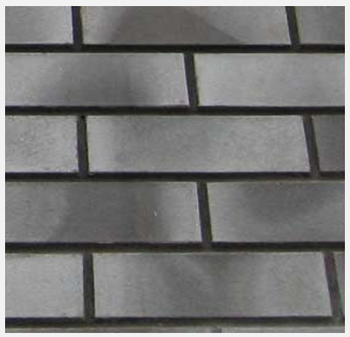
University of Manchester

Owens Park, Fallowfield campus redevelopment (SCH)_A034_Exterior Material Schedule



(SCH)A034_Owens Park Phase 1 External Material Schedule

REV P01_11.10.2017- Issued to Carillion for final review

	Item	Location	Material / Finish	Specification Reference	Product Reference Images	Product Precedent Images
1	Brickwork	Residential buildings	Brick: Wienerberger Type: St Ives Cream Rustica Pointing style: Recessed Pointing Colour: light buff TBC Movement Joint: light buff TBC	1. Buff Brickwork / F10 MBR-105 4. Textured Brickwork Panel / F10 MBR-135		 Islington Wharf Muse
2	Air Brick	Residential buildings	Type: Rytons OSA Colour: RAL to match brickwork	27. Air Brick (Buff) / F10 MAC-801		 Islington Wharf Muse
3	Brickwork	Energy Centre (Low Level)	Brick: All about Bricks Type: Aston Smooth Pointing style: Bucket Handle Pointing Colour: Black - Grey Movement Joint: Black	3. Blue Brickwork / F10 MBR-110		

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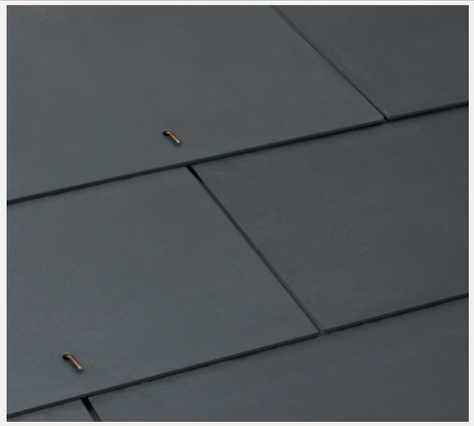
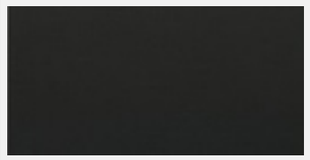
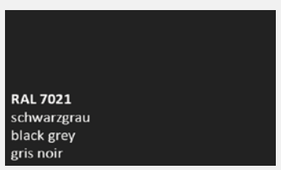
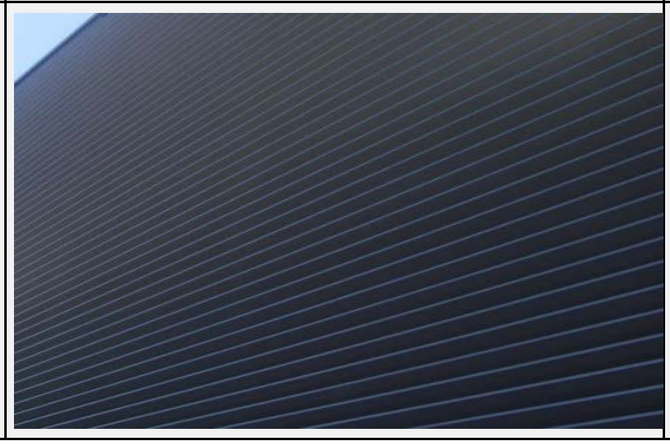
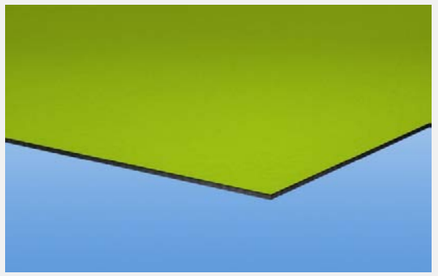
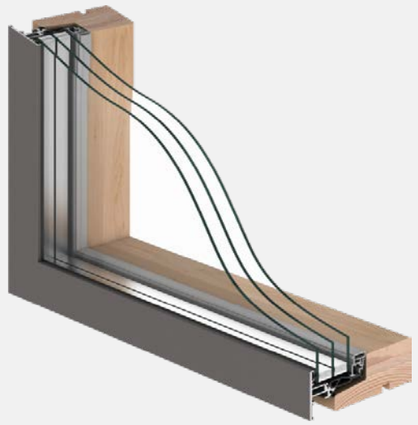
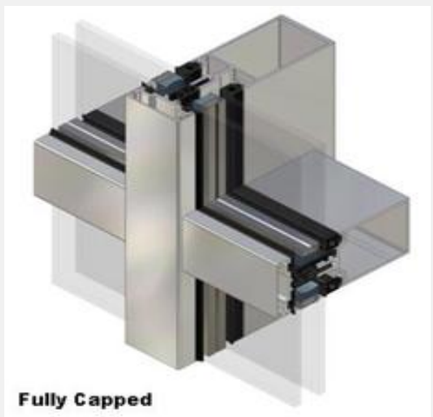
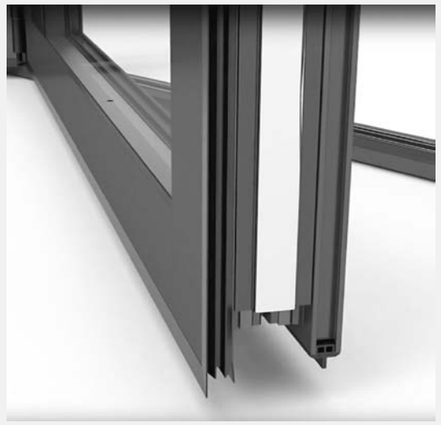
4	Slate	Residential Buildings (pitched Roof and feature high level walls)	Type: Marley Eternit Fibre Cement Slate Range: Thrutone Colour: Blue / Black PPC Trims: RAL 7021 (30% gloss) 	5. Vertical Fibre Cement Slate Cladding / H61 EWS-351 6. Pitched Fibre Cement Slate Roof / H61 RFS-511		
5	Zinc	Residential buildings - infill panels to kitchens and oriel window cladding	Type: VM Zinc Colour / finish: Anthracite 	7. Zinc Cladding - Standing Seam / H74 EWS-431 11. Zinc Clad Oriel Window / L10 EWS-154		
6	Vertical Fins	Amenity Block Brise Soleil	Material / Finish to be Confirmed	tbc		
7	Louvres	Energy Centre	Type: Colt Rain deference weather louvre system Colour: RAL 7021 (30% gloss) 	26. Metal Louvres / L13 EWS-601		

8	Trespa	Amenity Block coloured entrance	Type: Trespa Meteon Range: Uni Colours Colour: Lime Green A37.0.8 	9. Solid Laminate Rainscreen Cladding / H92 EWS-432		
9	Windows	Residential buildings	Type: Velfac Hybrid Window Finish: PPC Colour: RAL 7021 (30% gloss)	10. Aluminium Timber Hybrid Window / L10 EWS-154		
10	Curtain Walling	Residential buildings	Type: Kawneer AA100 50mm Aluminium Capped Curtain Wall System Finish: PPC Colour: RAL 7021 (30% gloss)	12. Curtain Walling / H11 EWS-103		

11	Glazed Doors	Residential buildings	Type: Kawneer Doorset Finish: PPC Colour: RAL 7021 (30% gloss)	15. Glazed Door / L25 DRS-221		
12	Solid Doors	Residential buildings + Energy Centre	Type: Kawneer Doorset Finish: PPC Colour: RAL 7021 (30% gloss)	17. Metal Door / L25 DRS-402	For more information refer to drawing: P00_00_(31)_Z0_A_600 - External Door Types	
13	Louvered Doors	Residential buildings + Energy Centre	Type: Kawneer Doorset Finish: PPC Colour: RAL 7021 (30% gloss)	18. Louvred Metal Door / L25 DRS-421	For more information refer to drawing: P00_00_(31)_Z0_A_600 - External Door Types	

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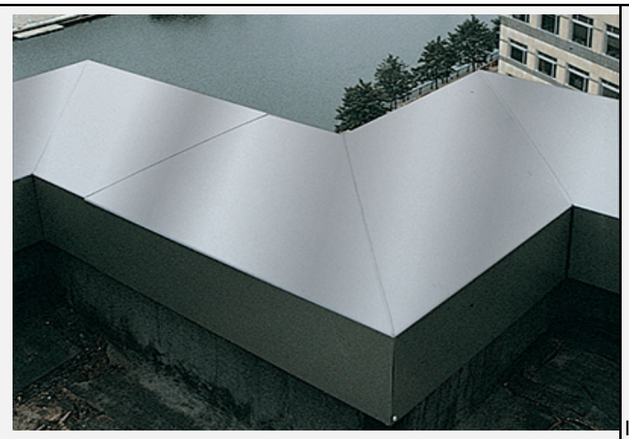
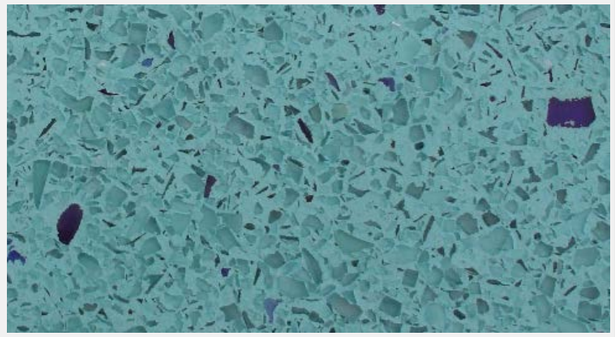
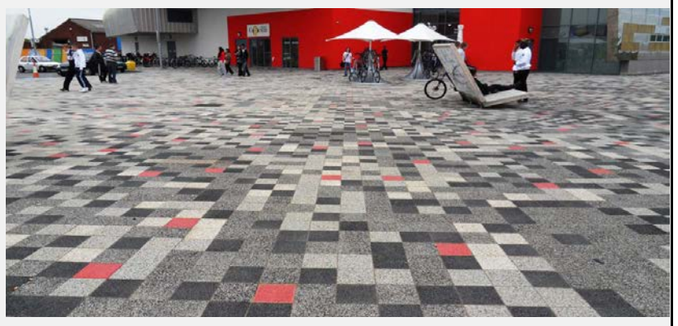
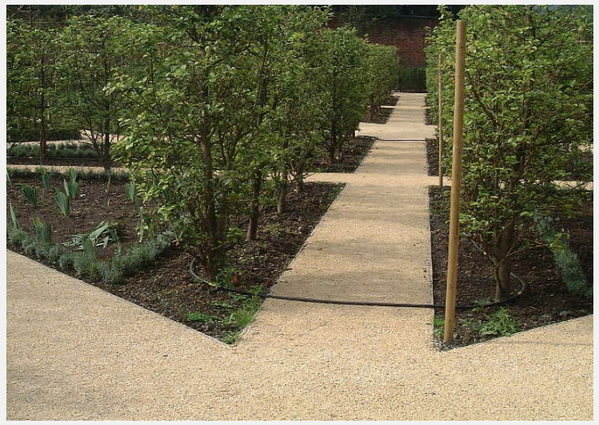
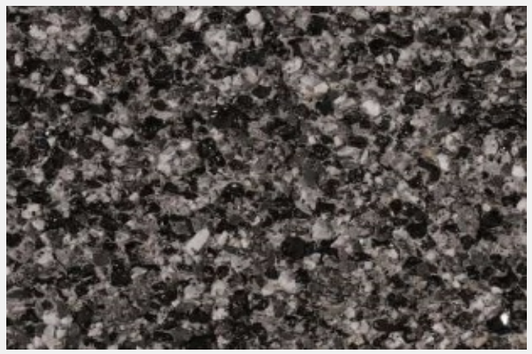
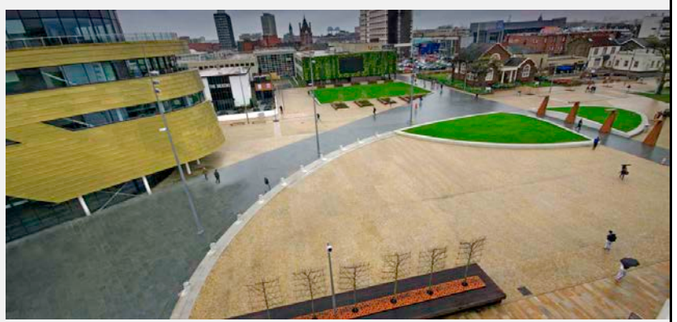
14	Parapet Capping	Residential buildings + Energy Centre	Type: Skyline Finish: PPC Colour: RAL 7021 (30% gloss)	22. PPC Aluminium Coping / H72 EWS-412		 Islington Wharf Muse
15	Insulated Aluminium Panel	Amenity Hub	Finish: PPC Colour: RAL 7021 (30% gloss)	tbc		
16	Rainwater Downpipes	Residential buildings	Type: Alumasc Range: Guardian Profile: Square Finish: PPC Colour: RAL 7021 (30% gloss)	22. Rainwater Goods / R10 RWS-112, R10 RWS-127		
17	Rainwater Hoppers	Residential buildings	Type: Alumasc Range: Bespoke Finish: PPC Colour: RAL 7021 (30% gloss)	22. Rainwater Goods / R10 RWS-112, R10 RWS-127	For more information refer to drawing: PH1_00_(27)_Z0_A_500 - (27) SD02 - Typical Valley Gutter Outlet Detail	

18	Building Mounted Lights	Residential buildings + Energy Centre	Type: Designplan Lighting Range: Talos Wall Finish: PPC Colour: Black	Refer to BDP MEP Specification.		

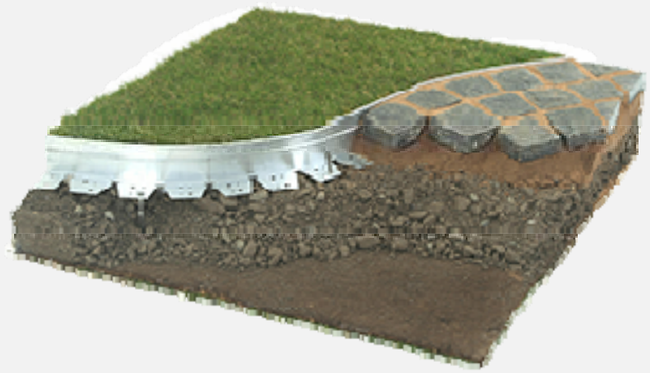
Landscape Hard Surface Materials

1	CONCRETE FLAGS TYPE 1 FOR HEAVILY TRAFFICKED AREAS WITH 100% NATURAL STONE COATING	Main entrance areas requiring occassional vehicular overrun	Product reference: Kellen Breccia. Recycled content: 15% minimum. Colour: Grigio, Bianco, Tagenta B, Tagenta E. Finish: As manufactured. Nominal sizes: 200mm width x 400mm length (laid with staggered joints) x 100mm depth. Manufacturer: Hardscape, or similar approved. Tel: 01204 565 500 enq@hardscape.co.uk.	Q25/120J, 315J		
2	CONCRETE FLAGS TYPE 2 FOR PEDESTRIAN AND LIGHTLY TRAFFICKED AREAS WITH 100% NATURAL STONE COATING	Pedestrian only areas	Product reference: Kellen Breccia. Recycled content: 15% minimum. Colour: Grijs, Bianco, Tagenta B, Tagenta C, Tagenta E. Finish: As manufactured. Nominal sizes: 150mm width x 300mm length x 80mm depth. Manufacturer: Hardscape, or similar approved. Tel: 01204 565 500 enq@hardscape.co.uk.	Q25/122J, 317J		

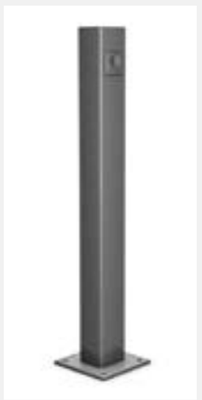
3	FEATURE PAVING FOR KEY HUB ENTRANCE AREAS	Key Hub Entrance Areas	Product reference: Crystalpave. Recycled content: 100%, as manufactured. Colour: Final colour to coordinate with interior entrance of Amenity Hub. Finish: Brushed. Sizes: 200mm x 400mm x 100mm - to match Kellen Breccia paving dimensions. Manufacturer: Hardscape, or similar approved. Tel: 01204 565 500 enq@hardscape.co.uk.	Q25/125J, 355J		
4	DECK FOR SEATING AREAS	Flush decking within external seating areas in phase 1	Product reference Reliaboard Grey Material : Composite wood/plastic timber decking Treatment : Clear Matt finish fire retardant spray to be applied to surface in accordance with instructions. www.fireproofspray.co.uk Profile : As supplied with 2 tone colour/texture Board Size : 134 x 3600 x 24mm Colour : Grey. Fixings : Concealed Stainless steel screw fixings and clips.	Q55/110J		
5	PROPRIETARY COLOURED ASPHALT PAVING - 'CT2'	Pedestrian Areas requiring heavy vehicular access	Product reference: 'Ulticolour' Coloured Asphalt. Compacted thickness: 30mm thick (using 10mm SMA Stone Mastic Asphalt) Colours: CT2 - Buff gravel. Manufacturer: Lafarge Tarmac . Tel: 0800 1 218 218. www.lafargetarmac.com, or equivalent approved.	Q22/170J		

6	PROPRIETARY COLOURED ASPHALT PAVING - 'CT1'	Pedestrian Areas requiring light vehicular access	Product reference: 'Ulticolour' Coloured Asphalt. Compacted thickness: 25mm thick (using 6mm SMA Stone Mastic Asphalt) Colours: CT1 - White Manufacturer: Lafarge Tarmac . Tel: 0800 1 218 218. www.lafargetarmac.com, or equivalent approved.	Q22/175J		
7	SELF BINDING GRAVEL	Maintenance footpaths with occasional MEWP access and to external seating areas	IMAG Self binding gravel Colour: Golden Amber Size: Dust to 6mm Manufacturer: IMAG Ltd or similar approved. Tel +44 01260 278810.	Q23/110J		
8	CONCRETE BLOCK 'SE' Sett Edge - Laid Flush	Main entrance areas requiring occassional vehicular overrun	Product reference: Kellen Breccia 'Tagenta C'. Recycled content: as supplied. Size: 150mm wide x 300 long x 80mm deep, laid as a single row, running bond, laid wide end to wide end. Finish: Textured aggregate Colour: Tagenta C Manufacturer: Hardscape, or similar approved. Tel: 01204 565 500 enq@hardscape.co.uk.	Q10/151J		

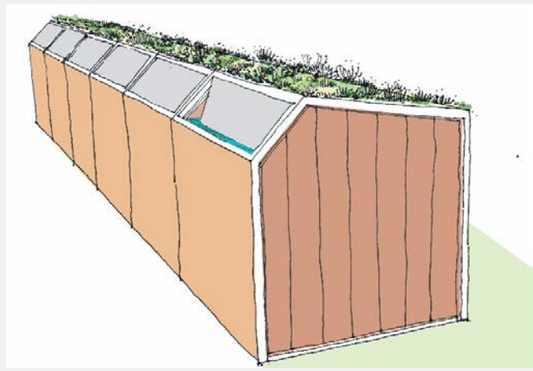
9	LOOSE GRAVEL	To building margins and perimeters	Gravel: Loose laid and raked to uniform thickness. Type: Granite. Manufacturer: Derbyshire Aggregates or similar approved. Tel: 01629 636500. Colour: Silver grey. Size: 20mm. Thickness: 70mm over permeable geotextile membrane Note: Gravel to be laid 70mm below adjacant grass areas, for ease of mowing.	Q23/160		
10	PRECAST CONCRETE KERB	As shown on GA	K1' - British standard Half Battered Kerb laid as 125mm upstand. - Size (width x height x length): 125 x 255 x 915mm 'K2' - British standard Bullnosed Centre Concrete Unit , Laid flush. - Size (width x height x length): 125 x 150 x 915mm 'DK' - British standard Half Battered to Bullnosed Transition Kerb - Size (width x height x length): 255 x 205/150 x 915mm . Special shapes: Radius kerbs to be used to obtain smooth curves on radii of 15m or less. Finish: smooth finish as supplied. Colour: natural concrete as supplied. Manufacturer: Marshalls or similar approved. Tel +44 (0)870 241 4725.	Q10/112J		
11	ASPHALT CONCRETE PAVING	Vehicular roads	To Highways Agency (HA) 'Specification for highway works'	Q22/110		

12	FLEXIBLE METAL EDGE RESTRAINT 'ME'	Used to segragate different macadam colours, and form an edge restraint between hard and soft landscape.	Product description: AluExcel AE25M - Flexible aluminium edging suitable for occassional vehicular overrun. Size: Height: To suit adjacent paving material. Thickness: 5 mm Length: 2.5 m. Grade: 6005A grade recycled aluminium. Colour: natural Manufacturer: Excel Edge or similar approved. Tel +44 (0) 1424 201111 .	Q10/160J		
13	TIMBER EDGE	Used between areas of soft landscape and grass	Material: Tanalised Treated Softwood board Size: 150 x 38 mm. Fixing: Galvanized nails into softwood pegs. Manufacturer: Contractor's choice	Q10/226J		
14	PRE-GROWN REINFORCED GRASS SYSTEM	Maintenance footpaths with occasional MEWP access	Product reference: Golpla pre-grown system. Module cell size: (length x width x depth) 640 x 330 x 38 mm Modules per m²: 60 - (Width 63mm) Topsoil: Pre-grown reinforced grass cells to include good quality clean friable topsoil - 38mm depth - as supplied by manufacturer . Manufacturer: Geosynthetics, sales@geosyn.co.uk, 01455 617139 or similar approved.	Q30/361J		

Landscape Street Furniture/ Barriers/ Fencing/ Access control						
	Item	**Location**	**Material / Finish**	**Specification Reference**	**Product Reference Images**	**Product Precedent Images**
15	SEATING 'S1' Timber and steel S-shaped bench for Phase 1	External seating areas in phase 1	Product reference: Clifton Hardwood Bench, S-Shaped. Material: Stainless steel and Cumaru hardwood. Finish: Stainless steel. Natural laquered finish to timber as manufacturered. Colour: None. Size: Between 2000mm and 8000mm. Manufacturer: Woodscape or similar approved. Tel: 01254 685185.	Q50/221J		
16	PICNIC TABLE 'S3' Circular steel/timber picnic table	External seating areas in phase 1	Product reference: Piper circular table with 4No. curved bench seats. Material: Steel and hardwood timber. Finish: Galvanised steel frame, natural laquered finish to timber as supplied. Colour: As supplied. Size: As supplied. Manufacturer: Pendlewood or similar approved. Tel: 01695 557 500 .	Q50/223J		
17	BOULDER SEATING 'S9' Natural boulder seating to Phase 1	External seating areas in phase 1	Product reference: Granite feature boulder - rounded seating. Code: 1906. (Size: 1000mm x 600mm x 300mm) . 30% of total number shown on drawings. Code: 1917. (Size: 1600mm x 800mm x 400mm). 30% of total number shown on drawings. Code: 1901. (Size: 1200mm x 1000mm x 500mm). 40% of total number shown on drawings. Material: Natural granite boulder . Finish: Smooth, with flat top as supplied . Colour: Natural . Manufacturer: Specialist Aggregates, or similar approved. Tel: 01889 580660.	Q50/232J		

18	DISABLED PARKING BOLLARD 'DPB' - Disabled Parking Bollard	Disabled parking bays	Product reference: ZEN 701. Material: grade 316 stainless steel. Finish : Satin Height above ground: 900mm Diameter: 115mm. Special feature: incorporating a 'Disabled Parking Only' logo to be fixed with bracket to the top, to manufacturer's details Manufacturer: Furnitubes or similar approved. Tel: 02083783200	Q50/191J		
19	AUTOMATIC RETRACTING BOLLARD 'AB'	To the exit point adjacent to the Armitage centre	Product reference: Stainless steel hydraulic bollard with powered automatic drop. Final power / access requirements to be verified by University at next stage. Type: Hydraulic. Material: Stainless steel. Finish as delivered: brushed. Colour: None. Height above ground: 900 mm x 270mm wide. Special features: white reflective band. Manufacturer: Jacksons or similar approved, Tel: 0800 408 2236.	Q50/193J		
20	AUTOMATIC CONTROL BOLLARD 'AC'	To rear of Amenity Hub Building	Product reference: Stainless steel post with electronic access control (Requirements TBC by UoM). Height: 1000mm from ground level. Material: Stainless steel - grade 316. Finish: Satin polished as supplied. Manufacturer: Apex security or similar approved. Tel: 01162783506.	Q50/214J		

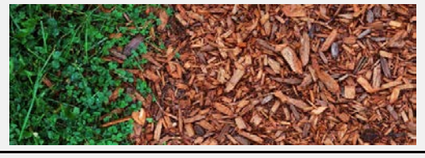
21	CYCLE STANDS 'CS'	To residential buildings entrances	Product reference: Ollerton Sheffield Style Hoop with Tapping Rail 750mm high x 750mm wide. Material: Stainless Steel - grade 316 . Finish: Satin polished, as supplied. Colour: Not applicable. Manufacturer: Marshalls or similar approved. Tel: 0845 3020600.	Q50/210J		
22	COVERED CYCLE STORE CIRCULAR 'CC'	As shown on GA	Product: Bespoke composite timber cladding with a steel frame and polycarbonate roof. Wires to be fixed vertically to the outer cladding face in accordance with design intent drawing, to support climbing plants.	Q50/212J		
23	DOOR GUARD 'DG and DGE'	At doorways	Product reference for 'DG': Safety barrier rail with glass infill panel]. Material: [Stainless steel - grade 316]. Finish: [Satin polished as supplied]. Colour: [None]. in fill panel toughened glass Product reference for 'DGE' : Door Guard as above with integrated electronic push button access control. Manufacturer: Apex security or similar approved. Tel: 01162783506.	Q50/213J		

24	BIN COMPOUND 'BC'	To each residential courtyard	Product: Bespoke Bin Compound to design intent drawing PH1_00_(9-)_Z0_L_701 Bin Compound Details. Material: Galvanised steel frame, clad with composite timber boards and incorporating a sedum roof tray. Each store to hold 1100L 660L and 240L bins in accordance with Landscape drawings. Nominal height: 1500mm	Q50/243J		
25	OPEN MESH STEEL PANEL GENERAL PURPOSE FENCING	To Phase 1 NE boundary	Product reference: Exemplar Profiled Panel. Standard: To BS 1722-14, category 1. Height: 1800mm high. Mesh and wire: Panel width: 2485 mm Mesh size: 200 x 55 mm Wire diameter: 5 mm Polyester Powder Coated galvanized steel Colour: PPC RAL 9007. Manufacturer: CLD, or similar approved. Tel: 01270 764751 www.cld-fencing.com.	Q40/125J		
26	CIGARETTE BIN 'CB'	For all courtyard doorways	Product reference: Ashton. • Material: Steel. - Finish: Powder galvanized prime and polyester powder coat. - Colour: Grey. • Accessories/ Special requirements: Concealed, vandal proof fixings. • Method of fixing: Base plate fixed as standard. Manufacturer: Broxap or similar approved. Tel: 0844 800 4085.	Q50/244J		

27	EXTERNAL TAP 'T'	As shown on GA	Product reference: Iceberg Standpipe with ¾" Snap Coupling - ICE34. Shell Material: Pre-Galvanised Mild Steel (2mm Thickness). Unit length: 930mm (150mm above ground profile - 780mm installed below ground) Unit Section: 220mm x 145mm Outlet tap cover: 225mm x 160mm x 28mm Manufacturer: Edwards Standpipes or similar approved.	Q50/255J		
28	WHEEL STOP 'WS'	To Energy Centre parking bays	Product reference: Park It 1800mm Rubber Wheel Stop (White) Product Code: P- 756551. Material: Compression moulded composite of the 100% recycled rubber and polyurethane prepolymer. Finish and colour: Black, with white reflective bands. Manufacturer: Pitman Traffic Control. www.pittmantrafficcontrol.co.uk	Q10/315J		
29	LINEAR DRAIN 'LD'	As shown on GA	Product reference: Brickslot. Bore: 200. Finish: As cast. Colour: Galvanised Steel. Manufacturer: Aco or similar approved. Tel +44 01462 816666.	Q10/170		

Landscape Soft Materials

	Item	Location	Material / Finish	Specification Reference	Product Reference Images
30	Ornamental and shrub Mix Planting	As shown on GA	Sensory shrubs and herbaceous planting has been used to add seasonal interest around seating areas, cycle parking, waste compounds and at pathway junctions. Low maintenance robust shrub and perennial species have been mixed to create a year round colourful scheme with interesting foliage textures and architecture. Refer to Planting Schedule for details of species and sizes. (SCH)_L_004	Q31	 
31	Hedges	As shown on GA	Ornamental hedges are used to define boundaries between public and semi-private areas. Species to include: Fagus sylvatica. Refer to Planting Schedule for details of sizes. (SCH)_L_004.	Q31	
32	Swale mix	As shown on GA	A mix of native and ornamental water tolerant grass and perennial species has been introduced to the swales to assist with sustainable drainage as well as Improve biodiversity.	Q31	
33	Species rich grassland	As shown on GA	A species rich grassland will be sown around the trees and areas of mounding. This will not only add ecological value and colourful, seasonal interest but also help soften the character of the landscape.	Q31	
34	Bulb planting	As shown on GA	Bulb planting creates bold splashes of colour In the spring. These Informal drifts have been positioned close to footpaths and surrounding the naturalistlc swales. Refer to Planting Schedule for details of species and sizes. (SCH)_L_004.	Q31	

35	Trees	As shown on GA	The inclusion of trees contributes to the pedestrian scale of the space as well as provide vistas and focal points. The change in colour throughout the seasons emphasises the year round interest created in the space. Tree sizes vary from 16-18cm girth to 30-35cm girth. Refer to Planting Schedule for details. (SCH)_L_004	Q31		
36	Native hedgerow	To Phase 1 NE boundary	The inclusion of trees contributes to the pedestrian scale of the space as well as provide vistas and focal points. The change in colour throughout the seasons emphasises the year round interest created in the space. Refer to Planting Schedule for details of sizes. (SCH)_L_004	Q31		
37	Woodland belt mix	To Phase 1 NE boundary	A woodland belt mix is introduced along the native hedgerow to enhance the boundary screening and boost the local biodiversity. Refer to Planting Schedule for details of sizes. (SCH)_L_004	Q31		
39	Mulch	All tree pits and planting beds	50mm depth bark chippings, 3-35mm. Supplied by Melcourt Industries or similar approved, tel: 44(0)1666 502711	Q31		
38	Topsoil	All tree pits and planting beds	All topsoil, either re-used from site or imported from off-site, to be scientifically tested to ensure it is fit for purpose as a growing medium	Q28		