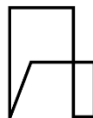


Document Control Sheet

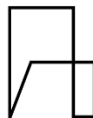
Issued by:	HLM Architects Suite 1b, Hodge House 114-116 St Mary's Street Cardiff, CF10 1DY T: +44 (0)29 2039 6070 E: cardiff@hlmarchitects.com
Client:	Newport Norse / Newport City Council / St Mary's RC School
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A new-build dining / main hall, with associated kitchen, plant, WCs, storage. On the existing site of a primary school.



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Ac_85_30_01/190

Amenity grass maintenance

Activities

Ac_85_30_01/190 Amenity grass maintenance

1. Description: To lawn area.
2. Spot weedkilling herbicide: Pr_45_31_37_15 Combined selective lawn herbicide and feed mixes
3. Seed: Pr_45_30_76_34 Grass seeds
4. Fill material for minor hollows and minor level adjustment: Pr_45_31_89_41 Imported topsoil
5. System facility management: Ac_85_30_01/901 Grass and meadow management objectives; Ac_85_30_01/902 Notice to inspect and carry out maintenance operations; Ac_85_30_01/945 General maintenance of grassed areas (including sports turf); Ac_85_30_01/903 Disposal of arisings during maintenance operations; Ac_85_30_01/911 Watering; Ac_85_30_01/912 Water restrictions; Ac_85_30_01/921 Weed control generally; Ac_85_30_01/922 Restrictions to applying selective herbicide; Ac_85_30_01/923 Spot weedkilling; Ac_85_30_01/949 Re-forming grass edges; Ac_85_30_01/950 Reinstatement of damaged turf; Ac_85_30_01/952 Leaf removal; Ac_85_30_01/953 Overseeding; Ac_85_30_01/962 Mowing amenity grassland areas; Ac_85_30_01/968 Maintaining edges to grassed areas; Ac_85_30_01/933 Applying top dressing; Ac_85_30_01/973 Scarifying; Ac_85_30_01/974 Harrowing; Ac_85_30_01/977 Levelling hollows and bumps in turf; Ac_85_30_01/978 Relieving surface compaction in turf

Products

Pr_45_30_76_34 Grass seeds

Shared by: Ss_45_35_45_33 Grass and wildflower seeding systems

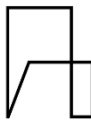
1. Description: For general amenity grass areas and the level playing area.
2. Supplied by: Germinal Seeds or equal and approved
3. Mix type: A22 Low Maintenance
4. Origin and provenance: British grown.
5. Certification
 - 5.1. Standard: In accordance with EC purity and germination regulations and [DEFRA](#) Higher Voluntary Standard.
 - 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

Pr_45_31_37_15 Combined selective lawn herbicide and feed mixes

1. Manufacturer: Contractor's choice.
2. Third-party certification: Registered by the Health and Safety Executive (HSE) and listed on the HSE website under plant protection products.
3. Target weeds: Broadleaved weeds.

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

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_41 Imported topsoil

Shared by: Ss_45_35_05_64 Pit-planted perennial systems, Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Description: Imported topsoil if site won topsoil is insufficient.
2. General requirements: Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally
3. Supplier: Contractor's choice.
4. Source: Contractor's choice.
5. Growing medium: Multi-purpose topsoil.
6. Soil textural class
 - 6.1. Standard: To [BS 3882](#).
 - 6.2. Class: Sandy loam.
7. Permitted materials for special imported topsoil and growing media
 - 7.1. Permitted materials: Composted green waste.
 - 7.2. Notice: Give notice prior to ordering or using permitted materials.
 - 7.3. Declaration of compliance
 - 7.3.1. Materials generally: In accordance with [BS EN 13650](#).
 - 7.3.2. Composted materials: In accordance with [PAS 100](#).
8. Materials not permitted: Products containing peat. River and canal dredgings.

Execution

Pr_45_30_76/603 Protection of seeds

Shared by: Pr_45_30_76_97 Wildflower seeds

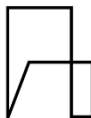
1. Protection during handling, storage and transport: Protect seeds from moisture and frost.

System facility management

Ac_85_30_01/901 Grass and meadow management objectives

Shared by: Ac_85_30_50/195 Meadow grass maintenance

1. Duration: 15 years.



2. Aims: Enhanced landscape quality.
Opportunities for recreation and sport.
3. Management outcomes: Adequate establishment in accordance with the grant scheme contract.

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: 2 weeks.
 - 1.2. Application of fertilizer: 2 weeks.
 - 1.3. Watering: 2 weeks.
 - 1.4. Each site maintenance visit: 2 weeks.
 - 1.5. Grass management: 2 weeks.
 - 1.6. Grass cutting: 2 weeks.
 - 1.7. Cutting of meadows: 2 weeks.
 - 1.8. Soil management operations: 2 weeks.

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_01/911 Watering

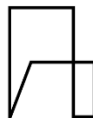
1. Application generally: Do not damage or loosen plants or compact topsoil.
2. Supply: Potable mains water.
3. Quantity: Wet full depth of topsoil.
4. Frequency: As necessary to maintain a healthy and thriving sward.

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

1. Weed tolerance: At all times, weed cover to be less than 5% and no weed to exceed 100 mm high.
2. Method: Hand weeding.
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: Bulb and corm planted areas when in leaf. Desirable herbaceous plantings. Wildflower areas.

Ac_85_30_01/923 Spot weedkilling

1. Weeds to be spot-treated: Broad leaved weeds.

Ac_85_30_01/933 Applying top dressing

1. Locations for application: All grassed areas.
2. **Top dressing mix**
 - 2.1. Mix proportions: 70 % aggregate for soil amelioration, 30 % imported topsoil.
 - 2.2. Site mixing: Mix materials fully to a uniform consistency.
3. **Application**
 - 3.1. Spreading: Evenly on surface, in transverse directions.
 - 3.2. Timing: Autumn.
 - 3.3. Application rate: 2 kg/m².

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

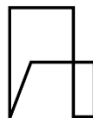
1. General requirements: Maintain turf in a manner appropriate to the intended use. Keep free of litter and plant debris.
2. **Soil and grass**
 - 2.1. Condition: Maintain a healthy vigorous sward, free from disease, fungal growth, discolouration, scorch or wilt.
 - 2.2. Waterlogging and compaction: 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. Dress damaged parts of turned turf top with suitable soil and seed mix matching the sward.

Ac_85_30_01/950 Reinstatement of damaged turf

1. Standard: To [BS 7370-3](#).
2. Damaged turf: Remove damaged turf leaving neat even edges.
3. Depth (maximum): 25 mm.
4. Preparation: Cultivate substrate to a fine tilth to a depth of 75 mm. Break up lumps and removed stones greater than 25 mm. Lightly consolidate and rake level. Apply fertilizer in accordance with manufacturer's recommendations.
5. **Reinstatement**
 - 5.1. Returfing: Lay replacement turf to match existing in stretcher bond pattern. Apply top dressing material evenly to match existing levels.
 - 5.2. Reseeding: Fill with fine topsoil to [BS 3882](#) multi-purpose class, free from stones, debris and weeds. Reseed with a seed mix to match existing grass in quality and appearance.
6. Protection and watering: Protect and water to ensure good establishment.



Ac_85_30_01/952 Leaf removal

1. Method: Hand-raking.
2. Disposal: Remove from site for recycling.

Ac_85_30_01/953 Overseeding

Shared by: Ac_85_30_50/195 Meadow grass maintenance

1. Generally: Establish good seed contact with the soil.
2. Distribution: Two equal sowings at right angles to each other and diagonally to main axis.
3. Timing: August to October.
4. Application rate: To supplier's recommendations.
5. Raking and firming: Lightly rake or harrow the seed bed after seeding. Firm with a lightweight roller.

Ac_85_30_01/962 Mowing amenity grassland areas

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

Ac_85_30_01/968 Maintaining edges to grassed areas

1. Locations: Grass edges to planting beds. Grass edges around newly planted trees.
2. Timing: After seeded areas are well established.
3. Method: Cut to clean straight lines or smooth curves. Draw back soil to form an edge.
4. Arisings: Remove from site.

Ac_85_30_01/973 Scarifying

1. Timing: October or November, before top dressing.
2. Operations: Relieve thatch conditions. Remove dead grass and moss.
3. Depth (maximum): 25 mm into soil.
4. Arisings: Remove from site.

Ac_85_30_01/974 Harrowing

Shared by: Ac_85_30_50/195 Meadow grass maintenance

1. Timing: October or November, after top dressing.
2. Operations: Aerate soil and remove worm casts.
3. Type of harrow: Chain harrow or drag mat.

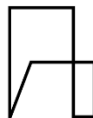
Ac_85_30_01/977 Levelling hollows and bumps in turf

1. Standard: To [BS 7370-3](#).

Ac_85_30_01/978 Relieving surface compaction in turf

1. Standard: To [BS 7370-3](#).
2. Method: Spiking.

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_76 Selective herbicides
2. Mulch: Pr_45_31_63_56 Natural bark
3. 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_02/907 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_02/912 Water restrictions; Ac_85_30_02/913 Watering; Ac_85_30_02/914 Watering beds of perennials or perennials and annuals; 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_02/927 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_02/911 Temporary protection of existing grass; 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_02/952 Prevention of wound bleeding; Ac_85_30_02/953 Treatment of tree wounds; 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_02/973 Cleaning out and deadwooding; 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_02/982 Laying hedges; Ac_85_30_02/985 Removing trees, shrubs and hedges; Ac_85_30_02/986 Felling trees of girth over 600 mm; Ac_85_30_02/991 Maintaining plant supports generally; Ac_85_30_02/994 Maintaining tree stakes and ties

Products

Pr_45_31_37_76 Selective herbicides

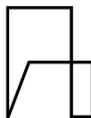
Shared by: Ss_45_35_05_64 Pit-planted perennial systems , Ss_45_35_05_66 Pit-planted large tree systems , Ss_45_35_05_67 Pit-planted small tree and shrub systems and Ss_45_35_45_33 Grass and wildflower seeding systems

1. Manufacturer: Contractor's choice.
2. Third-party certification: Manufactured under a quality system complying with [BS EN ISO 9001](#). BBA-registered by the Health and Safety Executive (HSE) and listed on the HSE website under plant protection products.
3. Target weeds: Perennial weeds.
4. Execution: Pr_45_31_37/601 Application of selective herbicides

Pr_45_31_63_56 Natural bark

Shared by: Ss_45_35_05_64 Pit-planted perennial systems , Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Description: To be used as bark mulch.
2. Supplied by: Submit proposals
3. Source: Local, within a 10 mile radius.
4. Quality: Dry, no decomposition, no signs of mould or fungi. Free of methyl bromide and other contaminants.



Execution

Pr_45_31_37/601 Application of selective herbicides

1. Target weeds: Included in the [Weeds Act 1959](#), section 2 or the [Wildlife and Countryside Act 1981](#) (as amended), schedule 9, part II.
2. Application rate: See suppliers catalogue for details.
3. Timing and frequency: Apply once during Summer as instructed.
4. Areas not to be treated: Desirable herbaceous planting. Wildflower areas.
5. [Disposal of arisings](#)
 - 5.1. Timing: Allow recommended period for herbicide to take effect before clearing dead weeds.
 - 5.2. Operations: Remove to contractor's tip.

System facility management

Ac_85_30_02/901 Management objectives for amenity planting

1. Duration: 15 years.
2. Aims: Enhanced landscape quality. Improved landscape visual amenity. Provide wildlife habitat and increase biodiversity.
3. Restrictions: As described in the landscape maintenance manual.
4. Management outcomes: As Maintenance schedule.

Ac_85_30_02/902 Notice periods for maintenance visits

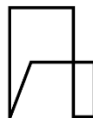
1. Give notice before: Watering. Visiting site during maintenance period.
2. Period of notice: 2 weeks.

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 not use mowers, nylon filament rotary cutters and similar powered tools within 100 mm of plant stems.
 - 2.2. Prohibited equipment: Chippers. Leaf blowers. Litter vacuums. 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; 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_02/907 Maintenance of beds of perennials or mixed perennials and annuals

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
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;
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: Reinstatement 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;
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

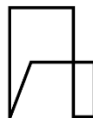
1. General: Protect areas affected by maintenance operations using boards and/ or tarpaulins. Do not place excavated or imported materials directly on grass.

Ac_85_30_02/912 Water restrictions

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
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;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Supply: Potable mains water.
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_02/914 Watering beds of perennials or perennials and annuals

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
Ac_85_30_02/902 Notice periods for maintenance visits
2. New plants: Before and after planting out.
3. Ongoing: As necessary for the continued thriving of planting.

Ac_85_30_02/921 Weed control generally

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
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. By maintaining full thickness of mulch.
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;
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;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Weeding: Remove weeds growing on or in mulch.
3. Method: Hand weeding.

Ac_85_30_02/927 Weed cutting by hand or machine

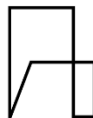
1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Undesirable grass, brambles and herbaceous growth: Cut down cleanly.

Ac_85_30_02/932 Litter removal

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
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;
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;
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;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Thickness (minimum): 75 mm.
3. Top up: As Maintenance schedule.
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;
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_02/952 Prevention of wound bleeding

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Standard: To [BS 3998](#).

Ac_85_30_02/953 Treatment of tree wounds

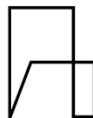
1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Cutting: Keep wounds as small as possible. Cut cleanly back to sound wood using sharp, clean tools. Leave branch collars. Do not cut flush with stem or trunk. Set cuts so that water will not collect on cut area.
3. Fungicide and sealant: Do not apply.

Ac_85_30_02/957 Dead and diseased plants

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
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: As soon as possible.
 - 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;
Ac_85_30_02/902 Notice periods for maintenance visits



2. Identification: As Plant maintenance schedule.
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: In accordance with the Maintenance schedule.
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.

Ac_85_30_02/962

Pruning amenity trees and shrubs

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting; 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; 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.

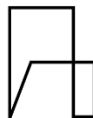
Ac_85_30_02/971 Pruning flowering species of shrubs and roses

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting; 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_02/973

Cleaning out and deadwooding

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



2. Remove: Dead, dying or diseased wood, broken branches and stubs.
Fungal growths and fruiting bodies.
Rubbish, windblown or accumulated in branch forks.
Wires, clamps, boards and metal objects, if removable without causing further damage and not part of a support structure that is to be retained.
Climbing plants.

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;
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;
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_02/982 Laying hedges

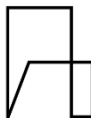
1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Operations
 - 2.1. Preparation: Remove rubbish, deadwood and excess live wood.
 - 2.2. Preparing pleachers: Partially cut stems in accordance with [National Hedgelaying Society](#) recommendations.

Ac_85_30_02/985 Removing trees, shrubs and hedges

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Standards: To [BS 3998](#), Appendix A and Health Safety Executive (HSE)/ Arboricultural and Forestry Advisory Group Safety Leaflets.
3. Existing services: Check for below and above ground services. Give notice if they may be affected.
4. Shrubs and smaller trees: Cut down and grub up roots.
5. Tree stumps
 - 5.1. Removal: Remove mechanically to a minimum depth of 300 mm below ground level.
 - 5.2. Removal by winching: Give notice. Do not use other trees as supports or anchors.
6. Protection: Avoid damage to neighbouring trees, plants and property.
7. Work near retained trees: Where tree canopies overlap and in confined spaces generally, take down trees carefully in small sections. Do not damage adjacent trees that are to be retained.
8. Filling holes
 - 8.1. Material: As-dug material and/ or imported soil as required.
 - 8.2. Finishing: Consolidate and grade to marry in with surrounding ground level.

Ac_85_30_02/986 Felling trees of girth over 600 mm

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting;
Ac_85_30_02/902 Notice periods for maintenance visits
2. Identification: Clearly mark trees to be removed.



3. Work near retained trees: Where canopies overlap, take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained. Retain and protect trees indicated on drawings.
4. Removal
 - 4.1. Trees: Clear trees as close to the ground as possible.
 - 4.2. Stumps: Remove mechanically to a minimum depth of 300 mm below ground level.
 - 4.3. Large roots: Grub up without undue disturbance of soil and adjacent areas.
5. Safety: Comply with HSE/ Arboriculture and Forestry Advisory Group safety leaflets.

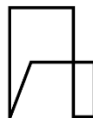
Ac_85_30_02/991 Maintaining plant supports generally

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting; Ac_85_30_02/902 Notice periods for maintenance visits
2. Inspection
 - 2.1. Scope: Check condition of support structure.
 - 2.2. Frequency of checks: As schedule.
3. Operations
 - 3.1. Broken or missing items: Replace.
 - 3.2. Rubbing: Prevent.
 - 3.3. Ties: Adjust to accommodate growth.
 - 3.4. Damage to bark: Cut back neatly with sharp knife. Prevent further damage.

Ac_85_30_02/994 Maintaining tree stakes and ties

1. General requirements: Ac_85_30_02/901 Management objectives for amenity planting; 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.

Ω End of Activity



Ac_85_30_50/195

Meadow grass maintenance

Activities

Ac_85_30_50/195 Meadow grass maintenance

1. Description: For swales
2. Seed: Pr_45_30_76_97 Wildflower seeds
3. System facility management: Ac_85_30_01/901 Grass and meadow management objectives; Ac_85_30_01/902 Notice to inspect and carry out maintenance operations; Ac_85_30_50/943 General maintenance of meadows; Ac_85_30_01/903 Disposal of arisings during maintenance operations Type A; Ac_85_30_01/921 Weed control generally Type A; Ac_85_30_01/953 Overseeding; Ac_85_30_01/961 Mowing operations generally; Ac_85_30_50/970 Mowing meadows containing perennial or mixed perennial and annual wildflowers; Ac_85_30_01/969 Protecting tree stems in grassed or meadow areas; Ac_85_30_01/974 Harrowing

Products

Pr_45_30_76_97 Wildflower seeds

Shared by: Ss_45_35_45_33 Grass and wildflower seeding systems

1. Supplied by: Emorsgate or similar and approved
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. Species: EM31 Clattinger Meadows Mixture
4. Origin and provenance: British native.
5. Germination testing: Submit germination test results to ISTA [International rules for seed testing.](#)
6. Freshness: Produced for the current growing season.
7. Execution: Pr_45_30_76/603 Protection of seeds

Execution

See Pr_45_30_76/603 Protection of seeds in Ac_85_30_01/190 Amenity grass maintenance

System facility management

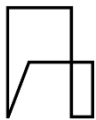
See Ac_85_30_01/901 Grass and meadow management objectives in Ac_85_30_01/190 Amenity grass maintenance

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 A

1. Description: For meadow
2. Generally: Leave the works in a clean, tidy condition after maintenance operations.
3. Surplus topsoil and arisings: Remove from site.
4. Biodegradable arisings: Remove to recycling facility.
5. Grass cuttings: Leave for two to three days after cutting then remove.
6. Litter and non-biodegradable arisings: Remove from site.
7. Diseased plant material: Remove from site.
8. 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 A

1. Description: For meadow
2. Weed tolerance: At all times, weed cover to be less than 5% and no weed to exceed 100 mm high.
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.

See Ac_85_30_01/953 Overseeding in Ac_85_30_01/190 Amenity grass maintenance

Ac_85_30_01/961 Mowing operations generally

1. Description: For meadow
2. Before mowing: Remove litter, rubbish and debris.
3. Finish: Neat and even, without surface rutting, compaction or damage.
4. Edges: Leave neat and well-defined. Neatly trim around obstructions.
5. Adjoining hard areas: Sweep clear and remove arisings.
6. 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.

See Ac_85_30_01/974 Harrowing in Ac_85_30_01/190 Amenity grass maintenance

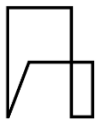
Ac_85_30_50/943 General maintenance of meadows

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: Spread evenly over cut areas and remove from site after three to four days.

Ω End of Activity



Ss_15_10_30_33

Soil stabilisation systems

Systems

Ss_15_10_30_33 Soil stabilisation systems

1. System performance: Ss_15_10_30/210 Testing, filling, compaction and treatment of formations
2. Erosion control components: Pr_15_57_25_33 Geocell sheets
3. Execution: Ss_15_10_30/686 Installing erosion control mattresses

System performance

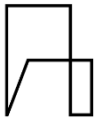
Ss_15_10_30/210 Testing, filling, compaction and treatment of formations

1. Requirements: Requirements for earthworks bunds, landscape areas and strengthened embankments in accordance with [MCHW Volume 1: Specification for highway works \(SHW\)](#), Appendix 6/9.
2. Topography: As drawings.

Products

Pr_15_57_25_33 Geocell sheets

1. Manufacturer: [Geosynthetics Limited](#)
2. Contact details
 - 2.1. Address: Unit 3, Avery Way,
Hinckley Park,
Hinckley
Leicestershire
United Kingdom
LE10 3FF
 - 2.2. Telephone: [+44 \(0\)1455 617139](#)
 - 2.3. Web: [www.geosyn.co.uk](#)
 - 2.4. Email: [sales@geosyn.co.uk](#)
3. Product reference: [Cellweb - Cellular Confinement System \(TRP\) - Geocells \(100 mm Cell Height \)](#)
4. Material: High-density polyethylene (HDPE).
5. Cell dimensions (expanded)
 - 5.1. Cell size (nominal): 259 x 224 mm.
 - 5.2. Cell depth: 100 mm.
6. [Properties](#)
 - 6.1. UV resistance: Carbon Black Content (ASTM D 1603), 1.5% (minimum % by weight).
7. Recycled content: None permitted.
8. Accessories: J pins.
9. Underlay: Treetex™ pollution control geotextile.
10. Infill: Topsoil
11. Colour: Black with green facia strip.
12. Profile: Rhomboidal (diamond shape) indentations.
13. Panel size: 2560 x 8100 mm.
14. Peel strength: 1420 N.



15. Perforations: $11 \pm 2\%$.

16. Execution: Pr_15_57_25/620 Installing geocells

Execution

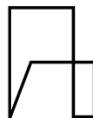
Pr_15_57_25/620 Installing geocells

1. Preparation of subgrade: Before laying geocells, remove humps and sharp projections and fill hollows.
2. **Fixings**
 - 2.1. Type of fixing: J-Pins
 - 2.2. Centres (maximum): To manufacturer's recommendation
3. Connections between adjacent panels: Staple together.

Ss_15_10_30/686 Installing erosion control mattresses

1. Preparation of subgrade: Make even.
2. Fixing centres (maximum): To manufacturer's recommendation
3. Connections between mattresses: Staple together.

Ω End of System



Ss_20_10_70_84

Storage shelter systems - Cycle Shelter

Systems

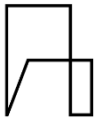
Ss_20_10_70_84 Storage shelter systems - Cycle Shelter

1. Description: Cycle shelter.
2. System manufacturer: [Broxap Ltd](#) or equal and approved.
3. Contact details
 - 3.1. Address: Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD
 - 3.2. Telephone: [+44 \(0\)1782 571700](tel:+44(0)1782571700)
 - 3.3. Web: www.broxap.com
 - 3.4. Email: nbs@broxap.com
4. Product reference: [Wardale Cycle Shelter \(BXMW/WAR Junior Wardale Cycle Shelter\)](#)
5. Shelter description: Modular design cycle shelter, to accommodate 12 cycles.
6. Dimensions
 - 6.1. Width: 2140 mm.
 - 6.2. Length: 5000 mm.
 - 6.3. Height: 2150 mm.
7. Frame
 - 7.1. Material: Steel.
 - 7.2. Finish: Powder coated.
 - 7.3. Colour: RAL colour to be confirmed with client.
8. Fixing method:: Surface mounted baseplate.
9. Accessories: Stainless steel cycle stands.
10. Execution: Ss_20_10_70/600 Execution and installation generally
11. System completion: Ss_20_10_70/895 Verification

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: Permitted, subject to completion of and compliance with a 'hot work permit' form.
7. Site-applied finishes
 - 7.1. Timing: Prepare surfaces and apply finishes as soon as possible after fixing.
8. Disposal of arisings



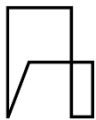
- 8.1. Biodegradable arisings: Remove to recycling facility.
- 8.2. Tree roots and stumps: Remove from site.
- 8.3. Litter and non-biodegradable arisings: Remove from site.

System completion

Ss_20_10_70/895 Verification

1. Requirement: Check completed system and provide assurance of compliance with specified performance.
2. Submissions
 - 2.1. Format: Description of inspections, remedial works carried out and certification of compliance.

Ω End of System



Ss_25_14_08_95

Wood close-boarded fencing systems

Systems

Ss_25_14_08_95 Wood close-boarded fencing systems

1. Description: For external plant fence line
2. System manufacturer: [Jacksons Fencing](#)
3. Contact details
 - 3.1. Address: 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 3.2. Telephone: [0800 408 4757](tel:08004084757)
 - 3.3. Web: www.jacksons-security.co.uk
 - 3.4. Email: sales@jacksons-fencing.co.uk
4. Product reference: [Timber Fence Panels \(Featherboard Panels Flat Top\)](#)
5. Posts: Slotted softwood Jakposts.
6. Post foundations: Set in concrete.
7. Base boards: Softwood baseboards.
8. Panels: Level top, 2000 mm high.
9. Fence topping: Capping rail.
10. Site applied finishes: Jakcure® Cut Treatment for all timber cut on site.
11. System accessories: Matching gates.
12. Execution: Ss_25_14_63/605 Alignment of fences; Ss_25_14_63/607 Fencing work generally;
Ss_25_14_08/641 Formation of holes for cast-in fence posts for close boarded fencing system;
Ss_25_14_08/643 Erecting close boarded fencing system
13. System completion: Ss_25_14_63/870 Inspection of fencing systems

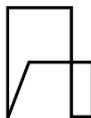
Execution

Ss_25_14_08/641 Formation of holes for cast-in fence posts for close boarded fencing system

1. Standard: To [BS 1722-5](#).
2. Post settings
 - 2.1. Hole plan dimensions: 300 x 300 mm.
 - 2.2. Hole depth (minimum): 750 mm.
 - 2.3. Concrete fill depth (minimum): Half depth.

Ss_25_14_08/643 Erecting close boarded fencing system

1. Standard: To [BS 1722-5](#).
2. Fence height: 2000 mm.
3. Number of main rails: Three.
4. Post centres (maximum): 1800 mm.
5. Fixing rails: To manufacturer's recommendation
6. Fixing gravel boards



- 6.1. Wood: Attach with timber cleats, twice nailed to timber posts and centre stump with 65 x 3 mm nails.
7. Fixing feather edged boards
 - 7.1. With gravel board: Lap boards by approximately 18 mm. Rest boards on gravel board. Attach to each main rail with 50 x 2.65 mm nails.
 - 7.2. With counter rail: Attach to 65 x 25 mm section counter rail with 40 x 2.65 mm nails.
8. Fasteners and fittings : To manufacturer's recommendation

Ss_25_14_63/605 Alignment of fences

Shared by: Ss_25_14_61_51 Metal mesh panel fencing systems , Ss_25_15_85_55 Multi-use games fencing systems and Ss_25_14_63_97 Timber knee rail 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

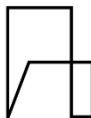
Shared by: Ss_25_14_61_51 Metal mesh panel fencing systems , Ss_25_15_85_55 Multi-use games fencing systems and Ss_25_14_63_97 Timber knee rail systems

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. 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
 - 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.

System completion

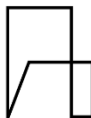
Ss_25_14_63/870 Inspection of fencing systems

Shared by: Ss_25_14_61_51 Metal mesh panel fencing systems , Ss_25_15_85_55 Multi-use games fencing systems and Ss_25_14_63_97 Timber knee rail systems



1. Timing: Two weeks prior to date when principal contractor expects work to be practically complete.
2. Period of notice (minimum): Three working days.

Ω End of System



Ss_25_14_08_96

Wood palisade fencing systems and Gate (G14)

Systems

Ss_25_14_08_96 Wood palisade fencing systems and Gate (G14)

1. Description: For Rain Garden Area
2. System performance: Ss_25_14_63/201 Contractor design of fencing systems Type B
3. System manufacturer: [Jacksons Fencing](#)
4. Contact details
 - 4.1. Address: 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 4.2. Telephone: [0800 408 4757](tel:08004084757)
 - 4.3. Web: www.jacksons-security.co.uk
 - 4.4. Email: sales@jacksons-fencing.co.uk
5. Product reference: [Traditional Palisade Fencing](#)
6. Posts: Softwood posts.
7. Post foundations: Set in concrete.
8. Rails: 2400 x 87 x 38 mm, scarfed both ends.
9. Pales or boards: Pointed top, 1200 mm-high (221600). Pointed top.
10. Site applied finishes: Wood stains.
11. System accessories: Matching gates (G14), Single Leaf Palisade Gate, 1m wide, 1.15m height with lock system.
12. Execution: Ss_25_14_63/605 Alignment of fences Type A; Ss_25_14_63/607 Fencing work generally Type A
13. System completion: Ss_25_14_08/860 Certificates for wooden palisade fencing systems; Ss_25_14_63/870 Inspection of fencing systems Type B

System performance

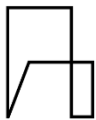
Ss_25_14_63/201 Contractor design of fencing systems Type B

1. Design scope: The layout and design of fencing to rain garden boundary.
2. Detailed design
 - 2.1. Standards: To the Eurocodes appropriate to the nature and location of the structure.
 - 2.2. Deflections and other structural movements: At serviceability limit state, these must be compatible with requirements of the pavement fabric, construction joints and weathertightness.
 - 2.3. Design load criteria: As Schedule.

Execution

Ss_25_14_63/605 Alignment of fences Type A

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 Type A

1. Metal fixings: Protect from corrosion.
2. Site cutting of wood
 - 2.1. Components generally: Minimize cutting.
 - 2.2. Wood below or near ground level: Do not cut.
 - 2.3. Treatment of surfaces exposed by minor cutting and drilling
 - 2.3.1. Method: Apply sufficient material to provide a coating equal to the original preservative.
 - 2.3.2. Number of coats: Two.
3. Site applied finishes
 - 3.1. Timing: Prepare surfaces and apply finishes as soon as possible after fixing.
4. Disposal of arisings
 - 4.1. Biodegradable arisings: Remove to recycling facility.
 - 4.2. Tree roots and stumps: Remove from site.
 - 4.3. Litter and nonbiodegradable arisings: Remove from site.

System completion

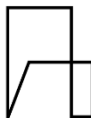
Ss_25_14_08/860 Certificates for wooden palisade fencing systems

1. Standard: To [BS 1722-5](#).
2. Certificates
 - 2.1. Fence manufacturer
 - 2.1.1. Statement of conformity: Confirmation that fence and/ or gates are manufactured in accordance with client's instructions.
 - 2.1.2. Format: Contract or order number.
 - 2.2. Fence installer
 - 2.2.1. Statement of conformity: Confirmation that materials and execution are in accordance with client's instructions.
 - 2.2.2. Format: Purchaser's name and address.

Ss_25_14_63/870 Inspection of fencing systems Type B

1. Timing: Two weeks prior to date when principal contractor expects work to be practically complete.
2. Period of notice (minimum): Three working days.

Ω End of System

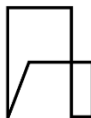


Ss_25_14_61_51 Metal mesh panel fencing systems

Systems

Ss_25_14_61_51 Metal mesh panel fencing systems

1. Description: 2.4m high weldmesh fence to school secure line.
2. System performance: Ss_25_14_63/265 Visual performance; Ss_25_14_63/201 Contractor design of fencing systems; Ss_25_14_63/205 Design submittals; Ss_25_14_63/210 Accessibility; Ss_25_14_63/215 Anti-intruder and security fencing performance; Ss_25_14_63/220 Design working life
3. System manufacturer: [CLD Physical Security Systems](#) or similar and approved
4. Contact details
 - 4.1. Address: MODSEC House
Moston Road
Sandbach
Cheshire
United Kingdom
CW11 3HL
 - 4.2. Telephone: [+44 \(0\)1270 764751](tel:+44(0)1270764751)
 - 4.3. Web: www.cld-systems.com
 - 4.4. Email: info@cld-systems.com
5. Product reference: [CLD Dulok](#) or similar and approved
6. System performance: Anti-intruder and security fencing performance.
7. Standard: To BS 1722-14:2017, BS EN ISO 1461:2009, BS EN 13438:2013.
8. Posts: Carbon steel posts.
9. Post foundations: Set posts in holes minimum 300 mm diameter x 800 mm deep.
10. Panels: Mesh and wire, single vertical and double horizontal wires.
11. Fence topping: Straight.
12. Height: 2400mm
13. Colour and finish: Green.
14. Fixing: 40 x 5 mm full length clamp bar. M8 x 40 mm stainless steel pin hex dome-head security screws.
15. Width: 2506 mm.
16. Mesh size: 200 x 50 mm.
17. WireDiameter: 6 mm verticals and twin 8 mm horizontals (868).
18. Projection: 30 mm.
19. Installation: Bottom of panel approximately 40 mm above ground.
20. Size: 60 x 40 mm.
21. Post centres: 2520 mm.
22. Fence topping : Roll top mesh
23. Panel Height : 2400 mm.
24. Installation: Bottom of panel minimum 40 mm above ground.
25. System accessories: Associated gates.
26. Execution: Ss_25_14_63/605 Alignment of fences; Ss_25_14_63/607 Fencing work generally; Ss_25_14_63/614 Formation of holes for cast-in fence posts; Ss_25_14_61/771 Formation of holes for cast-in fence posts for open mesh steel panel general purpose fencing systems; Ss_25_14_61/772 Erecting open metal mesh panel general purpose fencing systems



27. System completion: Ss_25_14_61/830 Certificates for open mesh steel panel fencing systems;
Ss_25_14_63/870 Inspection of fencing systems

System performance

Ss_25_14_63/201 Contractor design of fencing systems

1. Design scope: To the layout and design of the fencing plan.
2. Detailed design
 - 2.1. Standards: To the Eurocodes appropriate to the nature and location of the structure.
 - 2.2. Deflections and other structural movements: At serviceability limit state, these must be compatible with requirements of the pavement fabric, construction joints and weathertightness.

Ss_25_14_63/205 Design submittals

1. Detailed design
 - 1.1. Requirement: Complete the design of the fencing system.
 - 1.2. Purpose: To demonstrate compliance with performance requirements. For aesthetic evaluation.
 - 1.3. Submittals: Typical plan, elevation and section drawings at suitable scales.
 - 1.4. Timing: Before manufacture.
 - 1.5. Format: Drawing and specification in BIM compliant format.

Ss_25_14_63/210 Accessibility

1. Inclusive design: Complete detailed design in accordance with [BS 8300](#), allowing for use by children.
2. Finished surfaces on accessible areas: Free of irregularities capable of inflicting personal injury.
3. Designed gaps: To [BS 5709](#).
4. Prohibited features: Struts on public side of fence. Protruding clips, screws and bolts. Projecting posts above top rail.

Ss_25_14_63/215 Anti-intruder and security fencing performance

1. Standards: In accordance with 'Secured by design principles'.
2. Security level: Climb resistant.

Ss_25_14_63/220 Design working life

1. Standard: To [BS EN 1990](#).
2. Design working life category: 4.

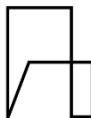
Ss_25_14_63/265 Visual performance

1. Colour: RAL colour to be determined.
2. Intervisibility: To [BS 7818](#).
3. Sight lines: In accordance with [BS 6180](#).
4. Transparency: To [BS EN 1794-2](#).

Execution

Ss_25_14_61/771 Formation of holes for cast-in fence posts for open mesh steel panel general purpose fencing systems

1. Standard: To [BS 1722-14](#), category 1.



2. **Post settings – 1800-2200 mm high fence**
 - 2.1. Hole plan dimensions: 300 x 300 mm.
 - 2.2. Hole depth (minimum): 600 mm.
 - 2.3. Concrete fill depth (minimum): Half depth.
3. **Post settings – 2400 mm high fence**
 - 3.1. Hole plan dimensions: 450 x 450 mm.
 - 3.2. Hole depth (minimum): 750 mm.
 - 3.3. Concrete fill depth (minimum): Half depth.

Ss_25_14_61/772 Erecting open metal mesh panel general purpose fencing systems

1. Standard: To [BS 1722-14](#), category 1.
2. **Fence height**
 - 2.1. Height to top of mesh: 2400 mm.
3. Post centres (maximum): 3000 mm.
4. Bottom of fencing: Bottom of panel minimum 40mm above ground.
5. Additional security: Line of fence to be set out such that no angle is less than 130° at changes of direction.
6. Fasteners and fittings : To manufacture's detail.

See Ss_25_14_63/605 Alignment of fences in Ss_25_14_08_95 Wood close-boarded fencing systems

See Ss_25_14_63/607 Fencing work generally in Ss_25_14_08_95 Wood close-boarded fencing systems

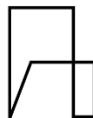
Ss_25_14_63/614 Formation of holes for cast-in fence posts

1. **Dimensions**
 - 1.1. **Post settings**
 - 1.1.1. Hole plan size (minimum): To Engineer's design.
 - 1.1.2. Hole depth (minimum): To Engineer's design.
 - 1.1.3. Concrete depth (minimum): To Engineer's design.
 - 1.2. **Struts**
 - 1.2.1. Hole plan size (minimum): 450 x 300 mm.
 - 1.2.2. Hole depth (minimum): 450 mm.
2. Formation: Excavate neatly, with vertical sides.

System completion

Ss_25_14_61/830 Certificates for open mesh steel panel fencing systems

1. Standard : To [BS 1722-14](#).
2. **Certificates**
 - 2.1. **Fence manufacturer**
 - 2.1.1. Statement of conformity: Confirmation that fence and/ or gates are manufactured in accordance with client's instructions.
 - 2.1.2. Format: Supplier's name and address.
 - 2.2. **Fence installer**

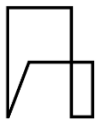


2.2.1. Statement of conformity: Confirmation that materials and execution are in accordance with client's instructions.

2.2.2. Format: Supplier's name and address.

See Ss_25_14_63/870 Inspection of fencing systems in Ss_25_14_08_95 Wood close-boarded fencing systems

Ω End of System



Ss_25_14_63_97

Timber knee rail systems

Systems

Ss_25_14_63_97 Timber knee rail systems

1. Description: To rain garden perimeter.
2. System manufacturer: [Jacksons Fencing](#)
3. Contact details
 - 3.1. Address: 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 3.2. Telephone: [0800 408 4757](tel:08004084757)
 - 3.3. Web: www.jacksons-security.co.uk
 - 3.4. Email: sales@jacksons-fencing.co.uk
4. Product reference: Timber Knee Rail or equal and approved.
5. Posts: 0.9m above ground level.
6. Post foundations: Set in concrete.
7. Rails: 1.8m in length.
8. System accessories: Birdsmouth tops.
9. Execution: Ss_25_14_63/605 Alignment of fences; Ss_25_14_63/607 Fencing work generally; Ss_25_14_63/631 Formation of holes for cast-in fence posts for wooden post and rail fencing systems
10. System completion: Ss_25_14_63/870 Inspection of fencing systems

Execution

See Ss_25_14_63/605 Alignment of fences in Ss_25_14_08_95 Wood close-boarded fencing systems

See Ss_25_14_63/607 Fencing work generally in Ss_25_14_08_95 Wood close-boarded fencing systems

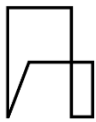
Ss_25_14_63/631 Formation of holes for cast-in fence posts for wooden post and rail fencing systems

1. Standard: To [BS 1722-7](#).
2. Post centres (maximum): 1800 mm.
3. Post settings
 - 3.1. Hole plan dimensions: 300 x 300 mm.
 - 3.2. Hole depth (minimum): 900 mm.
 - 3.3. Concrete fill depth (minimum): Half depth.

System completion

See Ss_25_14_63/870 Inspection of fencing systems in Ss_25_14_08_95 Wood close-boarded fencing systems

Ω End of System



Ss_25_15_60_37

DB Door barrier systems

Systems

Ss_25_15_60_37 DB Door barrier systems

1. Description: Door barriers.
2. System performance: Ss_25_15_60/210 Structural performance requirements for pedestrian safety barrier and guarding systems
3. System manufacturer: Langley Design or equal and approved.
4. Hoops: Pr_20_85_06_85 DB Steel Door Barriers
5. Execution: Ss_25_15_60/605 Alignment of barriers; Ss_25_15_60/617 Formation of holes for cast-in barrier posts; Ss_25_15_60/651 Erecting hoop barrier systems
6. System completion: Ss_25_15_60/810 Documentation

System performance

Ss_25_15_60/210 Structural performance requirements for pedestrian safety barrier and guarding systems

Shared by: Ss_25_15_60_57 Metal vertical bar pedestrian guard rail systems

1. Eurocodes and National Annexes: Reference to a Eurocode or to an execution or a material standard referenced therein, is deemed to include the appropriate United Kingdom National Annex, to the Eurocode or referenced standard. Nationally determined parameters shall apply.

Products

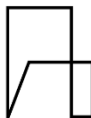
Pr_20_85_06_85 DB Steel Door Barriers

1. Description: Stainless steel door barrier.
2. Manufacturer: Langley Design or equal and approved.
3. Product: Malford Door Barrier MDB202 or equal and approved
4. Standard: In accordance with [BS 6180](#).
5. Form: Static.
6. Duty: Light.
7. **Dimensions**
 - 7.1. Width: 760 mm.
 - 7.2. Height: 1100 mm.
8. **Hoops**
 - 8.1. Size and profile: 48 x 3 mm CHS.
 - 8.2. Post base: Root fixed.
 - 8.3. **Finishes**
 - 8.3.1. Worked finish: To [BS EN 10088-2](#) ,1K/ 2K 'Satin polished'.
9. Infill: Stainless steel rail.

Execution

Ss_25_15_60/605 Alignment of barriers

Shared by: Ss_25_15_60_57 Metal vertical bar pedestrian guard rail 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_15_60/617 Formation of holes for cast-in barrier posts

1. Dimensions
 - 1.1. Post settings
 - 1.1.1. Hole plan size (minimum): 100 mm surrounding post.
 - 1.1.2. Hole depth (minimum): 450 mm.
 - 1.1.3. Concrete depth (minimum): Two thirds of hole depth.
 - 1.2. Struts
 - 1.2.1. Hole plan size (minimum): 450 x 300 mm.
 - 1.2.2. Hole depth (minimum): 450 mm.
2. Formation: Excavate neatly, with vertical sides.

Ss_25_15_60/651 Erecting hoop barrier systems

1. Barrier height: 800 mm.
2. Post centres (maximum): 100 mm, between outer posts.

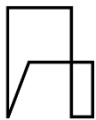
System completion

Ss_25_15_60/810 Documentation

Shared by: Ss_25_15_60_57 Metal vertical bar pedestrian guard rail systems

1. Contents: General product information. Installation information. Inspection and maintenance reports.
2. Number of copies: 2
3. Submission: Two weeks prior to date when principal contractor expects work to be practically complete.

Ω End of System



Ss_25_15_60_57

Metal vertical bar pedestrian guard rail systems

Systems

Ss_25_15_60_57 Metal vertical bar pedestrian guard rail systems

1. Description: Metal guardrail to dining hall level.
2. System performance: Ss_25_15_60/210 Structural performance requirements for pedestrian safety barrier and guarding systems
3. System manufacturer: [Lang+Fulton](#)
4. Contact details
 - 4.1. Address: Head Office & Technical Centre
Unit 2b
Newbridge Industrial Estate
Edinburgh
United Kingdom
EH28 8PJ
 - 4.2. Telephone: [+44 \(0\)131 441 1255](tel:+441314411255)
 - 4.3. Web: www.langandfulton.co.uk
 - 4.4. Email: sales@langandfulton.co.uk
5. Product reference: [Rimini Fencing](#)
6. Preparatory work: Form holes for concrete infill foundation.
7. Posts: Mild steel S235JR.
8. Post foundations: Base plates for fixing to a concrete foundation.
9. Panels: Flat bar, mild steel S235JR.
10. Panel heights: Around the dining terrace: 1150 mm;
Elsewhere: 850 mm.
11. Straight section: 40 x 10 mm flat bar.
12. Corners: 40 x 40 mm SHS.
13. Finish:: Hot-dip galvanized and polyester powder coated, RAL.
14. Width: 1500 mm.
15. Fixing: Stainless steel bolts, domed heads and snap-off security nuts, grade A2.
16. Execution: Ss_25_15_60/605 Alignment of barriers; Ss_25_15_60/607 Work on barriers generally; Ss_25_15_60/613 Fixing barrier post base plates to concrete pads and strips
17. System completion: Ss_25_15_60/810 Documentation

System performance

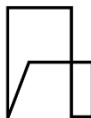
See Ss_25_15_60/210 Structural performance requirements for pedestrian safety barrier and guarding systems in Ss_25_15_60_37 DB Door barrier systems

Execution

See Ss_25_15_60/605 Alignment of barriers in Ss_25_15_60_37 DB Door barrier systems

Ss_25_15_60/607 Work on barriers 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. Disposal of arisings

4.1. Biodegradable arisings: Remove to recycling facility.

4.2. Tree roots and stumps: Remove from site.

4.3. Litter and nonbiodegradable arisings: Remove from site.

Ss_25_15_60/613 Fixing barrier post base plates to concrete pads and strips

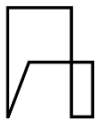
1. Post fasteners: To manufacturer's recommendation.

2. Fixing: Securely fix components.

System completion

See Ss_25_15_60/810 Documentation in Ss_25_15_60_37 DB Door barrier systems

Ω End of System



Ss_25_15_85_55

Multi-use games fencing systems

Systems

Ss_25_15_85_55 Multi-use games fencing systems

1. Description: To school MUGA fencing.
2. System manufacturer: [CLD Physical Security Systems](#) or equal and approved.
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: www.cld-systems.com
 - 3.4. Email: info@cld-systems.com
4. Product reference: [CLD Dulok Sport Rebound](#) or equal and approved.
5. System performance: Sports fencing performance.
6. Posts: Manufacture's standard.
7. Height: 3000 mm. 1200mm for rebound panels in front of the retaining wall.
8. Colour and finish: Galvanised and powder coated to RAL colour to be determined.
9. Width: 2506 mm.
10. Mesh size: 66.5 x 50 mm.
The normal 'Rebound' panel is 1200 mm high with horizontal wires at 66.5 mm centre up to 1200mm high and then 200 mm centres for the remaining 1800 mm
11. Wire Diameter: 6 mm verticals and twin 8 mm horizontals.
12. System accessories: Associated gates.
13. 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
14. System completion: Ss_25_14_63/870 Inspection of fencing systems

Execution

See Ss_25_14_63/605 Alignment of fences in Ss_25_14_08_95 Wood close-boarded fencing systems

See Ss_25_14_63/607 Fencing work generally in Ss_25_14_08_95 Wood close-boarded fencing systems

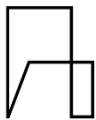
Ss_25_14_63/612 Fixing fence post base plates to concrete pads and strips

1. Post fasteners: To manufacturer's recommendation.
2. Fixing: Securely fix components.

System completion

See Ss_25_14_63/870 Inspection of fencing systems in Ss_25_14_08_95 Wood close-boarded fencing systems

Ω End of System



Ss_25_32_35_37

Hinged gate systems

Systems

Ss_20_05_15_90 Unreinforced concrete foundation systems for cast-in products

Shared by: Ss_40_85_72_20 Cycle parking equipment systems

1. Description: For cast in landscape elements.
2. Blinding: To engineer's detail.
3. Concrete: To engineer's detail.
4. System completion: To engineer's detail.

Ss_25_32_35_37 Hinged gate systems

1. System performance: Ss_25_32_35/220 Gate systems to match fencing; Ss_25_32_35/205 Design submittals; Ss_25_32_35/230 Inclusive design; Ss_25_32_35/240 Performance of designed gaps
2. System manufacturer: Various
3. Standard: To [BS 1722-7](#).
To [BS 1722-9](#).
To [BS 3470](#).
To [BS 5709](#).
To [BS 7818](#).
4. Method of operation: Manual.
5. Gate assembly: Pr_30_59_34_14 G1, G4, G5 Carbon steel gates; Pr_30_59_34_38 G2, G7 Wood gates; Pr_30_59_34_38 G3 Wood gates Type A; Pr_30_59_34_14 G6 Carbon steel double gate Type A; Pr_30_59_34_14 G8 Carbon steel gates Type B; Pr_30_59_34_14 G9 / G10 / G12 / G13 Carbon steel gates Type C
6. Post foundations: Ss_20_05_15_90 Unreinforced concrete foundation systems for cast-in products
7. Execution: Ss_25_32_35/602 Alignment; Ss_25_32_35/603 Work on or adjacent to highways; Ss_25_32_35/605 Work on gates generally
8. System completion: Ss_25_32_35/810 Documentation; Ss_25_32_35/820 Certificates for gates

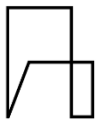
System performance

Ss_25_32_35/205 Design submittals

1. Detailed design
 - 1.1. Requirement: Complete the design of the system.
 - 1.2. Purpose: To demonstrate compliance with performance requirements.
 - 1.3. Submittals: Drawings, schedules, technical information, calculations and manufacturer's literature.
 - 1.4. Timing: Before manufacture.
 - 1.5. Format: Drawings and specification in BIM compliant format.

Ss_25_32_35/220 Gate systems to match fencing

1. General: Match performance of associated fence and/ or wall.



Ss_25_32_35/230 Inclusive design

1. Inclusive design: Complete design in accordance with recommendations in [E&W Approved Document M](#) and submit proposals.
2. Best practice design
 - 2.1. Operability
 - 2.1.1. Handle projection (minimum): 45 mm between gate and handle.
 - 2.1.2. Hand grip zone (minimum): 95 mm.
 - 2.1.3. Visual contrast between gate panel and hardware (minimum): LRV 15.

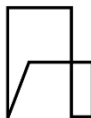
Ss_25_32_35/240 Performance of designed gaps

1. Standard: To [BS 5709](#).

Products

Pr_30_59_34_14 G1, G4, G5 Carbon steel gates

1. Description: For the MUGA
2. Manufacturer: [CLD Physical Security Systems](#) or similar and approved.
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: www.cld-systems.com
 - 3.4. Email: info@cld-systems.com
4. Product reference: [CLD LockMaster](#) or similar and approved.
5. Standard: To BS 1722-14:2017, BS EN ISO 141:2009, BS EN 13438:2013.
6. Dimensions
 - 6.1. Span: 1500mm
 - 6.2. Height: 2000mm
7. Posts: Steel.
8. Gate leaves: Open mesh.
9. Hardware
 - 9.1. Hinges: Right hand hung.
 - 9.2. Operating: Gate closers.
10. Finish as delivered
 - 10.1. Applied finish: Polyester powder-coated.
11. Colour and finish: Green.
12. Configuration: Single.
13. Gate frame infill: Fully welded construction to match the MUGA fencing.
14. Panels: CLD Dulok Sport Rebound - Sports Fence
15. Post foundations: Set posts in holes 450 mm square x 950 mm deep minimum.
16. Size: 80 x 80 mm.
17. Locking: TBC

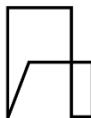


Pr_30_59_34_14 G6 Carbon steel double gate Type A

1. Description: For the MUGA MEWP access
2. Manufacturer: [CLD Physical Security Systems](#) or similar and approved.
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: www.cld-systems.com
 - 3.4. Email: info@cld-systems.com
4. Product reference: [CLD LockMaster](#) or similar and approved.
5. Standard: To BS 1722-14:2017, BS EN ISO 141:2009, BS EN 13438:2013.
6. Dimensions
 - 6.1. Span: 3500mm
 - 6.2. Height: 3000mm
7. Posts: Steel.
8. Gate leaves: Mesh to match the MUGA fence.
9. Hardware
 - 9.1. Hinges: Right hand hung. Left hand hung.
 - 9.2. Operating: Gate closers.
10. Finish as delivered
 - 10.1. Applied finish: Polyester powder-coated.
11. Colour and finish: Green.
12. Configuration: Double.
13. Gate frame infill: Fully welded construction to match the MUGA fencing.
14. Panels: CLD Dulok Sport Rebound - Sports Fence
15. Post foundations: Set posts in holes 450 mm square x 950 mm deep minimum.
16. Size: 80 x 80 mm.
17. Locking: TBC

Pr_30_59_34_14 G8 Carbon steel gates Type B

1. Manufacturer: [CLD Physical Security Systems](#) or similar and approved.
2. Contact details
 - 2.1. Address: MODSEC House
Moston Road
Sandbach
Cheshire
United Kingdom
CW11 3HL
 - 2.2. Telephone: [+44 \(0\)1270 764751](tel:+44(0)1270764751)
 - 2.3. Web: www.cld-systems.com
 - 2.4. Email: info@cld-systems.com
3. Product reference: [CLD LockMaster](#) or similar and approved.
4. Standard: To BS 1722-14:2017, BS EN ISO 141:2009, BS EN 13438:2013.



5. **Dimensions**

- 5.1. Span: 2000mm
- 5.2. Height: 2400mm

6. Posts: Steel.

7. Gate leaves: Open mesh.

8. **Hardware**

- 8.1. Hinges: Right hand hung.
- 8.2. Operating: Gate closers.

9. **Finish as delivered**

- 9.1. Applied finish: Polyester powder-coated.

10. Colour and finish: Green.

11. Configuration: Single.

12. Gate frame infill: Fully welded construction to match the site security fencing.

13. Panels: CLD MultiPlus – Mesh Fence

14. Post foundations: Set posts in holes 450 mm square x 950 mm deep minimum.

15. Size: 80 x 80 mm.

16. Locking: TBC

Pr_30_59_34_14 G9 / G10 / G12 / G13 Carbon steel gates Type C

1. Manufacturer: [CLD Physical Security Systems](#) or similar and approved.

2. **Contact details**

- 2.1. Address: MODSEC House
Moston Road
Sandbach
Cheshire
United Kingdom
CW11 3HL

- 2.2. Telephone: [+44 \(0\)1270 764751](tel:+44(0)1270764751)

- 2.3. Web: www.cld-systems.com

- 2.4. Email: info@cld-systems.com

3. Product reference: [CLD LockMaster](#) or similar and approved.

4. Standard: To BS 1722-14:2017, BS EN ISO 141:2009, BS EN 13438:2013.

5. **Dimensions**

- 5.1. Span: 3500mm (G12 / G13), 5500mm (G10), 6000mm(G9)
- 5.2. Height: 2400mm

6. Posts: Steel.

7. Gate leaves: Open mesh.

8. **Hardware**

- 8.1. Hinges: Left hand hung. Right hand hung.
- 8.2. Operating: Gate closers.

9. **Finish as delivered**

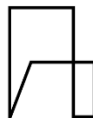
- 9.1. Applied finish: Polyester powder-coated.

10. Colour and finish: Green.

11. Configuration: Double.

12. Gate frame infill: Fully welded construction to match the site security fencing.

13. Panels: CLD MultiPlus – Mesh Fence



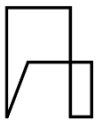
14. Post foundations: Set posts in holes 450 mm square x 950 mm deep minimum.
15. Size: 80 x 80 mm.
16. Locking: TBC

Pr_30_59_34_38 G3 Wood gates Type A

1. Description: Single gate for the service area
2. Manufacturer: [Jacksons Fencing](#) or similar and approved.
3. Contact details
 - 3.1. Address: 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 3.2. Telephone: [0800 408 4757](tel:08004084757)
 - 3.3. Web: www.jacksons-security.co.uk
 - 3.4. Email: sales@jacksons-fencing.co.uk
4. Product reference: [Timber Garden Gates \(Flat Top Featherboard Garden Gates\)](#) or similar and approved.
5. Dimensions
 - 5.1. Span: 3000 mm.
 - 5.2. Height: 2000 mm.
6. Posts: Softwood.
7. Gate leaves: Sawn timber boards.
8. Hardware
 - 8.1. Hinges: Includes adjustable hinges as standard.
 - 8.2. Securing: Galvanized ring latch.
9. Finish as delivered
 - 9.1. Treatment: Jakcure®.
10. Configuration: Right.
11. ProductDescription: Flat top Featherboard garden gate, built for longevity from premium quality sawn timber boards.

Pr_30_59_34_38 G2, G7 Wood gates

1. Description: Single gate for the service area
2. Manufacturer: [Jacksons Fencing](#) or similar and approved.
3. Contact details
 - 3.1. Address: 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 3.2. Telephone: [0800 408 4757](tel:08004084757)
 - 3.3. Web: www.jacksons-security.co.uk
 - 3.4. Email: sales@jacksons-fencing.co.uk
4. Product reference: [Timber Garden Gates \(Flat Top Featherboard Garden Gates\)](#) or similar and approved.
5. Dimensions
 - 5.1. Span: 1500 mm.
 - 5.2. Height: 2000 mm.



6. Posts: Softwood.
7. Gate leaves: Sawn timber boards.
8. Hardware
 - 8.1. Hinges: Includes adjustable hinges as standard.
 - 8.2. Securing: Galvanized ring latch.
9. Finish as delivered
 - 9.1. Treatment: Jakcure®.
10. Configuration: Right.
11. ProductDescription: Flat top Featherboard garden gate, built for longevity from premium quality sawn timber boards.

Execution

Ss_25_32_35/602 Alignment

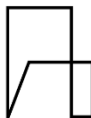
1. Alignment of gates: Following profile of surrounding fence or barrier.
2. Verticality: Plumb.
3. Tolerances: ±30 mm of prescribed alignment and, within any 10 m length, ±15 mm from the straight or required radius.

Ss_25_32_35/603 Work on or adjacent to highways

1. Requirement: Comply with the Department for Transport's Safety at street works and road works. A code of practice. Retain a copy of this document on site during the course of the works.

Ss_25_32_35/605 Work on gates 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
 - 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.



System completion

Ss_25_32_35/810 Documentation

1. Contents: General product information. Installation information. Inspection and maintenance reports.
2. Number of copies: Two.
3. Submission: Two weeks prior to date when principal contractor expects work to be practically complete.

Ss_25_32_35/820 Certificates for gates

1. Standard: To [BS 1722-7](#).
To [BS 1722-9](#).
To [BS 3470](#).
To [BS 5709](#).
To [BS 7818](#).
2. Submittals
 - 2.1. Gate manufacturer (on delivery)
 - 2.1.1. Certificate of conformity: Confirmation that fence and/ or gates are manufactured in accordance with client's instructions.
 - 2.1.2. Format: Supplier's name and address.

Contract or order number.

Date.

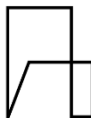
Purchaser's name and address.
 - 2.2. Gate installer (on completion)
 - 2.2.1. Certificate of conformity: Confirmation that materials and execution are in accordance with client's instructions.
 - 2.2.2. Format: Supplier's name and address.

Contract or order number.

Date.

Purchaser's name and address.

Ω End of System



Ss_25_60_05_05

Balustrade and guarding systems

Systems

Ss_25_60_05_05 Balustrade and guarding systems

1. Description: For steps
2. System performance: Ss_25_60_05/210 Design of balustrade and handrail systems generally;
Ss_25_60_05/220 Structural performance of handrails, balustrade and guarding systems
3. System manufacturer: Contractor's choice.
4. **Newels**
 - 4.1. Material: Galvanised powder coated steel
5. Uprights: Galvanised powder coated steel
6. **Rails**
 - 6.1. Handrails: Pr_25_30_36_11 Carbon steel handrails
 - 6.2. Mid rails: Pr_25_30_36_11 Carbon steel handrails
7. Fixing to parent structure: To manufacturer's recommendation.
8. Execution: Ss_25_60_05/620 Control inspections of balustrade and handrail systems;
Ss_25_60_05/650 Corrosion protection of dissimilar materials in handrail, balustrade and guarding systems; Ss_25_60_05/630 Fabrication of balustrade and handrail systems generally;
Ss_25_60_05/640 Installation of handrail, balustrade and guarding systems generally
9. System completion: Ss_25_60_05/820 Documentation for handrail, balustrade and guarding systems; Ss_25_60_05/810 Inspection of handrail, balustrade and guarding systems

System performance

Ss_25_60_05/210 Design of balustrade and handrail systems generally

1. Detailed design: Complete the design to meet structural and safety requirements of [BS 6180](#) and in accordance with [BS 8300-2](#).

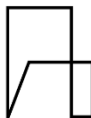
Ss_25_60_05/220 Structural performance of handrails, balustrade and guarding systems

1. Structure and associated features: Complete the detailed design in accordance with [BS 8300-2](#).
2. Horizontal uniformly distributed line loads on balustrade or handrail (maximum): 1.5 kN/m.

Products

Pr_25_30_36_11 Carbon steel handrails

1. Manufacturer: Contractor's choice
2. Diameter: 50mm diameter
3. Cross section: Circular.
4. **Finish**
 - 4.1. Requirement: Hot-dip-galvanized to [BS EN ISO 1461](#).
Powder coating to [BS EN 13438](#).
 - 4.2. Colour: TBC
 - 4.3. Film thickness (minimum): Coating applicator to determine.
5. **Accessories**
 - 5.1. Materials generally: To match handrail.



- 5.2. Adapters and panel clips: Handrail tube saddle with adjustable flat top, size to suit handrail diameter.
- 5.3. Brackets: Handrail tube bracket with straight, flat top, size to suit handrail diameter.
- 5.4. Baseplates and covers: Cover for baseplate, size to suit handrail diameter.
- 5.5. End caps: Handrail tube scroll, size to suit handrail diameter.
- 5.6. Angles and tees: Handrail tube adjustable elbow, size to suit handrail diameter.

Execution

Ss_25_60_05/620 **systems**

Control inspections of balustrade and handrail

1. Location of inspections: Site.
2. Notice before inspection and testing: Seven days.
3. Required inspections: At completion of fabrication and prior to installation.

Ss_25_60_05/630 **generally**

Fabrication of balustrade and handrail systems

1. Design: Complete the detailed design and obtain approval before fabrication.
2. Frameworks: Assemble and brace, including temporary members required for installation.
3. Contact between dissimilar metals: Avoid.
4. Fixings: Fully bolt together. Tighten bolts.
5. Temporary support: Do not subject members to non-design loadings.

Ss_25_60_05/640 **systems generally**

Installation of handrail, balustrade and guarding

1. Standard: In accordance with [BS 6180](#).

Ss_25_60_05/650

Corrosion protection of dissimilar materials in handrail, balustrade and guarding systems

1. Components: Isolate using washers, sleeves or other suitable means to separate materials to avoid corrosion and or staining.

System completion

Ss_25_60_05/810 Inspection of handrail, balustrade and guarding systems

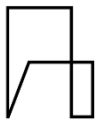
1. Timing: Two weeks prior to date when principal contractor expects work to be practically complete.
2. Period of notice (minimum): Three working days.

Ss_25_60_05/820 **guarding systems**

Documentation for handrail, balustrade and

1. Contents: Copies of structural design calculations and test reports. General product information. Installation information. Inspection and maintenance reports.
2. Number of copies: Two.
3. Submission: Two weeks before date when principal contractor expects work to be practically complete.

Ω End of System



Ss_30_14_05_06

AS1 Asphalt concrete paving systems

Systems

Ss_30_14_05_06 AS1 Asphalt concrete paving systems

1. Description: To new pedestrian footpaths site wide.
2. System manufacturer: To contractor's choice.
3. Geotextile membrane: To engineer's detail.
4. Granular sub-base: To engineer's detail.
5. Edge restraints: To engineer's detail.
6. Base course: To engineer's detail.
7. Binder course: To engineer's detail.
8. Surface course: Asphalt surface to match existing school asphalt.
9. Execution: Ss_30_14_05/641 Laying asphalt pavements generally; Ss_30_14_05/611 Disposal of arisings

Execution

Ss_30_14_05/611 Disposal of arisings

Shared by: Ss_30_14_05_06 AS3 Asphalt concrete paving systems

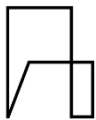
1. Biodegradable arisings: Remove to recycling center.
2. Tree roots and stumps: Remove from site.
3. Litter and non-biodegradable arisings: Remove from site.

Ss_30_14_05/641 Laying asphalt pavements generally

Shared by: Ss_30_14_05_06 AS3 Asphalt concrete paving systems

1. Standard: To [BS 594987](#).
2. [Adverse weather during laying of asphalt pavements](#)
 - 2.1. Frozen materials: Do not use.
 - 2.2. [Laying not permitted](#)
 - 2.2.1. Generally: During freezing conditions. If the air temperature reaches 0°C, or in calm dry conditions -3°C, on a falling thermometer.
 - 2.2.2. Hot-rolled asphalt: During periods of continuous or heavy rain or if there is standing water on the base.
3. Placing and compaction: In accordance with [BS 594987](#) and [MCHW Volume 1: Specification for highway works \(SHW\)](#).
4. Preparation: Remove loose material, rubbish and standing water.
5. Setting out: Start from an edge restraint.
6. Adjacent work: Form neat junctions. Do not damage.
7. Channels, gullies, etc.: Keep clear. Prevent damage.
8. New pavements: Keep traffic free until it has cooled to prevailing atmospheric temperature. Do not allow rollers to stand at any time. Prevent damage.
9. Condition on completion: Clean and remove excess material.

Ω End of System



Ss_30_14_05_06

AS3 Asphalt concrete paving systems

Systems

Ss_30_14_05_06 AS3 Asphalt concrete paving systems

1. Description: For MUGA
2. System manufacturer: Contractor's choice
3. Geotextile membrane: To engineer's detail.
4. Granular sub-base: To engineer's detail.
5. Edge restraints: EG2 Concrete flat top edge
6. Base course: To engineer's detail.
7. Binder course: To engineer's detail.
8. Bond coat: To engineer's detail.
9. Surface course: To engineer's detail.
10. Applied surface features: Pr_35_31_85_47 Line marking paints
11. Execution: Ss_30_14_05/641 Laying asphalt pavements generally; Ss_30_14_05/607 Surface characteristics of asphalt pavements; Ss_30_14_05/611 Disposal of arisings; Ss_30_14_05/711 Applying painted line markings

Products

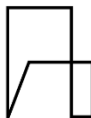
Pr_35_31_85_47 Line marking paints

1. Manufacturer: TBC with the client.
2. Purpose: TBC with the client.
3. Colour: TBC with the client.
4. Execution: TBC with the client.

Execution

Ss_30_14_05/607 Surface characteristics of asphalt pavements

1. Standard: In accordance with [BS 594987](#) and [MCHW Volume 1: Specification for highway works \(SHW\)](#).
2. Profile: Crossfall in a single plane.
3. Lines and levels: With regular falls to prevent ponding.
4. Uniformity: Free from ridges, seams, joints, hollows, bumps and textural variations which might cause a trip hazard.
5. Overall texture: Smooth and free from dragging, tearing or segregation.
6. Evenness of spread rate of binder and chippings for surface dressings and slurry surfacings: In accordance with [PD 6689](#).
7. [Surface regularity](#)
 - 7.1. Standard: To [BS 594987](#).
 - 7.2. Where a straight edge cannot be used: The surface must be of a comparable standard of accuracy when judged by eye.
8. [Permissible deviation from required falls and cambers \(maximum\)](#)
 - 8.1. Crossfall: 2–3%.
 - 8.2. Camber: 2–3% from crown to channel.
 - 8.3. Longitudinal fall: At least 0.8%



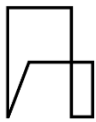
See Ss_30_14_05/611 Disposal of arisings in Ss_30_14_05_06 AS1 Asphalt concrete paving systems

See Ss_30_14_05/641 Laying asphalt pavements generally in Ss_30_14_05_06 AS1 Asphalt concrete paving systems

Ss_30_14_05/711 Applying painted line markings

1. Setting out: TBC
2. Width: 50 mm.

Ω End of System



Ss_30_14_90_30

CF Flag and slab bound paving systems Type A

Systems

Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

1. System manufacturer: [Marshall's plc](#) or similar and approved
2. Standard: To [BS 7533-12](#).
3. Geotextile below granular sub-base: Pr_25_57_65_60 Plastics sheets Type A
4. Granular sub-base: Pr_15_31_26_96 Well graded granular unbound mixtures
5. Laying course: Pr_20_31_53_61 Paving laying course mortars
6. **Paving course**
 - 6.1. Paving units: Pr_25_93_60_16 Concrete flags Type A
7. Execution: Ss_30_14_90/603 Protection of paving during works; Ss_30_14_90/605 Adverse weather and unit paving construction; Ss_30_14_90/626 Laying subgrade improvement layers and sub-base; Ss_30_14_90/633 Condition of sub-bases and bases before spreading laying course; Ss_30_14_90/651 Laying bound flag and slab pavements
8. System completion: Ss_30_14_90/801 Protection of completed pavements

Products

Pr_15_31_26_96 Well graded granular unbound mixtures

1. Supplied by: Contractor's choice
2. Standard: To [MCHW Volume 1: Specification for highway works \(SHW\)](#), clauses 801 and 803.
3. Constituents: Crushed rock (other than argillaceous rock). Coarse crushed concrete aggregate. Recycled aggregates.

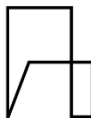
Pr_20_31_53_61 Paving laying course mortars

Shared by: Ss_30_14_90_30 TP1 Flag and slab bound paving systems and Ss_35_10_25_35 ST Ground bearing external stair systems

1. Manufacturer: Contractor's choice
2. Standard: In accordance with [BS 7533-4](#), paragraph 5.4.4.
3. Delivery condition: Bagged.
4. Characteristics: In accordance with [BS 7533-4](#), Table 3.

Pr_25_57_65_60 Plastics sheets Type A

1. Description: As weed control membrane
2. Manufacturer: TERRAM, or similar and approved.
3. Product reference: T1000
4. Material: Polypropylene.
5. Purpose: Weed control layer.
6. **Performance characteristics**
 - 6.1. Tensile strength (minimum): 8kN/m
 - 6.2. Tear resistance: 1500N
 - 6.3. Elongation to break: 60%
 - 6.4. UV stabilization: To BS EN 12224, 30 Days
 - 6.5. Anti-static properties: Required.



7. Recycled content: None – virgin material.
8. Form: Non-woven.
9. **Physical properties**
 - 9.1. Colour: White.
10. Execution: Reference to missing clause Installing geotextile sheet

Pr_25_93_60_16 Concrete flags Type A

1. Manufacturer: [Marshalls plc](#)
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: www.marshalls.co.uk
 - 2.4. Email: info@marshalls.co.uk
3. Product reference: [Conservation X Paving \(Textured finish\)](#)
4. Standard: To BS EN 1339.
5. **Physical properties**
 - 5.1. Colour: Silver Grey.
 - 5.2. Finish: Textured.
 - 5.3. **Dimensions and associated tolerances**
 - 5.3.1. Nominal sizes: 450 x 450 x 50 mm.
 - 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_90/603 Protection of paving during works

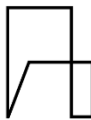
Shared by: Ss_30_14_90_30 TP1 Flag and slab bound paving systems and Ss_30_14_90_62 PB Permeable small unit paving systems

1. Cleanliness: Keep paving clean and free from mortar droppings, oil and other materials likely to cause staining.
2. Materials storage: Do not overload pavings with stacks of materials.
3. Handling: Do not damage paving unit corners, arrises, or previously laid paving.
4. Access: Restrict access to paved areas to prevent damage from site traffic and plant.

Ss_30_14_90/605 Adverse weather and unit paving construction

Shared by: Ss_30_14_90_30 TP1 Flag and slab bound paving systems and Ss_30_14_90_62 PB Permeable small unit paving systems

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

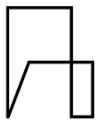
Shared by: Ss_30_14_90_30 TP1 Flag and slab bound paving systems and Ss_30_14_90_62 PB Permeable small unit paving systems

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_90/626 Laying subgrade improvement layers and sub-base

Shared by: Ss_30_14_90_62 PB Permeable small unit paving systems

1. Standard: In accordance with Highways England [MCHW Volume 1: Specification for highway works](#).
2. Subgrade improvement layer compacted thickness (nominal): To civil engineer's details and specification.
3. Granular sub-base
 - 3.1. Compacted thickness (nominal): To civil engineer's details and specification.
 - 3.2. Drainage falls: To civil engineer's details and specification.
4. Condition of sub-bases before spreading laying course
 - 4.1. Prepared sub bases: Sound, clean, free from rutting or major cracking. Remove sharp stones, projections and debris.
 - 4.2. Levels and falls: Accurate and within the specified tolerances.
 - 4.3. Drainage outlets: Within 0-10 mm of the required finished level.



Ss_30_14_90/633 Condition of sub-bases and bases before spreading laying course

Shared by: Ss_30_14_90_30 TP1 Flag and slab bound paving systems and Ss_30_14_90_62 PB Permeable small unit paving systems

1. Trenches and excavation of soft or loose spots in subgrade: Fill. Compact thoroughly.
2. Granular surfaces: To civil engineer's design and specification.
3. Prepared existing and new bound bases (roadbases): Sound, clean, free from rutting or major cracking. Remove sharp stones, projections and debris.
4. Subgrade, sub-base and roadbase presentation: In accordance with [BS 7533-3](#) Annex B.1.
5. Levels and falls: Accurate and within the specified tolerances.
6. Drainage outlets: Within 0–10 mm of the required finished level.
7. Features in unbound paving (including mortar bedded restraints and drainage ironwork) : Complete to required levels. Bed adequately. Haunch in mortar.
8. Sub-bases containing cement or hydraulic binder: Cure for minimum times specified in [BS 7533-4](#). Protect from moisture loss, if not covered by another pavement course within 2 hours of completion.

Ss_30_14_90/651 Laying bound flag and slab pavements

Shared by: Ss_30_14_90_30 TP1 Flag and slab bound paving systems

1. General requirements: Ss_30_14_90/607 Laying unit pavings generally
2. Standard: In accordance with [BS 7533-4](#).
3. Laying course thickness (nominal): 30 mm before laying paving slabs.
4. **Bond**
 - 4.1. Concrete flags: Straight line.
5. Laying and jointing: Contractor's choice.
6. Joint width (nominal): 5 mm.

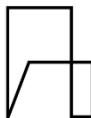
System completion

Ss_30_14_90/801 Protection of completed pavements

Shared by: Ss_30_14_90_30 TP1 Flag and slab bound paving systems and Ss_30_14_90_62 PB Permeable small unit paving systems

1. **Mortar bedded paving**
 - 1.1. Protection: Protect from pedestrian or vehicular traffic for the minimum required periods.
 - 1.2. **Traffic free periods (minimum)**
 - 1.2.1. Pedestrian traffic: 24 hours.
 - 1.2.2. Vehicular traffic: 7 days.
2. Grass filled paving: Protect from traffic for 6–8 weeks or until grass can tolerate traffic.

Ω End of System



Ss_30_14_90_30

TP1 Flag and slab bound paving systems

Systems

Ss_30_14_90_30 TP1 Flag and slab bound paving systems

1. Description: For tactile paving
2. System manufacturer: [Tobermore](#) or equal and approved.
3. Standard: To [BS 7533-12](#).
4. Geotextile below granular sub-base: To engineer's specification
5. Granular sub-base: To engineer's specification
6. Base course: To engineer's specification
7. Laying course: Pr_20_31_53_61 Paving laying course mortars
8. Paving course
 - 8.1. Paving units: Pr_25_93_60_23 TP1 Concrete tactile flags
 - 8.2. Jointing: Pr_20_31_53_60 Paving jointing mortars
9. Execution: Ss_30_14_90/603 Protection of paving during works; 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_90/613 Regularity of finished paving surface; Ss_30_14_90/617 Avoidance of colour banding in unit paving; Ss_30_14_90/619 Disposal of arisings; Ss_30_14_90/633 Condition of sub-bases and bases before spreading laying course; Ss_30_14_90/651 Laying bound flag and slab pavements
10. System completion: Ss_30_14_90/801 Protection of completed pavements

Products

Pr_20_31_53_60 Paving jointing mortars

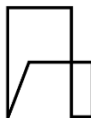
Shared by: Ss_35_10_25_35 ST Ground bearing external stair systems

1. Manufacturer: Contractor's choice
2. Standard: In accordance with [BS 7533-4](#), paragraph 5.4.4.
3. Delivery condition: Bagged.
4. Compressive strength (minimum): 40 N/mm².
5. Characteristics: In accordance with [BS 7533-4](#), Table 4.

See Pr_20_31_53_61 Paving laying course mortars in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

Pr_25_93_60_23 TP1 Concrete tactile flags

1. Description: Hazard warning paving to staircase.
2. Manufacturer: [Tobermore](#) or equal and approved.
3. Contact details
 - 3.1. Address: 2 Lisnamuck Road
Tobermore
Co L'derry
BT45 5QF
 - 3.2. Telephone: [+44 \(0\)844 800 5736](tel:+44(0)8448005736)
 - 3.3. Web: www.tobermore.co.uk
 - 3.4. Email: NBSdataplatfom@tobermore.co.uk
4. Product reference: [Tactile Flag - Hazard Warning](#) or equal and approved.



5. Standard: To BS EN 1339.
6. **Physical properties**
 - 6.1. Colour: Buff.
 - 6.2. **Profile**
 - 6.2.1. Flag type: Blister.
 - 6.2.2. Arrises: Square.
 - 6.3. **Dimensions and associated tolerances**
 - 6.3.1. Nominal sizes: 400 x 400 x 50 mm.
 - 6.4. Recycled content (minimum): Not less than 5%.
7. Skid resistance: Extremely low (>75 USRV).
8. Slip resistance: Extremely low (>75 USRV).
9. BREEAM rating: A (A+ can be achieved when used with recycled sub-base).
10. Surface Layer: Hard-wearing surface layer with a minimum of 4 mm and >390 kg/m³ cement.
11. Tensile Strength: >5 MPa (Class 3).

Execution

See Ss_30_14_90/603 Protection of paving during works in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

See Ss_30_14_90/605 Adverse weather and unit paving construction in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

See Ss_30_14_90/607 Laying unit pavings generally in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

Ss_30_14_90/609 Cutting paving units

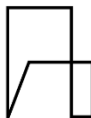
Shared by: Ss_30_14_90_62 PB Permeable small unit paving systems

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

Shared by: Ss_30_14_90_62 PB Permeable small unit paving systems

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. Roadbase: -20 to +20 mm.
 - 2.1.3. Laying course: -20 to +20 mm.
 - 2.1.4. Surface course: ±6 mm.
 - 2.1.5. Kerbs and channels: ±6 mm.
 - 2.2. **Conventional pavements**
 - 2.2.1. Sub-base: -10 to +5 mm.
 - 2.2.2. Roadbase: -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_90/613 Regularity of finished paving surface

Shared by: Ss_30_14_90_62 PB Permeable small unit paving systems

1. Standards: In accordance with [BS 7533-3](#), [BS 7533-4](#) and [BS 7533-7](#).
2. Method of measurement: Under a 3 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface).
3. **Maximum undulations in the pavement surface**
 - 3.1. Precast concrete paving blocks and clay pavers for flexible pavements: 10 mm.
 - 3.2. Precast concrete flags or natural stone slabs: 3 mm.
 - 3.3. Natural stone setts and cobbles, and rigid construction with precast concrete block pavers: 3 mm.
4. Sudden irregularities: Not permitted.
5. Difference in level between adjacent paving units (maximum): 2 mm.

Ss_30_14_90/617 Avoidance of colour banding in unit paving

Shared by: Ss_30_14_90_62 PB Permeable small unit paving systems

1. General: Unless premixed by manufacturer, select from separate packs in rotation to avoid colour banding.
2. Number of separate packs: 3.

Ss_30_14_90/619 Disposal of arisings

Shared by: Ss_30_14_90_62 PB Permeable small unit paving systems

1. Biodegradable arisings: Remove to recycling facility.
2. Tree roots and stumps: Remove from site.
3. Litter and nonbiodegradable arisings: Remove from site.

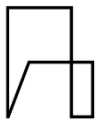
See Ss_30_14_90/633 Condition of sub-bases and bases before spreading laying course in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

See Ss_30_14_90/651 Laying bound flag and slab pavements in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

System completion

See Ss_30_14_90/801 Protection of completed pavements in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

Ω End of System



Ss_30_14_90_62

PB Permeable small unit paving systems

Systems

Ss_30_14_90_62 PB Permeable small unit paving systems

1. Description: Permeable block paving to the car park with line markings.
2. System performance: To Engineer's specification.
3. System manufacturer: [Tobermore](#) or equal and approved.
4. Standard: To [BS 7533-13](#).
5. Impermeable membrane: To Engineer's specification.
6. Water collectors: To Engineer's specification.
7. Granular sub-base: To Engineer's specification.
8. Geotextile below laying course: To Engineer's specification.
9. Laying course: Pr_20_31_04_62 Permeable laying course aggregates
10. [Paving course](#)
 - 10.1. Paving units: Pr_25_93_60_17 PB Concrete paving blocks
 - 10.2. Jointing: Pr_20_31_04_62 Permeable laying course aggregates
11. Execution: Ss_30_14_90/603 Protection of paving during works; 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_90/613 Regularity of finished paving surface; 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_90/619 Disposal of arisings; Ss_30_14_90/626 Laying subgrade improvement layers and sub-base; Ss_30_14_90/633 Condition of sub-bases and bases before spreading laying course; Ss_30_14_90/673 Laying permeable unit pavements; Ss_30_14_90/781 Final compaction of unbound paving; Ss_30_14_90/731 Laying geotextiles below laying course
12. System completion: Ss_30_14_90/801 Protection of completed pavements; Ss_30_14_90/805 Verification of performance

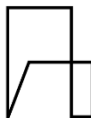
Products

Pr_20_31_04_62 Permeable laying course aggregates

1. Supplied by: Contractor's choice.
2. Standard: To [BS EN 12620](#)
3. Certification: Provide CE Mark/ UKCA marking and a Declaration of Performance (DoP).
4. Material: Crushed rock sand.
5. [Geometrical properties](#)
 - 5.1. Aggregate size: 2/6.
 - 5.2. Aggregate grading category: G_c80/20.
6. Particle shape: Angular.
7. Fines content: F2.

Pr_25_93_60_17 PB Concrete paving blocks

1. Description: Paving units to car park.
2. Manufacturer: [Tobermore](#) or equal and approved.
3. [Contact details](#)



- 3.1. Address: 2 Lisnamuck Road
Tobermore
Co L'derry
BT45 5QF
- 3.2. Telephone: +44 (0)844 800 5736
- 3.3. Web: www.tobermore.co.uk
- 3.4. Email: NBSdataplatfom@tobermore.co.uk
4. Product reference: [Hydropave Pedesta | Permeable Block Paving](#) or equal and approved.
5. Standard: To BS EN 1338.
6. **Physical properties**
 - 6.1. Colour: Natural.
 - 6.2. Finish: Smooth.
 - 6.3. **Dimensions and associated tolerances**
 - 6.3.1. Nominal sizes: 200 x 100 x 80 mm.
 - 6.4. Slip resistance: Extremely low (>75 USRV).
 - 6.5. Skid resistance: Extremely low (>75 USRV).
7. Efflorescence: Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence.
8. Drainage void width: 5.5% to accommodate correct grit grading, reduced maintenance and maximise drainage flow rate.
9. Permeability: 32 000 L/s/ha.
10. Strength: >3.6 MPa.
11. EnergyUsed: 100%.
12. WaterUsed: 100%.
13. BREEAM rating: 60 mm: A; 80 mm: B to the Green Guide to Specification, 4th Edition 2009 (Enhanced rating can be achieved by using a recycled sub-base).

Execution

See Ss_30_14_90/603 Protection of paving during works in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

See Ss_30_14_90/605 Adverse weather and unit paving construction in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

See Ss_30_14_90/607 Laying unit pavings generally in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

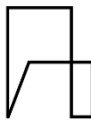
See Ss_30_14_90/609 Cutting paving units in Ss_30_14_90_30 TP1 Flag and slab bound paving systems

See Ss_30_14_90/611 Permissible deviations from design levels for unit paving in Ss_30_14_90_30 TP1 Flag and slab bound paving systems

See Ss_30_14_90/613 Regularity of finished paving surface in Ss_30_14_90_30 TP1 Flag and slab bound paving systems

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.
- See Ss_30_14_90/617 Avoidance of colour banding in unit paving in Ss_30_14_90_30 TP1 Flag and slab bound paving systems

See Ss_30_14_90/619 Disposal of arisings in Ss_30_14_90_30 TP1 Flag and slab bound paving systems

See Ss_30_14_90/626 Laying subgrade improvement layers and sub-base in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

See Ss_30_14_90/633 Condition of sub-bases and bases before spreading laying course in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

Ss_30_14_90/673 Laying permeable unit pavements

1. General requirements: Ss_30_14_90/607 Laying unit pavings generally
2. Standard: In accordance with [BS 7533-3](#).
3. Compaction: In accordance with [BS 7533-3](#). Determine by trial the depth of loose bedding material needed to ensure specified bedding course thickness after final compaction of paving.
4. Thickness after compaction (nominal): 50 mm.
5. Joint width: 6 mm.

Ss_30_14_90/731 Laying geotextiles below laying course

1. Position: Immediately below the laying course.
2. [Edge detail](#)
 - 2.1. Features which interrupt laying course: Fit neatly against perimeters, edge restraints, kerbs and drainage fittings. Turn sheet up to form an upstand to a height of the thickness of the laying course.
 - 2.2. [Over drainage holes](#)
 - 2.2.1. Position: Lay geotextile patches on the base, centrally over each hole.
 - 2.2.2. Size of patches: To civil engineer's detail and specification.
3. Jointing lap (minimum): To civil engineer's detail and specification.

Ss_30_14_90/781 Final compaction of unbound paving

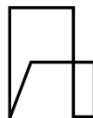
1. Sand dressing: Leave a thin layer of dry fine aggregate jointing material over the paving, sweep clean before practical completion.
2. Final compaction of the surface course: In accordance with [BS 7533-3](#).

System completion

See Ss_30_14_90/801 Protection of completed pavements in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

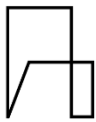
Ss_30_14_90/805 Verification of performance

1. Requirement: Check completed system and provide assurance of compliance with specified performance.
2. [Submittals](#)



- 2.1. Format: Description of inspections, remedial works carried out and certification of compliance.
- 2.2. Timing: At completion of instillation.

Ω End of System



Ss_35_10_25_35

ST Ground bearing external stair systems

Systems

Ss_35_10_25_35 ST Ground bearing external stair systems

1. Description: External staircase from dining level to MUGA level.
2. System performance: To engineer's detail.
3. System manufacturer: Contractor's choice
4. **Site preparation**
 - 4.1. Preparation products: To engineer's detail.
 - 4.2. Subgrade improvement layer: To engineer's detail.
 - 4.3. Geotextile below granular sub-base: To engineer's detail.
 - 4.4. Granular sub-base: To engineer's detail.
 - 4.5. Geotextile below laying course: To engineer's detail.
5. **Surface**
 - 5.1. Going: Pr_25_30_90_18 ST Concrete step units
 - 5.2. Rise: Pr_25_30_90_18 ST Concrete step units
 - 5.3. Landings: Pr_25_93_60_16 AS4 Concrete flags
 - 5.4. Laying course: Pr_20_31_53_61 Paving laying course mortars
 - 5.5. Jointing: Pr_20_31_53_60 Paving jointing mortars
 - 5.6. Applied stair nosings: Contrasting nosing.
6. Balustrade guarding: In accordance to [BS 6180](#).
7. Execution: Ss_35_10_25/642 Laying bound (rigid) concrete flag and natural stone slab paving; Ss_35_10_25/670 Installation of external stairs and ramp systems generally; Ss_35_10_25/672 Installation of manufactured stone elements for external stairs; Ss_35_10_25/690 Adverse weather during execution of external stairs and ramps
8. System completion: Ss_35_10_25/810 Inspection of external ramps and stair systems; Ss_35_10_25/820 Slip resistance testing of external ramps and stair systems

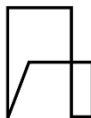
Products

See Pr_20_31_53_60 Paving jointing mortars in Ss_30_14_90_30 TP1 Flag and slab bound paving systems

See Pr_20_31_53_61 Paving laying course mortars in Ss_30_14_90_30 CF Flag and slab bound paving systems Type A

Pr_25_30_90_18 ST Concrete step units

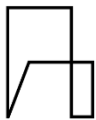
1. Description: Granite step unit
2. Manufacturer: [Tobermore](#) or equal and approved.
3. **Contact details**
 - 3.1. Address: 2 Lisnamuck Road
Tobermore
Co L'derry
BT45 5QF
 - 3.2. Telephone: [+44 \(0\)844 800 5736](tel:+4418448005736)
 - 3.3. Web: www.tobermore.co.uk
 - 3.4. Email: NBSdataplatfrom@tobermore.co.uk



4. Product reference: [Granite Step Unit With Contrasting Nosing | Concrete Step \(350 x 150 x 1000 mm\)](#) or equal and approved.
5. Standards: To BS EN 1339: 2003.
6. Step unit configuration: Solid step.
7. Colour: Silver.
8. **Finish**
 - 8.1. Treads: Textured.
 - 8.2. Risers: Textured.
9. Physical Properties Dimensions And Associated Tolerances Nominal Sizes: 350 x 150 x 1000 mm.
10. Physical Properties Slip Resistance: Extremely low.
11. Physical Properties Skid Resistance: Extremely low.
12. Surface Layer: Not less than 56.4% of granite aggregate in surface layer.
13. Tensile Strength: >5MPa (Class 3).
14. Efflorescence: Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence.
15. BREEAM rating: Refer to the Green Guide to Specification, 4th Edition 2009.
16. Packaged weight: 1200 kg.
17. Pack size: 10.

Pr_25_93_60_16 AS4 Concrete flags

1. Manufacturer: [Tobermore](#)
2. **Contact details**
 - 2.1. Address: 2 Lisnamuck Road
Tobermore
Co L'derry
BT45 5QF
 - 2.2. Telephone: [+44 \(0\)844 800 5736](tel:+44(0)8448005736)
 - 2.3. Web: www.tobermore.co.uk
 - 2.4. Email: NBSdataplatform@tobermore.co.uk
3. Product reference: [Braemar Flags | Premium Slab Paving](#)
4. Standard: To BS EN 1339:2003, BS 7533-4:2003, BS 7533-4:2006, ISO 9001:2015, ISO 14001:2015.
5. **Physical properties**
 - 5.1. Colour: Alto silver.
 - 5.2. Finish: Diamond ground finish.
 - 5.3. **Profile**
 - 5.3.1. Arrises: Chamfered.
 - 5.4. **Dimensions and associated tolerances**
 - 5.4.1. Nominal sizes: 600 x 400 x 50 mm.
 - 5.4.2. Tolerances on plan dimension and thickness (nominal): Length: ±2mm; width: ±2mm; thickness: ±3mm.
 - 5.5. Weathering resistance: > 1.5 kg/m² Class 3.
 - 5.6. Abrasion resistance: Class 3.
 - 5.7. Slip resistance: Low.
 - 5.8. Skid resistance: Low.
 - 5.9. Recycled content (minimum): 6%.
6. Tensile Strength: >5MPa (Class 3).



7. Granite content: Not less than 63.3% of granite aggregate in surface layer.
8. Efflorescence: Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence.
9. Durability Class: Class 3.
10. Reaction to fire: Class A1.
11. BREEAM rating: A (A+ can be achieved when used with recycled sub-base).
12. Finishing surface: Hard-wearing surface layer with a minimum of 4 mm and >390 kg/m³ cement.

Execution

Ss_35_10_25/642 Laying bound (rigid) concrete flag and natural stone slab paving

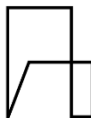
1. Standard: In accordance with Interpave publication '[Concrete flag paving. Guide to the properties, design, handling, construction, reinstatement and maintenance of concrete flag pavements](#)'.
2. Laying course thickness (nominal): 30 mm before laying paving slabs.
3. Bond
 - 3.1. Concrete flags: Straight line.
4. Laying and jointing: Ensure that goings are securely attached to risers with mortar.
5. Joint width (nominal): 5 mm.

Ss_35_10_25/670 Installation of external stairs and ramp systems generally

1. Structural members: Do not modify, cut, notch or make holes in structural members, except as indicated on drawings.
2. Temporary support: Do not use finished work as temporary support or strutting for other work.
3. Site finish: Ensure that steps have equal consistency in terms of going, rise and nosing sizes.

Ss_35_10_25/672 Installation of manufactured stone elements for external stairs

1. Damaged units: Do not use.
2. Accuracy
 - 2.1. Courses: Level and true to line.
 - 2.2. Faces, angles and features: Plumb.
 - 2.3. Setting out: Achieve satisfactory junctions and joints with adjoining or built-in elements and components.
3. Absorbent units: Dampen in warm weather to reduce suction.
4. Dowel spacing: Two per horizontal element, one per vertical element.
5. Mortar joints
 - 5.1. Size: 5mm
 - 5.2. Profile: Recessed.
 - 5.3. Laying: Full bed of mortar. Fill joints and voids.
 - 5.4. Temporary distance pieces: Lead or stainless steel. Remove when mortar is sufficiently strong.
 - 5.5. Appearance: Neat and consistent.
6. Cleanliness
 - 6.1. Facework: Keep clean.



- 6.2. Rubbing and other abrasive or chemical cleaning methods to remove marks and stains: Not permitted.
7. Cutting of reinforced units: Not permitted.

Ss_35_10_25/690 Adverse weather during execution of external stairs and ramps

1. General: Do not use frozen materials and do not lay on frozen surfaces.
2. **Working limits**
 - 2.1. Cement-gauged mortars: Do not lay blocks/ dressings when the air temperature is at or below 3°C and falling or below 1°C and rising (unless mortar has a temperature of not less than 4°C when laid and work is thoroughly protected).
 - 2.2. Hydraulic lime and sand mortars : Do not lay blocks/ dressings when the air temperature is at or below 5°C and falling or below 3°C and rising.
3. Temperature of the work: Maintain above freezing until mortar has fully set.
4. Newly erected work: Protect from precipitation. Prevent rapid drying in hot conditions.
5. **Remedial work**
 - 5.1. Mortar damaged by frost: Rake out and replace.
 - 5.2. Cracked and damaged masonry: Rebuild.

System completion

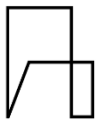
Ss_35_10_25/810 Inspection of external ramps and stair systems

1. Timing: Two weeks prior to date when principal contractor expects work to be practically complete.
2. Period of notice (minimum): Three working days.

Ss_35_10_25/820 Slip resistance testing of external ramps and stair systems

1. Surfaces to be tested: Steps
2. Surface condition: Dry and wet.
3. Timing: Two weeks before handover, but after initial cleaning.
4. Period of notice (minimum): Three working days.
5. **Slip resistance test**
 - 5.1. Standard: To [BS 7976-2](#).
 - 5.2. Testing authority: A [UKAS](#)-accredited laboratory.
 - 5.3. Witnesses and certifiers: Contract administrator.
 - 5.4. Report: Submit in format to [BS 7976-2](#).

Ω End of System



Ss_40_20_30_28

PT1 External furniture systems

Systems

Ss_40_20_30_28 PT1 External furniture systems

1. Description: Picnic benches.
2. Foundations: To engineer
3. External furniture: Pr_40_30_30_86 PT1 Street and site tables
4. Execution: Ss_40_20_30/607 Work on street furniture generally
5. System completion: Ss_40_20_30/823 Requirements for completion; Ss_40_20_30/824 Documentation; Ss_40_20_30/825 Maintenance until practical completion

Products

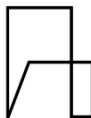
Pr_40_30_30_86 PT1 Street and site tables

1. Description: Alphabet Junior Picnic Table or equal and approved.
2. Manufacturer: Broxap Street Furniture or equal and approved.
Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD
[01782 564411](tel:01782564411)
info@broxap.com
3. Dimensions
 - 3.1. Width: 1100 mm.
 - 3.2. Length: 1200 mm.
 - 3.3. Height: 610 mm.
4. Fixing: Free Standing.
5. Material: Recycled plastic.
6. Colours: RAL colour to be determined.

Execution

Ss_40_20_30/607 Work on street furniture generally

1. Metal fixings: Protect from corrosion.
2. In situ welding: Permitted, subject to completion of and compliance with a 'hot work permit' form.
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: Remove to recycling facility.
 - 6.2. Tree roots and stumps: Remove from site.
 - 6.3. Litter and non-biodegradable arisings: Remove from site.

System completion

Ss_40_20_30/823

Requirements for completion

1. Condition: Leave the works in a clean, tidy condition. Clean immediately before handover.
2. Tools: Supply tools required for operation, maintenance and cleaning purposes.

Ss_40_20_30/824

Documentation

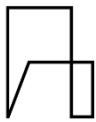
1. Manufacturer's operation and maintenance instructions
 - 1.1. Submit for the following products: Picnic benches.
 - 1.2. Information required:
 - Product description.
 - Date of purchase.
 - Performance characteristics.
 - Application (suitability for use).
 - Method of operation and control.
 - Cleaning and maintenance requirements.
 - 1.3. Number of copies: Two.
2. Submission: Two weeks before date of practical completion.

Ss_40_20_30/825

Maintenance until practical completion

1. Duration: Until 12 months after Practical Completion.

Ω End of System



Ss_40_70_75_05

Ball court FF&E systems

Systems

Ss_40_70_75_05 Ball court FF&E systems

1. Description: Sports equipment to MUGA.
2. System supplier: Contractor's choice.
3. **Activity equipment**
 - 3.1. Basketball: TBC with client.
 - 3.2. Football: TBC with client.
 - 3.3. Netball: TBC with client.
 - 3.4. Tennis: TBC with client.
4. Accessories: TBC with client.
5. Execution: Ss_40_70_75/610 Installing sport equipment
6. System completion: Ss_40_70_75/830 Documentation; Ss_40_70_75/890 Verification of performance; Ss_40_70_75/820 Cleaning; Ss_40_70_75/850 Operating tools

Execution

Ss_40_70_75/610 Installing sport equipment

1. Standards: To [BS EN 15312](#).

System completion

Ss_40_70_75/820 Cleaning

1. General: Leave the works in a clean, tidy condition.
2. Surfaces: Clean immediately before handover.

Ss_40_70_75/830 Documentation

1. Contents: General product information. Installation information. Inspection and maintenance reports.
2. Number of copies: Two.
3. Submission: Two weeks prior to date when principal contractor expects work to be practically complete.

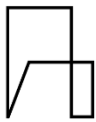
Ss_40_70_75/850 Operating tools

1. Tools: Supply tools required for operation, maintenance and cleaning purposes.

Ss_40_70_75/890 Verification of performance

1. Requirements: Check completed system and provide assurance of compliance with specified performance
2. **Submission**
 - 2.1. Format: Description of inspections, remedial works carried out and certification of compliance.
 - 2.2. Timing: At completion of installation.

Ω End of System



Ss_40_85_72_20

Cycle parking equipment systems

Systems

See Ss_20_05_15_90 Unreinforced concrete foundation systems for cast-in products in
Ss_25_32_35_37 Hinged gate systems

Ss_40_85_72_20 Cycle parking equipment systems

1. Description: Cycle stands.
2. System manufacturer: Langley Design or equal and approved.
3. Foundations: Ss_20_05_15_90 Unreinforced concrete foundation systems for cast-in products
4. Equipment: Malford Cycle Rack MCR200 or equal and approved.
5. Site-applied finishes: Powder coated to RAL colour TBC.
6. Execution: Ss_40_85_72/610 Work on street furniture generally; Ss_40_85_72/615 Fixing baseplates to concrete pads and strips
7. System completion: Ss_40_85_72/840 Documentation

Execution

Ss_40_85_72/610 Work on street furniture generally

1. Metal fixings: Protect from corrosion.
2. In situ welding: Permitted, subject to completion of and compliance with a 'hot work permit' form.
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. Disposal of arisings
 - 4.1. Biodegradable arisings: Remove to recycling facility.
 - 4.2. Tree roots and stumps: Remove to recycling facility.
 - 4.3. Litter and non-biodegradable arisings: Remove from site.

Ss_40_85_72/615 Fixing baseplates to concrete pads and strips

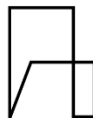
1. Post fasteners: To manufacturer's recommendation.
2. Fixing: Securely fix components.

System completion

Ss_40_85_72/840 Documentation

1. Contents: General product information. Installation information. Inspection and maintenance reports.
2. Number of copies: Two.
3. Submission: Two weeks prior to date when principal contractor expects work to be practically complete.

Ω End of System



Ss_45_35_05_64

Pit-planted perennial systems

Systems

Ss_45_35_05_64 Pit-planted perennial systems

1. Description: To ornamental, shade and rain garden planting beds.
2. Preparatory work to soil
 - 2.1. Herbicide: Pr_45_31_37_76 Selective herbicides
 - 2.2. Soil ameliorant: Not required.
 - 2.3. Fertilizer: Not required.
 - 2.4. Additional materials: Not required.
 - 2.5. Weed control fabric: Not required.
3. Plants: Pr_45_30_36_16 Container-grown perennials
4. Plant pit backfill material: Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material; Pr_45_31_89_41 Imported topsoil
5. Mulch: Pr_45_31_63_56 Natural bark
6. 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_05/609 Protection of existing grass during amenity planting; Ss_45_35_05/610 Water restrictions; Ss_45_35_05/612 Cultivation of topsoil; Ss_45_35_05/613 Preparation of undisturbed topsoil; Ss_45_35_05/615 Applying compost to topsoil; Ss_45_35_05/631 Random setting out of amenity planting; Ss_45_35_05/646 Application rates for ameliorants and fertilizer to backfill; Ss_45_35_05/691 Applying loose mulch to planting beds
7. 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_05/806 Watering new planting; Ss_45_35_05/807 Final mulching of planting beds and trees; Ss_45_35_05/809 Plants that have failed to thrive; Ss_45_35_05/810 Instructions for maintenance

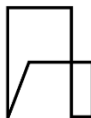
Products

Pr_45_30_36/301 Nursery stock generally – herbaceous and aquatic plants

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. Root system: Balanced and appropriate for the species.
 - 1.6. Species: True to name.
2. Delivery label requirements
 - 2.1. 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.
 - 2.2. Additional information: Country of origin. Date supplied and consignment details or reference.

Pr_45_30_36_16 Container-grown perennials

1. Description: Refer to planting schedule for species and specifications.



2. General requirements: Pr_45_30_36/301 Nursery stock generally – herbaceous and aquatic plants
 3. Supplied by: Contractor's choice
 4. Standard: In accordance with the [National Plant Specification](#).
 5. Root condition: 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 and moss. The root system must never be allowed to dry out. Container to have adequate holes for drainage when placed on any substrate.
 6. Execution: Pr_45_30_36/603 Handling, storage and transport of herbaceous and aquatic plants
- See Pr_45_31_37_76 Selective herbicides in Ac_85_30_02/190 Amenity planting maintenance
- See Pr_45_31_63_56 Natural bark in Ac_85_30_02/190 Amenity planting maintenance
- See Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally in Ac_85_30_01/190 Amenity grass maintenance

Pr_45_31_89_16 Composted materials

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

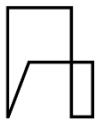
1. Description: For tree planting.
2. Supplier: Submit proposals
3. Source: Submit proposals.
4. Certification: To [PAS 100](#) and Compost Quality Protocol.
5. Compost type: Well rotted composted green material.
6. Application: Apply and thoroughly and evenly incorporate green compost into the backfill topsoil at a rate of 20 litres/sq.m
7. [Horticultural parameters](#)
 - 7.1. pH (1:5 water extract): 7.5–8.5
 - 7.2. Electrical conductivity (maximum, 1:5 water extract): 200 mS/m.
 - 7.3. Moisture content (m/m of fresh weight): 35–55%.
 - 7.4. Organic matter content (minimum): 25%.
 - 7.5. Grading (air-dried samples): 95% passing 25 mm and 90% passing 10 mm screen mesh apertures.
 - 7.6. Carbon:Nitrogen ratio (maximum): 20:1.
8. Texture: Friable.
9. Objectionable odour: Not permitted.

See Pr_45_31_89_41 Imported topsoil in Ac_85_30_01/190 Amenity grass maintenance

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

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and 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: 4 parts of Excavated topsoil.
3. Additional soil ameliorant materials: 1 part of Pr_45_31_89_16 Composted materials



Execution

Pr_45_30_36/603 Handling, storage and transport of herbaceous and aquatic plants

1. Standard: In accordance with the Committee for Plant Supply and Establishment [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. Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
4. Packaging of bare root plants: Coextruded polyethylene bags with black interior and white exterior.
5. Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped.
6. Transportation: In accordance with CPSE [Handling and establishing landscape plants](#). Prevent crushing of plants from overloading and securing straps. Protect from wind damage and drying out.
7. Temporary storage
 - 7.1. Location: Stand plants upright on well-drained, weed-free ground protected from wind damage, direct sunlight and frost.
 - 7.2. Duration: Minimum period in accordance with CPSE [Handling and establishing landscape plants](#).
 - 7.3. Watering: Keep roots and compost moist throughout storage period.

See Pr_45_31_37/601 Application of selective herbicides in Ac_85_30_02/190 Amenity planting maintenance

Ss_45_35_05/601 Amenity planting generally

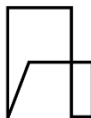
Shared by: Ss_45_35_05_67 Pit-planted small tree and shrub systems

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_66 Pit-planted large tree systems and 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.



Ss_45_35_05/605

Climatic conditions for amenity planting

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and 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_05/609

Protection of existing grass during amenity planting

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

1. General: Protect areas affected by planting operations, using boards or tarpaulins.
2. Excavated or imported material: Do not place directly on grass.
3. Duration of planting operations: Minimum period.

Ss_45_35_05/610 Water restrictions

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and 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_05/611 Disposal of arisings

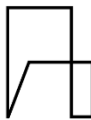
Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Generally: Leave the works in a clean, tidy condition at completion.
2. Surplus topsoil: Remove from site.
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. Stones removed during cultivation and topsoil preparation: Remove from site.
10. Contamination: Remove from site material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

Ss_45_35_05/612 Cultivation of topsoil

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. General requirements: Ss_45_35_05/611 Disposal of arisings
2. **Grading and cultivation**
 - 2.1. Standard: In accordance with [BS 4428](#).
 - 2.2. Category: A.
3. **Working conditions**
 - 3.1. Soil condition: Reasonably dry and workable.
 - 3.2. Timing: Within a few days before planting.



- 3.3. Weather and ground conditions: Suitably dry.
4. Compacted topsoil: Break up to full depth.
5. Soil with root spread of trees and shrubs to be retained: Do not dig or cultivate.
6. **Tilth**
 - 6.1. Generally: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
 - 6.2. Depth: 300mm Depth for Perennials and Shrubs Planting Beds.
 - 6.3. Particle size (maximum): 10 mm.
7. **Surface**
 - 7.1. Contours: Grade to accurate configurations as shown on drawings.
 - 7.2. Hollows and ridges: Not permitted.
8. Remove visible weeds, roots and large stones with any dimensions exceeding: 50 mm.
9. Give notice: If required levels cannot be achieved by movement of existing soil.

Ss_45_35_05/613 Preparation of undisturbed topsoil

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. General requirements: Ss_45_35_05/611 Disposal of arisings
2. Hard ground: Break up thoroughly.
3. Remove visible roots and large stones with a diameter greater than: 50 mm.
4. Areas covered with turf or thick sward: Plough or dig over to full depth of topsoil.
5. Fallow period (minimum): One month.

Ss_45_35_05/615 Applying compost to topsoil

1. Locations for application: To be confirmed subject to soil test result and recommendation.
2. Application rate: To be confirmed subject to soil test result and recommendation.
3. Timing: Apply prior to cultivation.

Ss_45_35_05/631 Random setting out of amenity planting

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

1. Layout: Random groups of 3, 5 and 7 of the same species, such that no three plants are aligned or otherwise stated in Planting Schedule.
2. Planting density: As per planting schedule.

Ss_45_35_05/646 Application rates for ameliorants and fertilizer to backfill

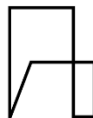
Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Ameliorant and conditioner application rate (minimum): 2 m³ per 10 m³ of topsoil.

Ss_45_35_05/691 Applying loose mulch to planting beds

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

1. Preparation: Clear weeds. Water soil thoroughly.
2. Coverage: 75 mm depth.
3. Finished level of mulch: 30 mm below adjacent grassed or paved areas.



System completion

Ss_45_35_05/801 Operations immediately after planting

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and 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_05/802 Establishment of new planting

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

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

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

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_05/806 Watering new planting

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and 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) : As per landscape maintenance schedule.
6. Timing: After dusk.

Ss_45_35_05/807 Final mulching of planting beds and trees

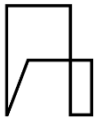
Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

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

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Defects due to materials or workmanship not in accordance with the Contract



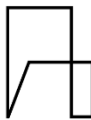
- 1.1. Exclusions: Theft or malicious damage after completion.
 - 1.2. Rectification: Replace with equivalent plants/ trees/ shrubs.
2. Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater.

Ss_45_35_05/810 Instructions for maintenance

Shared by: Ss_45_35_05_66 Pit-planted large tree systems and Ss_45_35_05_67 Pit-planted small tree and shrub systems

1. Recommended procedures for maintenance of planting work for one year
 - 1.1. Format: Printed report.
 - 1.2. Timing: Before end of maintenance period.
 - 1.3. Content: Schedule of ongoing maintenance problems experienced during the rectification period.

Ω End of System



Ss_45_35_05_66

Pit-planted large tree systems

Systems

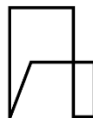
Ss_45_35_05_66 Pit-planted large tree systems

1. Preparatory work to soil
 - 1.1. Herbicide: Pr_45_31_37_76 Selective herbicides
 - 1.2. Fertilizer: Pr_45_31_89_16 Composted materials
2. Trees: Pr_45_30_90_74 Root-balled trees
3. Tree pit
 - 3.1. Drainage
 - 3.1.1. Geotextile membrane below drainage layer: Non-woven permeable geotextile, to match civil engineer's specification.
 - 3.1.2. Drainage layer: Pr_20_31_04_13 Coarse general aggregates
 - 3.1.3. Collector drains: To engineer's specification.
 - 3.1.4. Geotextile membrane above drainage layer: Non-woven permeable geotextile, to match civil engineer's specification.
 - 3.2. Root barriers: Root Protection barriers where required to protect services/ hard standing. Pr_25_57_65_60 Plastics sheets
 - 3.3. Underground supports: Pr_45_63_64_72 Root ball securing frames
 - 3.4. Irrigation and aeration accessories: Pr_70_55_42_90 Tree irrigation rings
 - 3.5. Tree pit backfill material: Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material; Pr_45_31_89_41 Imported topsoil
4. Above ground supports
 - 4.1. Type: Pr_45_63_64_84 Stakes
 - 4.2. Fixings: Pr_45_63_64_83 Stake ties
5. Tree pit surfacing
 - 5.1. Loose fill tree pit surfacing: Pr_45_31_63_56 Natural bark
6. Execution: Ss_45_35_05/603 Times of year for amenity planting; Ss_45_35_05/605 Climatic conditions for amenity planting; Ss_45_35_05/610 Water restrictions; Ss_45_35_05/611 Disposal of arisings; Ss_45_35_05/612 Cultivation of topsoil; Ss_45_35_05/613 Preparation of undisturbed topsoil; Ss_45_35_05/646 Application rates for ameliorants and fertilizer to backfill; Ss_45_35_05/600 Delivery of soil ameliorants; Ss_45_35_05/607 Notice for tree and shrub planting operations; Ss_45_35_05/621 Applying soil ameliorant to topsoil; Ss_45_35_05/642 Planting amenity trees in pits; Ss_45_35_05/651 Installing tree pit irrigation, drainage and ventilation pipes; Ss_45_35_05/692 Applying loose mulch around trees; Ss_45_35_05/713 Placing tree root barriers in pits; Ss_45_35_05/703 Double staking; Ss_45_35_05/713 Placing tree root barriers in pits Type A
7. 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_05/806 Watering new planting; Ss_45_35_05/807 Final mulching of planting beds and trees; Ss_45_35_05/809 Plants that have failed to thrive; Ss_45_35_05/810 Instructions for maintenance

Products

Pr_20_31_04_13 Coarse general aggregates

1. Description: Clean gravel layer to tree pit details
2. Supplied by: Contractor's choice



3. Material: Clean gravel or broken stone
4. Particle shape: Angular.
5. Aggregate size: Graded, 20/40. with no fines.
6. Washing: Required.

Pr_25_57_65_60 Plastics sheets

1. Description: Tree root barrier to prevent tree roots from encroaching under hard landscape or around service runs.
2. Manufacturer: [GreenBlue Urban Ltd](#)
3. Contact details
 - 3.1. Address: Northpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1580 830800](tel:+44(0)1580830800)
 - 3.3. Web: www.greenblue.com
 - 3.4. Email: hello@greenblueurban.com
4. Product reference: [ReRoot Flat \(RER1000A\)](#)
5. Roll depth: 1000 mm.
6. Profile: Ribbed.
7. Execution: Pr_25_57_65/630 Installing geotextile sheet

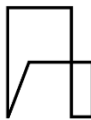
Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers

Shared by: Pr_45_30_80_20 Container-grown shrubs and Pr_45_30_80_08 Bare-root 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.

Pr_45_30_90_74 Root-balled trees

1. Description: Trees in soft landscape.
2. General requirements: Pr_45_30_90/305 Nursery stock generally – trees, shrubs and woody climbers



3. Supplied by: Contractor's choice
4. Standards: Trees and shrubs to [BS 3936-1](#). In accordance with the [National Plant Specification](#).
5. Botanical name: Refer to planting schedule for details.
6. Form: Heavy standard and multi-stem.
7. Age and condition: Refer to planting schedule for details.
8. Girth: Refer to planting schedule for details.
9. Height: Refer to planting schedule for details.
10. Clear stem height (minimum): Refer to planting schedule for details.
11. 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.
12. Number of breaks or stems (minimum): Refer to planting schedule for details.
13. Origin and provenance: British grown.
14. Shape: Natural.
15. Execution: Pr_45_30_90/614 Plant handling, storage and transport

See Pr_45_31_37_76 Selective herbicides in Ac_85_30_02/190 Amenity planting maintenance

See Pr_45_31_63_56 Natural bark in Ac_85_30_02/190 Amenity planting maintenance

See Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally in Ac_85_30_01/190 Amenity grass maintenance

See Pr_45_31_89_16 Composted materials in Ss_45_35_05_64 Pit-planted perennial systems

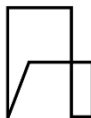
See Pr_45_31_89_41 Imported topsoil in Ac_85_30_01/190 Amenity grass maintenance

Pr_45_63_64_72 Root ball securing frames

1. Description: For trees in front of the dining terrace only
2. Manufacturer: [GreenBlue Urban Ltd](#)
3. Contact details
 - 3.1. Address: Northpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1580 830800](tel:+44(0)1580830800)
 - 3.3. Web: www.greenblue.com
 - 3.4. Email: hello@greenblueurban.com
4. Product reference: [ArborGuy - drive-in \(SASMAB\)](#)
5. Tensioning devices: Galvanized steel cables and ratchet tensioner.
6. Anchors
 - 6.1. Type: Drive-in ground anchors.
7. Components: 4 x 1000 mm galvanized steel wire and 35 mm x 6 m webbing strap.
8. Anchor: Aluminium.
9. Execution: Pr_45_63_64/675 Installing underground guying

Pr_45_63_64_83 Stake ties

1. Description: For all trees except ones in front of the dining terrace



2. Manufacturer: Contractor's choice
3. Tie type: Adjustable. Cushioned. Rubber belt.
4. Material: Rubber.

Pr_45_63_64_84 Stakes

1. Description: For all trees except ones in front of the dining terrace
2. Manufacturer: Contractor's choice
3. Material: Softwood, peeled chestnut, larch or oak.
4. Quality: Straight. Free from projections and large or edge knots.
5. Cross-section size (minimum): 100 mm diameter.
6. Length: 1800 mm.
7. End profiles: Pointed at one end, cut square at other.
8. Accessories: Matching timber cross bars, 38 x 100 x 1000 mm.

Pr_70_55_42_90 Tree irrigation rings

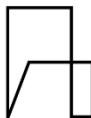
1. Manufacturer: [GreenBlue Urban Ltd](#) or equal and approved
2. Contact details
 - 2.1. Address: Northpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 2.2. Telephone: [+44 \(0\)1580 830800](tel:+441580830800)
 - 2.3. Web: www.greenblue.com
 - 2.4. Email: hello@greenblueurban.com
3. Product reference: [RootRain Arborvent \(RootRain Urban RRURB1A\)](#) or equal and approved
4. Pipe
 - 4.1. Material: Polypropylene.
 - 4.2. Colour: Black.
 - 4.3. Circumference: 3 m.
 - 4.4. Diameter: 60 mm.
5. Water inlet
 - 5.1. Number: One.
 - 5.2. Type: Grille inlet, PE-HD moulded grid top, 80 mm diameter.

See Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material in Ss_45_35_05_64 Pit-planted perennial systems

Execution

Pr_25_57_65/630 Installing geotextile sheet

1. Preparation of subgrade: Before laying sheet, remove humps and sharp projections.
2. Jointing
 - 2.1. Joint type: Single welt with two rows of staggered, corrosion-resistant staples.
 - 2.2. Overlap (minimum): 300 mm.
3. Protection of geotextile sheet: Protect from exposure to light. Protect from contaminants.



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 and Pr_45_30_80_08 Bare-root 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.

See Pr_45_31_37/601 Application of selective herbicides in Ac_85_30_02/190 Amenity planting maintenance

Pr_45_63_64/675 Installing underground guying

1. Installation
 - 1.1. Deadman anchors: Ensure that anchors do not impede the rootball.
 - 1.2. Drive-in anchors: Drive anchors to the required depth in the bottom of the tree pit and firmly fix in position prior to loading.
 - 1.3. Guying: Ensure tree is positioned correctly and vertically prior to tightening guy line tensioners. Ensure no damage to the rootball.

Ss_45_35_05/600 Delivery of soil ameliorants

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

1. Submissions: Details of recent chemical and physical analysis before ordering. 5 kg sample before ordering.
2. Delivery to site: In original, sealed and fully labelled containers.

See Ss_45_35_05/603 Times of year for amenity planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/605 Climatic conditions for amenity planting in Ss_45_35_05_64 Pit-planted perennial systems

Ss_45_35_05/607 Notice for tree and shrub planting operations

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

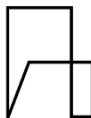
1. Give notice before: Applying fertilizer. Applying herbicide. Setting out. Delivery of plants. Planting trees into previously dug pits.
2. Period of notice: 1 week.

See Ss_45_35_05/610 Water restrictions in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/611 Disposal of arisings in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/612 Cultivation of topsoil in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/613 Preparation of undisturbed topsoil in Ss_45_35_05_64 Pit-planted perennial systems



Ss_45_35_05/621 Applying soil ameliorant to topsoil

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

1. Locations for application: Tree pits.
2. Fully incorporate into topsoil to a depth of: 300 mm.
3. Application
 - 3.1. Method: Spread evenly.
 - 3.2. Timing: Apply prior to cultivation.

Ss_45_35_05/642 Planting amenity trees in pits

1. Pit dimensions
 - 1.1. Plan size (minimum): 1000 mm diameter.
 - 1.2. Depth (minimum): 1000 mm.
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): 150 mm.
 - 4.4. Treatment: Work soil ameliorant into pit bottoms.
5. Pit sides
 - 5.1. Profile: Vertical.
 - 5.2. Treatment: Scarify.

See Ss_45_35_05/646 Application rates for ameliorants and fertilizer to backfill in
Ss_45_35_05_64 Pit-planted perennial systems

Ss_45_35_05/651 Installing tree pit irrigation, drainage and ventilation pipes

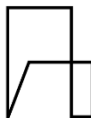
1. Siting: All tree pits.
2. Depth of excavation: Increase to allow for aggregate layer, with base slightly falling to outlet.
3. Aggregate layer depth: 200 mm.
4. Irrigation pipes: Lay in circle above and around sides of rootball.
5. Geotextile filter position: Above aggregate and below tree and backfill.
6. Completed pits: Test for free drainage before planting.

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 500 mm radius measured from tree stem.
3. Depth: 75 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 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: 800 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 but not rigidly to the cross bar without causing constriction or chafing. Prevent tree from touching the cross bar by using spacer blocks, cushions or additional ties if required. 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.

Ss_45_35_05/713 Placing tree root barriers in pits

1. Siting: Rootballs within 3.0 m of underground service route.
2. Top of root barrier level in relation to finished soil level (nominal): 10 mm above ground level.
3. Installation: Against sides of pit with sides vertical.

Ss_45_35_05/713 Placing tree root barriers in pits Type A

1. Siting: As per drawing SMS-HLM-XX-00-D-L-4501
2. Top of root barrier level in relation to finished soil level (nominal): Flush.
3. Installation: Against sides of pit with sides vertical.

System completion

See Ss_45_35_05/801 Operations immediately after planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/802 Establishment of new planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/803 Weeding new planting in Ss_45_35_05_64 Pit-planted perennial systems

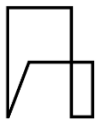
See Ss_45_35_05/806 Watering new planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/807 Final mulching of planting beds and trees in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/809 Plants that have failed to thrive in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/810 Instructions for maintenance in Ss_45_35_05_64 Pit-planted perennial systems

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. Description: For shrub planting.
2. Preparatory work to soil
 - 2.1. Herbicide: Pr_45_31_37_76 Selective herbicides
 - 2.2. Soil ameliorant: Pr_45_31_89_16 Composted materials
3. Trees and shrubs: Pr_45_30_80_08 Bare-root shrubs; Pr_45_30_80_20 Container-grown shrubs
4. Tree and shrub pit backfill material: Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material; Pr_45_31_89_41 Imported topsoil
5. Mulch: Pr_45_31_63_56 Natural bark
6. Execution: Ss_45_35_05/600 Delivery of soil ameliorants; 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_05/607 Notice for tree and shrub planting operations; Ss_45_35_05/609 Protection of existing grass during amenity planting; Ss_45_35_05/610 Water restrictions; Ss_45_35_05/611 Disposal of arisings; Ss_45_35_05/612 Cultivation of topsoil; Ss_45_35_05/613 Preparation of undisturbed topsoil; Ss_45_35_05/621 Applying soil ameliorant to topsoil; Ss_45_35_05/631 Random setting out of amenity planting; Ss_45_35_05/643 Planting amenity shrubs in pits; Ss_45_35_05/646 Application rates for ameliorants and fertilizer to backfill; Ss_45_35_05/691 Applying loose mulch to planting beds
7. 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_05/806 Watering new planting; Ss_45_35_05/807 Final mulching of planting beds and trees; Ss_45_35_05/809 Plants that have failed to thrive; Ss_45_35_05/810 Instructions for maintenance

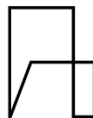
Products

Pr_45_30_80_08 Bare-root 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: In accordance with the [National Plant Specification](#).
4. Form: As per plant schedule
5. Age and condition: As per plant schedule
6. Height or spread: As per plant schedule
7. Root condition and protection: Bare root (bagged: co-extruded polythene – black inside, white outside), containing and enclosing the whole root system.
8. Habit: As per plant schedule
9. Number of breaks and branches (minimum): As per plant schedule
10. Origin and provenance: As per plant schedule
11. Execution: Pr_45_30_90/614 Plant handling, storage and transport

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: In accordance with the [National Plant Specification](#).
4. Botanical name: As per plant schedule
5. Form: As per plant schedule
6. Age and condition: As per plant schedule
7. Height or spread: As per plant schedule
8. 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.
9. Size of container: As per plant schedule
10. Habit: As per plant schedule
11. Number of breaks and branches (minimum): As per plant schedule
12. Shape: As per plant schedule
13. Origin and provenance: As per plant schedule
14. 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

See Pr_45_31_37_76 Selective herbicides in Ac_85_30_02/190 Amenity planting maintenance

See Pr_45_31_63_56 Natural bark in Ac_85_30_02/190 Amenity planting maintenance

See Pr_45_31_89/305 Topsoil, growing medium, subsoil and preparation materials generally in
Ac_85_30_01/190 Amenity grass maintenance

See Pr_45_31_89_16 Composted materials in Ss_45_35_05_64 Pit-planted perennial systems

See Pr_45_31_89_41 Imported topsoil in Ac_85_30_01/190 Amenity grass maintenance

See Ss_45_35_05/509 Site-prepared tree and shrub pit backfilling material in Ss_45_35_05_64
Pit-planted perennial systems

Execution

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

See Pr_45_31_37/601 Application of selective herbicides in Ac_85_30_02/190 Amenity planting maintenance

See Ss_45_35_05/600 Delivery of soil ameliorants in Ss_45_35_05_66 Pit-planted large tree systems

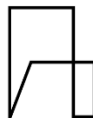
See Ss_45_35_05/601 Amenity planting generally in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/603 Times of year for amenity planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/605 Climatic conditions for amenity planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/607 Notice for tree and shrub planting operations in Ss_45_35_05_66 Pit-planted large tree systems

See Ss_45_35_05/609 Protection of existing grass during amenity planting in Ss_45_35_05_64 Pit-planted perennial systems



See Ss_45_35_05/610 Water restrictions in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/611 Disposal of arisings in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/612 Cultivation of topsoil in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/613 Preparation of undisturbed topsoil in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/621 Applying soil ameliorant to topsoil in Ss_45_35_05_66 Pit-planted large tree systems

See Ss_45_35_05/631 Random setting out of amenity planting in Ss_45_35_05_64 Pit-planted perennial systems

Ss_45_35_05/643 Planting amenity shrubs in pits

1. Dimensions

- 1.1. Plan size (minimum): 900 mm diameter.
- 1.2. Depth (minimum): 1000 mm.

2. Sloping ground: Maintain minimum depth throughout.

3. Pit bottoms

- 3.1. Generally: Do not disturb base.

4. Pit sides

- 4.1. Profile: Vertical.
- 4.2. Treatment: Scarify.

See Ss_45_35_05/646 Application rates for ameliorants and fertilizer to backfill in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/691 Applying loose mulch to planting beds in Ss_45_35_05_64 Pit-planted perennial systems

System completion

See Ss_45_35_05/801 Operations immediately after planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/802 Establishment of new planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/803 Weeding new planting in Ss_45_35_05_64 Pit-planted perennial systems

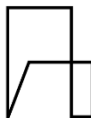
See Ss_45_35_05/806 Watering new planting in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/807 Final mulching of planting beds and trees in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/809 Plants that have failed to thrive in Ss_45_35_05_64 Pit-planted perennial systems

See Ss_45_35_05/810 Instructions for maintenance in Ss_45_35_05_64 Pit-planted perennial systems

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. Description: As per soft landscape plan drawings
2. **Topsoil preparation**
 - 2.1. Herbicide: Pr_45_31_37_76 Selective herbicides
3. Seed: Pr_45_30_76_97 Wildflower seeds; Pr_45_30_76_34 Grass seeds
4. Execution: Ss_45_35_45/601 Notice for seeding and turfing operations; 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_45/623 Finished levels of topsoil after settlement; 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

Products

See Pr_45_30_76_34 Grass seeds in Ac_85_30_01/190 Amenity grass maintenance

See Pr_45_30_76_97 Wildflower seeds in Ac_85_30_50/195 Meadow grass maintenance

See Pr_45_31_37_76 Selective herbicides in Ac_85_30_02/190 Amenity planting maintenance

Execution

See Pr_45_30_76/603 Protection of seeds in Ac_85_30_01/190 Amenity grass maintenance

See Pr_45_31_37/601 Application of selective herbicides in Ac_85_30_02/190 Amenity planting maintenance

Ss_45_35_45/601 Notice for seeding and turfing operations

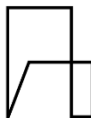
1. Give notice before: Applying herbicide. Setting out. Preparing seed bed. Seeding or turfing.
2. Period of notice: One week.

Ss_45_35_45/602 Water restrictions

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. Surplus topsoil: Spread evenly over seeding or turfing areas prior to seeding or turfing operations.
3. Biodegradable arisings: Remove to recycling facility.
4. Grass cuttings: As Maintenance schedule.
5. Tree roots and stumps: Remove from site.



6. Shrub and tree prunings: Remove to recycling facility.
7. Litter and non-biodegradable arisings: Remove from site.
8. Diseased plant material: Remove from site.
9. Stones removed during cultivation and topsoil preparation: Remove from site.
10. 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

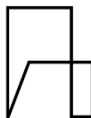
1. **Grading and cultivation**
 - 1.1. Standard: In accordance with [BS 4428](#).
 - 1.2. Category: A.
 - 1.3. Depth: 150 mm.
2. Timing: Following the preparation of undisturbed topsoil.
3. **Working conditions**
 - 3.1. Soil condition: Reasonably dry and workable.
 - 3.2. Weather conditions: Suitably 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: 75 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. Fallow period (minimum): One month.
6. **Weed control**
 - 6.1. Treatment: Application of herbicide.
 - 6.2. Timing of herbicide application before cultivation: Two weeks.

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.
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

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

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: 10 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.

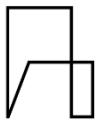
Ss_45_35_45/635 Wildflower seeding

1. Generally: Establish good seed contact with the seed bed.
2. Method: 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: 5 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

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 **rectification period**

Seeding and turf maintenance up to the end of the

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

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

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

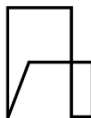
1. Finishing edges: Draw back adjacent topsoil and re-form edges to neat straight lines or smooth flowing curves, sloping slightly back from vertical. Keep clear of adjacent topsoil or mulch.
2. Turf edging: Keep moist at all times.

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: March/ April then every six to eight weeks until autumn.
4. Cuttings: Spread evenly over cut areas and remove from site after three days.

Ω End of System



Pr_45_30_76_39 **Hydroseeding mixes**

Products

Pr_45_30_76_39 Hydroseeding mixes

1. Description: For swale areas
2. Manufacturer: RMB Hydroseeding
 - 2.1. Web: [RMB Hydroseeding - Hydroseeding throughout the UK and Ireland](#)
3. Product reference: Tree & Shrub Hydroseeding
 - 3.1. Mixture reference: TBC
4. Origin of each species: as defined in Flora Locale's Code of practice for collections, growers and suppliers of native flora, UK origin
5. Application rate: TBC

Ω End of Product

