport.

Pr_45_30_90_72 Rootballed conifers

1. General requirements: Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers .
2. Supplied by: **Contractor's choice** .
3. Standards: **Trees and shrubs** to BS 3936-1.
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 the continuing growth of the plant. Roots to penetrate the whole ball.
5. Origin and provenance: **British grown**.
6. Execution: Pr_45_30_90/614 Plant handling, storage and transport.

Pr_45_30_90_74 Rootballed trees

1. General requirements: Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers .
2. Supplied by: **Contractor's choice** .
3. Standards: **Trees and shrubs** to BS 3936-1.
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 grown**.
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: **Contractor's choice** .
2. Source: **Local, within a 20 mile radius.**
3. Quality: **Dry, no decomposition, no signs of mould or fungi. Free of methyl bromide and other contaminants.**

See Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally in Ss_15_10_30_90 Topsoil filling systems

See Pr_45_31_89_16 Composted materials in Ss_15_10_30_90 Topsoil filling systems

Pr_45_31_89_41 Imported growing media

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. General requirements: Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally .
2. Supplier: **Contractor's choice** .
3. Source: **Local , within a 20 mile radius.**
4. Growing medium: **Urban tree planting soil.**
5. Soil textural class
 - 5.1. Standard: **To BS 3882.**
 - 5.2. Class: **Any class within the acceptable range indicated in BS 3882, Figure 1.**
6. Permitted materials for special imported topsoil and growing media
 - 6.1. Permitted materials: **Composted bark.**
 - 6.2. Notice: **Give notice prior to ordering or using permitted materials.**
 - 6.3. Declaration of compliance
 - 6.3.1. Materials generally: **In accordance with BS EN 13650.**
 - 6.3.2. Composted materials: **In accordance with PAS 100.**
7. Materials not permitted: **Peat;
Products containing peat;
and River and canal dredgings.**

Pr_45_31_89_58 Organic fertilizers

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems and Ss_45_35_45_35 Grass seeding systems

1. Supplier: **Manufacturer's standard** .
2. Standard: **In accordance with The EC Fertilisers (England and Wales) Regulations 2006.**
3. Fertilizer type: **General purpose fertilizer.**
4. Availability to plants: **Controlled release.**

Pr_45_63_64_83 Stake ties

1. Manufacturer: **Contractor's choice** .
2. Tie type: **Rubber belt.**
3. Material: **Rubber.**

Pr_45_63_64_84 Stakes

1. Manufacturer: **Contractor's choice** .
2. Material: **Softwood, peeled chestnut, larch or oak.**
3. Quality: **Straight. Free from projections and large or edge knots.**
4. Preservative treatment: **To provide a 20 year service life.**
5. Cross-section size (minimum): **75 mm diameter.**
6. Length: **2100 mm.**
7. End profiles: **Pointed at one end, cut square at other.**
8. Accessories: **Matching timber cross bars, 38 x 75 x 900 mm.**

Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Composition: **Previously prepared mixture of topsoil excavated from pit and additional soil ameliorants and/ or fertilizer as required.**
2. Backfill base material: **Excavated topsoil.**
3. Additional soil ameliorant materials: **Pr_45_31_89_16 Composted materials.**
4. Fertilizer: **Pr_45_31_89_58 Organic fertilizers.**

Execution

Pr_25_57_65/630 Installing geotextile sheet

1. Preparation of subgrade: **Before laying sheet, remove humps and sharp projections and Fill hollows.**
2. Jointing
 - 2.1. Overlap (minimum): **300 mm.**
3. Protection of geotextile sheet: **Protect from exposure to light.**
4. Tears in geotextile sheet: **Repair with patch of same material with a minimum overlap of 300 mm beyond extent of damage.**

Pr_45_30_90/614 Plant handling, storage and transport

Shared by: Pr_45_30_80_20 Container-grown shrubs

1. Standard: **In accordance with HTA Handling and establishing landscape plants.**
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_05/601 Amenity planting generally

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

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

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

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.**
7. Colchicum (crocus): **July/ August.**
8. Green herbaceous bulbs: **After flowering in spring.**
9. Aquatic plants: **May/ June or September/ October.**
10. Annual plants: **March/ April**

Ss_45_35_05/605 Climatic conditions for amenity planting

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

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

Ss_45_35_05/642 Planting amenity trees in pits

1. Pit dimensions
 - 1.1. Plan size (minimum): **700 x 700 mm.**
 - 1.2. Depth (minimum): **1000 mm.**
2. Sloping ground: **Maintain minimum depth throughout.**
3. Excavated material: **Remove arisings.**
4. Pit bottoms
 - 4.1. Generally: **Break up base.**
 - 4.2. Profile: **Slightly raise centre.**
 - 4.3. Break up depth (nominal): **300 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 900 mm radius measured from tree stem.
3. Depth: 50 mm.
4. Finished level of mulch: 30 mm below adjacent grassed or paved areas.

Ss_45_35_05/703 Double staking

1. General: Do not impede natural movement of plants or restrict growth.
2. Position: Either side of tree position and perpendicular to wind direction.
3. Driving: Drive stakes vertically at least 450 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. Horizontal bracing: Install stake cross bar on windward side of the tree and as close as possible to the stem without making contact with the bark. Fix with galvanized round wire nails to BS 1202-1, minimum 75 mm long and 3.75 mm gauge.
8. Tying
 - 8.1. Method: Secure tree firmly to the stakes without causing constriction or chafing. Ensure support in all directions.
 - 8.2. Tie position: Within 25 mm of the top of the stakes.
9. 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.

System completion

Ss_45_35_05/801 Operations immediately after planting

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

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_05/806 Watering new planting

Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

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) : Every second day.
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): 50 mm.

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. Herbicide: Pr_45_31_37_56 Non-selective contact herbicides.
 - 1.2. Soil ameliorant: Pr_45_31_89_16 Composted materials.
 - 1.3. Fertilizer: Pr_45_31_89_58 Organic fertilizers.
 - 1.4. Weed control fabric: Pr_25_57_65_60 Plastics sheets type A.
2. Trees and shrubs: Pr_45_30_80_20 Container-grown shrubs.
3. Tree and shrub pit backfill material: Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material and Pr_45_31_89_41 Imported growing media.
4. Mulch: Pr_45_31_63_56 Natural bark.
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_05/631 Random setting out of amenity planting;
Ss_45_35_05/635 Setting out of formal hedging;
Ss_45_35_05/643 Planting amenity shrubs in pits;
Ss_45_35_05/663 Planting into mulch matting and geotextile fabric;
Ss_45_35_05/691 Applying loose mulch to planting beds;
and Ss_45_35_05/693 Laying mulch matting and geotextile fabric.
6. System completion: Ss_45_35_05/801 Operations immediately after planting;
Ss_45_35_05/806 Watering new planting;
and Ss_45_35_05/809 Plants that have failed to thrive.

Products

See Pr_25_57_65_60 Plastics sheets type A in Ss_45_35_05_66 Pit-planted large tree systems

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. Supplied by: **Contractor's choice** .
3. Standards: **Trees and shrubs** to BS 3936-1.
4. 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.**
5. Origin and provenance: **British grown.**
6. 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_31_37_56 Non-selective contact herbicides

Shared by: Ac_85_30_02/190 Amenity planting maintenance , Ss_45_35_45_33 Grass and wildflower seeding systems , Ac_85_30_01/190 Amenity grass maintenance , Ac_85_30_50/195 Meadow grass maintenance and Ss_45_35_45_35 Grass seeding systems

1. Manufacturer: **Contractor's choice** .
2. Third party certification: **BBA**.
3. Target weeds: **Perennial weeds;**
All broad leaved weeds;
Docks (Rumex spp);
Injurious weed species listed in the Weeds Act 1959 and Wildlife and Countryside Act 1981;
Japanese knotweed (Fallopia spp);
Nettles (Urtica spp);
Ragworts (Senecio spp);
Thistles (Cirsium spp);
and Willowherb (Epilobium spp).
4. Type of herbicide: **Glufosinate ammonium**.
5. Execution: Pr_45_31_37/603 Application of non-selective contact herbicides.

See Pr_45_31_63_56 Natural bark in Ss_45_35_05_66 Pit-planted large tree systems

See Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally in Ss_15_10_30_90 Topsoil filling systems

See Pr_45_31_89_16 Composted materials in Ss_15_10_30_90 Topsoil filling systems

See Pr_45_31_89_41 Imported growing media in Ss_45_35_05_66 Pit-planted large tree systems

See Pr_45_31_89_58 Organic fertilizers in Ss_45_35_05_66 Pit-planted large tree systems

See Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material in Ss_45_35_05_66 Pit-planted large tree systems

Execution

See Pr_25_57_65/630 Installing geotextile sheet in Ss_45_35_05_66 Pit-planted large tree systems

See Pr_45_30_90/614 Plant handling, storage and transport in Ss_45_35_05_66 Pit-planted large tree systems

Pr_45_31_37/603 Application of non-selective contact herbicides

1. Application rate: **As per manufacturer recommendation**.
2. Timing and frequency: **Two weeks prior to lifting topsoil**.
3. Areas not to be sprayed: **Wildflower areas**.
4. Disposal of arisings
 - 4.1. Timing: **Allow recommended period for herbicide to take effect before clearing dead weeds**.
 - 4.2. Operations: **Remove to contractor's tip**.

See Ss_45_35_05/601 Amenity planting generally in Ss_45_35_05_66 Pit-planted large tree systems

See Ss_45_35_05/603 Times of year for amenity planting in Ss_45_35_05_66 Pit-planted large tree systems

See Ss_45_35_05/605 Climatic conditions for amenity planting 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 9–23 plants of the same species**.
2. Planting density: **As Plant schedule**.

Ss_45_35_05/635 Setting out of formal hedging

1. Generally: **Set out plants evenly.**
2. Formation: **Two staggered rows.**
3. Alignment: **Straight lines or smoothly flowing curves, following profile of the ground.**
4. Distance between plants: **200 mm.**
5. Distance between rows: **300 mm.**

Ss_45_35_05/643 Planting amenity shrubs in pits

1. Dimensions
 - 1.1. Plan size (minimum): **Twice the width of the root spread.**
 - 1.2. Depth (minimum): **1.5 times the depth of the root system.**
2. Sloping ground: **Maintain minimum depth throughout.**
3. Pit bottoms
 - 3.1. Generally: **Break up base.**
 - 3.2. Profile: **Slightly raise centre.**
 - 3.3. Break up depth (nominal): **200 mm.**
4. Pit sides
 - 4.1. Profile: **Vertical.**
 - 4.2. Treatment: **Scarify.**

Ss_45_35_05/663 Planting into mulch matting and geotextile fabric

1. Planting: **Cut neat slits or flaps. Refit closely around plant stems.**
2. Overlay: **Mulching planting beds.**

Ss_45_35_05/691 Applying loose mulch to planting beds

1. Preparation: **Clear weeds. Water soil thoroughly.**
2. Coverage: **50 mm depth.**
3. Finished level of mulch: **30 mm below adjacent grassed or paved areas.**

Ss_45_35_05/693 Laying mulch matting and geotextile fabric

1. Timing: **Lay before planting.**
2. Watering: **Water soil thoroughly before laying.**
3. Laying: **In close contact with soil surface. Lap or butt joints as recommended by manufacturer, with no gaps.**
4. Fixings: **Plastics pegs.**

System completion

See Ss_45_35_05/801 Operations immediately after planting in Ss_45_35_05_66 Pit-planted large tree systems

See Ss_45_35_05/806 Watering new planting in Ss_45_35_05_66 Pit-planted large tree systems

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.

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: Pr_45_31_37_56 Non-selective contact herbicides.
3. Seed: Pr_45_30_76_97 Wildflower seeds.
4. Execution: Ss_45_35_45/624 Setting out of seeded and turfed areas;
Ss_45_35_45/635 Wildflower seeding;
Ss_45_35_45/612 Cultivation of topsoil;
and 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;
and 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

Shared by: Ac_85_30_50/195 Meadow grass maintenance

1. Supplied by: **Emorsgate Seeds.**
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. Origin and provenance: **British native.**
4. Germination testing: **Submit germination test results to ISTA** International rules for seed testing.
5. Freshness: **Produced for the current growing season.**
6. Execution: Pr_45_30_76/603 Protection of seeds.

See Pr_45_31_37_56 Non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

Execution

Pr_45_30_76/603 Protection of seeds

Shared by: Pr_45_30_76_34 Grass seeds

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

See Pr_45_31_37/603 Application of non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

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: **B.**
 - 1.3. Depth: **150 mm.**
2. Timing: **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_45/623 Finished levels of topsoil after settlement

Shared by: Ss_45_35_45_35 Grass seeding systems

1. Finished level of topsoil for grass or meadows in relation to adjoining paving, kerbs or hard surfaces: **30 mm below.**
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.**

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_45/635 Wildflower seeding

1. Generally: Establish good seed contact with the seed bed.
2. Method: To suit soil type, proposed usage, location and weather conditions during and after sowing.
3. Distribution: Two equal sowings at right angles to each other and diagonally to main axis.
4. Timing: March to May or August to October.
5. Application rate: 4 g/m².
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: 3 working days.

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: 3 working days.

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. General requirements: Ss_45_35_45/801 Seeding and turf maintenance up to practical completion **and** Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period.
2. Quantity: **Wet full depth of topsoil.**
3. Application: **Even and without displacing seed, seedlings or soil.**
4. Frequency: **Weekly.**

Ss_45_35_45/821 Finishing edges to seeded or turfed areas

Shared by: Ss_45_35_45_35 Grass seeding systems

1. General requirements: Ss_45_35_45/801 Seeding and turf maintenance up to practical completion **and** Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period.
2. Finishing edges: **Re-spread soil and mulch.**
3. 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: **March - April after autumn sowing or June - July after spring sowing.**
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. Herbicide: Pr_45_31_37_56 Non-selective contact herbicides.
 - 2.2. Fertilizer: Pr_45_31_89_58 Organic fertilizers.
3. Seed: Pr_45_30_76_34 Grass seeds.
4. Execution: Ss_45_35_45/612 Cultivation of topsoil;
Ss_45_35_45/623 Finished levels of topsoil after settlement;
Ss_45_35_45/624 Setting out of seeded and turfed areas;
Ss_45_35_45/633 Grass seeding;
Ss_45_35_45/639 Forming edges to seeded areas;
and Ss_45_35_45/677 Applying fertilizer as a top dressing.
5. System completion: 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;
and 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

Shared by: Ac_85_30_01/190 Amenity grass maintenance

1. Supplied by: **Emorsgate Seeds.**
2. Origin and provenance: **British grown.**
3. Certification
 - 3.1. Standard: **In accordance with EC purity and germination regulations.**
 - 3.2. Level of certification: **Official Seed Testing Station certificate of germination, purity and composition.**
 - 3.3. Submittals: **Official Seed Testing Station certificate of germination, purity and composition.**
4. Freshness: **Produced for the current growing season.**
5. Execution: Pr_45_30_76/603 Protection of seeds.

See Pr_45_31_37_56 Non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

See Pr_45_31_89_58 Organic fertilizers in Ss_45_35_05_66 Pit-planted large tree systems

Execution

40-35-35/632 Sowing seed

1. General: Establish good seed contact with the root zone.
2. Method: Manually broadcast, raked and rolled.
3. Distribution: Two equal sowings at right angles to each other and diagonally to main axis.

See Pr_45_30_76/603 Protection of seeds in Ss_45_35_45_33 Grass and wildflower seeding systems

See Pr_45_31_37/603 Application of non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

See Ss_45_35_45/612 Cultivation of topsoil in Ss_45_35_45_33 Grass and wildflower seeding systems

See Ss_45_35_45/623 Finished levels of topsoil after settlement in Ss_45_35_45_33 Grass and wildflower seeding systems

See Ss_45_35_45/624 Setting out of seeded and turfed areas 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. Timing: April to October and August to October.
3. Application rate: 25 g/m².
4. Raking and firming of seed bed: Lightly rake or harrow the seed bed after seeding. Firm with a lightweight roller.
5. General requirements: 40-35-35/632 Sowing seed .

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.

Ss_45_35_45/677 Applying fertilizer as a top dressing

1. Locations for application: All grassed areas.
2. Application
 - 2.1. Spreading: Evenly, in transverse directions. Lightly rake to incorporate into surface of the soil.
 - 2.2. Timing: Spring/ at the start of growing season.
 - 2.3. Application rate: 25 g/m².

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. General requirements: Ss_45_35_45/801 Seeding and turf maintenance up to practical completion **and** Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period.
2. Conditions for cutting: **When grass is reasonably dry.**
3. Height of initial growth (nominal): **40–75 mm.**
4. Preparation
 - 4.1. Debris and litter: **Remove from site.**
 - 4.2. Stones and earth clods larger than 25 mm in any dimension: **Remove from site.**
5. Height of first cut (nominal): **25 mm.**
6. Arisings: **Remove.**

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): **100 mm.**
4. Cutting
 - 4.1. Timing: **As and when necessary.**
 - 4.2. Height (nominal): **25 mm.**
 - 4.3. Arisings: **Remove.**
5. Trimming
 - 5.1. Locations: **All edges.**
 - 5.2. Arisings: **Remove from site.**
6. General requirements: Ss_45_35_45/801 Seeding and turf maintenance up to practical completion **and** Ss_45_35_45/802 Seeding and turf maintenance up to the end of the rectification period.

Ω End of System

Ac_85_30_01/190

Amenity grass maintenance

Activities

Ac_85_30_01/190 Amenity grass maintenance

1. Spot weedkilling herbicide: Pr_45_31_37_56 Non-selective contact herbicides.
2. Seed: Pr_45_30_76_34 Grass seeds.
3. System facility management: Ac_85_30_01/901 Grass and meadow management objectives type A;
Ac_85_30_01/903 Disposal of arisings during maintenance operations type A;
Ac_85_30_01/911 Watering;
Ac_85_30_01/912 Water restrictions;
Ac_85_30_01/921 Weed control generally type A;
Ac_85_30_01/922 Restrictions to applying selective herbicide;
Ac_85_30_01/945 General maintenance of grassed areas (including sports turf);
Ac_85_30_01/949 Re-forming grass edges;
Ac_85_30_01/952 Leaf removal;
Ac_85_30_01/961 Mowing operations generally type A;
Ac_85_30_01/962 Mowing amenity grassland areas;
and Ac_85_30_01/977 Levelling hollows and bumps in turf.

Products

See Pr_45_30_76_34 Grass seeds in Ss_45_35_45_35 Grass seeding systems

See Pr_45_31_37_56 Non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

Execution

See Pr_45_30_76/603 Protection of seeds in Ss_45_35_45_33 Grass and wildflower seeding systems

See Pr_45_31_37/603 Application of non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

System facility management

Ac_85_30_01/901 Grass and meadow management objectives type A

1. Duration: 5 years.
2. Aims: Improved landscape visual amenity.

Ac_85_30_01/902 Notice to inspect and carry out maintenance operations

Shared by: Ac_85_30_50/195 Meadow grass maintenance

1. Notice (minimum)
 - 1.1. Application of herbicide: 7 days.
 - 1.2. Application of fertilizer: 7 days.
 - 1.3. Watering: 7 days.
 - 1.4. Each site maintenance visit: 7 days.
 - 1.5. Grass management: 7 days.
 - 1.6. Grass cutting: 7 days.
 - 1.7. Cutting of meadows: 7 days.

1.8. Soil management operations: 7 days.

Ac_85_30_01/903 Disposal of arisings during maintenance operations type A

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_01/911 Watering

1. Application generally: **Do not damage or loosen plants.**
2. Supply: **No site supply available.**
3. Quantity: **Wet full depth of topsoil.**
4. Frequency: **As necessary for the continued thriving of all planting.**

Ac_85_30_01/912 Water restrictions

1. Watering instructions: **If water supply is, or is likely to be, restricted by emergency legislation, Submit proposals for an alternative suitable source of water. Obtain instructions before proceeding. For seeding/ turfing carried out before emergency legislation comes into force, obtain instructions on watering.**

Ac_85_30_01/921 Weed control generally type A

1. Weed tolerance: **At all times, weed cover less than 5% and no weed to exceed 100 mm high.**
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. Areas not to be treated: **Wildflower areas.**

Ac_85_30_01/945 General maintenance of grassed areas (including sports turf)

1. General requirements: **Maintain turf in a manner appropriate to the intended use.**
2. Soil and grass
 - 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.**

Ac_85_30_01/949 Re-forming grass edges

1. Standard: **To BS 7370-3.**
2. Reforming edges: **Draw back soil and re-form edges to clean straight lines or smooth flowing curves, sloping slightly back from vertical.**

Ac_85_30_01/952 Leaf removal

1. Method: Remove by hand raking.
2. Disposal: Remove from site for recycling.

Ac_85_30_01/961 Mowing operations generally type A

1. Before mowing: Remove litter, rubbish and debris.
2. Finish: Neat and even, without surface rutting, compaction or damage.
3. Edges: Leave neat and well-defined. Neatly trim around obstructions.
4. Adjoining hard areas: Sweep clear and remove arisings.
5. Drought or waterlogged conditions: Obtain instructions.

Ac_85_30_01/962 Mowing amenity grassland areas

1. Grass height: 25–50 mm.
2. Arisings: Remove.

Ac_85_30_01/977 Levelling hollows and bumps in turf

1. General requirements: Ac_85_30_01/902 Notice to inspect and carry out maintenance operations .
2. Standard: To BS 7370-3.

Ω End of Activity

Ac_85_30_02/190

Amenity planting maintenance

Activities

Ac_85_30_02/190 Amenity planting maintenance

1. Spot weedkilling herbicide: Pr_45_31_37_56 Non-selective contact herbicides.
2. System facility management: Ac_85_30_02/904 Mechanical equipment use in amenity plant maintenance operations;
Ac_85_30_02/905 Maintenance of shrub and herbaceous planting areas;
Ac_85_30_02/906 Maintenance of beds of annual plants;
Ac_85_30_02/907 Maintenance of beds of perennials or mixed perennials and annuals;
Ac_85_30_02/909 Reinstatement after maintenance;
Ac_85_30_02/910 Disposal of arisings;
Ac_85_30_02/911 Temporary protection of existing grass;
Ac_85_30_02/912 Water restrictions;
Ac_85_30_02/913 Watering;
Ac_85_30_02/920 Applying top dressing;
Ac_85_30_02/921 Weed control generally;
Ac_85_30_02/924 Hand-weeding;
Ac_85_30_02/925 Weeding loose mulch;
Ac_85_30_02/926 Weeding tree grilles;
Ac_85_30_02/927 Weed cutting by hand or machine;
Ac_85_30_02/932 Litter removal;
Ac_85_30_02/933 Snow removal from trees and shrubs;
Ac_85_30_02/942 Soil and mulch level adjustment;
Ac_85_30_02/943 Maintenance of loose mulch;
Ac_85_30_02/951 Refirming of trees and shrubs;
Ac_85_30_02/954 Prevention of disease transmission;
Ac_85_30_02/957 Dead and diseased plants;
Ac_85_30_02/961 Tree work generally;
Ac_85_30_02/962 Pruning amenity trees and shrubs;
Ac_85_30_02/970 Pruning ornamental shrubs;
Ac_85_30_02/971 Pruning flowering species of shrubs and roses;
Ac_85_30_02/974 Giving notice of defective, diseased or unsafe trees;
Ac_85_30_02/978 Trimming rapidly establishing hedges;
Ac_85_30_02/993 Maintaining weed control fabric and mulch matting;
Ac_85_30_02/994 Maintaining tree stakes and ties;
Ac_85_30_02/995 Maintaining tree guards;
Ac_85_30_02/996 Maintaining tree and shrub shelters;
and Ac_85_30_02/997 Maintaining tree guy wires.

Products

See Pr_45_31_37_56 Non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

Execution

See Pr_45_31_37/603 Application of non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

System facility management

Ac_85_30_02/901 Management objectives for amenity planting

1. Duration: 5 years.

2. Aims: Improved landscape visual amenity.

Ac_85_30_02/902 Notice periods for maintenance visits

1. Give notice before: Visiting site during maintenance period.
2. Period of notice: 7 days.

Ac_85_30_02/904 Mechanical equipment use in amenity plant maintenance operations

1. General: Minimize use. Do not damage trees and shrubs.
2. Restrictions
 - 2.1. Proximity to plants: Do use not mowers, nylon filament rotary cutters and similar powered tools within 100 mm of plant stems.
 - 2.2. Prohibited equipment: Chippers;
Litter vacuums;
and Shredders.
 - 2.3. Times during which mechanical equipment may be used: Between 10:00 and 16:00 on weekdays.

Ac_85_30_02/905 Maintenance of shrub and herbaceous planting areas

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Do not reduce depth or effect of mulch.
3. Firming up: Gently firm loosened soil around plants. Straighten leaning trees and shrubs.
4. Dead and damaged plants: Remove.
5. Mulch and matting materials: Carefully move to one side and dig over the soil, leaving it fit for replanting. Do not disturb roots of adjacent plants.
6. Replacement plants
 - 6.1. Size of pits and plants: To original specification or to match the size of adjacent or nearby plants of the same species, whichever is the greater.
 - 6.2. Details: Submit details and cost of plants before ordering.

Ac_85_30_02/906 Maintenance of beds of annual plants

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Dead flower heads, fallen leaves, litter and debris: Remove.
3. Weeds: Thoroughly hand weed.
4. Cultivation: Lightly hoe.
5. Firming up: Gently firm loosened soil around plants.
6. Grass edges: Clip.

Ac_85_30_02/907 Maintenance of beds of perennials or mixed perennials and annuals

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Operations at end of growing season
 - 2.1. Older flowering stems of herbaceous perennials: Trim.
 - 2.2. Redundant plant supports, litter, debris and arisings: Remove.
 - 2.3. Cultivation: Fork over the soil. Do not cause undue disturbance to plants.

2.4. Firming up: **Gently firm loosened soil around plants.**

2.5. Top dressing application rate (minimum): **60 g/m².**

Ac_85_30_02/909 Reinstatement after maintenance

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Damage or disturbance to soil structure, planting, grass, fencing, hard landscaping, structures or buildings: **Reinstate to original condition.**
3. Cleanliness: **Leave the works in a clean tidy condition at completion and after maintenance operations.**

Ac_85_30_02/910 Disposal of arisings

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Generally: **Maintain the site in a clean, tidy condition.**
3. Biodegradable arisings: **Remove to recycling facility.**
4. Grass cuttings: **Remove to recycling facility.**
5. Tree roots and stumps: **Remove from site.**
6. Shrub and tree prunings: **Remove to recycling facility.**
7. Litter and nonbiodegradable arisings: **Remove from site.**
8. Diseased plant material: **Remove from site.**
9. Surplus topsoil following routine maintenance: **Spread evenly.**

Ac_85_30_02/911 Temporary protection of existing grass

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. General: **Protect areas affected by maintenance operations using boards and/ or tarpaulins. Do not place excavated or imported materials directly on grass.**

Ac_85_30_02/912 Water restrictions

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. General: **If water supply is, or is likely to be, restricted by emergency legislation, Submit proposals for an alternative suitable source of water. Obtain instructions before proceeding.**

Ac_85_30_02/913 Watering

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Supply: **No site supply available.**
3. Quantity: **Wet full depth of topsoil.**
4. Application: **Do not damage or loosen plants.**
5. Compacted soil: **Loosen or scoop out. Direct water to rootzone.**
6. Frequency: **As necessary for the continued thriving of all planting.**

Ac_85_30_02/920 Applying top dressing

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.

2. Locations for application: **All planting areas.**
3. Application
 - 3.1. Spreading: **Evenly, carefully incorporating below mulch materials.**
 - 3.2. Timing: **Spring.**
 - 3.3. Application rate: **60 g/m².**

Ac_85_30_02/921 Weed control generally

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Scope: **All planting areas.**
3. General: **Keep clear of weeds and prevent from seeding. Prevent perennial weeds from becoming established.**
4. Method: **By hand weeding and By use of approved non-residual herbicides.**
5. Individual trees and shrubs: **Maintain weed-free area around each tree and shrub to the larger of 1 m diameter or the surface of original planting pit (if any).**

Ac_85_30_02/924 Hand-weeding

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. General: **Remove weeds entirely, including roots.**
3. Disturbance: **Remove the minimum quantity of soil, and disturb plants, bulbs and mulched surfaces as little as possible.**
4. Completion: **Rake area to a neat, clean condition.**
5. Mulch: **Reinstate to original depth.**

Ac_85_30_02/925 Weeding loose mulch

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Weeding: **Remove weeds growing on or in mulch.**
3. Method: **Herbicide treatment.**

Ac_85_30_02/926 Weeding tree grilles

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Operations: **Lift grilles, remove weeds, adjust levels as necessary and lightly compact. Refit grilles, refill interstices and lightly compact to correct level.**

Ac_85_30_02/927 Weed cutting by hand or machine

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Undesirable grass, brambles and herbaceous growth: **Cut down cleanly.**
3. Height (maximum): **50 mm.**

Ac_85_30_02/932 Litter removal

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Extraneous rubbish not arising from the contract work: **Collect and remove from site.**

Ac_85_30_02/933 Snow removal from trees and shrubs

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Standard: **To BS 7370-4.**
3. Plants subject to snow removal: **All evergreens.**
4. Timing: **Within 24 hours of snowfall.**

Ac_85_30_02/942 Soil and mulch level adjustment

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Level of soil and mulch at edges of beds: **Reduce to 50 mm below adjacent grass or hard surface.**

Ac_85_30_02/943 Maintenance of loose mulch

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Thickness (minimum): **50 mm.**
3. Top up: **Twice per year.**
4. Mulch spill on adjacent areas: **Remove weeds and rubbish and return to planted area.**

Ac_85_30_02/951 Refirming of trees and shrubs

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Timing: **After strong winds, frost heave and other disturbances.**
3. Refirming: **Tread around the base until firmly bedded.**
4. Collars in soil at base of tree stems, created by tree movement: **Break up by fork, avoiding damage to roots. Backfill with topsoil and refirm.**

Ac_85_30_02/954 Prevention of disease transmission

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Standard: **To BS 3998.**

Ac_85_30_02/957 Dead and diseased plants

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Dead plant material
 - 2.1. Removal: **At the end of the growing season, check shrubs and remove dead foliage, dead wood, and broken or damaged plants, branches and stems.**
 - 2.2. Timing: **Within one week of notification.**
 - 2.3. Replacement: **In the next suitable planting season.**

Ac_85_30_02/961 Tree work generally

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Identification: **Before starting work agree which trees, shrubs and hedges to be removed or pruned.**
3. Protection: **Avoid damage to neighbouring trees, plants and property.**

4. Standards: To BS 3998 and Health and Safety Executive (HSE) 'Forestry and arboriculture safety leaflets'.
5. Appearance: Leave trees with a well-balanced, natural appearance. Favour a single central leading shoot.
6. Dead, dying, diseased wood and suckers: Remove. Prune to promote healthy growth.
7. Timing: As appropriate to the species.
8. Chain saw work: Operatives must hold a Certificate of Competence.
9. Tree work: To be carried out by a member of the Arboricultural Association.
10. Tree worker: Contractor's choice .

Ac_85_30_02/962 Pruning amenity trees and shrubs

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Standard: In accordance with good horticultural and arboricultural practice.
3. Pruning
 - 3.1. Removing branches: Do not damage or tear the stem or bark.
 - 3.2. Wounds: Keep as small as possible and cut cleanly back to sound wood.
 - 3.3. Cutting: Make cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area.
 - 3.4. Larger branches: Prune neither flush nor leaving a stub, but using the branch bark ridge or branch collar as a pruning guide.
4. Appearance: Thin, trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well-balanced, natural appearance.
5. Tools: Use clean sharp secateurs, hand saws or other approved tools. Trim off ragged edges of bark or wood with a sharp knife.
6. Disease or infection: Give notice if detected.
7. Growth retardants, fungicide or pruning sealant: Do not use.

Ac_85_30_02/970 Pruning ornamental shrubs

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. General: Prune to encourage healthy and bushy growth and desirable ornamental features, e.g. flowers, fruit, autumn colour, stem colour.
3. Suckers: Remove by cutting back level with the source stem or root.

Ac_85_30_02/971 Pruning flowering species of shrubs and roses

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Time of year
 - 2.1. Winter flowering shrubs: Spring.
 - 2.2. Shrubs flowering between March and July: Immediately after the flowering period.
 - 2.3. Shrubs flowering between July and October: Back to old wood in winter.
 - 2.4. Rose bushes: Early spring to encourage basal growths and a balanced, compact habit.

Ac_85_30_02/974 Giving notice of defective, diseased or unsafe trees

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.

2. Defective, diseased, unsafe or weak parts of trees additional to those scheduled for attention: **Give notice if detected.**

Ac_85_30_02/978 Trimming rapidly establishing hedges

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. General: **Allow to reach planned height as rapidly as possible.**
3. Form: **Trim back lateral branches moderately.**

Ac_85_30_02/993 Maintaining weed control fabric and mulch matting

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. General: **Inspect and reattach or refirm mulch mats and sheet mulches.**

Ac_85_30_02/994 Maintaining tree stakes and ties

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Inspection and maintenance times: **Immediately after strong winds.**
3. Stakes
 - 3.1. Loose, broken or decayed stakes: **Replace to original specification.**
 - 3.2. Stakes longer than half of clear tree stem height: **Cut to this height in spring. Retie to tree firmly, but not tightly, with a single tie.**
4. Ties
 - 4.1. Maintenance: **Adjust, refix or replace loose or defective ties to allow for growth and to prevent chafing.**
 - 4.2. Chafing: **Where chafing has occurred, reposition or replace ties to prevent further chafing.**
5. Removal of stakes and ties
 - 5.1. Timing: **During spring when no longer required to support the tree.**
 - 5.2. Stake holes: **Fill with lightly compacted soil.**

Ac_85_30_02/995 Maintaining tree guards

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Loose or defective guards: **Adjust, re-fix or replace to original specification and to prevent chafing.**

Ac_85_30_02/996 Maintaining tree and shrub shelters

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Loose or defective shelters: **Adjust, re-fix or replace to original specification and to prevent chafing.**
3. Removal: **During spring when no longer required to protect the tree.**

Ac_85_30_02/997 Maintaining tree guy wires

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting and Ac_85_30_02/902 Notice periods for maintenance visits.
2. Inspection and maintenance times: **Immediately after strong winds.**
3. Operations

- 3.1. Loose or missing guy wires: Replace or re-secure.
- 3.2. Wires: Adjust to suit stem growth. Provide correct and uniform tension.

Ω End of Activity

Ac_85_30_50/195

Meadow grass maintenance

Activities

Ac_85_30_50/195 Meadow grass maintenance

1. Spot weedkilling herbicide: Pr_45_31_37_56 Non-selective contact herbicides.
2. Seed: Pr_45_30_76_97 Wildflower seeds.
3. System facility management: Ac_85_30_01/901 Grass and meadow management objectives type B;
Ac_85_30_01/902 Notice to inspect and carry out maintenance operations;
Ac_85_30_01/903 Disposal of arisings during maintenance operations type B;
Ac_85_30_01/921 Weed control generally type B;
Ac_85_30_50/943 General maintenance of meadows;
Ac_85_30_01/961 Mowing operations generally type B;
Ac_85_30_01/969 Protecting tree stems in grassed or meadow areas;
and Ac_85_30_50/970 Mowing meadows containing perennial or mixed perennial and annual wildflowers.

Products

See Pr_45_30_76_97 Wildflower seeds in Ss_45_35_45_33 Grass and wildflower seeding systems

See Pr_45_31_37_56 Non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

Execution

See Pr_45_30_76/603 Protection of seeds in Ss_45_35_45_33 Grass and wildflower seeding systems

See Pr_45_31_37/603 Application of non-selective contact herbicides in Ss_45_35_05_67 Pit-planted small tree and shrub systems

System facility management

Ac_85_30_01/901 Grass and meadow management objectives type B

1. Duration: 5 years.
2. Aims: **Provide wildlife habitat and increase biodiversity.**

See Ac_85_30_01/902 Notice to inspect and carry out maintenance operations in Ac_85_30_01/190 Amenity grass maintenance

Ac_85_30_01/903 Disposal of arisings during maintenance operations type B

1. Generally: **Leave the works in a clean, tidy condition after maintenance operations.**
2. Surplus topsoil and arisings: **Remove from site.**
3. Litter and non-biodegradable arisings: **Remove from site.**
4. Diseased plant material: **Remove from site.**
5. 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 type B

1. Method: **Application of a suitable selective herbicide.**
2. Stones brought to the surface: **Remove regularly any exceeding 25 mm in any dimension.**
3. Areas of settlement: **Make good.**

4. Adjacent plants, trees and grass: **Do not damage.**

Ac_85_30_01/961 Mowing operations generally type B

1. Before mowing: **Remove litter, rubbish and debris.**
2. Finish: **Neat and even, without surface rutting, compaction or damage.**
3. Edges: **Leave neat and well-defined. Neatly trim around obstructions.**
4. Adjoining hard areas: **Sweep clear and remove arisings.**
5. Drought or waterlogged conditions: **Give notice and obtain instructions prior to proceeding with cutting operations.**

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.**

Ac_85_30_50/943 General maintenance of meadows

1. General requirements: **Keep free of litter, excessive weed growth and plant debris.**
2. Waterlogging and compaction of soils: **Prevent.**

Ac_85_30_50/970 Mowing meadows containing perennial or mixed perennial and annual wildflowers

1. Cut in first growing season
 - 1.1. Height: **75 mm.**
 - 1.2. Timing: **March/ April then every six to eight weeks until autumn.**
2. Cutting in second growing season
 - 2.1. Height: **75 mm.**
 - 2.2. Timing: **October, March and August.**
3. Subsequent cutting
 - 3.1. Height: **75 mm.**
 - 3.2. Timing: **October and March.**
4. Arisings: **Remove from site.**

Ω End of Activity

