LIGHTING DESIGN Specification of Luminaires Rev. E

Project: Client: Architect: Date: Ref: Fitzjohns Avenue Pegasus Life Ltd Sergison Bates Architects LLP 05 April 2016 925/JS

Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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1. GENERAL CONDITIONS

- 1.1 The specification sheets indicating the lighting design requirements for specific areas within this project form part of this document and should be read in conjunction with this preamble and the Lighting Consultant's relevant drawings, and associated sketches.
- 1.2 This specification supersedes all previous issues.
- 1.3 All quantities shall be checked against the constru21`ction drawings.
- 1.4 Final locations and details associated with all lighting equipment is to be confirmed with the design team.
- 1.5 Manufacturers selected shall be capable of understanding project requirements and demonstrate satisfactory production of the specified lighting equipment for a period of not less than 5 years prior to date of issue. Said manufacturers shall be required to provide not less than 24 months guarantee of equipment performance from the completion of commissioning.

2 SAMPLES & PROTOTYPES

- 2.1 All lighting equipment shall be currently available working samples will be required for submission and are to be approved by the Client/Architect.
- 2.2 Should a sample of a standard, or prototype of a special luminaire or variant of a standard luminaire be ordered, its cost shall either be incorporated in a tender price, or shall be invoiced to the Client or his nominated representative separately, as agreed.
- 2.3 Any such sample prototype or variant shall comply with the lighting design specification, and shall be submitted to the Lighting Consultant, together with full photometric and dimensional data if specifically requested, to enable both its accurate assessment and the detailing of any adjustments deemed necessary prior to the commencement of full production.

3 STANDARDS COMPLIANCE

3.1 For projects in the United Kingdom, all equipment supplied shall comply with the relevant BS, EN and IEC requirements, and be capable of installation in accordance with the manufacturers' instructions, the current edition of the IEE Wiring Regulations

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and all statutory and local authority requirements. Standards requirements particular to individual luminaire types are indicated on the relevant specification sheet.

- 3.2 Not withstanding the above, the following British Standards in particular should be checked for compliance:
 - BS 559 Electric signs and high voltage luminous discharge tube installations.
 - BS 3535 Safety isolating transformers for industrial and domestic purposes.
 - BS 4533 Luminaires.
- 3.3 For projects outside the United Kingdom, all equipment supplied shall comply with the relevant standards currently in force in the project's country of origin.
- 3.4 The cost of obtaining any necessary approvals shall be included in any tender price, detailed as a separate item.

4 **PROTECTION**

- 4.1 All equipment shall be supplied with adequate means of protection to ensure its preservation during transport to site and any subsequent storage prior to installation.
- 4.2 All vulnerable finished parts liable to scratching or other abrasion during handling and installation shall be further protected by a removable film applied prior to dispatch.

5. TECHNICAL REQUIREMENTS

- 5.1 Luminaires
 - 5.1.1 Equipment selected as a standard item from a particular manufacturer's range has been specified with a view to performance, optics, maintenance, quality, aesthetics, etc.
 - 5.1.2 Should alternative equipment be offered, full technical and photometric data shall be submitted to IlluminationWorks in time to enable its accurate assessment. If any variants of standard luminaires are required, these shall be developed by the manufacturer of the standard luminaire, unless otherwise specifically stated, and shall be manufactured to the same standards as the equivalent standard luminaire.
 - 5.1.3 If specified, two copies of all working drawings of proposed variants dimensioned in mm, shall be supplied to IlluminationWorks for approval <u>prior</u> to fabrication.

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- 5.1.4 Notwithstanding the above, the manufacturer shall remain responsible for ensuring compliance with relevant standards, the accuracy of the information shown on his drawings at all times including installation instructions and for ensuring that the equipment shown fulfils the requirements of this specification.
- 5.1.5 IlluminationWorks cannot accept responsibility for faults relating to the improper installation of lighting equipment.
- 5.1.6 The final location of each luminaire and, where relevant, its integration with the architecture shall be as detailed on the construction issue drawings. IlluminationWorks cannot accept responsibility for luminaires installed in a manner other than indicated in the relevant drawings or as otherwise agreed and recorded.
- 5.1.7 IlluminationWorks cannot accept responsibility for faults relating to the improper installation of lighting equipment.
- 5.1.8 Minimum gauge sheet steel; 22 gauge for fluorescent; 18 gauge for tungsten. All ballast and control gear compartments shall be adequately ventilated for normal application and shall be easily accessible for maintenance. All metal work shall be sound and free from imperfections and discolouration.
- 5.1.9 All lighting equipment shall be supplied with a final, synthetic high temperature baked enamel coating of colour and finish as directed. Provide white baked enamel reflective surfaces, aluminium reflectors excepted. Final exterior finish and colour may be required to match specific architectural requirements. Contractor to have Architect and/or interior designer to verify final finish of each light fixture before the order is placed.
- 5.1.10 The contractor is to verify compatibility of all light fittings with the construction and materials of all surfaces, including ceilings, walls and floors, to which the light fittings are to be mounted or recessed.
- 5.1.11 All exterior lighting equipment shall be designed and manufactured specifically for use in exterior environment and shall have materials, parts and general construction suitable for this requirement.
- 5.2 Control Gear
 - 5.2.1 All necessary control gear and transformers shall be mounted within the luminaire unless shown as being located remote or adjacent. All such gear shall be of good quality construction, shall comply with all relevant statutory

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regulations, shall be compatible with the lamps specified, and shall be mounted and wired in accordance with the manufacturers' instructions.

- 5.2.2 Where appropriate, the luminaire manufacturer shall ensure compatibility between control gear and the proposed control system. The manufacturer shall also provide all necessary data regarding gear losses, etc. to enable dimmers / contactors to be sized correctly.
- 5.2.3 Transformers shall have a stable output voltage of 11.8V / 22.8V, under varying loads, where the output voltage is nominally quoted at 12V / 24V.
- 5.2.4 Unless otherwise stated, all transformers shall be suitable for dimming on their primary side via a thyristor controlled remote lighting control system.
- 5.2.5 Where gear or transformers are installed remotely, care should be taken to ensure that any audible sounds generated by control gear, or by lamp filaments via control gear are kept to a minimum. Where this is particularly crucial, detailed acoustic requirements are included in the Specific Conditions.
- 5.2.6 All equipment shall be protected from unexpected mains failure, and mains borne interference.
- 5.2.7 Electrical supply connections shall be designed to facilitate the easy installation of the luminaires. The supplier shall liaise with the Electrical Engineer to ensure any specific requirements of his in this respect are met.
- 5.3 Lamps
 - 5.3.1 A complete set of lamps shall be supplied at the completion of construction work prior to practical completion
 - 5.3.2 The following lamp manufacturers are approved; Osram; Philips; General Electric; Sylvania; Venture; and BLV.
 - 5.3.3 Incandescent and tungsten halogen lamps shall not be operated, other than for initial testing, prior to final inspection.
 - 5.3.4 Should alternative lamps be offered, these shall require the approval of IlluminationWorks except where noted below, provided particular attention is paid to colour rendering, colour temperature, light distribution, life expectancy and general performance when selecting such alternatives.

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- 5.3.5 For fluorescent and HID sources, alternative lamps may only be substituted if full technical data is first supplied to IlluminationWorks to enable their accurate assessment and approval.
- 5.3.6 All fluorescent lamps shall be tri-phosphor, colour 85 or equivalent and suitable for use with electronic ballast.
- 5.3.7 For low voltage reflector lamps, alternative may only be substituted where the lamp has the same lumen output, beam angle, lamp cover and shield characteristics as the lamp specified.
- 5.3.8 Allowance shall be made for the specialised installation of lighting as required (i.e. cold cathode). Such installation may require the services of a specialised sub contractor.
- 5.3.9 Refer electrical engineers documentation for emergency lighting requirements and provisions.
- 5.3.10 IlluminationWorks recommends that a lamp recycling/disposal regime be assessed by the client/building operator prior to completion of the project. Services provided by various lamp recycling contractors vary and the suitability for a particular project and the completeness of their recycling processes should be assessed by the operator.

Disposal of twenty fluorescent, or metal halide, lamps or greater is considered hazardous waste disposal and must be carried out at a licensed landfill site or through a licensed recycling company.

Recommended lamp recycling contractors include but are not limited to:

The Lamp Recycling Company

7 Bessemer Park Bessemer Road Basingstoke, RG21 3NB United Kingdom

Recyclite Limited

36-38 Maurice Gaymer Road, Gaymers Industrial Estate, Attleborough, Norfolk NR17 2QZ United Kingdom

Project: Architect: Date: Page:	•		
FITTING CO	DE	D1	
LOCATION:		Wellness Centre – Throughout	
MANUFACT	URER:	Lucent (Robbie Ormrod – Tel: +44 208 442 0880)	
REFERENC	E:	FITTING: Prospex Pinhole Edge Accent for LED50 - 91413-A-LED- WH-9000-PCZ + HONEYCOMB LOUVER LED MODULE: LED51-27-24	
DESCRIPTIC	ON:	Recessed adjustable accentlight with flush trim plate and die-cast interior baffle to eliminate glare, honeycomb louver, trim installation flush with the ceiling, requires adjacent electronic transformer and honeycomb louver. Allow 25 mm clearance above fitting.	
FINISHES:		White TBD by Architect	
DIMENSION	S:	90mm H x 92mm \oslash W; 83mm \oslash W to cut-out	
LAMP TYPE	& REF:	13.5 watt 2700K LED50-ONE flood 24º 80CRI	
POWER:		13.5 watt / 350mA	
FIXING MET	HOD:	Recessed within plaster ceiling with flush trim. Requires skim-coating of ceiling around fitting (see manufacturer's installation instructions).	
COMMENTS	5:	CE Labelled. Circuited to control system.	

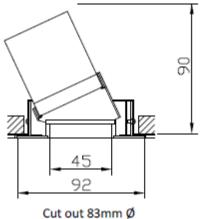
Specification of Luminaires

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FITTING CODE D1

IMAGE:





Trimless Fixture with 9000-PCZ

Project: Architect: Date: Page:	Sergisor	tzjohns Avenue ergison Bates Architects 5 April 2016 OF 106	
FITTING CO	DE	D2	
LOCATION:		Apartment Sitting Room	
MANUFACTU	JRER:	Lucifero's	
REFERENCE	Ξ:	Nyx T50 Tube – LTN54T	
DESCRIPTIC	DN:	Recessed directional round trimless downlight, light source in recessed position to eliminate glare, honeycomb louver, requires adjacent electronic transformer and honeycomb louver. Allow 25 mm clearance above fitting.	
FINISHES:		TBD by Architect	
DIMENSION	S:	130mm H x 55mm \varnothing W – total recessed 100mm H x 55mm \varnothing W - semi-recessed	
LAMP TYPE	& REF:	9 watt LED MR16 flood 25º 12 volt 2700K GU5.3 base (SORAA ref: SM16-09-25D-927-03-S3) - NO SUBSTITUTIONS!	
POWER:		9 watt / 12 volt	
FIXING MET	HOD:	Ceiling semi-recessed.	
COMMENTS	:	CE Labelled. Circuited to control system.	

Specification of Luminaires

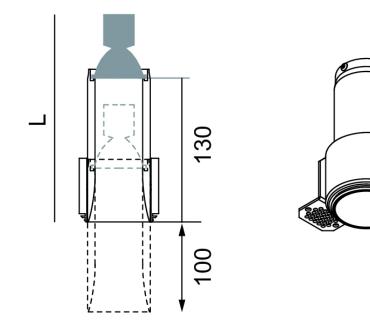
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FITTING CODE D2

IMAGE:



ILLUSTRATION:



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Project: Architect: Date: Page:			
FITTING CO	DE	D3	
LOCATION:		Apartment Bedroom	
MANUFACT	URER:	Lucent (Robbie Ormrod – Tel: +44 208 442 0880)	
REFERENC	E:	FITTING: Prospex Pinhole Edge Accent for LED50 - 91413-A-LED- WH-9000-PCZ + HONEYCOMB LOUVER LED MODULE: LED51-27-24	
DESCRIPTIO	ON:	Recessed adjustable accentlight with flush trim plate and die-cast interior baffle to eliminate glare, honeycomb louver, trim installation flush with the ceiling, requires adjacent electronic transformer and honeycomb louver. Allow 25 mm clearance above fitting.	
FINISHES:		White TBD by Architect	
DIMENSION	S:	90mm H x 92mm \varnothing W; 83mm \varnothing W to cut-out	
LAMP TYPE	& REF:	13.5 watt 2700K LED50-ONE flood 24º 80CRI	
POWER:		13.5 watt / 350mA	
FIXING MET	HOD:	Recessed within plaster ceiling with flush trim. Requires skim-coating of ceiling around fitting (see manufacturer's installation instructions).	
COMMENTS	S:	CE Labelled. Circuited to control system.	

Specification of Luminaires

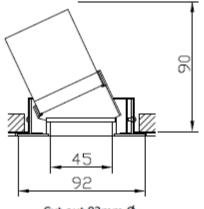
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FITTING CODE D3

IMAGE:



ILLUSTRATION:



Cut out 83mm Ø Trimless Fixture with 9000-PCZ

Project: Architect: Date: Page:			
FITTING CO	DE	D4	
LOCATION:		Wellness Centre - Showers	
MANUFACT	URER:	Lucent (Robbie Ormrod – Tel: +44 208 442 0880)	
REFERENCI	E:	FITTING: Prospex Pinhole Edge Accent IP54 for LED50 - 91413-A- LED54-WH-9000-PCZ + HONEYCOMB LOUVER LED MODULE: LED51-27-24	
DESCRIPTIC	ON:	Recessed adjustable accentlight with flush trim plate and die-cast interior baffle to eliminate glare, honeycomb louver, trim installation flush with the ceiling, requires adjacent electronic transformer and honeycomb louver. Allow 25 mm clearance above fitting.	
FINISHES:		White TBD by Architect	
DIMENSION	S:	90mm H x 92mm \oslash W; 83mm \oslash W to cut-out	
LAMP TYPE	& REF:	13.5 watt 2700K LED50-ONE flood 24º 80CRI	
POWER:		13.5 watt / 350mA	
FIXING MET	HOD:	Recessed within plaster ceiling with flush trim. Requires skim-coating of ceiling around fitting (see manufacturer's installation instructions).	
COMMENTS	S:	CE Labelled. Circuited to control system.	

Specification of Luminaires

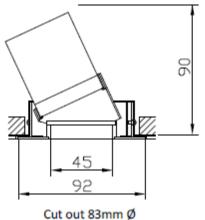
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FITTING CODE D4

IMAGE:



ILLUSTRATION:



Trimless Fixture with 9000-PCZ

Project: Architect: Date: Page:	Sergiso 05 Apr	itzjohns Avenue ergison Bates Architects 5 April 2016 5 OF 106	
FITTING CO	DE	FL1	
LOCATION:		Communal Lobby	
MANUFACTU	JRER:	Santa & Cole	
REFERENCE	Ξ:	Tripode G5	
DESCRIPTIC	DN:	Free standing glowing floor decorative luminaire.	
FINISHES:		TBD	
DIMENSION	S:	1680mm H x 620mm Ø W	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING MET	HOD:	Free standing.	
COMMENTS	:	CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

Specification of Luminaires

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FITTING CODE **FL1**

IMAGE:





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FITTING CO	DE	FL2	
LOCATION:		Communal Lounge Hall	
MANUFACT	URER:	Santa & Cole (TBD by Architect)	
REFERENCE	Ξ:	Tripode G5	
DESCRIPTIC	ON:	Free standing glowing floor decorative luminaire.	
FINISHES:		TBD	
DIMENSION	S:	1680mm H x 620mm Ø W	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING MET	HOD:	Free standing.	
COMMENTS	:	CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

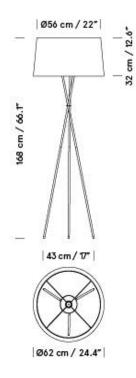
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FITTING CODE FL2

IMAGE:





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FITTING CO	DE	FL3	
LOCATION:		Apartment Living Room	
MANUFACT	JRER:	Santa & Cole (TBD by Architect)	
REFERENCE	Ξ:	Tripode G5	
DESCRIPTIC	DN:	Free standing glowing floor decorative luminaire.	
FINISHES:		TBD	
DIMENSION	S:	1680mm H x 620mm Ø W	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING MET	HOD:	Free standing.	
COMMENTS		CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

Specification of Luminaires

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FITTING CODE **FL3**

IMAGE:





Specification of Luminaires

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FITTING CO	DE	FL4	
LOCATION:		Apartment Studio	
MANUFACT	URER:	Santa & Cole (TBD by Architect)	
REFERENCE	E:	Tripode G5	
DESCRIPTIC	ON:	Free standing glowing floor decorative luminaire.	
FINISHES:		TBD	
DIMENSION	S:	1680mm H x 620mm Ø W	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING MET	HOD:	Free standing.	
COMMENTS	8:	CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with	

additional wiring for 1-10V dimming compatibility.

Specification of Luminaires

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FITTING CODE **FL4**

IMAGE:





Specification of Luminaires

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FITTING CO	DE	FL5 - TBD
LOCATION:		Wellness Centre
MANUFACTU	JRER:	TBD by Architect
REFERENCE	:	TBD by Architect
DESCRIPTIC	DN:	Free standing floor decorative luminaire.
FINISHES:		TBD by Architect
DIMENSION	S:	TBD by Architect
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)
POWER:		17 watt / 240 volt Allow
FIXING METH	HOD:	Free standing.
COMMENTS:		CE Listed. Circuited to control system.

Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.

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FITTING CO	DE	J1	
LOCATION:		Various	
MANUFACT	URER:	TBD	
REFERENCI	E:	TBD	
DESCRIPTIC	ON:	Junction box for pendant light power feed.	
FINISHES:		TBD	
DIMENSION	S:	TBD	
LAMP TYPE & REF:			
POWER:		1200W MAX / 5AMP	
FIXING MET	HOD:		
COMMENTS	8:	CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

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FITTING COI	DE	L1	
LOCATION:		Various Joinery	
MANUFACTU	JRER:	LED STRIP: Ledridge (Sean Colbert – Tel: (0)116 246 1188) HOUSING: Taylor lighting	
REFERENCE	Ξ:	LED STRIP: FLRXP1M-24-2700K-LTBD (LED96 series) HOUSING: Opal Lid 1413FR1- LTBD + End Caps + Mounting Clip	
DESCRIPTIC	DN:	Surface mounted low voltage linear warm white 2700K LED strip light, 50mm increment, concealed within square extruded profile with opal lens, exact lengths required to be measured on site by Contractor and given to manufacturer prior to order, supplied with remote dimmable 1-10V driver and all miscellaneous components for mounting.	
FINISHES:		N/A	
DIMENSION	S:	14mm W x 13mm H x lengths to be determined on site by contractor and given manufacturer prior to order	
LAMP TYPE	& REF:	Warm white LED 2700K 24 volt 85CRI	
POWER:		9.6 watt / 24 volt per meter	
FIXING MET	HOD:	Surface mounted in architectural detail.	
COMMENTS	:	CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility. EC to coordinate module lengths with field conditions for continuous illumination prior to fitting order. Attention is required to avoid shadows at junctions. Lengths shall run end-to-end for continuous line of light without interruptions or breaks per the Architect's drawings and following the manufacturer's installation instructions. To be supplied with all accessories for complete installation.	

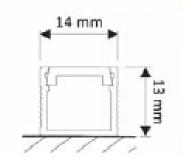
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FITTING CODE L1

IMAGE:





Project: Architect: Date: Page:	Sergis	ohns Avenue ison Bates Architects pril 2016 F 106	
FITTING CO	DE	L1A	
LOCATION:		Kitchen Joinery	
MANUFACT	JRER:	LED STRIP: Ledridge (Sean Colbert – Tel: (0)116 246 1188) HOUSING: Taylor lighting	
REFERENCE	≣:	LED STRIP: FLRCRI90-3000K-LTBD (LED180 series) HOUSING: Opal Lid 1413FR1- LTBD + End Caps + Mounting Clip	
DESCRIPTIC	DN:	Surface mounted low voltage linear warm white 2700K LED strip light, 25mm increment, concealed within square extruded profile with opal lens, exact lengths required to be measured on site by Contractor and given to manufacturer prior to order, supplied with remote dimmable 1-10V driver and all miscellaneous components for mounting.	
FINISHES:		N/A	
DIMENSION	S:	14mm W x 13mm H x lengths to be determined on site by contractor and given manufacturer prior to order	
LAMP TYPE	& REF:	Warm white LED 2700K 24 volt 85CRI	
POWER:		18 watt / 24 volt per meter	
FIXING MET	HOD:	Surface mounted in architectural detail.	
COMMENTS	:	CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility. EC to coordinate module lengths with field conditions for continuous illumination prior to fitting order. Attention is required to avoid shadows at junctions. Lengths shall run end-to-end for continuous line of light without interruptions or breaks per the Architect's drawings and following the manufacturer's installation instructions. To be supplied with all accessories for complete installation.	

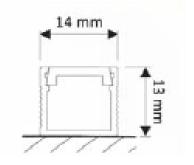
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FITTING CODE L1A

IMAGE:





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FITTING COI	DE	L2	
LOCATION:		Various - Bathroom	
MANUFACTU	JRER:	LED STRIP: Ledridge (Sean Colbert – Tel: (0)116 246 1188) HOUSING: Taylor lighting	
REFERENCE	Ξ:	LED STRIP: FLRXP1M-24-2700K-LTBD (LED96 series)-IP44 HOUSING: Opal Lid 1413FR1- LTBD + End Caps + Mounting Clip	
DESCRIPTIC	DN:	Surface mounted low voltage linear warm white 2700K LED strip light, IP44 rated for wet location, 50mm increment, concealed within square extruded profile with opal lens, exact lengths required to be measured on site by Contractor and given to manufacturer prior to order, supplied with remote dimmable 1-10V driver and all miscellaneous components for mounting.	
FINISHES:		N/A	
DIMENSION	S:	14mm W x 13mm H x lengths to be determined on site by contractor and given manufacturer prior to order	
LAMP TYPE	& REF:	Warm white LED 2700K 24 volt 85CRI	
POWER:		9.6 watt / 24 volt per meter	
FIXING MET	HOD:	Surface mounted in architectural detail.	
COMMENTS	:	CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility. EC to coordinate module lengths with field conditions for continuous illumination prior to fitting order. Attention is required to avoid shadows at junctions. Lengths shall run end-to-end for continuous line of light without interruptions or breaks per the Architect's drawings and following the manufacturer's installation instructions. To be supplied with all accessories for complete installation.	

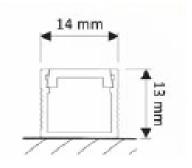
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IMAGE:





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FITTING CO	DE	L6	
LOCATION:		Wellness Centre - Ceiling Coves	
MANUFACTU	JRER:	Vexica (Mohammad Arrahman Tel: +44 (0)113 2434813)	
REFERENCE	Ξ:	Vex-Domeline-RP-TBD(Length)2700K-90CRI	
DESCRIPTIC)N:	Surface mounted low voltage warm white 2700K linear LED strip light with remote phosphor within extruded aluminium profile with dome frosted lens, length(s) to be determined from architectural drawings, remotely located dimmable 1-10V driver.	
FINISHES:		As standard	
DIMENSION	S:	25mm W x 18.5mm H + 9mm (with clip) x LTBD	
LAMP TYPE	& REF:	Warm white LED 2700K 24 volt 90CRI	
POWER:		17 watt / 24 volt DC per meter	
FIXING MET	HOD:	Surface mounted in architectural detail via concealed clips.	
COMMENTS	:	CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility. EC to coordinate module lengths with field conditions for continuous illumination prior to fitting order. Attention is required to avoid shadows at junctions. Lengths shall run end-to-end for continuous line of light without interruptions or breaks per the Architect's drawings and following the manufacturer's installation instructions. To be supplied with all accessories for complete installation.	

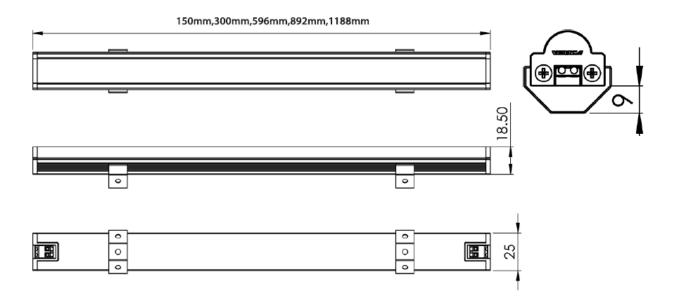
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
Date:	05 April 2016
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FITTING CODE L6

IMAGE:





Project: Architect: Date: Page:	Sergis	ohns Avenue ison Bates Architects pril 2016 = 106	
FITTING CO	DE	L7	
LOCATION:		Wellness Centre	
MANUFACT	URER:	LED Linear (Lee Shields – Tel: 07795 974603)	
REFERENCI	E:	X00LINE HYD HD25 824/TBD(LENGTH)-10D-C004-IP40	
DESCRIPTIC	ON:	Surface mounted wall wash warm white 2400K linear LED light strip concealed within aluminum profile, 10° optic cover, exact lengths required to be measured on site by Contractor and given to manufacturer prior to order, supplied with remote 1-10V dimmable driver and all miscellaneous components for mounting.	
FINISHES:		Aluminium as standard	
DIMENSION	S:	19.5mm W x 22.5 H x L lengths to be determined on site by contractor and given manufacturer prior to order	
LAMP TYPE	& REF:	Warm white LED from 2400K 10° optic cover 24 volt 85 CRI	
POWER:		25 watt / 24 volt per meter	
FIXING MET	HOD:	Surface mounted in architectural detail.	
COMMENTS:		CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility. EC to coordinate module lengths with field conditions for continuous illumination prior to fitting order. Attention is required to avoid shadows at junctions. Lengths shall run end-to-end for continuous line of light without interruptions or breaks per the Architect's drawings and following the manufacturer's installation instructions. To be supplied with all accessories for complete installation.	

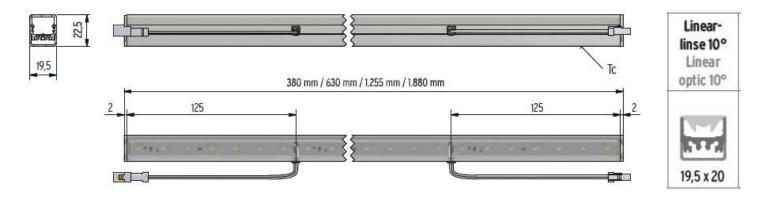
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE L7

IMAGE:





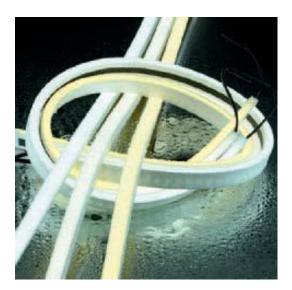
Project: Architect: Date: Page:			
FITTING COI	DE	L9	
LOCATION:		Wellness Centre – Steam Room, Sauna, Pool, Treatment Room	
MANUFACTU	JRER:	LED Linear (Lee Shields Tel: +44 (0)1494 471340)	
REFERENCE:		VarioLED Flex <u>PHOBOS SV IP68</u> W824/A SV IP68 + 1-10V dimmable driver + mounting plates	
DESCRIPTION:		Surface mounted linear diffuse profile using translucent opal flexible polymer for smooth shadow-less light distribution using constant pitch warm white LED lighting system with warm white 2700K LED, IP68 rated. Flexible with 150mm minimum bending radius. Requires remote dimmable driver 1-10V (to be supplied by manufacturer).	
FINISHES:		White	
DIMENSION	S:	10mm W x 20.5mm H, lengths to be determined on site by contractor and given manufacturer prior to order	
LAMP TYPE	& REF:	Warm white LED 2700K 24 volt 85CRI	
POWER:		10 watt / 24 volt DC per meter	
FIXING MET	HOD:	Surface mounted in architectural detail.	
COMMENTS:		CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility. EC to coordinate module lengths with field conditions for continuous illumination prior to fitting order. Attention is required to avoid shadows at junctions. Lengths shall run end-to-end for continuous line of light without interruptions or breaks per the Architect's drawings and following the manufacturer's installation instructions. To be supplied with all accessories for complete installation.	

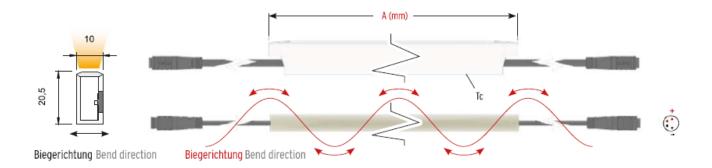
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE L9

IMAGE:





Project: Architect: Date: Page:	Sergis	ohns Avenue ison Bates Architects pril 2016 F 106	
FITTING CO	DE	L7, L9 – D60 DRIVER	
LOCATION:		Throughout	
MANUFACT	URER:	MW Mean Well (<u>www.meanwell.com</u>)	
REFERENCE:		DRIVER HLG-60H Sub-controller: eldoLED – LIN211D1-LN	
DESCRIPTION:		Remotely located LED driver, in nearby ventilated, accessible cavity. Driver requires a 1-10V sub-controller in order to dim.	
FINISHES:		N/A	
DIMENSIONS:		61.5mm W x 36.8mm H x 171mm L	
LAMP TYPE & REF:			
POWER:		60 watt / 24V DC	
FIXING METHOD:		Surface mounted in remotely, accessible, ventilated cavity.	
COMMENTS		Fitting comes wired with 0.25mm2 cable thickness with 2 meters distance to the fitting from driver. 0.75mm2 is maximum cable thickness with 8 meters maximum distance to the fitting from driver. Recommended to use junction box to run several drivers/meters of tape.	
ILLUSTRATI	ON:		

Specification of Luminaires

Project: Architect: Date: Page:	Sergis	ohns Avenue ison Bates Architects oril 2016 = 106	
FITTING CO	DE	L7, L9 – D100 DRIVER	
LOCATION:		Throughout	
MANUFACT	URER:	MW Mean Well (<u>www.meanwell.com</u>)	
REFERENCE:		DRIVER HLG-100H Sub-controller: eldoLED – LIN211D1-LN	
DESCRIPTION:		Remotely located LED driver, in nearby ventilated, accessible cavity. Driver requires a 1-10V sub-controller in order to dim.	
FINISHES:		N/A	
DIMENSIONS:		68mm W x 38.8mm H x 220mm L	
LAMP TYPE & REF:			
POWER:		100 watt / 24V DC	
FIXING METHOD:		Surface mounted in remotely, accessible, ventilated cavity.	
COMMENTS	8:	Fitting comes wired with 0.25mm2 cable thickness with 2 meters distance to the fitting from driver. 0.75mm2 is maximum cable thickness with 8 meters maximum distance to the fitting from driver. Recommended to use junction box to run several drivers/meters of tape.	
ILLUSTRATI	ON:		

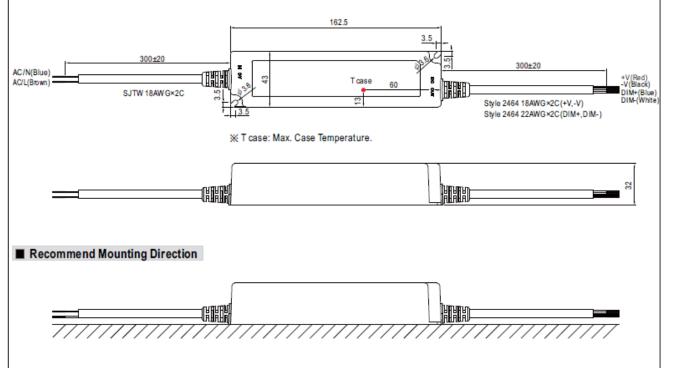
220 196 12 9.6 ģ 9.4 300±20 ŧ FG (Green/Yellow) AC/L (Brown) AC/N (Blue) T case 34.2 98 300±20 8 -V(Black) +V(Red) SJTW 18AW Gx3C 34 ŧ SJTW 14AWG×2C φ4.2×4PL ※ T case: Max. Case Temperature. 38.8

Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 39 OF 106		
FITTING CO	DE	L6 - 60W Driver	
LOCATION:		Wellness Centre - Ceiling Coves	
MANUFACTURER:		MW Mean Well (www.meanwell.com)	
REFERENCE:		DRIVER LPF-60D-24	
DESCRIPTIC	DN:	Remotely located LED driver, in nearby ventilated, accessible cavity, 1-10V dimmable.	
FINISHES:		N/A	
DIMENSIONS:		43mm W x 32mm H x 162.5mm L	
LAMP TYPE & REF:			
POWER:		60 watt / 24V DC	

FIXING METHOD: Surface mounted in remotely, accessible, ventilated cavity.

COMMENTS:

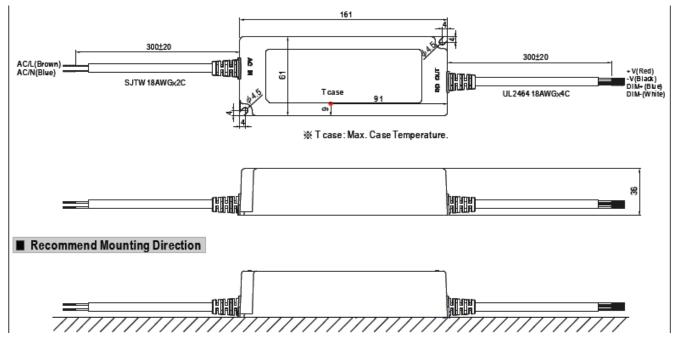


Specification of Luminaires

Project: Architect: Date: Page:	Sergis 05 Apr	tzjohns Avenue ergison Bates Architects 5 April 2016) OF 106		
FITTING CO	DE	L6 - 90W Driver		
LOCATION:		Wellness Centre - Ceiling Coves		
MANUFACTURER:		MW Mean Well (www.meanwell.com)		
REFERENCE	Ξ:	DRIVER LPF-90D-24		
DESCRIPTIC	DN:	Remotely located LED driver, in nearby ventilated, accessible cavity, 1-10V dimmable.		
FINISHES:		N/A		
DIMENSIONS:		61mm W x 36mm H x 161mm L		
LAMP TYPE & REF:				
POWER:		90 watt / 24V DC		

FIXING METHOD: Surface mounted in remotely, accessible, ventilated cavity.

COMMENTS:

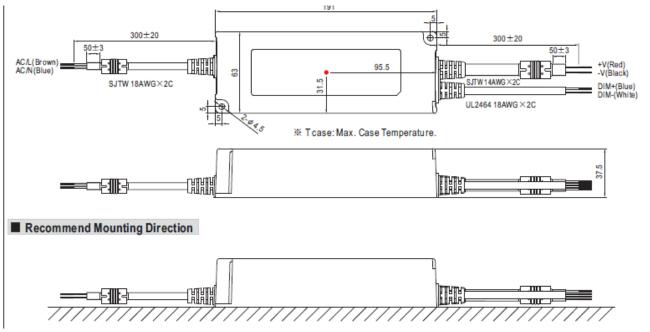


Specification of Luminaires

Project: Architect: Date: Page:	Sergis 05 Apr	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 41 OF 106	
FITTING CO	DE	L6 - 120W Driver	
LOCATION:		Wellness Centre - Ceiling Coves	
MANUFACTURER:		MW Mean Well (www.meanwell.com)	
REFERENCE:		DRIVER PWM-120D-24	
DESCRIPTION:		Remotely located LED driver, in nearby ventilated, accessible cavity, 1-10V dimmable.	
FINISHES:		N/A	
DIMENSIONS:		63mm W x 37.5mm H x 191mm L	
LAMP TYPE & REF:			
POWER:		120 watt / 24V DC	

FIXING METHOD: Surface mounted in remotely, accessible, ventilated cavity.

COMMENTS:



Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 42 OF 106		
FITTING CO	DE	P3	
LOCATION:		Apartment Dining	
MANUFACTI	JRER:	Santa & Cole	
REFERENCE	∃:	M68	
DESCRIPTIC	DN:	Pendant mounted decorative luminaire.	
FINISHES:		Polished Aluminium	
DIMENSIONS:		220mm H x 460mm Ø W	
LAMP TYPE & REF:		17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METHOD:		Ceiling mounted.	
COMMENTS:		CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

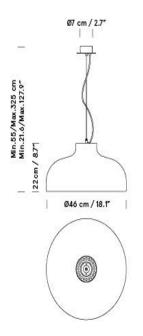
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE **P3**

IMAGE:





Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 44 OF 106			
FITTING CO	DE	P4		
LOCATION:		Apartment Gallery		
MANUFACT	JRER:	Santa & Cole		
REFERENCE	≣:	M68		
DESCRIPTIC	DN:	Pendant mounted decorative luminaire.		
FINISHES:		Polished Aluminium		
DIMENSIONS:		220mm H x 460mm Ø W		
LAMP TYPE & REF:		17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)		
POWER:		17 watt / 240 volt Allow		
FIXING METHOD:		Ceiling mounted.		
COMMENTS:		CE Listed. Circuited to control system.		
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.		

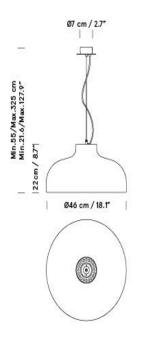
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE **P4**

IMAGE:





Project: Architect: Date: Page:	Sergiso 05 Apr	zjohns Avenue ergison Bates Architects 6 April 2016 OF 106	
FITTING COI	DE	P7 (TBD)	
LOCATION:		Wellness Centre – Gym	
MANUFACTU	JRER:	LTS - Fagerhault	
REFERENCE:		Lichtkanal 70 pendant profile direct/indirect LKDI 001 AG-AK (profile)- LKDI 090.101.1 (end cap) + LKDI 090.103/3 (wire-rope suspension with feeder)	
DESCRIPTION:		Suspended direct and indirect LED linear profile with seamless opal diffuser. Warm white 2700K. Custom lengths.	
FINISHES:		TBD by Architect	
DIMENSIONS:		70mm W x 130mm H x L (exact length TBD)	
LAMP TYPE & REF:		38 W, 3000 K, 1405 mm, 2330 lm LKDIL 010.30.50 (down) (TBD) 45 W, 3000 K, 1405 mm, 3685 lm LKML 010.30.50 (uplight) (TBD)	
POWER:		2 x 38W / 240 volt – down (TBD) 2 x 45 W / 240 volt – uplight (TBD)	
FIXING METHOD:		Ceiling suspended.	
COMMENTS	:	CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

Specification of Luminaires

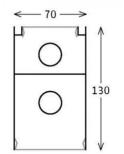
Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE **P7**

IMAGE:



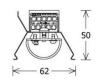
ILLUSTRATION:



ACCESSORIES:







Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 48 OF 106	
FITTING CO	DE	P9
LOCATION:		Wellness Centre- Reception
MANUFACT	URER:	Glashutte Limburgh
REFERENCI	E:	45 485.4 (4425) Pendant Luminaire
DESCRIPTIC	ON:	Hand blown opal glass pendant globe. Satin matt and metal fitter.
FINISHES:		TBD by Architect
DIMENSIONS:		200mm Ø
LAMP TYPE & REF:		17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)
POWER:		17 watt / 240 volt Allow
FIXING METHOD:		Ceiling mounted.
COMMENTS:		CE Listed. Circuited to control system.

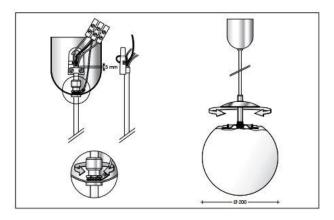
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE **P9**

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	nitect: Sergison Bates Architects 9: 05 April 2016	
FITTING CO	DE	P12
LOCATION:		Communal Entrance Lobby
MANUFACT	JRER:	Cameron Design House (Matt Holleman – Tel: 07454 957240)
REFERENCE	≣:	TBD by Cameron Design House
DESCRIPTIC	DN:	Pendant mounted bespoke decorative circular luminaire, dimmable.
FINISHES:		TBD by Architect
DIMENSION	S:	1500mm Ø
LAMP TYPE	& REF:	40 watt Halogen capsule - Allow
POWER:		250 watt / 240 volt
FIXING MET	HOD:	Ceiling mounted.
COMMENTS		CE Listed. Circuited to control system.
		EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.

IMAGE: INDICATIVE ONLY



Project: Architect: Date: Page:	Sergis	hns Avenue son Bates Architects bril 2016 5106	
FITTING CO	DE	P13	
LOCATION:		Grand Stair	
MANUFACT	JRER:	Glashutte Limburgh	
REFERENCE	Ξ:	45 485.4 (4425) Pendant Luminaire	
DESCRIPTIC	DN:	Hand blown opal glass pendant globe. Satin matt and metal fitter.	
FINISHES:		TBD by Architect	
DIMENSION	S:	200mm Ø	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING MET	HOD:	Ceiling mounted.	
COMMENTS		CE Listed. Circuited to control system.	

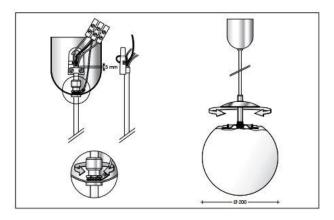
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE P13

IMAGE:





Project: Architect: Date: Page:	Sergis 05 Apr	zjohns Avenue rgison Bates Architects April 2016 OF 106	
FITTING CO	DE	P16	
LOCATION:		Wellness Centre-Reception Hall	
MANUFACT	URER:	Glashutte Limburgh	
REFERENC	E:	56 390.2 (5388) Pendant Luminaire	
DESCRIPTIC	ON:	Hand blown opal glass and metal housing. Screw neck and black flex suspension. Metal fitter and canopy.	
FINISHES:		TBD by Architect	
DIMENSION	S:	50mm \varnothing and 240mm H	
LAMP TYPE	& REF:	6 watt warm white 2700K LED E14 base 470 lumens - ALLOW (Osram Ref: PARATHOM CLASSIC B 40 ADV 6 W/827 E14 FR)	
POWER:		6 watt / 240 volt Allow	
FIXING MET	HOD:	Ceiling mounted.	
COMMENTS	S:	CE Listed. Circuited to control system.	

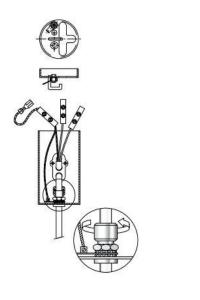
Specification of Luminaires

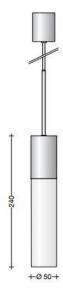
Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE **P16**

IMAGE:







Project: Architect: Date: Page:	Sergis	ohns Avenue jison Bates Architects pril 2016 F 106	
FITTING CO	DE	P17	
LOCATION:		Wellness Centre	
MANUFACT	URER:	Glashutte Limburgh	
REFERENCE	Ξ:	45 485.4 (4425) Pendant Luminaire	
DESCRIPTIC	ON:	Hand blown opal glass pendant globe. Satin matt and metal fitter.	
FINISHES:		TBD by Architect	
DIMENSION	S:	200mm Ø	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING MET	HOD:	Ceiling mounted.	
COMMENTS	:	CE Listed. Circuited to control system.	

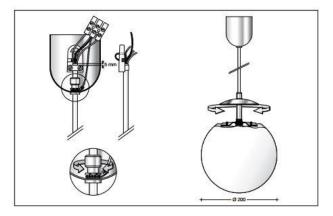
Specification of Luminaires

Fitzjohns Avenue
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FITTING CODE **P17**

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	Sergis	zjohns Avenue rgison Bates Architects April 2016 OF 106	
FITTING CO	DE	P18	
LOCATION:		Wellness Centre- Hall	
MANUFACT	JRER:	Glashutte Limburgh	
REFERENCE	Ξ:	56 547 (5547) Pendant Luminaire	
DESCRIPTIC	DN:	Aluminium luminaire housing and metal canopy, white enamel finish. Hand blown opal glass.	
FINISHES:		White Enamel	
DIMENSION	S:	560mm \varnothing x 142mm H and 4000mm suspension	
LAMP TYPE	& REF:	40 watts warm white 3000K 4150Im.	
POWER:		40 watt / 240 volt Allow	
FIXING MET	HOD:	Ceiling mounted.	
00141451170			

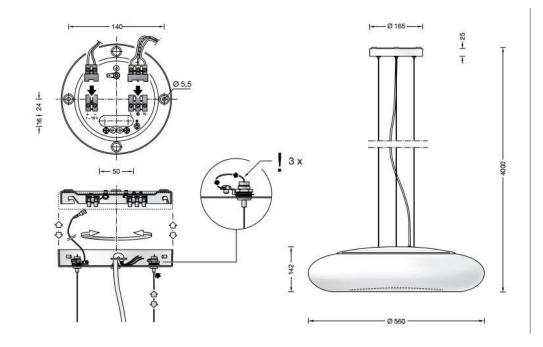
COMMENTS: CE Listed. Circuited to control system.

Specification of Luminaires

Project:	Fitzjohns Avenue
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IMAGE:





Project: Architect: Date: Page:	Sergiso 05 Apri	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 59 OF 106		
FITTING CO	DE	S1		
LOCATION:		Social Kitchen		
MANUFACT	JRER:	Glashutte Limburgh		
REFERENCE	Ξ:	8785 Recessed Luminaire		
DESCRIPTIC	DN:	Ceiling recessed decorative fitting with GX 24q-3 lamp base, dimmable.		
FINISHES:		Opal Glass		
DIMENSION	S:	115mm H x 240mm \oslash W - 215mm \oslash W to cut-out		
LAMP TYPE	& REF:	Warm white 2700K compact fluorescent Osram Ref: DULUX D/E 26 W/827		
POWER:		26 watt / 240 volt		
FIXING MET	HOD:	Ceiling recessed.		
COMMENTS	:	CE Listed. Circuited to control system.		
		2 cable entries for through-wiring for main cables up to $arnothing$ 10.5mm. Electronic ballast (EEI=A2) 220-240V		

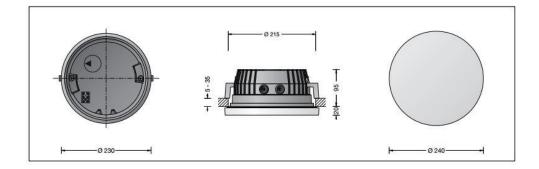
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE **S1**

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	Sergis 05 Apr	itzjohns Avenue ergison Bates Architects 5 April 2016 1 OF 106		
FITTING CO	DE	S2		
LOCATION:		Main Entrance		
MANUFACTURER:		Mawa Design		
REFERENCE:		Eintopf Ceiling Lamp – Brass Finish		
DESCRIPTION:		Ceiling mounted decorative fitting with E27 lamp base, dimmable.		
FINISHES:		Brass		
DIMENSIONS:		60mm H x 80mm \varnothing W		
LAMP TYPE & REF:		4.3 watt warm white 2700K LED E27 base 470 lumens (Philips ref: Classic LED CLA LEDBulb ND 4.3-40W E27 WWST64CL)		
POWER:		4.3 watt / 240 volt		
FIXING METHOD:		Ceiling mounted.		
COMMENTS:		CE Listed. Circuited to control system.		

IMAGE:



Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 62 OF 106		
FITTING CO	DE	SC1	
LOCATION:		Communal Entrance Lobby	
MANUFACTURER:		Glashutte Limburg	
REFERENCE:		Wall Luminaire - 8493 Opal Glass	
DESCRIPTION:		Wall mounted decorative luminaire.	
FINISHES:		Polished Brass	
DIMENSIONS:		220mm H x 200mm Ø W	
LAMP TYPE & REF:		17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		20 watt / 240 volt Allow	
FIXING METHOD:		Wall mounted.	
COMMENTS:		CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with	

additional wiring for 1-10V dimming compatibility.

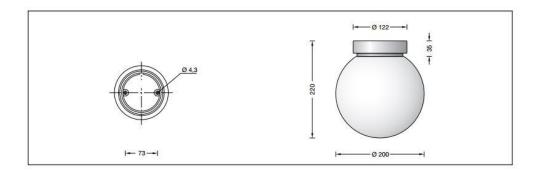
Specification of Luminaires

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FITTING CODE SC1

IMAGE:





Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 64 OF 106		
FITTING CO	DE	SC2	
LOCATION:		Communal Lobby	
MANUFACTURER:		Glashutte Limburg	
REFERENCE:		Wall Luminaire - 8493 Opal Glass	
DESCRIPTION:		Wall mounted decorative luminaire.	
FINISHES:		Polished Brass	
DIMENSIONS:		220mm H x 200mm Ø W	
LAMP TYPE & REF:		17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METHOD:		Wall mounted.	
COMMENTS:		CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

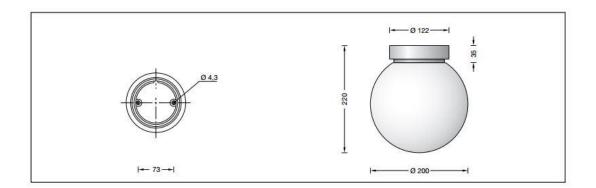
Specification of Luminaires

Project:Fitzjohns AvenueArchitect:Sergison Bates ArchitectsDate:05 April 2016Page:65 OF 106

FITTING CODE SC2

IMAGE:





Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 66 OF 106		
FITTING CO	DE	SC3	
LOCATION:		Communal Lobby	
MANUFACTURER:		Glashutte Limburg	
REFERENCE:		Wall Luminaire - 8493 Opal Glass	
DESCRIPTION:		Wall mounted decorative luminaire.	
FINISHES:		Polished Brass	
DIMENSIONS:		220mm H x 200mm Ø W	
LAMP TYPE & REF:		17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METHOD:		Wall mounted.	
COMMENTS:		CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

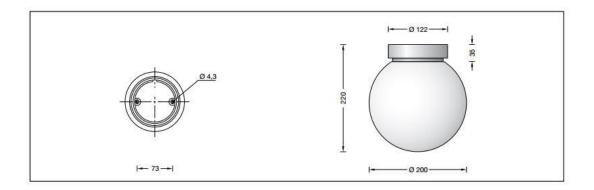
Specification of Luminaires

Project:Fitzjohns AvenueArchitect:Sergison Bates ArchitectsDate:05 April 2016Page:67 OF 106

FITTING CODE SC3

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	Sergis 05 Apr	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 68 OF 106	
FITTING CODE		SC4	
LOCATION:		Grand Stair	
MANUFACTURER:		Glashutte Limburg	
REFERENCE:		Wall Luminaire - 8493 Opal Glass	
DESCRIPTION:		Wall mounted decorative luminaire.	
FINISHES:		Polished Brass	
DIMENSIONS:		220mm H x 200mm Ø W	
LAMP TYPE & REF:		17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METHOD:		Wall mounted.	
COMMENTS:		CE Listed. Circuited to control system.	
		Electrical Contractor to wire all dimmable LED equipment with	

additional wiring for 1-10V dimming compatibility.

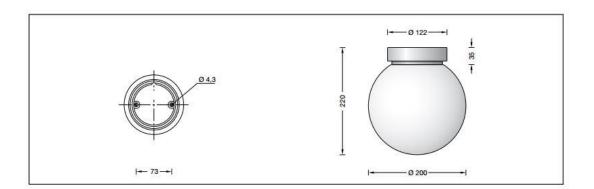
Specification of Luminaires

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FITTING CODE SC4

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	•	
FITTING CODE		SC6
LOCATION:		Apartment Dining/Lobby
MANUFACTURER:		CTO Lighting
REFERENCE:		Array Twin Wall
DESCRIPTION:		Wall mounted decorative luminaire.
FINISHES:		Polished Brass – Opal Glass
DIMENSIONS:		400mm H x 650mm W
LAMP TYPE & REF:		G9 Mains Halogen x 2
POWER:		50 watt / 240 volt Allow
FIXING METHOD:		Wall mounted.

COMMENTS: CE Listed. Circuited to control system.

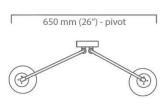
Specification of Luminaires

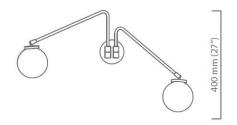
Project:Fitzjohns AvenueArchitect:Sergison Bates ArchitectsDate:05 April 2016Page:71 OF 106

FITTING CODE SC6

IMAGE:







Specification of Luminaires

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FITTING CODE		SC7
LOCATION:		Apartment Bedroom
MANUFACTURER:		CTO Lighting
REFERENCE:		Big Bulb Opal Wall - Polished Brass
DESCRIPTION:		Wall mounted decorative luminaire.
FINISHES:		Polished Brass
DIMENSIONS:		200mm W x 600mm H
LAMP TYPE & REF:		Tungsten Halogen G9
POWER:		30 watt / 240 volt Allow
FIXING METHOD:		Wall mounted.
COMMENTS:		CE Listed. Circuited to control system.

Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.

Specification of Luminaires

Project:Fitzjohns AvenueArchitect:Sergison Bates ArchitectsDate:05 April 2016Page:73 OF 106

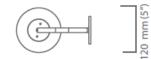
FITTING CODE SC7

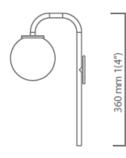
IMAGE:



ILLUSTRATION:

200 mm (8")





Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 74 OF 106	
FITTING COI	DE	SC8
LOCATION:		Apartment Bathroom
MANUFACTU	JRER:	Glashutte Limburg
REFERENCE:		Wall Luminaire - 6996 Hand-Blown Glass
DESCRIPTION:		Wall mounted decorative luminaire.
FINISHES:		Gold Finish
DIMENSIONS:		235mm H x 95mm W
LAMP TYPE & REF:		33W 240V Tungsten Halogen G9 base
POWER:		33 watt / 240 volt
FIXING METHOD:		Wall mounted.

COMMENTS: CE Listed. Circuited to control system.

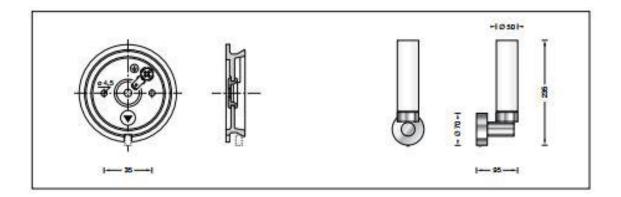
Specification of Luminaires

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FITTING CODE SC8

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 76 OF 106	
FITTING CO	DE	SC12
LOCATION:		Wellness Centre – Pool Area
MANUFACTU	JRER:	Glashutte Limburg
REFERENCE	Ξ:	Wall Luminaire – 50 067.2 Hand-Blown Glass
DESCRIPTIC	DN:	Free radiating LED IP65 wall luminaire with hand blown three-ply opal glass. Metal housing, stainless steel finish
FINISHES:		Stainless Steel
DIMENSION	S:	500mm H x 80mm W x 115mm D
LAMP TYPE	& REF:	20W LED warm white 3000K 2300Im
POWER:		20 watt
FIXING MET	HOD:	Wall mounted.

COMMENTS: CE Listed. Circuited to control system.

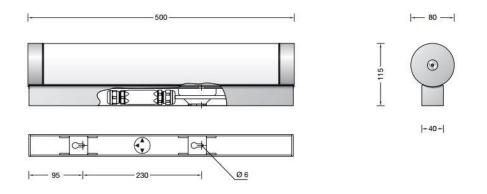
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE SC12

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 78 OF 106	
FITTING CO	DE	SC14
LOCATION:		Wellness Centre – Changing Rooms
MANUFACTU	JRER:	Glashutte Limburg
REFERENCE:		Wall Luminaire - 6996 Hand-Blown Glass
DESCRIPTION:		Wall mounted decorative luminaire.
FINISHES:		Gold Finish
DIMENSIONS:		235mm H x 95mm W
LAMP TYPE & REF:		33W 240V Tungsten Halogen G9 base
POWER:		33 watt / 240 volt
FIXING METHOD:		Wall mounted.

COMMENTS: CE Listed. Circuited to control system.

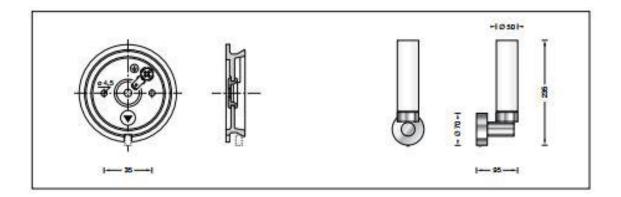
Specification of Luminaires

Project:Fitzjohns AvenueArchitect:Sergison Bates ArchitectsDate:05 April 2016Page:79 OF 106

FITTING CODE SC14

IMAGE:





Project: Architect: Date: Page:	Sergis	hns Avenue son Bates Architects pril 2016 5 106	
FITTING CO	DE	SC15	
LOCATION:		Wellness Centre – Treatment Room	
MANUFACT	URER:	Glashutte Limburg	
REFERENCE	≣:	Wall Luminaire – 78 613.4 Hand Blown opal glass	
DESCRIPTIC	ON:	Shielded luminaire made of painted metal back plate. Upward and Downward component.	
FINISHES:		Brass	
DIMENSION	S:	80mm H x 400mm W x 115mm D	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		2 x 17 watt / 240 volt	
FIXING METHOD:		Wall mounted.	
COMMENTS:		CE Listed. Circuited to control system.	

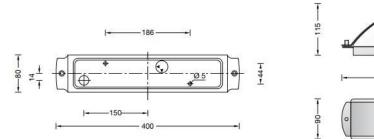
Specification of Luminaires

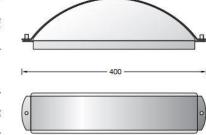
Project:Fitzjohns AvenueArchitect:Sergison Bates ArchitectsDate:05 April 2016Page:81 OF 106

FITTING CODE SC15

IMAGE:







Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 82 OF 106	
FITTING COL	DE	TL1
LOCATION:		Apartment Bedroom
MANUFACTU	JRER:	TBD by Architect
REFERENCE	i:	TBD by Architect
DESCRIPTIC	N:	Free standing table decorative luminaire.
FINISHES:		TBD by Architect
DIMENSIONS	S:	TBD by Architect
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)
POWER:		17 watt / 240 volt Allow
FIXING METH	HOD:	Free standing.
COMMENTS	:	CE Listed. Circuited to control system.

Architect: Ser Date: 05	•	
FITTING CODE	TL2	
LOCATION:	Appartments	
MANUFACTURE	TBD by Architect	
REFERENCE:	Free standing table decorative luminaire.	
DESCRIPTION:	TBD by Architect	
FINISHES:	TBD by Architect	
DIMENSIONS:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
LAMP TYPE & RE	F: 17 watt / 240 volt Allow	
POWER:	Free standing.	
FIXING METHOD:	CE Listed. Circuited to control system.	
	Electrical Contractor to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	
COMMENTS:	TBD by Architect	

Specification of Luminaires

•	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 84 OF 106	
FITTING COL	DE	TL3
LOCATION:		Wellness Centre
MANUFACTU	JRER:	TBD by Architect
REFERENCE	:	TBD by Architect
DESCRIPTIC	N:	Free standing table decorative luminaire.
FINISHES:		TBD by Architect
DIMENSION	S:	TBD by Architect
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)
POWER:		17 watt / 240 volt Allow
FIXING METH	HOD:	Free standing.
COMMENTS	:	CE Listed. Circuited to control system.
		Electrical Contractor to wire all dimmable LED equipment with

Specification of Luminaires

Project: Architect: Date: Page:	Sergiso 05 Apr	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 85 OF 106	
FITTING COI	DE	TL4 - TBD	
LOCATION:		Wellness Centre-Guest Suite	
MANUFACTU	JRER:	TBD by Architect	
REFERENCE	Ξ:	TBD by Architect	
DESCRIPTIC	DN:	Free standing table decorative luminaire.	
FINISHES:		TBD by Architect	
DIMENSION	S:	TBD by Architect	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METI	HOD:	Free standing.	
COMMENTS	:	CE Listed. Circuited to control system.	

Specification of Luminaires

Project: Architect: Date: Page:	Sergiso 05 Apr	tzjohns Avenue ergison Bates Architects 5 April 2016 5 OF 106	
FITTING COI	DE	TL5 (TBD)	
LOCATION:		Wellness Centre – Reception	
MANUFACTU	JRER:	TBD by Architect	
REFERENCE	Ξ:	TBD by Architect	
DESCRIPTIC	DN:	Free standing table decorative luminaire.	
FINISHES:		TBD by Architect	
DIMENSION	S:	TBD by Architect	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METI	HOD:	Free standing.	
COMMENTS	:	CE Listed. Circuited to control system.	

Specification of Luminaires

Project: Architect: Date: Page:	Sergiso	zjohns Avenue rgison Bates Architects April 2016 OF 106	
FITTING COL	DE	TL6 (TBD)	
LOCATION:		Concierge	
MANUFACTU	JRER:	TBD by Architect	
REFERENCE	E:	TBD by Architect	
DESCRIPTIC	N:	Free standing table decorative luminaire.	
FINISHES:		TBD by Architect	
DIMENSIONS	S:	TBD by Architect	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METH	HOD:	Free standing.	
COMMENTS	:	CE Listed. Circuited to control system.	

Specification of Luminaires

Project: Architect: Date: Page:	Sergiso	rjohns Avenue gison Bates Architects April 2016 OF 106	
FITTING COL	DE	TL7 - TBD	
LOCATION:		Ground Floor	
MANUFACTU	JRER:	TBD by Architect	
REFERENCE	E:	TBD by Architect	
DESCRIPTIC	DN:	Free standing table decorative luminaire.	
FINISHES:		TBD by Architect	
DIMENSIONS	S:	TBD by Architect	
LAMP TYPE	& REF:	17 watt warm white 2700K LED E27 base 1521 lumens - ALLOW (Philips ref: Master LEDbulb D 17-75W E27 2700K)	
POWER:		17 watt / 240 volt Allow	
FIXING METH	HOD:	Free standing.	
COMMENTS	:	CE Listed. Circuited to control system.	

Architect: Sergi Date: 05 Ap	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 89 OF 106	
FITTING CODE	W2	
LOCATION:	Wellness Centre – Changing Rooms	
MANUFACTURER:	Lucifer Lighting	
REFERENCE:	Stealth - SSL-ALED-2.7K-TBD(FINISH)-NL SSL-BB - Aluminium back box	
DESCRIPTION:	Wall recessed low voltage LED step light with low glare aperture and sealed spread lens, IP65 for wet location, requires aluminium back box, remotely located dimmable 1-10V driver.	
FINISHES:	TBD by Architect	
DIMENSIONS:	66mm W x 70mm H x 41mm recess depth	
LAMP TYPE & REF:	3 watt warm white 2700K LED 80 CRI	
POWER:	3 watt / 12 volt AC	
FIXING METHOD:	Wall recessed.	
COMMENTS:	CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

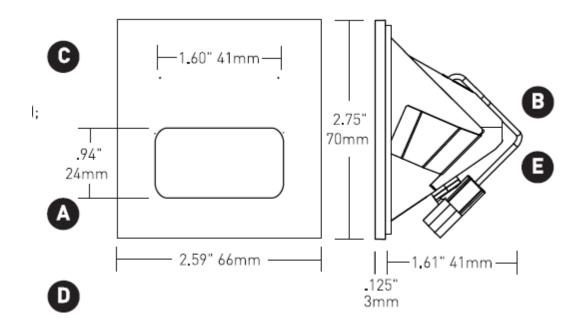
Specification of Luminaires

Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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FITTING CODE W2

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 91 OF 106	
FITTING CO	DE	XB1
LOCATION:		Landscape
MANUFACTU	JRER:	Wever & Ducre
REFERENCE	≣:	Bollard – Getton 2.0/717674D4
DESCRIPTIC	DN:	Exterior rated ground mounted LED bollard, IP65 housing made of die-cast aluminium with clear glass and integral driver, phase-cut dimmable.
FINISHES:		Aluminium Powder Coated
DIMENSION	S:	600mm H x 120mm \varnothing W
LAMP TYPE	& REF:	8 watt Warm White 3000K LED 80CRI
POWER:		8 watt / 240 volt
FIXING MET	HOD:	Ground mounted.
COMMENTS	:	Circuited to dimming system. CE Labelled.

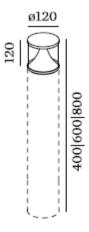
Specification of Luminaires

Project:Fitzjohns AvenueArchitect:Sergison Bates ArchitectsDate:05 April 2016Page:92 OF 106

FITTING CODE **XB1**

IMAGE:





Architect: Sergis Date: 05 Ap	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 93 OF 106	
FITTING CODE	XP1	
LOCATION:	Landscape	
MANUFACTURER:	EcoLED Light (EcoLED - Tel: 020 8492 7633)	
REFERENCE:	FITTING: ZEP3 - Z3-SW-S-4-27-80-30X60-V DRIVER: HAR33W1000MA1-10VD (One driver per 6 fittings)	
DESCRIPTION:	Ground recessed low voltage IP68 warm white LED path light with 30° ° x 60° beam angle, remotely located dimmable 1-10V driver.	
FINISHES:	Stainless Steel	
DIMENSIONS:	62mm \varnothing W x 45mm recess depth, 42mm \varnothing W to cut-out	
LAMP TYPE & REF:	3.6 watt warm white 2700K LED 30ºx60º 80CRI 107 lumens with 29.7 lm/w	
POWER:	3.6 watt / 1000mA	
FIXING METHOD:	In ground recessed.	
COMMENTS:	CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility. To be supplied with all accessories for complete installation.	

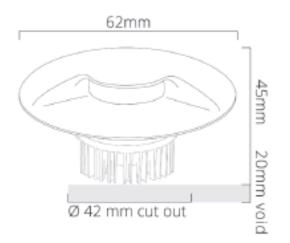
Specification of Luminaires

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FITTING CODE **XP1**

IMAGE:





Project: Architect: Date: Page:	Sergiso 05 Apr	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 95 OF 106	
FITTING CO	DE	XS1	
LOCATION:		Landscape	
MANUFACTI	JRER:	Ecosense (Lee Shields – Tel: 07795 974603)	
REFERENCE	≣:	Floodlight Bullet Mini - BUL-S-30-220-IC-BK-11 + BUL-S-45S-BK (45º Snoot) + BUL-S-LSD-60, 80 (Optical Lenses 60° & 80°) + SPIKE	
DESCRIPTIC	DN:	Spike mounted adjustable IP66 3500K LED spotlight with cover lens and integral dimmable 1-10V driver.	
FINISHES:		Black	
DIMENSION	S:	125mm H x 223mm W	
LAMP TYPE	& REF:	10.9 watt White LED 3000K 60°x 80°	
POWER:		10.9 watt / 240 vac	
FIXING MET	HOD:	Spike mounted.	
COMMENTS	:	Circuited to dimming system. CE Labelled. Dimmable through ELV or TRIAC dimming hardware.	

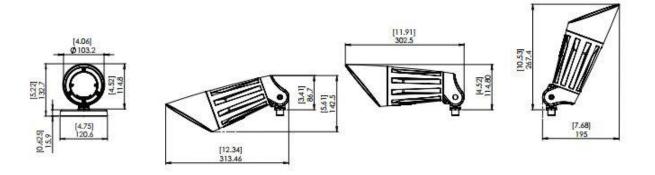
Specification of Luminaires

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FITTING CODE XS1

IMAGE:





Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 97 OF 106	
FITTING CO	DE	XS2
LOCATION:		Landscape
MANUFACT	URER:	Solar Centre
REFERENCE	≣:	Selene Solar Landscape Spotlights
DESCRIPTIC	DN:	Spike mounted adjustable solar power LED spotlight with integral solar panel.
FINISHES:		Black
DIMENSION	S:	400mm H (with spike) x 90mm W x 170mm D
LAMP TYPE	& REF:	3 x white LED
POWER:		1W / 5V/200mA
FIXING MET	HOD:	Spike mounted.
COMMENTS	:	

Specification of Luminaires

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FITTING CODE XS2

IMAGE:



Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 99 OF 106	
FITTING CO	DE	XS3
LOCATION:		Exterior Private Terrace
MANUFACTI	JRER:	Lightscape Projects
REFERENCE	Ξ:	LEDStar3 - 4507010-928-30-2A + 247-0141-4 (GROUND SPIKE)
DESCRIPTIC	DN:	Surface mounted adjustable low voltage IP67 LED spotlight with cover lens, remotely located dimmable 1-10V driver.
FINISHES:		Black TBC with Architect
DIMENSION	S:	105mm H x 87mm \varnothing W x 111mm L
LAMP TYPE	& REF:	Warm white LED 2700K 700mA 30º 93 CRI
POWER:		7.67 watt / 700mA
FIXING MET	HOD:	Surface mounted.

COMMENTS: CE Labelled. Circuited to control system.

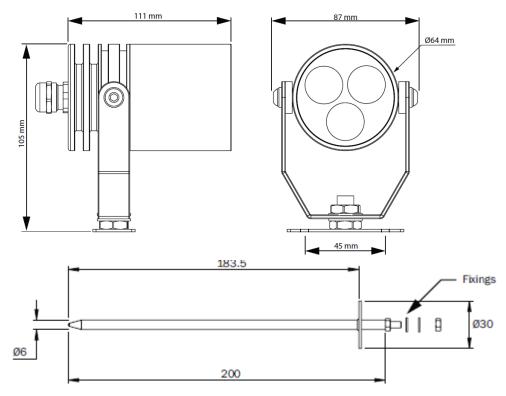
Specification of Luminaires

Project:	Fitzjohns Avenue
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FITTING CODE XS3

IMAGE:





Specification of Luminaires

Project: Architect: Date: Page:	Fitzjohns Avenue Sergison Bates Architects 05 April 2016 101 OF 106	
FITTING COI	DE	XS3 - D36 DRIVER
LOCATION:		Exterior Private Terrace
MANUFACTU	JRER:	Lightscape Projects
REFERENCE	: :	42143-30
DESCRIPTIC	DN:	LED 1-10V dimmable driver, IP66. One driver can be used for 4 no. of type XS2. Maximum distance from the fitting is 153M when using 0.75mm cable.
FINISHES:		N/A
DIMENSION	S:	132mm W x 90mm H x 223mm L
LAMP TYPE	& REF:	
POWER:		36 W / 700mA
FIXING MET	HOD:	

COMMENTS:

ILLUSTRATION:



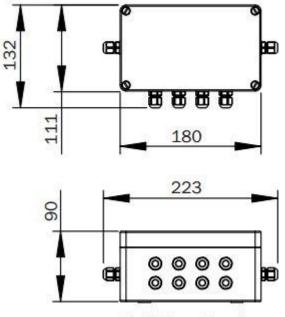


Fig.3 8 Output Example

Project: Architect: Date: Page:	Sergiso	ohns Avenue gison Bates Architects April 2016 OF 106	
FITTING CO	DE	XW1	
LOCATION:		Landscape	
MANUFACTU	JRER:	Concord – Havells Sylvania - Simes	
REFERENCE	Ξ:	Skill Rectangular Wood L.9240W/20 + Installation Recess Box	
DESCRIPTIC	DN:	Wall recessed low voltage LED step light with low glare aperture, oiled TEAK wood finish 8mm thick. IP65 for exterior location, requires installation recess box, integral dimmable 1-10V driver.	
FINISHES:		Burnished Bronze/Teak Wood TBD by Architect	
DIMENSION	S:	270mm W x 115mm H x 35mm	
LAMP TYPE	& REF:	13.5 watt warm white 3000K LED 90 CRI	
POWER:		13.5 watt / 240 volt	
FIXING MET	HOD:	Wall recessed.	
COMMENTS	:	CE Listed. Circuited to control system. Remote 1-10V dimmable drivers to be located in nearby, accessible, well-ventilated cavity and not exceeding distance recommended by manufacturer. Electrical Contractor (EC) to verify LED drivers are compatible with dimming system (dimmable down to 1% without flickering or stepping). EC to wire all dimmable LED equipment with additional wiring for 1-10V dimming compatibility.	

Specification of Luminaires

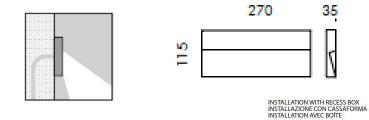
Project:	Fitzjohns Avenue
Architect:	Sergison Bates Architects
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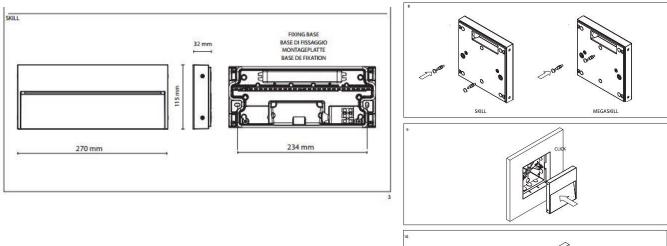
FITTING CODE XW1

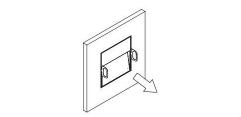
IMAGE:



ILLUSTRATION:







SIMES

Specification of Luminaires

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DESIGN LIGHTING LEVELS

All fluorescent and compact fluorescent lamps are fitted with high frequency ballasts. In order to meet the criteria in BREEAM New Construction 2014, Illuminance (lux) levels are to be in accordance with the above design parameters and specifically illuminance levels in accordance with the SLL Code for Lighting 2012. As well as principal functional areas, this includes all ancillary areas such as store rooms, cold stores, plant and control rooms, toilet, washroom and shower areas, circulation areas, corridors and stairwells, indoor car parks (where applicable).

Sports Hall **500 lux** Admin and offices **300 lux** Kitchen **500 lux** Store rooms **100 lux** Changing Rooms **200-250 lux** Toilet/Washroom Areas **200-250 lux** Circulation **150-200 lux** Dining **200 lux**

For areas where computer screens are regularly used, the lighting design must comply with CIBSE Lighting Guide 7 sections 3.3, 4.6, 4.7, 4.8 and 4.9. This gives recommendations highlighting:

- a. Limits to the luminance of the luminaires to avoid screen reflections. (Manufacturers' data for the luminaires should be sought to confirm this.)
- b. For uplighting, the recommendations refer to the luminance of the lit ceiling rather than the luminaire; a design team calculation is usually required to demonstrate this.
- c. Recommendations for direct lighting, ceiling illuminance, and average wall illuminance.

Wall lighting is to ensure that the walls do not appear dark in relation to the working plane. In accordance with CIBSE LG7 the average wall illuminance above the working plane, from both the direct and reflected components, should be at least 50% of the average horizontal illuminance on the working plane. The average illuminance on the ceiling should be at least 30% of that on the working plane.

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LIGHTING ZONES AND CONTROLS

Lighting controls should comply as follows

• All building user lighting controls are to be clearly labelled and identify which zone of lights are controlled by the switch; the labelling must be engraved and form either a part of the light switch or positioned securely next to the switch. In addition, there should be signs to request that lights be turned off when the space is not occupied.

Lighting zoning should comply as follows:

- Workstations adjacent to windows/atria and other building areas separately zoned and controlled
- Library spaces: separate zoning of stacks, reading and counter areas
- Dining, restaurant, café areas: separate zoning of servery and seating/dining areas
- Bar areas: separate zoning of bar and seating areas
- Wards/bedded areas: zoned lighting control for individual bed spaces and control for staff over groups of bed spaces
- Treatment areas, dayrooms, waiting areas: zoning of seating and activity areas and circulation space with controls accessible to staff.

V41 External Lighting

100.010 PERFORMANCE OBJECTIVES

Design and install the installations to achieve the following BREEAM credits: Hea 01 – Visual Comfort

- One Credit Internal and External Lighting Level, zoning and control Ene 03 External Lighting
 - One Credit Energy efficient light fittings
- Tra 03 Cycle Facilities
 - One Credit Cycle Storage
- Pol 04 Reduction of Night Time Light Pollution
 - One Credit Reduction of Light Pollution

100.020 DESIGN PARAMETERS

BS 5489-1:2013 Lighting of roads and public amenity areas

BS EN 12464-2:2014 Light and lighting - Lighting of work places - Part 2: Outdoor work places BREEAM Credit References Hea 01 – Visual Comfort

ILE Technical Report 5 – The Brightness of Illuminated Advertisements, 2015

Lighting Engineers (ILE) Guidance notes for the reduction of obtrusive light, 2011

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All external lighting located within the construction zone is designed to provide illuminance levels that enable users to perform outdoor visual tasks efficiently and accurately, especially during the night. To demonstrate this, external lighting provided is in accordance with BS 5489-1:2013 Lighting of roads and public amenity areas and BS EN 12464-2:2014 Light and lighting - Lighting of work places - Part 2: Outdoor work places.

Outdoor work places. The lighting will also be controlled to avoid out-of-hours use and operation during daylight hours, where there is sufficient daylight in or around the facility.

- The average initial luminous efficacy of the external light fittings within the construction zone is not less than 60 luminaire lumens per circuit Watt.
- All external light fittings are automatically controlled for prevention of operation during daylight hours and presence detection in areas of intermittent pedestrian traffic.
- The external lighting strategy has been designed in compliance with Table 2 (and its accompanying notes) of the ILP Guidance notes for the reduction of obtrusive light, 2011. Buildings located in Scotland must comply with the light pollution criteria in the guidance note 'Controlling Light Pollution and Reducing Lighting Energy Consumption'. This can be demonstrated via completion of the checklists in Annexes B and C of the guidance note by a relevant member of the design team.
- All external lighting (except for safety and security lighting) can be automatically switched off between 23:00 and 07:00.
- If safety or security lighting is provided and will be used between 23:00 and 07:00, this part of the lighting system complies with the lower levels of lighting recommended during these hours in Table 2 of the ILP's Guidance notes.