




# Oriel

## Specification Clause Q30 Seeding, turfing



PROJECT NAME		<b>Oriel</b>	
ORIGINATOR		ORIGINATOR LOGO	
<b>Arcadis IBI Group</b>		 <b>ARCADIS</b>   <b>IBI GROUP</b>	
TITLE			
<b>Specification Clause Q30 Seeding, turfing</b>			

STAGE(s) (RIBA/BSRIA):		<b>RIBA 4</b>		SUITABILITY CODE:		<b>S4 – For Review and Authorisation</b>	
<b>ORL</b>	<b>IBI</b>	<b>XX</b>	<b>XX</b>	<b>TSP</b>	<b>L</b>	<b>000117</b>	<b>C01</b>
PROJECT	ORIGINATOR	FUNCTIONAL BREAKDOWN	SPATIAL BREAKDOWN	FORM	DISCIPLINE	SEQUENCE NUMBER	REVISION

Revisions

Date	Revision	Rev
2024/01/26	S4 - For Review and Authorisation	C01

Notes

- Specification to be read in conjunction with IBI Group drawings
- Any discrepancies in Specification or between Specification and drawings to be reported to IBI Group

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## Q30

### SEEDING/ TURFING **REVISED**

#### 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.

##### 146 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.
  - a) During establishment of grass areas, sufficient water shall be applied to keep the grass sufficiently moist for establishment and growth.
  - b) Wet the full depth of topsoil and apply evenly without displacing seeds, seedlings or soil.
  - c) Watering frequency shall be every second day during periods of no rainfall, for 12months following Practical Completion.

##### 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
  - Setting out.
  - Applying herbicide.
  - Applying fertilizer.
  - Preparing seed bed.
  - Seeding or turfing.
  - Visiting site during maintenance period.
2. Period of notice: 1 week

##### 170 SETTING OUT

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

#### PREPARATION

##### 212 SEED BED CLEANING BEFORE SOWING

1. Description: ALL GRASSED AREAS

2. Operations: As seed supplier's recommendations.

## SEEDING

### 310 GRASS AND WILDFLOWER SEED ER1 TO BIODIVERSE ROOF ON LEVEL 7 TO BE READ IN CONJUNCTION WITH ORL-IBI-XX-XX-DPL-L-100102 AND ORL-IBI-XX-06-DPL-L-100201

1. Description: Grass Seed ER1 from Alumasc Roofing/ Blackdown Roof and Podium Landscaping
  - a) Seeds shall be Blue Label certified varieties complying with EU Purity and Germination Regulations.
  - b) Fresh seed shall be purchased for each growing season. Seed purchased for previous seasons shall not be used.
  - c) Germination capacity shall be not less than 80%.
  - d) Purity of mixture shall be not less than 90%.
  - e) Total weed seed content shall be no more than 0.5%.
  - f) Total content of other crop seeds shall be no more than 1%.
  - g) Results of testing for germination, purity and composition, which shall be carried out at an Official Seed Testing Station, shall be submitted when requested by the Project Manager.
  - h) Samples of mixtures shall be submitted when requested.Provide quality benchmarks, in location(s) to be agreed with the Project Manager.
2. Mixture: **ER1 Wild Flowers 20%**
  - 1.3 *Achillea millefolium* – Yarrow
  - 0.1 *Anthyllis vulneraria* – Kidney Vetch
  - 2.5 *Centaurea nigra* – Common Knapweed
  - 1.0 *Cruciata laevipes* – Crosswort
  - 0.1 *Filipendula vulgaris* – Dropwort
  - 1.0 *Galium album* – (*Galium mollugo*) – Hedge Bedstraw
  - 0.5 *Galium verum* – Lady's Bedstraw
  - 0.1 *Hippocrepis comosa* – Horseshoe Vetch
  - 1.0 *Leucanthemum vulgare* – Oxeye Daisy – (Moon Daisy)
  - 0.2 *Lotus corniculatus* – Birdsfoot Trefoil
  - 3.0 *Malva moschata* – Musk Mallow
  - 0.1 *Origanum vulgare* – Wild Marjoram
  - 1.0 *Plantago lanceolata* – Ribwort Plantain
  - 1.0 *Plantago media* – Hoary Plantain
  - 2.0 *Poterium sanguisorba* – (*Sanguisorba minor*) – Salad Burnet
  - 0.1 *Primula veris* – Cowslip
  - 2.0 *Prunella vulgaris* – Selfheal
  - 1.0 *Rhinanthus minor* – Yellow Rattle
  - 1.0 *Rumex acetosella* – Sheep's Sorrel
  - 1.0 *Silene vulgaris* – Bladder Campion**Grasses 80%**
  - 4.0 *Briza media* – Quaking Grass (w)
  - 0.2 *Carex flacca* – Glaucous Sedge
  - 24.0 *Cynosurus cristatus* – Crested Dogstail
  - 24.0 *Festuca ovina* – Sheep's Fescue
  - 24.0 *Festuca rubra* – Red Fescue
  - 2.0 *Koeleria macrantha* – Crested Hair-grass (w)
  - 1.8 *Trisetum flavescens* – Yellow Oat-grass (w)
3. Application rate: To supplier's recommendation.

NOTE: Biodiverse roof to include snake leaky pipe irrigation system fed from grey water attenuation tank. Connection and Supply to M and E details. Irrigation system to be confirmed.

### 319 QUALITY OF SEED

1. Description: FOR ALL SEEDED AREAS

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

### **322 QUALITY OF WILDFLOWER SEED**

1. Description: FOR ALL SEEDED AREAS
2. Standard: In accordance with Flora Locale's 'Code of practice for collectors, growers and suppliers of native flora'.
3. Germination testing: Submit germination test results (to ISTA International rules for seed testing)
4. Freshness of seed: Produced for the current growing season
5. Samples: Submit when requested.

### **330 SOWING**

1. General: In conjunction with recommendations from manufacturer
2. Method: In conjunction with recommendations from manufacturer
  - Distribution: In conjunction with recommendations from manufacturer

### **335 GRASS SOWING SEASON**

1. Grass seed generally: April to October

### **336 WILDFLOWER SOWING SEASON**

1. Wildflower seed generally: August to October

### **340 PRE-EMERGENT HERBICIDE**

1. Description: FOR ALL SEEDED AREAS
2. Standard: Pesticide Safety Directorate approved.
3. Application rate: In accordance with manufacturer's written recommendation.
  - Timing: Immediately after sowing.

## **TURFING**

### **400 CULTIVATED TURF** ADDED

1. Description: EXT TF TO DOG RELIEF AREA ON DRAWING ORL-IBI-XX-XX-DPL-L-100101
2. Supplier: Submit proposals
  - Product reference: Submit proposals
3. Properties of soil used for turf production: Well drained sandy loam

### **423 INSPECTION OF TURF** ADDED

1. Description: EXT TF TURF TO DOG RELIEF AREA ON DRAWING ORL-IBI-XX-XX-DPL-L-100101
2. Sampling method: To BS 3969.
3. Give notice: Before lifting turf.
  - Period of notice: 1 week

#### 427 WEED SUPPRESSION MEMBRANE **ADDED**

1. Description: EXT TF TURF TO DOG RELIEF AREA ON DRAWING ORL-IBI-XX-XX-DPL-L-100101
2. Manufacturer: Submit proposals
  - Product reference: Submit proposals
3. Laps: Minimum 100 mm side and end laps.
4. Laying sequence: After final cultivation and immediately before turfing.
5. Anchoring: Sufficient topsoil or sand spread evenly over membrane to prevent wind uplift.

#### 430 TURFING GENERALLY **ADDED**

1. Time of year: Autumn or early winter
2. Timing of laying
  - Spring and summer: Within 18 hours of delivery.
  - 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: None
10. Watering: Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below.

### PROTECTING/CUTTING

#### 540 FIRST CUT OF **ADDED**

1. Description: EXT TF TURF TO DOG RELIEF AREA ON DRAWING ORL-IBI-XX-XX-DPL-L-100101
2. Height of initial growth: 75 mm
3. Preparation:
4. Debris and litter: Remove.
  - Stones and earth clods larger than 25 mm in any dimension: Remove
5. Height of first cut: 50 mm
6. Mower type: Contractor's choice
7. Arisings: Remove from site

#### 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.
  - 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 ADDED

1. Description: EXT TF TURF TO DOG RELIEF AREA ON DRAWING ORL-IBI-XX-XX-DPL-L-100101
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: 50 mm
4. Preparation: Before each cut remove all litter and debris.
5. Cutting: As and when necessary to a height of 50 mm.
  - Arisings: Remove
6. Bulb planting areas: Do not cut until bulb foliage has died down.
7. Trimming: All edges.
  - Arisings: Remove.
8. Weed control: Substantially free of broad leaved weeds.
  - Method: Application of a suitable selective herbicide.
9. Stones brought to the surface: Remove regularly.
  - Size: Exceeding 25 mm in any dimension.
10. Areas of settlement: Make good.
11. Watering: As per maintenance schedule

### 620 MAINTAINING BIODIVERSE GREEN ROOF - LEVEL 7

1. Description: In the first 12 months post installation maintenance should consist of 2 visits followed by, at a minimum, 1 maintenance visit per year.  
Typical procedures carried during maintenance include:
  1. Removal of unwanted plant material i.e. invasive species (if required).
  2. Correction of any localised plant system problems that may have occurred post installation.
  3. Replacement of any failed plants exceeding 5% of total plants installed.
  4. Application of nutrient source.
  5. Removal of dead flower heads (if required).
  6. Inspection of rainwater outlet chambers and surrounding vegetation breaks.
  7. Replenishment of any areas of settled substrate.

All to be in conjunction with manufacturer's recommendation.

## DELETED CLAUSES

### 250 Soil requirements To Biodiverse Roof Level 7 DELETED