

MCM.

P17-082 Envelope Specification (other than Curtain walling package) incl. External Works

Project 17 Charterhouse Street
Date 20/06/2019
Ref P17-082-SPEC-12
Rev Issue 10

Revision	Amendments	Date	Initials
ISSUE 07	For Tender (Section L20 only)	05.12.2018	SUP
ISSUE 08	For Construction	08.03.2019	SUP
ISSUE 09	For Construction	08.05.2019	SUP
ISSUE 10	For Construction	20.06.2019	SUP

Revision Colour Key	
Formatting	Description
BLACK text with YELLOW Highlight	New text.
RED text	(Whole) deleted clause i.e. "Clause deleted".
RED text with STRIKETHROUGH	(Part) deleted clause e.g. "Samples and Benchmark items."

Added: L20/610; section P31

Removed: J31/130I, 336A, 755A

Edited: section J31; section J41; Q10/180A, Q10/180B

CONTENTS

ENVELOPE - PRELIMINARIES
B13 MODULAR CONSTRUCTION
C40 CLEANING MASONRY/CONCRETE
C41 REPAIRING/RENOVATING/CONSERVING MASONRY
C91 ALTERATION SPOT ITEMS
E61 FRANGIBLE SMOKE OUTLET PANELS
F10 BRICK/BLOCK WALLING
F30 ACCESSORIES BRICK/BLOCK/STONE WALLING
G10 STRUCTURAL STEEL FRAMING
G13 LIGHT STEEL FRAME
H31 PROFILED METAL CLADDING/COVERING
J31 LIQUID APPLIED ROOF WATERPROOFING
J40 FLEXIBLE SHEET WATERPROOFING/ DAMP PROOFING
J41 BUILT UP ROOF WATERPROOFING
K10 PLASTERBOARD PARTITIONS/LININGS/CEILINGS
K42 EXTERNAL SUSPENDED SOFFIT
L15 SOLAR SHADING BRISE SOLEIL
L19 VENTILATION LOUVRES
L20 DOORS/SHUTTERS/HATCHES
L35 UTILITARIAN STAIRS AND LADDERS
M10 CEMENT:SAND/CONCRETE SCREEDS/TOPPINGS
M20 PLASTERED/RENDERED/ROUGHCAST COATINGS
M21 EXTERNAL WALL INSULATION SYSTEM WITH RENDERED FINISH
M61 INTUMESCENT PAINT
N16 BIRD VERMIN CONTROL SYSTEMS
N25 PERMANENT ACCESS AND SAFETY EQUIPMENT
Q10 KERBS/EDGINGS/CHANNELS PAVING ACCESSORIES
Q25 SLAB/BRICK/SETT/COBBLE PAVINGS
Q35 LANDSCAPE MAINTENANCE
Q37 GREEN, BROWN AND BLUE ROOFS
Q50 STREET FURNITURE
U10 VENTILATION
V40 SMALL POWER SYSTEMS
V60 EXTERNAL LIGHTING SYSTEMS
W53 LIGHTNING PROTECTION:
X22 CLEANING GANTRY
Z31 POLYESTER POWDER COATING
Z33 ANODIC OXIDE COATINGS
Z34 HOT DIP GALVANIZING

Q50 STREET FURNITURE

To be read with Preliminaries/General Conditions

50 DESIGN REQUIREMENTS

Where access to substation doors are likely to be compromised by parking vehicles then preventive measures shall be installed, ideally in the form of fixed or removable bollards.

100 PERFORMANCE REQUIREMENTS

Environmental Requirements:

- See BREEAM Assessor's BREEAM Report: BREEAM Pass level: Excellent
- Mat 01 BRE Green Guide to Specification A and A+ ratings where possible
- VOC levels: To meet BREEAM requirements
- Mat 03 Responsible Sourcing:
 - ISO 14001 or BES 6001 or equivalent by sectors
 - 1. Timber/ timber-based products (TBP) - FSC / PEFC + Chain of Custody
 - 2. Concrete/ cementitious (plaster, mortar, screed etc.) - BES 6001
 - 3. Metal - ISO 14001 (Key processes & supply chain)
 - 8. Plastic, polymer, resin, paint, chemicals and bituminous - ISO 14001 (Key processes & supply chain)
- Security: See A90/110A

Standards: to comply with BSI PAS 68 Vehicle Crash testing of bollards

190A EXISTING VEHICLE PARKING PREVENTION/EXCLUSION ZONE BOLLARDS:

Reference Drawing(s):

Location: Saffron Hill

Level: Lower Ground,

Gridlines: P/8-9, G/8-9

Type: retractable bollards and fixed bollards

Requirement by UKPN to protect access routes to substation rooms. Existing bollards deemed suitable (existing condition)

192A STANDARD BOLLARDS:

Reference Drawing(s):

P17-082-90-DET-11

Location: 17 Charterhouse Street

Level: Ground Floor

Gridlines: A/5-7

Manufacturer: Marshalls

- Product reference: Geo Standard Bollard GE-BL-00011

Material: 316 Stainless Steel

Finish: bead blasted

Height above ground: 1100 mm

Sectional size: 204 mm diameter

Top: Flat

Special features: Shadow gap at top of bollard

Method of fixing: Buried flange, 200mm below finished ground level, to manufacturer's recommendations.

210A ADAPTIVE BICYCLE PARKING RACKS

Reference Drawing(s): MCM P17-082-A-90-00

MCM P17-082-A-90-30

Location: Undercroft

Level: Lower Ground Floor

Gridlines: G-H/6-7:

Quantity: 5 No. spaces

Manufacturer: Turvec

T 0800 246 5484

W www.turvec.com

- Product Reference: Type: AB (Sheffield style)
 Material: Mild steel
 Corrosion Protection: Hot dip galvanized to work section Z34
 Finish: Polyester powder coating to work section Z31
 Colour: tbc
 Gloss level: tbc
 Foundation: mass concrete footing to manufacturer's recommendation
 Fixings: Root fix
- 211B BICYCLE 2-TIER STACKING BIKE RACKS
 Reference Drawing(s): MCM P17-082 A-90-00
 MCM P17-082 A-90-30
 Location: Undercroft
 Level: Lower Ground Floor
 Gridlines: G-H/6-7, F-Q/1-3
 Quantity: 30 No. spaces
 Manufacturer: Turvec
 T 0800 246 5484
 W www.turvec.com
 Product Reference: Type: T2, 2 tier cycle parking
 Assisted lifting: Gas springs in own enclosure
 Material: Mild steel
 Corrosion Protection: Hot dip galvanized to work section Z34
 Finish: Polyester powder coating to work section Z31, tbc
 Colour: tbc
 Gloss level: tbc
 Foundation: not required
 Fixings: mechanical fixings to manufacturer's recommendation
- 212C BICYCLE PARKING RACKS – SHEFFIELD STANDS
 Reference Drawing(s): MCM P17-082 A-90-00
 MCM P17-082 A-90-20
 MCM P17-082 A-90-DET-22
 MCM P17-082 A-90-DET-23
 Location:
 1 Undercroft
 2 North West of St Andrews House
 3 Courtyard
 Level:
 1 Lower Ground Floor
 2 Ground floor
 3 Ground floor
 Gridlines:
 1: G-H/6-7
 2: K-Q/1-2
 3: M-Q/3-4
 Quantity: 1: 4 No. spaces
 2: 10 No spaces
 3: 26 No. spaces under shelter, see Q50/414E.
 Manufacturer: Turvec
 T 0800 246 5484
 W www.turvec.com
 Product Reference: Type: S, Sheffield stand cycle parking
 Material: Mild steel
 Corrosion Protection: Hot dip galvanized to work section Z34
 Finish: Polyester powder coating to work section Z31

- Colour: tbc
 Gloss level: matt
 Fixing: Root fix (courtyard and undercroft)
 Surface fix (St Andrew's House)
 Foundation: mass concrete footing to manufacturer's recommendation
 Fixings: mechanical (bolt) fixings to manufacturer's recommendation
- 213D SEMI VERTICAL BICYCLE PARKING RACK
 Reference Drawing(s): MCM P17-082 A-90-00
 MCM P17-082 A-90-20
 MCM P17-082 A-90-DET-23
 Location: North West of St Andrews House
 Level: Ground floor
 Gridlines: K-Q/1-2
 Quantity: 26 No. spaces
 Manufacturer: Turvec
 T 0800 246 5484
 W www.turvec.com
 Product Reference: Type: SM: Semi-vertical cycle parking,
 Material: Mild steel
 Corrosion Protection: Hot dip galvanized to work section Z34
 Finish: Polyester powder coating to work section Z31
 Colour: TBC
 Gloss level: MATT
 Foundation: not required
 Fixings: mechanical (bolt) fixings to manufacturer's recommendation
- 214E BICYCLE SHELTER
 Reference Drawing(s): MCM P17-082 A-90-00
 MCM P17-082 A-90-20
 MCM P17-082 A-90-DET-22
 Location: Courtyard
 Level: Courtyard
 Gridlines: M-Q/3-4
 Manufacturer: Turvec
 T 0800 246 5484
 W www.turvec.com
 Product Reference: T-Hide, single sided
 Roof: Polycarbonate
 Roof drainage: Integrated
 Material: Mild steel
 Corrosion Protection: Hot dip galvanized to work section Z34
 Finish: Polyester powder coating to work section Z31
 Colour: black, tbc
 Gloss level: matt
 Foundation: manufacturer's recommendation
 Fixings: manufacturer's recommendation
- 350A BAT ACCESS PANEL AND BACK PLATE SURFACE MOUNTED BAT ROOSTS
 Reference Drawing(s): tbc
 Location: Saffron Hill plant screen overlooking SHE
 Saffron Hill Extension plant screen overlooking roof
 Level: level 5 or level 6
 Gridlines: M-Q/3-4
 Manufacturer: Schwegler GmbH, Germany

W www.schwegler-nature.com
 Product Reference: 1FE Bat Access Panel
 Order Number: 00 747 / 6
 Supplier: Envisage Wildlife, the Nursery, Kingsdown lane, Blunsdon, Swindon, SN25 5DL
 T 01793 724848 F 01793 722221
 E sales@envisage-windcare.co.uk W www.envisage-windcare.co.uk
 External Dimensions: 300 x 300 x 80 mm (H x W x D)
 Weight: ca. 5.1 kg
 The 1FE is completely maintenance-free.
 The sloping entrance allows the animals' droppings, which resemble crumbs, to easily fall out.
 Material: Durable, weather-resistant and air-permeable SCHWEGLER wood-concrete, proven in everyday use for over 50 years.
 Colour: Natural Grey
 Installation:

- The 1FE is used on external walls.
- attached to building face using two screws through the front face.

 Decoration:

- The light grey material can be over-painted as required using air-permeable exterior wall paint.

 The design includes a silhouette of a bat which is both decorative and informative.
 Product Reference: Optional Back Plate for 1FE (not included with 1FE)
 Order No. 00 748 / 3
 Optional Back Plate, which includes an attached wooden panel to create a cavity wall inside the box for the bats to cling onto. The roughened surfaces of the Plate, and the inside of the 1FE itself, are very attractive to bats.
 External dimensions of 1FE with Back Plate: 300 x 300 x 100 mm (H x W x D)
 Weight: 4.9 kg (Back Plate only)
 Total weight of 1FE and Back Plate: 10 kg

351A HOUSE SPARROW MULTIPLE NEST

Reference Drawing(s): tbc
 Location: Saffron Hill plant screen overlooking SHE
 Saffron Hill Extension plant screen overlooking roof
 Manufacturer: Schwegler GmbH, Germany
 Website www.schwegler-nature.com
 Product Reference: Schwegler sparrow terrace 1SP

Supplier: Envisage Wildlife,
 The Nursery,
 Kingsdown Lane,
 Blunsdon,
 Swindon, SN25 5DL
 T 01793 724848 F 01793 722221
 E sales@envisage-windcare.co.uk W www.envisage-windcare.co.uk
 Material: Durable, weather-resistant and air-permeable SCHWEGLER wood-concrete, proven in everyday use for over 50 years.
 The 1SP completely maintenance-free.
 Colour: Natural Grey
 Decoration:
 The light grey material can be over-painted as required using air-permeable exterior wall paint.
 Dimensions: 235 x 180 x 180 mm. (h x w x d)
 Weight: 13 kg.

Installation:

2 meters or more above ground level.

Simple, surface installation using the plugs and screws supplied.

Complete installation as a nesting block .

Product use: For use in all types of built structures.