

Q30 SEEDING/ TURFING

To be read with Preliminaries/ General conditions.

GENERAL INFORMATION/ REQUIREMENTS**115 SEEDED AND TURFED AREAS**

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

120 CLIMATIC CONDITIONS

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

145 WATERING

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

150 WATER RESTRICTIONS

- 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

- Give notice before:
 - Setting out.
 - Applying herbicide.
 - Applying fertilizer.
 - Preparing seed bed.
 - Seeding or turfing.
 - Visiting site during maintenance period.

170 SETTING OUT

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

PREPARATION**210 HERBICIDE TO ALL GREEN ROOF AREAS- SEEK PRIOR APPROVAL FROM CA/ECOLOGIST.**

- Type: Suitable for suppressing perennial weeds.
- Timing: Allow fallow period before cultivation.
- Duration: to manufacturer advice.

212 SEED BED CLEANING BEFORE SOWING- TO ALL ROOF AREAS

- Operations: Create or construct a suitable growing bed that is free of weeds - remove weeds by hand weeding and hoeing. Kill pernicious weeds with selective contact herbicide - make sure the seed bed has reasonable texture and structure and can retain moisture.

280 FINAL CULTIVATION

- Timing: After grading and fertilizing.
- Seed bed: Reduce to fine, firm tilth with good crumb structure.
 - Depth: 25 mm.
 - Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted.
 - Remove surface stones/ earth clods exceeding:
 - General areas: N/A.
 - Fine lawn areas: 10 mm.
- Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

SEEDING

312 SEED MIXTURE- TO ALL GREEN ROOF AREAS

- Supplier: Emorsgate seeds, Limes farm, Tilney All Saints, Kings Lynn, Norfolk, PE34 4RT , or similar approved.
- Mixture reference: customized combined ER1F and EM2 with one – two extra species from the London Biodiversity Action Plan, as per specification produced by JFA Environmental. 31 species in total.
- Origin (as defined in the National Plant Specification): Native UK.
- Application rate: 1g/m² – or to supplier's advice.

319 QUALITY OF SEED- TO ALL GREEN ROOF AREAS

- Freshness: Produced for the current growing season.
- Certification: Blue label certified varieties.
 - Standard: EC purity and germination regulations.
 - Official Seed Testing Station certificate of germination, purity and composition: Submit when requested.
- Samples of mixtures: Submit when requested.

325A "DRY" ROOF AREAS:

- Supplier: Contractor to source
 - Types: dry sand/shingle, large boulders, dead wood
- Origin (as defined in the National Plant Specification): Native UK.
- Roof area: 1-2m² each, as indicated on drawings.

330 SOWING

- General: Establish good seed contact with the root zone.
- Method: To suit soil type, proposed usage, location and weather conditions during and after sowing, make sure there is sufficient warmth and moisture, irrigation may be needed to maintain establishment through dry periods. The seed must be surface down, do not incorporate or cover the seed.
 - Distribution: Bulk up the seed with an inert carrier such as sand to make distribution easier. Distribute in 2 equal sowings at right angles to each other and diagonally to main axis.

336 WILDFLOWER SOWING SEASON

- Wildflower seed generally: Autumn or spring- March to May or August to October, or to manufacturer guidance.

- 340 PRE-EMERGENT HERBICIDE- TO ALL GREEN ROOF AREAS
- Standard: Pesticide Safety Directorate approved.
 - Application rate: In accordance with manufacturer's written recommendation.
 - Timing: Immediately after sowing.

- 352 EDGES TO SEEDED AREAS: TO ALL GREEN ROOF AREAS.
- Timing: After seeded areas are well established.
 - Edges: Clean straight lines or smooth curves.
 - Mulch and soil: Draw back to permit edging.
 - Arisings: Remove.
 - Completion: Respread soil and mulch.

PROTECTING/ CUTTING

- 510 PROTECTIVE FENCING
- Fencing type: tbc.
 - Height: 1.1m- tbc.
 - Erection: On completion of seeding/ turfing.
 - Removal: After flowers are well established.

- 540 FIRST CUT OF WILD FLOWER AREA
- Height of initial growth: 100-150mm- tbc.
 - Preparation:
 - Debris and litter: Remove.
 - Stones and earth clods larger than 25 mm in any dimension: Remove.
 - Height of first cut: 100mm.
 - Mower type: As advised by manufacturer/CA.
 - Arisings: As recommended, see Q30-620.

- 561A EDGING STRIPS
- Manufacturer: pls refer to document 770-Q37-C1.
 - Product reference: pls refer to document 770-Q37-C1.
 - Fixing: pls refer to document 770-Q37-C1.
 - Installation height: pls refer to document 770-Q37-C1.

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

MAINTENANCE

- 610 FAILURES OF SEEDING/ TURFING
- Duration: Carry out the following operations from completion of seeding/ turfing until tbc.
 - Defective materials or workmanship: Areas that have failed to thrive.
 - Exclusions: Theft or malicious damage.
 - Method of making good: Recultivation and reseeded/ returfing.
 - Timing of making good: The next suitable planting season, or submit proposals.

- 620 MAINTAINING TO EXTENSIVE (BIODIVERSE) GREEN ROOF AREAS
- Duration: Carry out the following operations from completion of seeding/ turfing until Flowers have set seed- tbc.
 - Maximum height of growth at any time: tbc.
 - Preparation: Before each cut remove all litter and debris.

- Cutting: As and when necessary to a height of 150mm- tbc.
 - Arisings: Spread evenly over cut areas unless otherwise instructed, seek advice from CA.
- Bulb planting areas: Do not cut until bulb foliage has died down.
- Trimming: All edges.
 - Arisings: Leave or Remove- As recommended.
- Weed control: Substantially free of broad leaved weeds.
 - Method: Application of a suitable selective herbicide.
- Stones brought to the surface: Remove regularly.
 - Size: Exceeding 25 mm in any dimension.
- Areas of settlement: Make good.
- Watering: As required to ensure successful establishment and as Q30-145.

685 MAINTENANCE FERTILIZER TO ALL GREEN ROOF AREAS

- Duration: Carry out the following operations from completion of seeding/turfing as recommended.
- March application:
 - Manufacturer: TBC.
 - Product reference: TBC.
 - Application rate: TBC.
- September application:
 - Manufacturer: TBC .
 - Product reference: TBC.
 - Application rate: TBC.