

June 2025 / UBS-RFM-XX-XX-SP-L-0002-P03

Sci-Tech Building, Upper Brook Street, Manchester

Landscape NBS Specification

For Stage Approval

Revisions

Date	Author	Description of revision	Revision	Approved
28.03.24	MSz	Issued for Stage 4	P01	DL
11.04.24	MSz	Project code changed to UBS	P02	DL
19.06.25	MSz	Clause Q25.350A omitted	P03	DL

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N91

External signage and interpretation

Summary

Revision history

Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	RIBA Stage 4	P01	Issued for Stage 4
10/04/2024	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P02	Project Code changed to UBS
19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

Signage outline - Not Used

System performance

205 Design of signage systems

1. **Description:** Feature entrance totems. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
2. **Design:** Complete detailed design and submit before commencing work.
3. **Proposals:** Submit drawings, schedules, technical information, calculations and manufacturer's literature before commencing work.

Products

305 Signage products generally

1. **Materials:** To BS 559.
2. **Colorimetric and photometric properties:** To BS ISO 3864-4.
3. **Fabricated letters:** To BS 559, clause 6.6.
4. **Fixings:** To BS 559, clause 6.11 and manufacturer recommendations

Materials - Not Used

Fabrication

505 Signage samples

1. **Sign type:** Totem signs
 - 1.1. **Action:** Submit labelled samples of mock-up signage for approval
 - 1.2. **Conformity:** Retain samples on site for the duration of the contract, or until instructed to remove them.
 - 1.3. **Delivered product:** To conform to labelled samples.

520 A Bespoke entrance totem sign Type 1

1. **Description:** To be installed along Upper Brook Street. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
2. **Manufacturer:** Submit proposals
3. **Material:** Carbon steel
 - 3.1. **Finish:** Polyester powder-coated
 - 3.2. **Background colour:** RAL TBC
4. **Layout and dimensions:** 1200(w) x 2800(h) x 100(d)mm - for details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
 - 4.1. **Content:** UBS campus map, 'Upper Brook Street Sci-Tech Building' and bespoke triquetra perforated metal panels
 - 4.2. **Lettering**
 - 4.2.1. **Manufacturing process:** Engraved
 - 4.2.2. **Font:** TBC
 - 4.2.3. **Size:** TBC
 - 4.3. **Bespoke artwork:** UBS campus map with location marker and 'YOU ARE HERE' Text
 - 4.3.1. **Manufacturing process:** Laser etched
 - 4.4. **Bespoke perforated panel:** Triquetra pattern

4.4.1. **Manufacturing process:** Cut-out

- 5. **Fixing accessories:** Concealed, vandal-proof fixings
- 6. **Additional requirements:** Internally illuminated

520 B Bespoke entrance totem sign Type 2

- 1. **Description:** To be installed along Upper Brook Street. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 2. **Manufacturer:** Submit proposals
- 3. **Material:** Carbon steel
 - 3.1. **Finish:** Polyester powder-coated
 - 3.2. **Background colour:** RAL TBC
- 4. **Layout and dimensions:** 600(w) x 1800(h) x 100(d)mm - for details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
 - 4.1. **Content:** 'Upper Brook Street Sci-Tech Building' and bespoke triquetra perforated metal panels
 - 4.2. **Lettering**
 - 4.2.1. **Manufacturing process:** Engraved
 - 4.2.2. **Font:** TBC
 - 4.2.3. **Size:** TBC
 - 4.3. **Bespoke perforated panel:** Triquetra pattern
 - 4.3.1. **Manufacturing process:** Cut-out
- 5. **Fixing accessories:** Concealed, vandal-proof fixings
- 6. **Additional requirements:** Internally illuminated

Execution/ erection/ installation

610 Fixing signs generally

- 1. **Generally:** Where not specified precisely, select methods of jointing and fixing, and types, sizes and spacings of fasteners in compliance with section Z20.
- 2. **Installation:** To BS 559.
 - 2.1. Secure, plumb and level.
- 3. **Strength of fasteners:** Sufficient to support all live and dead loads.
- 4. **Fasteners and/ or adhesives:** As section Z20.
- 5. **Fasteners for external signs:** Corrosion-resistant material or with a corrosion-resistant finish. Isolate dissimilar metals to avoid electrolytic corrosion.
- 6. **Fixings showing on surface of sign:** Must not detract from the message being displayed.
- 7. **Temporary support:** Do not subject members to non-design loadings.
- 8. **Protection of users**
 - 8.1. Fasteners for signs must not have sharp edges or protrusions that would cause injury to users.
 - 8.2. Fasteners for tactile/ Braille signs must not have protrusions that would cause confusion to users.

665 Making good galvanized surfaces

- 1. **Minor damage in areas of up to 40 mm² (including on fixings and fittings):** Make good.
 - 1.1. **Material:** Low-melting-point zinc alloy repair rods or powders made for this purpose, or at least two coats of zinc-rich paint to BS 4652.
 - 1.2. **Thickness:** Sufficient to provide a zinc coating at least equal to the original layer.

675 Electrical and data services

1. **Description:** to bespoke totems
2. **Services connection required:** Integrated lighting

Completion

905 Inspection of signs

1. **Standard for timber structures:** In accordance with BS EN 1995-1-1.
2. **Timing:** Give reasonable notice before covering up
3. **Period of notice (minimum):** Three working days.
4. **Maintenance inspection:** Check and tighten fixings six to eight weeks after completion of structure
5. **Access:** Provide access for inspection and maintenance of luminaires and other technologies.

920 Documentation

1. **Submit**
 - 1.1. Copies of structural design calculations/ test reports.
 - 1.2. General product information.
 - 1.3. Installation information.
 - 1.4. Inspection and maintenance reports.
 - 1.5. Manufacturer's maintenance instructions.
 - 1.6. Guarantees, warranties, test certificates, record schedules and logbooks.
2. **Number of copies:** 3
3. **Submission:** Two weeks prior to date when principal contractor expects work to be complete

Ω End of Section

Q10
Kerbs/ edgings/ channels/ paving accessories

Summary

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28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
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Types of kerbs/edgings and channels

112 A Precast concrete kerb type 1

1. **Description:** To service yard
2. **Standard:** To BS EN 1340.
3. **Designations:** HB2 Kerb, half battered
4. **Size (width x height x length):** 125 x 915 x 255mm
5. **Special shapes:** Internal and external radius kerbs as shown on drawings
6. **Finish:** As cast
7. **Colour:** Natural
8. **Joints generally:** Dry, 2-3 mm gap

112 B Precast concrete kerb type 2

1. **Description:** To service yard
2. **Standard:** To BS EN 1340.
3. **Designations:** BN Kerb, bullnosed
4. **Size (width x height x length):** 125 x 915 x 2150mm
5. **Special shapes:** Dropper kerbs DL1 and DR1 to footway crossings
6. **Finish:** As cast
7. **Colour:** Natural
8. **Joints generally:** Dry, 2-3 mm gap

112 C Precast concrete kerb type 3

1. **Description:** To adopted highways - details subject to S.278 works
2. **Standard:** To BS EN 1340.
3. **Size (width x height x length):** Details subject to S.278 works
4. **Special shapes:** Internal and external radius kerbs and dropper kerbs as shown on drawings
5. **Finish:** As cast
6. **Colour:** Details subject to S.278 works
7. **Joints generally:** Dry, 2-3 mm gap

200 A Bison steel edging

1. **Description:** to public realm
2. **Manufacturer:** Kinley
 - 2.1. **Address:** Kinley Innovation Centre, Paddock, Marley Lane Business Park, Battle, East Sussex, TN33 0RE
 - 2.2. **Telephone:** +44 (0)1580 830688
 - 2.3. **Email:** sales@kinley.co.uk
3. **Product reference:** Bison Kerb
4. **Size:** 100mm
5. **Type/ Material:** Galvanised steel
 - 5.1. **Finish:** Galvanised
 - 5.2. **Colour:** Standard
6. **Accessories:** 250mm spiral fixing stakes

7. **Bedding:** 15mm of dry mix 3:1 sharp sand / cement

Roads/paving accessories/ marking/ demarcation

395 Road marking (thermoplastic)

1. **Description:** Line marking to service yard to delineate fire exit route. For details refer to dwg no. UBS-RFM-XX-00-DR-0101
2. **Manufacturer:** Submit proposals
3. **Colour:** Yellow
4. **Retroreflectivity to BS EN 1436:** Not required (Class R0)

415 A Delineation paving studs

1. **Description:** Anti-slip paving brass studs to delineate private and adopted areas
2. **Manufacturer:** Studmarc
 - 2.1. **Contact details**
 - 2.1.1. **Address:** Trefeglwys Road
Caersws
Powys
United Kingdom
SY17 5HH
 - 2.1.2. **Telephone:** +44(0)1686 807 450
 - 2.1.3. **Web:** <https://www.studmarc.com>
 - 2.1.4. **Email:** sales@studmarc.com
 - 2.2. **Product reference:** Flush Fit Demarcation Visibility Stud (Brass Flush Fit Visibility Stud (201-101))
3. **Material:** Brass.
4. **Profile:** Flush fit.
5. **Size:** 25 mm diameter.
6. **Fixing::** Machined pin.
7. **Finish::** Burnt.
8. **Design::** laser etching/engraving.
9. **Spacing:** To be spaced evenly at max. 500mm centres

Laying

510 Laying kerbs, edgings and channels

1. **Cutting:** Neat, accurate and without spalling. Form neat junctions.
 - 1.1. **Long units (450 mm and over) minimum length after cutting:** 300 mm.
 - 1.2. **Short units minimum length after cutting:** The lower of one third of their original length or 50 mm.
2. **Bedding of units:** Positioned true to line and levelled along top and front faces, in a mortar bed on accurately cast foundations or on a race of fresh concrete.
3. **Securing of units:** After bedding has set, secured with a continuous haunching of concrete or on a race of fresh concrete with backing concrete cast monolithically.

520 Adverse weather

1. **Conditions:** Do not construct if the temperature is below 3°C on a falling thermometer or 1°C on a rising thermometer. Adequately protect foundations, bedding and haunching against frost and rapid drying by sun and wind.

530 Concrete for foundations, races and haunching

1. **Standard:** To BS 8500-2.
2. **Designated mix:** to civil engineer's specification
3. **Workability:** Very low.

600 Radius kerbs/ channels

1. **Usage:** Radii of 15 m or less.

610 Angle kerbs

1. **Usage:** Internal and external 90° changes of direction.
2. **Cutting of mitres:** use if mitred joints to be approved by landscape architect

620 Accuracy

1. **Deviations (maximum)**
 - 1.1. **Level:** ± 6 mm.
 - 1.2. **Horizontal and vertical alignment:** 3 mm in 3 m.

625 Regularity of paved surfaces

1. **Maximum undulation of (non-tactile) paving surface:** 3 mm.
 - 1.1. **Method of measurement:** Under a 1 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface).
2. **Difference in level between adjacent units (maximum)**
 - 2.1. **Joints flush with the surface:** Twice the joint width (with 5 mm max difference in level).
 - 2.2. **Recessed, filled joints:** 2 mm.
 - 2.2.1. **Recess depth (maximum):** 5 mm.
 - 2.3. **Unfilled joints:** 2 mm.
3. **Sudden irregularities:** Not permitted.

Ω End of Section

Q23

Gravel/ hoggin/ woodchip/ resin bound roads/ pavings/ overlays

Summary

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19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

Types of surfacing

110 A Self-binding gravel

1. **Description:** To secondary routes and informal play areas. For locations refer to dwg. no. UBS-RFM-XX-00-DR-L-0101
2. **Manufacturer:** Breedon or equal approved
 - 2.1. **Address:** Pinnacle House
Breedon Quarry
Breedon on the Hill
Derby DE73 8AP
 - 2.2. **Telephone:** 01332 694000
 - 2.3. **Email:** specialaggs@breedongroup.com
3. **Surface course:** Self-binding gravel
 - 3.1. **Colour:** Breedon Wayfarer
 - 3.2. **Size:** Graded 6mm-fines
4. **Completion:** Compact to produce a firm, regular surface, stable in use.

190 Bonded chippings for pedestrian areas

1. **Description:** to secondary footpaths and seating areas. For locations refer to dwg. no. UBS-RFM-XX-00-DR-L-0101
2. **Surface course**
 - 2.1. **Manufacturer:** Addagrip
 - 2.1.1. **Address:** Addagrip House
Bell Lane Industrial Estate
Uckfield
East Sussex
TN22 1QL
 - 2.1.2. **Telephone:** +44 (0)1825 761333
 - 2.1.3. **Email:** sales@addagrip.co.uk
 - 2.2. **Product:** Addaset Resin Bound Gravel
 - 2.3. **Binder:** Clear addabound resin
 - 2.4. **Chippings:** To BS EN 13043, nominal size 6 mm.
 - 2.4.1. **Colour:** Scandinavian Pearl
 - 2.5. **Application:** Uniformly spray binder at a rate of 2 L/m². Cover with clean chippings. Provide 100-105% shoulder to shoulder coverage to BS 598-1 and compact.
3. **Compaction to all layers:** By heavy roller or other appropriate means, adequate to resist subsidence or deformation of the completed roads/ pavings when in use. Do not crush chippings.
4. **Completion:** Before trafficking, remove excess chippings.

230 Woodchip surfaces

1. **Description:** to informal play areas. For locations refer to dwg. no. UBS-RFM-XX-00-DR-L-0101
2. **Surface course**
 - 2.1. **Manufacturer:** Submit proposals
 - 2.1.1. **Product reference:** Play Grade Bark
 - 2.2. **Type:** Hardwood free from pests, disease, weeds, and any additives.
 - 2.3. **Particle size:** Evenly graded, 5-30 mm

- 2.4. **Dust and fine content (maximum):** 5%
- 2.5. **Wood content (minimum):** 95%
- 2.6. **Thickness after at least 10% settlement and 30 days:** 100 mm

270 Hard landscaping materials specification

- 1. **Minimum 'BRE Green Guide to Specification' online rating:** Refer to BREEAM report

Laying

310 Timber edging

- 1. **Description:** To separate informal play areas with planting as required
- 2. **Softwood board**
 - 2.1. **Size:** 150 x 38 mm.
 - 2.2. **Fixing:** Galvanized nails into softwood pegs.
- 3. **Softwood pegs**
 - 3.1. **Size:** 50 x 50 x 450 mm long
 - 3.2. **Fixing:** Drive into ground.
 - 3.3. **Centres:** 1200 mm
- 4. **Preservative treatment:** Not required

315 Materials

- 1. **Compatibility:** Chippings suitable for use with respective binders/ emulsions/ resin/ epoxy.

320 Samples

- 1. **Submit:** Representative samples of all aggregates.

340 Laying generally

- 1. **Channels, gullies, etc:** Keep clear.
- 2. **Finished surfaces**
 - 2.1. **Lines and levels:** To prevent ponding.
 - 2.2. **Overall texture:** Even.
 - 2.3. **State at completion:** Clean.

350 Cold weather working

- 1. **Frozen materials:** Do not use.
- 2. **Freezing conditions:** Do not lay pavings.
- 3. **Cold bituminous surface dressings:** Do not apply when ambient temperature is below 10°C.
- 4. **Other dressings or overlays:** As manufacturers' recommendations.

380 Laying granular surfaces in pedestrian areas and cycle tracks

- 1. **Permissible deviation from required levels, falls and cambers (maximum):** ±12 mm.
- 2. **General:** Spread and level in 100 mm maximum layers. As soon as possible, compact each layer.
- 3. **Dry weather:** Lightly water layers during compaction.

390 Protection from traffic and plant

- 1. **Paved areas:** Restrict access to prevent damage.

Completion - Not Used

Ω End of Section

Q25

Slab/ brick/ sett/ cobble pavings

REVISED

Summary

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19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

General

100 General Notes

1. For all bedding, subbase and base information, refer to engineer's drawing.
2. On delivery of all paving the contractor is responsible for inspecting each load of materials to ensure it meets the specification. This must be done prior to laying any of that load of material and sufficient time should be allowed to carry out this task. If the material is found not to meet the specification, the project manager and landscape architect must be notified immediately.
3. Control sample areas to be completed for all types of paving and mixes including jointing. Minimum size 2.0m x 2.0m and to include appropriate features such as kerbs, tree grilles, drainage channels and edgings as necessary. Approval of appearance and surface to be obtained before proceeding. (Tailor this to suit specific paving types and details).
4. For pavers the minimum permitted cut sizes to be no smaller than 1/3 (one third) of the original unit length or width or 50mm, whichever is greater.

190 Hard landscaping materials specification

1. **Minimum BRE 'Green Guide to Specification' (online) rating:** Refer to BREEAM report

System performance - Not Used

Products

320 A Tactile flags and slabs

1. **Description:** to pedestrian crossings on Kincardine Road
2. **Standard:** To DD CEN/TS 15209.
3. **Material:** Details subject to S.278 works
 - 3.1. **Manufacturer:** Details subject to S.278 works
 - 3.1.1. **Product reference:** Blister Tactile Paving Slabs
4. **Recycled content:** to meet current BREEAM and Carbon Net Zero targets
5. **Nominal sizes:** 400 x 400 x 80 mm
6. **Colour:** Details subject to S.278 works
7. **Type of surface:** Blister – type B1

335 A Concrete setts type 1 REVISED

1. **Description:** to primary public realm areas. For locations refer to dwg no. UBS-RFM-XX-00-DR-L-0101
2. **Manufacturer:** Hardscape
 - 2.1. **Address:** Eagle House, Deakins Business Park, Egerton, Bolton BL7 9RP
 - 2.2. **Telephone:** 01204 565 500
 - 2.3. **Email:** enq@hardscape.co.uk
3. **Product reference:** Kellen Cero
4. **Colour:** Magma
5. **Finish:** Breccia
6. **Sizes:** Size 1: 300 x 100 x 80mm
Size 2: 300 x 150 x 80mm
Size 3 300 x 200 x 80mm
7. **Bonding:** staggered stack bond, for details refer to dwg no. UBS-RFM-XX-XX-DR-L-8001

335 B Concrete setts type 2 REVISED

1. **Description:** to primary public realm areas. For locations refer to dwg no. UBS-RFM-XX-00-DR-L-0101
2. **Manufacturer:** Hardscape
 - 2.1. **Address:** Eagley House, Deakins Business Park, Egerton, Bolton BL7 9RP
 - 2.2. **Telephone:** 01204 565 500
 - 2.3. **Email:** enq@hardscape.co.uk
3. **Product reference:** Kellen Cero
4. **Colour:** Tagenta B
5. **Finish:** Breccia
6. **Sizes:** 200 x 50 x 80mm
7. **Bonding:** Stack bond, for details refer to dwg no. UBS-RFM-XX-XX-DR-L-8001

335 C Concrete setts type 3

1. **Description:** To areas adopted highways and along Cottenham Street elevation. For locations refer to dwg no. UBS-RFM-XX-00-DR-L-0101
2. **Manufacturer:** Hardscape
 - 2.1. **Address:** Eagley House, Deakins Business Park, Egerton, Bolton BL7 9RP
 - 2.2. **Telephone:** 01204 565 500
 - 2.3. **Email:** enq@hardscape.co.uk
3. **Product reference:** Kellen Cero
4. **Colour:** Magma (Subject to s.278 works)
5. **Finish:** Breccia
6. **Sizes:** TBC - subject to s.278 works
7. **Bonding:** TBC - subject to s.278 works

335 D Concrete setts type 4

1. **Description:** To laybys along Kicardine Road. For locations refer to dwg no. UBS-RFM-XX-00-DR-L-0101
2. **Manufacturer:** Hardscape
 - 2.1. **Address:** Eagley House, Deakins Business Park, Egerton, Bolton BL7 9RP
 - 2.2. **Telephone:** 01204 565 500
 - 2.3. **Email:** enq@hardscape.co.uk
3. **Product reference:** Kellen Cero
4. **Colour:** Tagenta B (Subject to s.278 works)
5. **Finish:** Breccia
6. **Sizes:** TBC - subject to s.278 works
7. **Bonding:** TBC - subject to s.278 works

350 B Plastics pavers for reinforced grass system

1. **Description:** For Details refer to dwg no. UBS-RFM-XX-XX-DR-L-8002
2. **Paving units**
 - 2.1. **Manufacturer:** Terram
 - 2.1.1. **Contact details**

- 2.1.1.1. **Address:** Blackwater Trading Estate,
The Causeway, Maldon, Essex,
CM9 4GG, United Kingdom
- 2.1.1.2. **Telephone:** +44 (0) 1621 874200
- 2.1.1.3. **Email:** info@terram.com
- 2.1.2. **Product reference:** Bodpave 85
- 2.2. **Physical properties**
 - 2.2.1. **Material:** Recycled plastics.
 - 2.2.2. **Colour:** Green
- 2.3. **Recycled content (minimum):** 100%.
- 2.4. **Infill:** Soil and turf as section Q30

Execution

615 Control samples

1. **Sample areas:** Complete as part of the finished work.
 - 1.1. **Types of paving:** Concrete sett paving
 - 1.2. **Location:** on site
 - 1.3. **Size (minimum):** 2 x 2m
 - 1.4. **Included features:** Metal edging, interface with building facade, external features and interface with other soft and hard surfaces
2. **Approval of appearance and surface:** Obtain before proceeding.

620 Adverse weather

1. **General**
 - 1.1. **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.
 - 1.2. **Frozen materials:** Do not use. Do not lay bedding on frozen or frost covered bases.
2. **Paving with mortar joints and/ or bedding**
 - 2.1. Protect from frost damage, rapid drying out and saturation until mortar has hardened.
3. **Paving laid and jointed in sand/ fine aggregate**
 - 3.1. **Stockpiled laying course sand/ fine aggregate:** Protect from saturation.
 - 3.2. **Exposed areas of unbound laying course and uncompacted areas of unbound paving:** Protect from heavy rainfall.
 - 3.3. **Saturated unbound laying course:** Remove and replace, or allow to dry before proceeding.
 - 3.4. **Laying dry sand/ fine aggregate jointed paving in damp conditions:** Brush in as much jointing sand as possible. Minimize site traffic over paving. As soon as paving is dry, top up joints and complete compaction.

625 Laying pavings – general

1. **Appearance:** Smooth and even with regular joints and accurate to line, level and profile.
2. **Falls:** To prevent ponding.
3. **Bedding of paving units:** Firm so that rocking or subsidence does not occur or develop.
 - 3.1. **Bedding/ Laying course:** Consistently and accurately graded, spread and compacted to produce uniform thickness and support for paving units.
4. **Slopes:** Lay paving units upwards from the bottom of slopes.

5. **Paving units:** Free of mortar and sand stains.
6. **Cutting:** Cut units cleanly and accurately, without spalling, to give neat junctions with edgings and adjoining finishes.

630 Levels of paving

1. **Permissible deviation from specified levels**
 - 1.1. **Generally:** ± 6 mm.
2. **Height of finished paving above features**
 - 2.1. **At gullies:** +6 to +10 mm.
 - 2.2. **At drainage channels and kerbs:** +3 to +6 mm.

635 Regularity of paved surfaces

1. **Maximum variation in gap under a 3 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface)**
 - 1.1. **Precast concrete paving blocks and clay pavers for flexible pavements:** 10 mm.
 - 1.2. **Precast concrete flags or natural stone slabs:** 3 mm.
2. **Difference in level between adjacent paving units (maximum):** 2 mm.
3. **Sudden irregularities:** Not permitted.

640 Colour banding

1. **General:** Unless premixed by manufacturer, select from at least 3-5 separate packs in rotation to avoid colour banding.

645 Protection

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. **Mortar bedded pavings:** Keep free from traffic after laying:
 - 4.1. **Pedestrian traffic (minimum):** 7 days
 - 4.2. **Vehicular traffic (minimum):** 14 days
5. **Access:** Restrict access to paved areas to prevent damage from site traffic and plant.

Completion - Not Used

Deleted clauses

~~350 A Geocell sheets for paving within RPA~~ **DELETED**

Ω End of Section

Q28

Topsoil and soil ameliorants

Summary

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Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	RIBA Stage 4	P01	Issued for Stage 4
10/04/2024	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P02	Project Code changed to UBS
19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

System outline

115 Topsoil system for turfing and seeding

1. **Description:** to all grassed areas
2. **Composition**
 - 2.1. **Topsoil:** 150mm of Imported topsoil to BS 3882
 - 2.2. **Subsoil:** 300mm of Imported subsoil to BS 8601
 - 2.3. **Accessories:** Plastic reinforcement grids to areas required for maintenance access as per section xxxx

135 Planting bed topsoil system

1. **Description:** to all planted areas
2. **Composition**
 - 2.1. **Topsoil:** 300mm of Imported topsoil to BS 3882
 - 2.2. **Subsoil:** 300mm of Imported subsoil to BS 8601
 - 2.3. **Drainge layer:** min. 150mm of clean angular gravel wrapped in a permeable geotextile
 - 2.4. **Ameliorants:** None
 - 2.5. **Accessories:** None

145 Tree pit topsoil system

1. **Description:** to all tree pits
2. **Composition**
 - 2.1. **Topsoil:** 300mm of Imported topsoil to BS 3882
 - 2.2. **Subsoil:** 600mm of Imported subsoil to BS 8601
 - 2.3. **Backfill:** Sharp washed sand as indicated on dwg no. UBS-RFM-XX-XX-DR-L-8002
 - 2.4. **Drainge layer:** min. 150mm of clean angular gravel wrapped in a permeable geotextile
 - 2.5. **Ameliorants:** None
 - 2.6. **Accessories:** Mycorrhizal inoculant

155 Mulching system

1. **Description:** to all planted areas and tree pits
2. **Composition**
 - 2.1. **Material:** min. 50mm of composted fine bark mulch as per clause

Products

310 Materials not permitted

1. **Materials:** Peat and products containing peat

315 Imported topsoil to BS 3882

1. **Description:** to all soft areas
2. **Quantity:** Provide as necessary. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8002
3. **Standard:** To BS 3882.
4. **Classification:** Multipurpose
 - 4.1. **Soil textural class to BS 3882, Figure 1:** Sandy loam

5. **Source:** Submit proposals
- 5.1. **Product reference:** Submit proposals

316 Imported subsoil to BS 8601

1. **Description:** to all soft areas
2. **Quantity:** Provide as necessary. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8002
3. **Standard:** To BS 8601
4. **Classification:** Sandy Loam
5. **Source:** Submit proposals
- 5.1. **Product reference:** Submit proposals

330 A Imported manufactured growing medium

1. **Description:** Manufactured topsoil for reinforced grass paving system
2. **Manufacturer:** Green-Tech
- 2.1. **Contact details**
 - 2.1.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 2.1.2. **Telephone:** +44 (0)1423 332114
 - 2.1.3. **Web:** www.gtspecifier.co.uk
 - 2.1.4. **Email:** info@gtspecifier.co.uk
- 2.2. **Product reference:** Loksand Rootzone

345 A Drainage Layer

1. **Description:** Gravel for drainage layer
2. **Source:** Submit proposals
- 2.1. **Product reference:** 20mm clean angular crushed stone
3. **Accessories:** Permeable geotextile membrane and perforated drainage pipe

345 B Coarse washed sand

1. **Description:** Sharp washed sand to tree pits
2. **Source:** Submit proposals
- 2.1. **Product reference:** Coarse grained, washed river sand with neutral pH

360 Sanitized and stabilized composted materials certified to PAS 100

1. **Description:** Composted fine bark for mulching
2. **Standard:** In accordance with PAS 100 and Compost Quality Protocol
3. **Source:** Submit proposals
- 3.1. **Product reference:** Composted fine bark
4. **Texture:** Friable.
5. **Objectionable odour:** Not permitted.
6. **Compost Certification Scheme certification:** Required

7. **Samples:** Supply 5 kg sample before ordering

380 Mycorrhizal inoculant

1. **Description:** to all tree pits
2. **Manufacturer:** Submit proposals
 - 2.1. **Product reference:** Submit proposals

Execution

610 Topsoil analysis

1. **Description:** Prior to any soil being tipped on site, the results of soil analysis for both topsoil and subsoil are to be sent to Landscape Architect for review. All analysis recommendations are to be actioned prior to any soil being spread on site.
2. **Soil to be analysed:** All topsoils and subsoils
3. **Soil analyst:** Tim O'Hare Associates or similar approved
4. **Samples:** Collect in accordance with BS 3882.
5. **Submit**
 - 5.1. **Declaration of analysis:** In accordance with BS 3882, clause 6 and Table 1.
 - 5.2. Report detailing soil analyst's recommendations.

620 Importing topsoil

1. **Give notice:** Before stripping topsoil for transfer to site.
 - 1.1. **Notice period:** 14 days

630 Documentation for imported topsoil

1. **Description:** to all soft areas
2. **Timing:** Submit at handover.
3. **Contents**
 - 3.1. Full description of all soil components.
 - 3.2. Record of source for all soil components.
 - 3.3. Record drawings showing the location and depth of all soils by type and grade.
 - 3.4. **Declaration of analysis:** in accordance with BS 3882, clause 6 and Table 1.
4. **Number of copies:** Two

635 Documentation for compost and composted materials

1. **Description:** for mulching
2. **Timing:** Submit at handover.
3. **Contents**
 - 3.1. Full description of all compost components.
 - 3.2. Record of source for all compost components.
 - 3.3. Analyst's report for each test carried out.
 - 3.4. **Declaration of compliance:** in accordance with PAS 100 and BSI PD CR 13456.
 - 3.5. **Quality Compost Protocol certification:** Required
4. **Number of copies:** Two

650 Notice

1. **Give notice before**
 - 1.1. Setting out.
 - 1.2. Spreading topsoil.
 - 1.3. Applying herbicide.
 - 1.4. Applying fertilizer.
 - 1.5. Visiting site during maintenance period.
2. **Period of notice:** 2 weeks

655 Mechanical tools

1. **Restrictions:** Do not use within 100 mm of tree and plant stems. Do not damage adjacent planting. For use within existing tree RPA refer to AMS

660 Grading subsoil for:

1. **Description:** all soft areas
2. **Standard:** In accordance with BS 8601.
3. **General:** Grade to smooth flowing contours to achieve specified finished levels of topsoil.
4. **Areas of thicker topsoil:** Excavate locally.
5. Avoid compaction.
6. **Excess subsoil:** Remove.

700 Grading of topsoil

1. **Topsoil condition:** Reasonably dry and workable.
2. **Contours:** Smooth and flowing, with falls for adequate drainage.
 - 2.1. **Hollows and ridges:** Not permitted.
3. **Give notice:** If required levels cannot be achieved by movement of existing soil.

705 Handling topsoil

1. **Standard:** In accordance with BS 3882.
2. **Aggressive weeds:** Give notice and obtain instructions before moving topsoil.
3. **Plant:** Select and use plant to minimize disturbance, trafficking and compaction.
4. **Contamination:** Do not mix topsoil with:
 - 4.1. Subsoil, stone, hardcore, rubbish or material from demolition work.
 - 4.2. Other grades of topsoil.
5. **Multiple handling:** Keep to a minimum. Use or stockpile topsoil immediately after stripping.
6. **Wet conditions:** Handle topsoil in the driest condition possible. Do not handle during or after heavy rainfall, or when the moisture content is greater than the plastic limit.

710 Spreading topsoil on:

1. **Standard:** In accordance with BS 3882.
2. **Temporary roads/ surfacing:** Remove before spreading topsoil.
3. **Layers**
 - 3.1. **Depth (maximum):** 150 mm.
 - 3.2. Gently firm each layer before spreading the next.

4. **Depth after firming and settlement:** 300 mm for general planted areas, 150mm for grassed areas
5. **Crumb structure:** Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

715 Loose tipping of topsoil

1. **Standard:** In accordance with BS 3882.
2. **General:** Do not firm, consolidate or compact topsoil when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.

720 Finished levels of topsoil after settlement

1. **In relation to adjoining paving, kerbs or hard surfaces:** 25 mm below
2. In relation to dpc of adjoining buildings: Not less than 150 mm below.
3. **In relation to adjacent grass areas:** 25 mm below
4. **Seeded areas:** Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
5. **Sportsfields:** To even levels and within the following permitted deviations:
 - 5.1. **From levels or gradients shown on drawings:** ± 75 mm.
 - 5.2. **From line between boning rods 30 m apart:** ± 25 mm.
6. **Within root spread of existing trees and shrubs to be retained:** Do not dig or cultivate.
7. **Adjoining soil areas:** Marry in.
8. **Thickness of turf or mulch:** Included.

830 Applying top dressing

1. **Description:** to grassed areas
2. **Rate:** 2 kg/m²
3. **Timing:** Apply prior to cultivation.

840 Applying mycorrhizal inoculant

1. **Description:** to tree pits
2. **Depth:** To manufacturer's/ supplier's recommendations

845 Applying loose mulch

1. **Description:** to all planted areas
2. **Timing:** Immediately after planting
3. **Preparation:** Clear all weeds and ensure that soil is thoroughly moistened, applying water where necessary
4. **Coverage of mulch (minimum)**
 - 4.1. **Planting beds (depth):** 50 mm depth
 - 4.2. **Trees:** 50 mm depth
5. **Finished level of mulch:** 25 mm below adjacent grassed or paved areas

Completion

920 Applying mulch

1. **Timing:** At end of the maintenance period
2. **Watering:** Ensure that soil is thoroughly moistened prior to mulching, applying water where necessary.
3. **Planting beds:** Re-mulch.

- 3.1. **Depth (minimum):** 50 mm
- 4. **Trees:** Remulch.
 - 4.1. **Depth (minimum):** 50 mm
- 5. **Container planting:** Remulch.
 - 5.1. **Depth (minimum):** 50 mm

Ω End of Section

Q30
Seeding/ turfing

Summary

Revision history

Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	RIBA Stage 4	P01	Issued for Stage 4
10/04/2024	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P02	Project Code changed to UBS
19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

General information/requirements

115 Seeded and turfed areas

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

120 Climatic conditions

1. **General:** Carry out the work while soil and weather conditions are suitable.

145 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 all seeding/turfing.

150 Water restrictions

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

160 Notice

1. **Give notice before**
 - 1.1. Setting out.
 - 1.2. Applying herbicide.
 - 1.3. Applying fertilizer.
 - 1.4. Preparing seed bed.
 - 1.5. Seeding or turfing.
 - 1.6. Visiting site during maintenance period.
2. **Period of notice:** 2 weeks

170 Setting out

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

Preparation - Not Used

Seeding - Not Used

Turfing

400 Cultivated turf

1. **Description:** Species rich lawn turf
2. **Supplier:** Wildflower Turf
 - 2.1. **Address:** Ashe Warren Farm Overton Basingstoke Hampshire RG25 3AW
 - 2.2. **Telephone:** 01256 771222
 - 2.3. **Email:** wildflower@wildflowerturf.co.uk
3. **Product reference:** WFT-Species-Rich-26

4. **Properties of soil used for turf production:** Well drained sandy loam

420 Delivery and storage

1. **Timing:** Lay turf with minimum possible delay after lifting. If delay occurs, lay turf out on topsoil and keep moist.
2. **Frosty weather or waterlogged ground:** Do not lift turf.
3. **Delivery:** Arrange to avoid need for excessive stacking.
4. **Stacking height (maximum):** 1 m.
5. **Dried out or deteriorated turf:** Do not use.
6. **Certification**
 - 6.1. **Standard:** To BS 3969.
 - 6.2. **Declaration:** Species mix, including percentage of specified species

423 Inspection of turf

1. **Description:** for all grassed areas
2. **Sampling method:** To BS 3969.
3. **Give notice:** Before lifting turf.
 - 3.1. **Period of notice:** 2 weeks

430 Turfing generally

1. **Time of year:** To be agreed
2. **Timing of laying**
 - 2.1. **Spring and summer:** Within 18 hours of delivery.
 - 2.2. **Autumn and winter:** Within 24 hours of delivery.
3. **Weather conditions:** Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry.
4. **Working access:** Planks laid on previously laid turf. Do not walk on prepared bed or newly laid turf.
5. **Jointing:** Laid with broken joints, well butted up. Do not stretch turf.
6. **Edges:** Whole turfs, trimmed to a true line.
7. **Adjusting levels:** Remove high spots and fill hollows with fine soil.
8. **Consolidating:** Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers.
9. **Dressing, brushed well in to completely fill all joints:** sharp sand
10. **Watering:** Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below.

450 Trimming turf

1. **Newly planted tree pits:** Neatly cut away around individual trees.
 - 1.1. **Diameter:** 1000 mm
 - 1.2. **Tree pit surface:** Respread existing mulch

Protecting/cutting

530 First cut of grassed areas

1. **Timing:** When grass is reasonably dry.
 - 1.1. **Height of initial growth:** 75 mm

2. **Preparation**
 - 2.1. **Debris and litter:** Remove.
 - 2.2. **Stones and earth clods larger than 25 mm in any dimension:** Remove
3. **Height of first cut:** 40 mm
4. **Mower type:** Contractor's choice
5. **Arisings:** Remove from site

580 Plastics paving systems

1. **Product:** As per section Q25.350A
2. **Preparation:** Mow grass as short as possible without scalping. Fill minor hollows with a mix of coarse sand and finely sifted topsoil as section Q28.
3. **Fixing/ Jointing:** Manufacturer's standard
4. **Topsoil dressing:** mix of sharp sand and finely sifted topsoil
 - 4.1. **Thickness:** 25 mm
5. **Additional mowing:** Continue mowing grass during the growing season

590 Cleanliness

1. **Soil and arisings:** Remove from hard surfaces.
2. **General:** Leave the works in a clean, tidy condition at Completion and after any maintenance operations.

Maintenance

610 Failures of seeding/ turfing

1. **Duration:** Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. **Defective materials or workmanship:** Areas that have failed to thrive.
 - 2.1. **Exclusions:** Theft or malicious damage.
3. **Method of making good:** Recultivation and reseeding/ returfing.
4. **Timing of making good:** The next suitable planting season

620 Maintaining

1. **Description:** All grassed areas
2. **Duration:** Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
3. **Maximum height of growth at any time:** 100 mm
4. **Preparation:** Before each cut remove all litter and debris.
5. **Cutting:** As and when necessary to a height of 35 mm.
 - 5.1. **Arisings:** Remove
6. **Bulb planting areas:** Do not cut until bulb foliage has died down.
7. **Trimming:** All edges.
 - 7.1. **Arisings:** Remove.
8. **Weed control:** Substantially free of broad leaved weeds.
 - 8.1. **Method:** Application of a suitable selective herbicide.
9. **Stones brought to the surface:** Remove regularly.
 - 9.1. **Size:** Exceeding 25 mm in any dimension.

10. **Areas of settlement:** Make good.
11. **Watering:** When instructed

Ω End of Section

Q31

External planting

REVISED

Summary

Revision history

Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
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10/04/2024	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P02	Project Code changed to UBS
19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

General information/ requirements

112 Site clearance generally

1. **General:** Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
2. **Stones:** Remove those with any dimension exceeding 50 mm.
3. **Contamination:** Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
4. **Vegetation:** Clear surface vegetation as required using suitable nonresidual herbicide
5. **Large roots:** Grub up and dispose of without undue disturbance of soil and adjacent areas.

118 Soil conditions

1. **Soil for cultivating and planting:** Moist, friable and (except in aquatic/ marginal planting) not waterlogged.
2. **Frozen or snow covered soil:** Give notice before planting. Provide additional root protection. Prevent planting pit sides and bases and backfill materials from freezing.

120 Climatic conditions

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

125 Times of year for planting

1. **Deciduous trees and shrubs:** Late October to late March.
2. **Conifers and evergreens:** September/ October or April/ May.
3. **Herbaceous plants (including marginal):** September/ October or March/ April.
4. **Container grown plants:** At any time if ground and weather conditions are favourable.
 - 4.1. **Watering and weed control:** Provide as necessary.
5. **Dried bulbs, corms and tubers:** September/ October.
6. **Colchicum (crocus):** July/ August.
7. **Green bulbs:** After flowering in spring.
8. **Wildflower plugs:** Late August to mid November or March/ April.
9. **Aquatic plants:** May/ June or September/ October.

130 Mechanical tools

1. **Restrictions:** Do not use within 100 mm of tree and plant stems and within existing tree RPAs

145 Watering

1. **Quantity:** Wet full depth of topsoil.
2. **Application:** Even and without damaging or displacing plants or soil.
3. **Frequency:** As necessary to ensure establishment and continued thriving of planting.

150 Water restrictions

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

160 Notice

1. **Give notice before**
 - 1.1. **Setting out.**

- 1.2. Applying herbicide.
- 1.3. Applying fertilizer.
- 1.4. Delivery of plants/ trees.
- 1.5. Planting shrubs.
- 1.6. Planting trees into previously dug pits.
- 1.7. Watering.
- 1.8. Visiting site during maintenance period.
2. **Period of notice:** One week

170 Soil requirements

1. Type
 - 1.1. **Planted beds:** Planting bed soil system, as section Q28
 - 1.2. **Tree pits, shrub pits and other backfilling:** Plant pit backfilling soil system, as section Q28
 - 1.3. **Mulch applied after planting:** Mulching system, as section Q28

200 Plants/ Trees – general

1. **Condition:** Materially undamaged, sturdy, healthy and vigorous.
2. **Appearance:** Of good shape and without elongated shoots.
3. **Hardiness:** Grown in a suitable environment and hardened off.
4. **Health:** Free from pests, diseases, discoloration, weeds and physiological disorders.
5. **Budded or grafted plants:** Bottom worked.
6. **Root system and condition:** Balanced with branch system.
 - 6.1. **Standard:** The National Plant Specification
7. **Species:** True to name.
8. **Origin/ Provenance:** Grown in the United Kingdom for at least one growing season, unless otherwise approved
9. **Definition:** Origin and Provenance have the meaning given in the National Plant Specification.

215 Plants/ Trees – specification criteria

1. **Name, forms, dimensions, provenance and other criteria:** As scheduled and defined in the National Plant Specification (available on CS Design Software Limited's website).
2. **Tree tagging:** Landscape architect to be given opportunity to attend nursery to tag tree stock prior to lifting and shipment to site.

235 Container grown plants/ Trees

1. **Growing medium:** With adequate nutrients for plants to thrive until permanently planted.
2. **Plants:** Centred in containers, firmed and well watered.
3. **Root growth:** Substantially filling containers, but not root bound, and in a condition conducive to successful transplanting.
4. **Hardiness:** Grown in the open for at least two months before being supplied.
5. **Containers:** With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.

246 Labelling and information

1. **Standard:** To BS 3936.

260 Plant/ Tree substitution

1. **Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering:** Submit alternatives, stating:
 - 1.1. Price.
 - 1.2. Difference from specified plants/ trees.
2. **Approval:** Obtain before making any substitution.

265 Plant handling, storage transport and planting

1. **Standard:** To CPSE 'Handling and establishing landscape plants'.
2. **Frost:** Protect plants from frost.
3. **Handling:** Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
4. **Plant packaging:** Coextruded polyethylene bags with black interior and white exterior
5. **Packaging of bulk quantities:** Pallets or bins sealed with polyethylene and shrink wrapped
6. **Planting:** Upright or well balanced with best side to front.

280 Treatment of tree wounds

1. **Cutting:** Keep wounds as small as possible.
 - 1.1. Cut cleanly back to sound wood using sharp, clean tools.
 - 1.2. Leave branch collars. Do not cut flush with stem or trunk.
 - 1.3. Set cuts so that water will not collect on cut area.
2. **Fungicide/ Sealant:** Do not apply unless instructed.

290 Surplus material

1. **Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings:** Remove.

Plant containers - Not Used

Preparation of planting beds/ planting materials

305 Weed control

1. **Locations:** all planted areas
2. General: Prevent weeds from seeding and perennial weeds from becoming established, by hand weeding. For more persistent weeds use of herbicide may be allowed.

Planting shrubs/ herbaceous plants/ bulbs

400 Random plant layout

1. **Description:** to all beds
2. **Spacing:** As indicated in Plant Schedule. For details refer dwg no. UBS-RFM-XX-00-DR-L-0105 & UBS-RFM-XX-00-DR-L-0107-0109
3. **Density:** As indicated in Plant Schedule. For details refer dwg no. UBS-RFM-XX-00-DR-L-0105 & UBS-RFM-XX-00-DR-L-0107-0109

405 Shrub planting pits

1. **Timing:** Excavate 1-2 days (maximum) before planting.

2. **Sizes:** Wide enough to accommodate roots when fully spread and 75 mm deeper than root system
3. Pit bottom improvement Break up to a depth of 150 mm.

470 Formal hedges

1. **Shrubs for hedges:** Consistent in species, cultivar and clone to ensure a uniform hedge.
2. **Planting:** In trenches large enough to take full spread of roots. Set out plants evenly.
3. **Accessories:** Temporary wire mesh fence as per clause 472

471 Naturalized hedges

1. **Planting:** In trenches large enough to take full spread of roots. Set out plants evenly.

472 Fencing support for new hedges

1. **Type:** Timber post and general pattern wire mesh as per section Q40
2. **Timing:** Before planting hedge.
3. **Support:** Lightly secure hedge plants to fence wires at appropriate intervals.

480 After planting

1. **Watering:** Immediately after planting, thoroughly and without damaging or displacing 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.
3. **Top dressing:** Mulching and top dressing system, as section Q28
 - 3.1. **Depth:** 50 mm

Planting trees

500 Tree planting

1. **Standard:** Prepare trees and transplant in accordance with BS 8545

505 Tree pits **REVISED**

1. **Sizes:** As drawing UBS-RFM-XX-00-DR-L-0802
2. **Sloping ground:** Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
3. **Excavated material:** Separate topsoil and subsoil material and stockpile for backfilling
4. Pit bottoms: Excavate with slightly raised centre: Break up base to a depth of 150 mm.
 - 4.1. **Treatment:** As drawing UBS-RFM-XX-00-DR-L-0802
5. **Pit sides:** Scarify.
6. **Backfilling material:** as section Q28

510 Tree pit root barriers

1. **Locations:** to all trees planted within 3m from existing and proposed utilities
2. **Manufacturer:** Green-Tech
 - 2.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 2.2. **Telephone:** info@gtspecifier.co.uk

- 2.3. **Email:** info@gtspecifier.co.uk
- 3. **Product reference:** Permeable Root Barrier 260
- 4. **Thickness:** 0.65mm
- 5. **Barrier depth:** 2.25m
- 6. **Foil liner:** Not required
- 7. **Top of root barrier in relation to finished topsoil level:** Flush
- 8. **Installation:** With sides vertical. Remove all sharp objects adjacent to barrier.

512 A Underground tree Irrigation and aeration system

- 1. **Locations:** to all tree pits as indicated on dwg no. UBS-RFM-XX-00-DR-L-0802
- 2. **Manufacturer:** Green-Tech
 - 2.1. **Contact details**
 - 2.1.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 2.1.2. **Telephone:** +44 (0)1423 332114
 - 2.1.3. **Web:** www.gtspecifier.co.uk
 - 2.1.4. **Email:** info@gtspecifier.co.uk
 - 2.2. **Product reference:** Mona Relief Irrigation System (Mona Relief Grande - MRG3)
- 3. **Pipe**
 - 3.1. **Material:** High density polyethylene (HDPE).
 - 3.2. **Colour:** Black.
- 4. **Type:** Trees with rootballs up to 1000 mm diameter.
- 5. **Dimensions:** 2500 x 35 mm.
- 6. **Material:** Plastic.

520 Cellular structural soil system

- 1. **Locations:** As indicated in dwg no. UBS-RFM-XX-00-DR-L-0105 & UBS-RFM-XX-00-DR-L-0802
- 2. **Manufacturer:** DeepRoot Urban Solutions, Ltd.
 - 2.1. **Address:** Suite 51 101 Clapham High Street London SW4 7TB
 - 2.2. **Telephone:** (+44) 020 3848 4230
 - 2.3. **Email:** steve@deeproot.com
- 3. **Product Reference:** Silvacell 3X
- 4. **Geotextile membrane:** to manufacturer installation guide
- 5. **Installation:** Ensure all void spaces are filled with lightly compacted growing medium prior to installation of further layers or sub-bases.

526 A Root ball guying system

- 1. **Description:** to all tree pits, as indicated on dwg no. UBS-RFM-XX-00-DR-L-0802
- 2. **Manufacturer:** Green-Tech
 - 2.1. **Contact details**

- 2.1.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
- 2.1.2. **Telephone:** +44 (0)1423 332114
- 2.1.3. **Web:** www.gtspecifier.co.uk
- 2.1.4. **Email:** info@gtspecifier.co.uk
- 2.2. **Product reference:** Tree Anchor Rootball Drop-Man System
- 3. **Anchoring system:** 3 no gtDrop-Man anchors
- 4. **Installation:** Ensure tree is positioned correctly and vertically prior to tightening guy line tensioners.

Woodland/ matrix/ buffer zone planting - Not Used

Protecting/ maintaining/ making good defects

710 Maintenance

1. **Duration:** Carry out the operations in the following clauses from completion of planting until the end of the rectification period.
2. **Frequency of maintenance visits:** In accordance with the agreed maintenance schedule

720 Failures of planting

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

740 Cleanliness

1. **Soil and arisings:** Remove from hard surfaces and grassed areas.
2. **General:** Leave the works in a clean tidy condition at completion and after any maintenance operations.

750 Planting maintenance generally

1. **Weed control:** Maintain weed free area around each tree and shrub.
 - 1.1. **Diameter (minimum):** The larger of 1 m or the surface of original planting pit.
 - 1.2. **Keep planting beds clear of weeds:** By maintaining full thickness of mulch and hand weeding
2. **Planted areas:** Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch.
3. **Precautions:** Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
4. **Firming up:** Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
5. **Trees:** Spray crown when in leaf during warm weather.
 - 5.1. **Timing:** After dusk.
6. **Tree accessories:** Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.

- 6.1. **Broken or missing items:** Replace.
- 6.2. **Loose stakes:** Re-firm in the ground or replace as necessary to provide support to the tree.
- 6.3. **Loose guys:** Re-firm anchor points and adjust as necessary to provide support to the tree.
- 6.4. **Ties:** Adjust to accommodate growth and prevent constriction or abrasion.
- 6.5. **Damage to bark:** Cut back neatly with sharp knife. Prevent further damage.
- 6.6. **Frequency of checks:** At each scheduled maintenance visit
7. **Watering:** As required for healthy establishment, depending on weather conditions

760 Planting maintenance – pruning

1. **General:** Prune to promote healthy growth and natural shape.
 - 1.1. **Dead, dying, diseased wood and suckers:** Remove.
 - 1.2. **Timing:** As appropriate to the species
 - 1.3. **Trees:** Favour a single central leading shoot.
2. **Arisings:** Remove.

780 Maintenance instructions

1. **General:** Before end of the maintenance period, submit printed instructions recommending procedures to be established by the Employer for maintenance of the planting work for one full year: Provide a schedule of any ongoing maintenance problems experienced during the rectification period.

790 Final mulching

1. **Timing:** At end of the maintenance period.
2. **Watering:** Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
3. **Planting beds:** Remulch.
4. **Depth (minimum):** 50 mm
5. **Trees:** Remulch.
6. **Depth (minimum):** 50 mm

Ω End of Section

Q40
Fencing

Summary

Revision history

Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	RIBA Stage 4	P01	Issued for Stage 4
10/04/2024	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P02	Project Code changed to UBS
19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

Fencing systems

126 A Security fence type 1

1. **Manufacturer:** Jacksons Fencing
 - 1.1. **Contact details**
 - 1.1.1. **Address:** 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 1.1.2. **Telephone:** 0800 408 4757
 - 1.1.3. **Web:** www.jacksons-security.co.uk
 - 1.1.4. **Email:** sales@jacksons-fencing.co.uk
 - 1.2. **Product reference:** EuroGuard® Regular Fencing
2. **Category:** 2.
3. **Posts:** Rectangle hollow section (RHS) with anti-tamper connectors.
4. **Post foundations:** Over length set in concrete.
5. **Panels:** 200 x 45 mm mesh, 2410 mm-high.
6. **Fence topping:** None.
7. **System accessories:** None.
8. **Worked finish:** Galvanized, green RAL 6005.

126 B Security Fence type 2

1. **Manufacturer:** Jacksons Fencing
 - 1.1. **Contact details**
 - 1.1.1. **Address:** 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 1.1.2. **Telephone:** 0800 408 4757
 - 1.1.3. **Web:** www.jacksons-security.co.uk
 - 1.1.4. **Email:** sales@jacksons-fencing.co.uk
 - 1.2. **Product reference:** EuroGuard® Combi A1 (SR1) Fencing
2. **Category:** 2.
3. **Posts:** Manufacturer's standard.
4. **Post foundations:** Over length set in concrete.
5. **Panels:** Welded mesh panels, 2470 mm high.
6. **Fence topping:** None
7. **System accessories:** Matching gates.
8. **Worked finish:** Zinc alloy-coated and powder-coated, green RAL 6005.

140 Temporary wire mesh fencing

1. **New Item:** to support proposed hedge planting during establishment period.
2. **Manufacturer:** Contractor's choice
3. **Standard:** To BS 1722-2.
4. **Height:** 1200mm

5. **Mesh:** Rectangular, 1M 120/10/15 to BS EN 10223-5
6. **Posts and struts:** Round wood set in ground
7. **Maximum centres of posts**
 - 7.1. **Intermediate posts:** 3.5 m.
8. **Conformity:** Submit manufacturer's and installer's certificates, to BS 1722-2.

430 A Green Screen System

1. **Description:** to be installed along security fence type 1
2. **Manufacturer:** Mobilane
 - 2.1. **Contact details**
 - 2.1.1. **Address:** 16 Upper Woburn Place
London
United Kingdom
WC1H 0AF
 - 2.1.2. **Telephone:** +44 (0) 203 741 8049
 - 2.1.3. **Web:** www.mobilane.com
 - 2.1.4. **Email:** office@mobilane.co.uk
 - 2.2. **Product reference:** Green Screen Living Wall
3. **Containers:** Biodegradable pot.
4. **Planting:** Hedera helix 'Woerner'.
5. **Plant supports:** Hand-wound to metal grid.
6. **System accessories:** fence clips
7. **Mesh panels:** Electrical resistance welded galvanized steel wire, Zincalu® wires.
8. **Weight:** Empty: 1250 kg; Saturated 1450 kg.
9. **Height:** 2200mm

Gates, posts and stiles

570 A Pedestrian gate

1. **Manufacturer:** Jacksons Fencing
 - 1.1. **Contact details**
 - 1.1.1. **Address:** 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 1.1.2. **Telephone:** 0800 408 4757
 - 1.1.3. **Web:** www.jacksons-security.co.uk
 - 1.1.4. **Email:** sales@jacksons-fencing.co.uk
 - 1.2. **Product reference:** EuroGuard® Combi A1 (SR1) Gates
2. **Dimensions**
 - 2.1. **Span:** 1500mm
 - 2.2. **Height:** 2400mm
3. **Posts:** Manufacturer's standard.
4. **Gate leaves:** Single leaf.
5. **Hardware**

- 5.1. **Hinges:** Tamper-proof.
- 5.2. **Securing:** Key in lock, handles, stop.
- 5.3. **Operating:** Manual with in-built access panel/fob reader and fail-safe release connected to fire alarm
- 6. **Finish as delivered:** Pressure treated wood/ powder-coated steel.
- 7. **Colours:** Green RAL 6005.

570 B Automated vehicle gate

- 1. **Manufacturer:** Jacksons Fencing
 - 1.1. **Contact details**
 - 1.1.1. **Address:** 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 1.1.2. **Telephone:** 0800 408 4757
 - 1.1.3. **Web:** www.jacksons-security.co.uk
 - 1.1.4. **Email:** sales@jacksons-fencing.co.uk
 - 1.2. **Product reference:** EuroGuard® Combi A1 (SR1) Gates
- 2. **Dimensions**
 - 2.1. **Span:** 6000mm
 - 2.2. **Height:** 2400mm
- 3. **Posts:** Manufacturer's standard.
- 4. **Gate leaves:** Double leaf.
- 5. **Hardware**
 - 5.1. **Hinges:** Tamper-proof.
 - 5.2. **Securing:** Key in lock, handles, stop.
 - 5.3. **Operating:** Automatic, rear mounted operator.
- 6. **Finish as delivered:** Pressure treated wood/ powder-coated steel.
- 7. **Colours:** Green RAL 6005.

Accessories

635 Gate openers

- 1. **Description:** to vehicle gate
- 2. **Manufacturer:** to M&E engineer specification
 - 2.1. **Product reference:** to M&E engineer specification
- 3. **Type:** Articulated
- 4. **Mechanism:** to M&E engineer specification
- 5. **Number of transmitters:** to M&E engineer specification
- 6. **Accessories:** to M&E engineer specification

Execution

710 Installation generally

- 1. **Set out and erect**
 - 1.1. **Alignment:** Straight lines or smoothly flowing curves.

- 1.2. **Tops of posts:** Following profile of the ground.
- 1.3. **Setting posts:** Rigid, plumb and to specified depth, or greater where necessary to ensure adequate support.
- 1.4. **Fixings:** All components securely fixed.

720 Setting posts in concrete

1. **Standard:** To BS 8500-2.
2. **Mix:** Designated concrete not less than GEN1 or Standard prescribed concrete not less than ST2.
3. **Alternative mix for small quantities:** 50 kg Portland cement to 150 kg fine aggregate to 250 kg 20 mm nominal maximum size coarse aggregate, medium workability.
4. **Admixtures:** Do not use.
5. **Holes:** Excavate neatly and with vertical sides.
6. **Filling:** Position post/ strut and fill hole with concrete to not less than the specified depth, well rammed as filling proceeds and consolidated.
7. **Backfilling of holes not completely filled with concrete:** Excavated material, well rammed and consolidated.

730 Exposed concrete foundations

1. **Filling:** Compact until air bubbles cease to appear on the upper surface.
2. **Finishing:** Weathered to shed water and trowelled smooth.

780 Making good galvanized surfaces

1. **Treatment of minor damage (including on fasteners and fittings):** Low melting point zinc alloy repair rods or powders made for this purpose, or at least two coats of zinc-rich paint to BS 4652.
2. **Thickness:** Apply sufficient material to provide a zinc coating at least equal in thickness to the original layer.

790 Site painting

1. **Timing:** Prepare surfaces and apply finishes as soon as possible after fixing.

Completion

910 Cleaning

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

920 Fixings

1. **All components:** Tighten.
 - 1.1. **Timing:** Before handover.

930 Gates

1. **Hinges, latches and closers:** Adjust to provide smooth operation. Lubricate where necessary.
 - 1.1. **Timing:** Before handover.

Ω End of Section

Q50
Site/ street furniture/ equipment

Summary

Revision history

Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	RIBA Stage 4	P01	Issued for Stage 4
10/04/2024	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P02	Project Code changed to UBS
19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

Gates, barriers and parking controls

190 A Bollard

1. **Description:** for locations refer to dwg no. UBS-RFM-XX-00-DR-L-0101
2. **Manufacturer:** MMCITE UK Ltd
 - 2.1. **Contact details**
 - 2.1.1. **Address:** The Counting House
9 High Street
Tring
 - 2.1.2. **Telephone:** +44 (0)7925133563
 - 2.1.3. **Web:** <https://www.mmcite.com/en>
 - 2.1.4. **Email:** enquiry@mmcite.co.uk
 - 2.2. **Product reference:** Lot Bollard (SL200 - 80 mm, anchored below the ground)
3. **Duty:** Manufacturer's standard.
4. **Dimensions**
 - 4.1. **Size and profile:** 80 x 80 mm., L-profile.
 - 4.2. **Height:** 1000 mm.
 - 4.3. **Length below ground:** Manufacturer's standard.
5. **Post top:** Flat.
6. **Post base:** Flat.
7. **Finishes**
 - 7.1. **Applied finish:** Galvanized and powder coated.
 - 7.2. **Colour:** RAL TBC
8. **Accessories:** Quick-release key.
9. **Lock:** Standard 19 mm (0.75") saddle protecting against unauthorized protrusion, located in the lower part of the column.

196 A Removable bollard

1. **Description:** for locations refer to dwg no. UBS-RFM-XX-00-DR-L-0101
2. **Manufacturer:** MMCITE UK Ltd
 - 2.1. **Contact details**
 - 2.1.1. **Address:** The Counting House
9 High Street
Tring
 - 2.1.2. **Telephone:** +44 (0)7925133563
 - 2.1.3. **Web:** <https://www.mmcite.com/en>
 - 2.1.4. **Email:** enquiry@mmcite.co.uk
 - 2.2. **Product reference:** Lot Bollard (SL250 - 80 mm, removable)
3. **Duty:** Manufacturer's standard.
4. **Dimensions**
 - 4.1. **Size and profile:** 80 x 80 mm., L-profile.
 - 4.2. **Height:** 1000 mm.
 - 4.3. **Length below ground:** Manufacturer's standard.
5. **Post top:** Flat.

6. **Post base:** Flat.
7. **Finishes**
 - 7.1. **Applied finish:** Galvanized and powder coated.
 - 7.2. **Colour:** RAL TBC
8. **Accessories:** Quick-release key.
9. **Lock:** Standard 19 mm (0.75") saddle protecting against unauthorized protrusion, located in the lower part of the column.

Site and street furniture

210 A Cycle stand

1. **Manufacturer:** MMCITE UK Ltd
 - 1.1. **Contact details**
 - 1.1.1. **Address:** The Counting House
9 High Street
Tring
 - 1.1.2. **Telephone:** +44 (0)7925133563
 - 1.1.3. **Web:** <https://www.mmcite.com/en>
 - 1.1.4. **Email:** enquiry@mmcite.co.uk
 - 1.2. **Product reference:** Lotlimit SL505
2. **Type:** Single stands
3. **Material:** Steel
 - 3.1. **Finish:** Polyester powder-coated
 - 3.2. **Colour:** RAL TBC
4. **Method of fixing:** Base plate bolted to concrete base 100 mm below paving surface

210 B Door barrier

1. **New Item:** Bespoke door barrier based on Lotlimit cycle stand. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
2. **Manufacturer:** TBC
 - 2.1. **Product reference:** Door Barrier
3. **Size::** refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
4. **Material:** Steel
 - 4.1. **Finish:** Polyester powder-coated
 - 4.2. **Colour:** RAL TBC
5. **Accessories:** integrated bespoke perforated panel
6. **Method of fixing:** Base plate bolted to concrete base 100 mm below paving surface

220 A Bespoke bench

1. **Description:** Bespoke bench to public realm. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
2. **Manufacturer:** TBC
 - 2.1. **Product reference:** Bench
3. **Material:** Galvanised steel and FCS certified hardwood timber
 - 3.1. **Finish:** Metal: Polyester powder coated
Timber: UV protective coating

- 3.2. **Colour:** RAL TBC
- 4. **Size:** refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 5. **Accessories/ Special requirements:** integrated bespoke perforated panels and lighting strip
- 6. **Method of fixing:** bolted to concrete base 100 mm below paving surface

220 B Bespoke cube seat

- 1. **Description:** Bespoke seating cubes. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 2. **Manufacturer:** TBC
 - 2.1. **Product reference:** Cube seat
- 3. **Material:** Galvanised steel and FCS certified hardwood timber
 - 3.1. **Finish:** Metal: Polyester powder coated
Timber: UV protective coating
 - 3.2. **Colour:** RAL TBC
- 4. **Size:** refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 5. **Accessories/ Special requirements:** integrated bespoke perforated panels and lighting strip
- 6. **Method of fixing:** Freestanding

220 C Bespoke seating platform

- 1. **Description:** Bespoke seating platform. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 2. **Manufacturer:** TBC
 - 2.1. **Product reference:** Platform Seat
- 3. **Material:** Galvanised steel and FCS certified hardwood timber
 - 3.1. **Finish:** Metal: Polyester powder coated
Timber: UV protective coating
 - 3.2. **Colour:** RAL TBC
- 4. **Size:** Varies. Refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 5. **Accessories/ Special requirements:** integrated bespoke perforated panels and lighting strip
- 6. **Method of fixing:** bolted to concrete base 100 mm below paving surface

225 A Bespoke seat

- 1. **Description:** Bespoke seat with backrest and armrest. For details refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 2. **Manufacturer:** TBC
 - 2.1. **Product reference:** Seat
- 3. **Material:** Galvanised steel and FCS certified hardwood timber
 - 3.1. **Finish:** Metal: Polyester powder coated
Timber: UV protective coating
 - 3.2. **Colour:** RAL TBC
- 4. **Size:** refer to dwg no. UBS-RFM-XX-XX-DR-L-8003
- 5. **Accessories/ Special requirements:** Backrest and armrest as indicated on dwg no. 0968-RFM-XX-XX-DR-L-8003
- 6. **Method of fixing:** bolted to concrete base 100 mm below paving surface

240 A Litter bins

- 1. **Manufacturer:** MMCITE UK Ltd

1.1. Contact details

- 1.1.1. **Address:** The Counting House
9 High Street
Tring
- 1.1.2. **Telephone:** +44 (0)7925133563
- 1.1.3. **Web:** <https://www.mmcite.com/en>
- 1.1.4. **Email:** enquiry@mmcite.co.uk

1.2. **Product reference:** Prax Litter Bin (PRX345 - 120 L, perforated steel sheet door)

- 2. **Material:** Steel frame/ perforated steel door/ panels; galvanized steel liner.
- 3. **Base:** Base plate (surface mounted).
- 4. **Finish as delivered:** Polyester powder coated
- 5. **Colours:** RAI TBC
- 6. **Capacity:** 120 L.
- 7. **Dimensions:** 580 x 370 x 1055 mm.
- 8. **Custom graphics:** Bespoke perforation pattern
- 9. **Integral accessories:** Stainless steel dividers.

Installation

510 Concrete foundations generally

- 1. **Standard:** To BS 8500-2.
- 2. **Concrete:** to engineer's specification
- 3. **Admixtures:** Do not use.
- 4. **Foundation holes:** Neat vertical sides.
- 5. **Depth of foundations, bedding, haunching:** Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

515 Setting components in concrete

- 1. **Holes:** 250 x 250 x minimum 300 mm deep
- 2. **Components:** Accurately positioned and securely supported.
- 3. **Concrete fill:** Fully compacted as filling proceeds.
- 4. **Concrete foundations exposed to view:** Compacted until air bubbles cease to appear on the upper surface, then weathered to shed water and trowelled smooth.
- 5. **Temporary component support:** Maintain undisturbed for minimum 48 hours.

530 Preservative treated timber

- 1. **Surfaces exposed by minor cutting and drilling:** Treated by immersion or with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.
- 2. **Heavily worked sections:** Re-treat.

550 Damage to galvanized surfaces

- 1. **Minor damage in areas up to 40 mm² (including on fixings and fittings):** Make good.
 - 1.1. **Material:** Low melting point zinc alloy repair rods or powders made for this purpose or at least two coats of zinc-rich paint to BS 4652.
 - 1.2. **Thickness:** Sufficient to provide a zinc coating at least equal to the original layer.

560 Site painting

1. **Timing:** Prepare surfaces and apply finishes as soon as possible after fixing.

Ω End of Section

Q52

Play and sports equipment

Summary

Revision history

Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	RIBA Stage 4	P01	Issued for Stage 4
10/04/2024	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P02	Project Code changed to UBS
19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

General - Not Used

System performance - Not Used

Products

320 Balance beam

1. **Description:** to informal play area along Kincardine Road
2. **Standard:** To BS EN 1176-1.
3. **Manufacturer:** Playequip
 - 3.1. **Address:** 183 Birches Lane South Wingfield Derbyshire England
 - 3.2. **Telephone:** (+44) 0177 383 0069
4. **Product reference:** Outdoor Balance Beam
5. **Materials:** Oak Timber
 - 5.1. **Finish:** Grooved grip channels and rounded and chamfers corners and edges
 - 5.2. **Colour:** Natural
6. **Length:** 2000mm
7. **Height:** 300-450mm
8. **Method of fixing:** Manufacturer's standard

360 A Timber stepping logs

1. **Description:** to informal play area along Kincardine Road
2. **Standard:** To BS EN 1176-1.
3. **Manufacturer:** Playequip
 - 3.1. **Address:** 183 Birches Lane South Wingfield Derbyshire England
 - 3.2. **Telephone:** (+44) 0177 383 0069
4. **Product reference:** Hexagon Stepping Stumps
5. **Materials:** Oak
6. **Size:** 320 x 320mm
7. **Height:** 175-450mm
8. **Method of fixing:** manufacturer's standard

360 B Natural glacier boulders

1. **Description:** to informal play area along Kincardine Road
2. **Standard:** To BS EN 1176-1.
3. **Manufacturer:** Playequip
 - 3.1. **Address:** 183 Birches Lane South Wingfield Derbyshire England
 - 3.2. **Telephone:** (+44) 0177 383 0069
4. **Product reference:** Playground Boulders
5. **Materials:** natural stone
6. **Size:** varies
7. **Height:** varies
8. **Method of fixing:** manufacturer's standard

Execution

710 Play equipment installation generally

1. **Standard:** To manufacturer's written instructions provided in accordance with BS EN 1176-1.

720 Concrete foundations generally

1. **Standard:** To BS 8500-2.
2. **Concrete:** to engineer's specification
3. **Admixtures:** Do not use.
4. **Foundation holes:** Neat vertical sides.
5. **Depth of foundations, bedding, haunching:** Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

725 Setting components in concrete

1. **Holes:** to manufacturer recommendation
2. **Components:** Accurately positioned and securely supported.
3. **Concrete fill:** Fully compacted as filling proceeds.
4. **Concrete foundations exposed to view:** Finished to weathering profile to shed water and trowel smooth.
5. **Temporary component support:** Maintain undisturbed for minimum 48 hours.

740 Preservative treated timber

1. **Surfaces exposed by minor cutting and drilling:** Treated by immersion or with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.

Completion

910 Inspection

1. **Standard:** To BS EN 1176-1
2. **Timing:** Give reasonable notice before covering up
3. **Period of notice (minimum):** 3 working days.

920 Cleaning

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

930 Testing

1. **Standard:** To BS EN 1176-1.

940 Labels

1. **Standard:** To BS EN 1176-1
2. **Labels:** Provide permanent labelling on all types of play equipment.
3. **Location:** Where visible when erected on site.

970 Operating tools

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

Ω End of Section

Q55

External decks, boardwalks and bridges

Summary

Revision history

Date	No.	Title	Status	Revision	Note
28/03/2024	0968-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P01	Issued for Stage 4
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19/06/2025	UBS-RFM-XX-XX-SP-L-0002	Landscape NBS Specification	For Stage Approval	P023	Clause Q25.350A omitted

Tendering - Not Used

General

120 Boardwalk

1. **Description:** Composite boardwalks to informal play areas. For locations refer to dwg no. UBS-RFM-XX-00-DR-L-0101
2. **Base preparation:** Remove projections and debris and cover with 75 mm depth of 10 mm single-size gravel
3. **Structure, other than surfacing:** Structural timber composites
4. **Surfacing:** Composite deck boards
 - 4.1. **Method of attachment:** Exterior grade decking screws

140 Hard landscaping materials specification

1. **Minimum BRE 'Green Guide to Specification Online' rating:** Refer to BREEAM report

System performance - Not Used

Products

370 A Composite subframe

1. **Description:** Subframe to external board walls
2. **Manufacturer:** Millboard
 - 2.1. **Address:** Castle Court Bodmin Rd Coventry CV2 5DB
 - 2.2. **Telephone:** 024 7643 9943
 - 2.3. **Email:** enquiries@millboard.co.uk
3. **Product Reference:** Plas pro composite joists fixed to composite posts set in concrete
4. **Colour:** as cast

380 Deck boards

1. **Description:** Composite decking to external boardwalks
2. **Manufacturer:** Millboard
 - 2.1. **Address:** The Millboard Co Ltd Castle Court Bodmin Rd Coventry CV2 5DB
 - 2.2. **Telephone:** 024 7643 9943
 - 2.3. **Email:** enquiries@millboard.co.uk
3. **Product Reference:** Enhanced Grain Composite Boards
4. **Colour:** Lime Oak
5. **Profile:** Plain
6. **Finished size:** 176 x 32mm
 - 6.1. **Length:** 3600mm

Fabrication - Not Used

Execution

610 Loading

1. **Site activities:** Restrict, to ensure that design loads are not exceeded, or submit proposals for temporary supports.

620 Concrete foundations generally

1. **Standard:** To BS 8500-2.
2. **Mix:** To structural engineer's design and specification
3. **Admixtures:** Do not use.
4. **Foundation holes:** Neat vertical sides.
5. **Depth of foundations, bedding, haunching:** Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

665 Installation generally

1. **Fasteners and methods of fixing:** to manufacturer's recommendation
2. **Structural members:** Do not modify, cut, notch or make holes in structural members, except as indicated on drawings.
3. **Temporary support:** Do not use stairs, walkways or balustrades as temporary support or strutting for other work.

Completion

950 Documentation

1. **Contents**
 - 1.1. General product information.
 - 1.2. Installation information.
 - 1.3. Inspection and maintenance reports.
 2. **Number of copies:** 3
 3. **Submission:** Two weeks prior to date when principal contractor expects work to be practically complete
- Ω End of Section

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