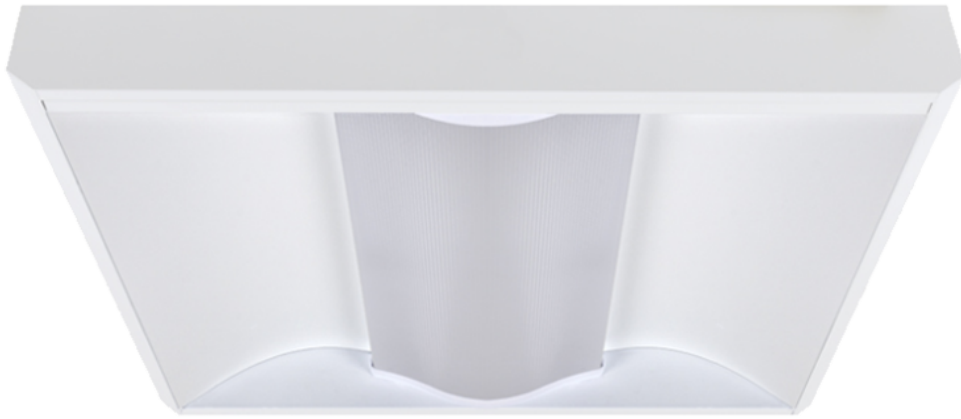




# PRODUCT SPECIFICATION

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## GRADUATE SURFACE



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## INTRODUCTION

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With a traditional gullwing design the Graduate Surface is a popular choice in office and academic applications but is equally well suited to ancillary and circulation areas. With a wide range of options including 600x600 and 1200x600 and recessed and linear variants the Graduate range is easily installed across entire projects regardless of ceiling type. This is complimented with a wide range of lumen outputs, dimming and white tunable options, integral sensors offering presence detection, daylight regulation and wireless grouping as well as integral lithium emergency. We offer a range of wireless control systems providing localised grouping and control as well as comprehensive wireless solutions allowing both standard and emergency luminaires to be centrally monitored.



CE IP20 TM21: L90>60K HOURS / L80>90K HOURS 3 STEP MACADAM ELLIPSE

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## APPLICATION

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- Canteen
- Commercial / Offices
- Corridor
- Education
- Healthcare / Social Housing
- Hotel / Leisure
- Industrial / Manufacturing
- Office

- Retail
- Transport
- Warehousing

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## SPECIFICATION

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### CONSTRUCTION

- Housing: 0.7mm CR4 steel
- Finish: Polyester powder painted BS 00E55 matt white 60% gloss
- Diffuser: 3mm extruded high transmission opal prismatic polycarbonate TP(a) rated
- IP20

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### PERFORMANCE

- Part L2 compliant
- BSEN 12464-1:2011 3000 Candela 65° and UGR 19 compliance
- 3SDCM Three step Macadams ellipse
- TM21: L90>60K Hours / L80>90K Hours
- Up to 140 luminaire lumens per circuit Watt.
- 2861lm and the 5722lm luminaire lumen variants fall below the 3000 candela limit and are suitable for use in offices and classrooms.

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### ENVIRONMENTAL

- Designed to allow simple replacement of components with commonly available tools in compliance with the Eco Design Directive, please see the installation leaflet for maintenance instructions.
- Powered by European branded drivers and emergency modules ensuring replacement parts are easily sourced.
- Every luminaire is labelled with a unique ID number allowing easy identification of spare parts for the lifetime of the product.
- Contains no single use plastics or polystyrene packaging.
- Supplied in plain card boxes with paper tape ensuring packaging is easily recycled.
- Designed to allow simple disassembly for end of life recycling.
- UK based manufacturing providing local support throughout the product lifetime and minimising transportation miles.

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### EMERGENCY

- Available with optional standard, self test and autotest integral emergency with lithium batteries for extended warranty and lifetime.
- Optional Reacta-Link wireless emergency for automated centralised reporting.
- Optional Reacta-Control wireless emergency for automated centralised reporting.
- Optional central battery changeover relay

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### CONTROL

- Optional compatibility with a range of dimming systems including DALI, DSI and Switch Dimming
- Optional White tunable
- Optional Integral Reacta-Air wireless presence and daylight regulations sensor
- Optional integral Reacta-Link for integration with Reacta-Link wireless installations
- Optional integral Reacta-Control for integration with Reacta-Control wireless installations

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### INSTALLATION

- Suitable for surface installation

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### VARIATIONS

- Available with a wide range of colour temperatures and renderings
- Available in a range of housing sizes and lumen outputs
- Available with optional night light

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## IMAGES

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### PRODUCT IMAGES



Graduate Surface 600x600

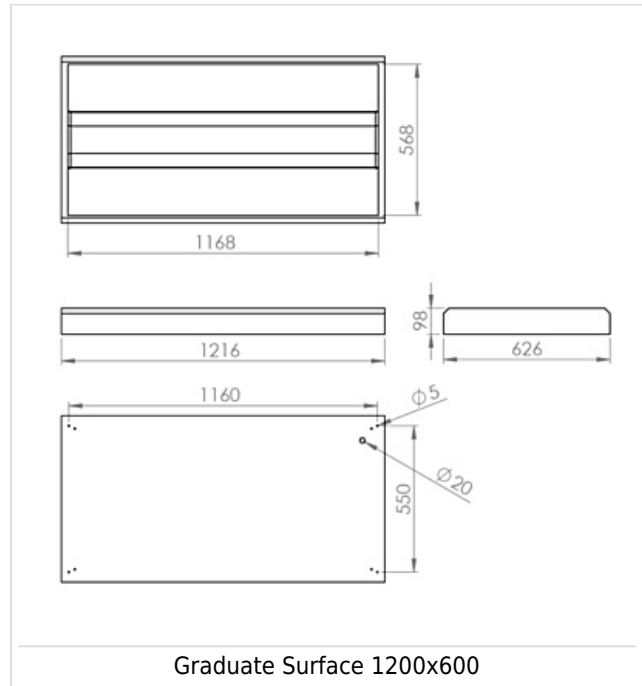
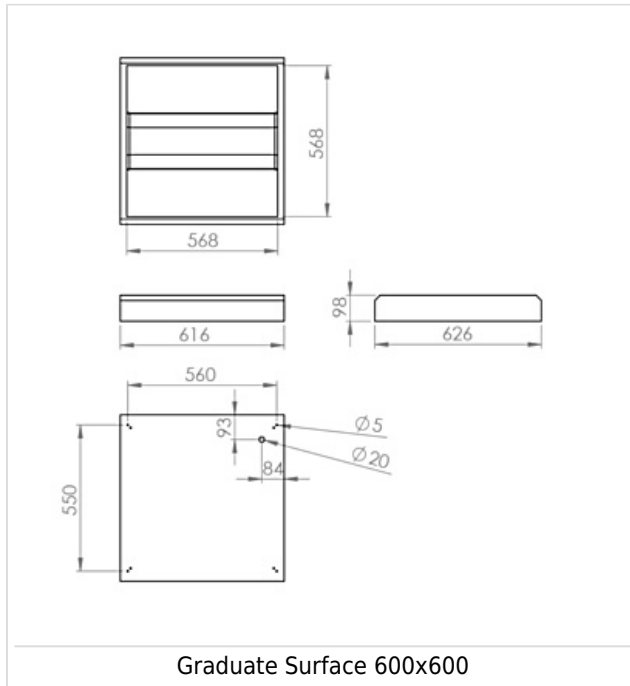


Graduate Surface Reacta-Air



Graduate Surface 1200x600

## TECHNICAL



## WARRANTY

At Dextra our commitment to service has been at the forefront throughout our history spanning more than forty years in the UK lighting market. Our service ethos extends beyond design and delivery, we believe supporting your installation throughout the warranty period is equally crucial, whilst the strength and longevity of Dextra Group provides peace of mind that our warranty will be supported throughout.

The Dextra range is supplied with a five year warranty commencing from the date of delivery. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years drivers, emergency modules, wireless modules, sensors and LED circuits will be supplied free of charge to replace defective components, labour and other associated costs are not included.

Certain ranges and components are subject to exemptions:

- Lithium batteries are provided with a five year warranty. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components. Five year warranty became effective as of 03/02/25, Lithium emergency luminaires supplied prior to this date are supported with a three year on site warranty only. Labour and other associated costs are not included. Nickel Metal Hydride and Nickel Cadmium batteries are provided with a one year warranty for parts and labour.
- Emergency luminaires including AME LED, EXI LED, EXI3, EXI Track, HBE LED, HBE3, OAT2 LED, OEZ2 and Twinspot are supplied with a one year warranty for parts and labour. Lithium variants suffixed with the 5YR part code, the Autotest

emergency with the LA3 part code and wireless variants with LA3RC or LSTR part codes are supplied with a five year warranty. For these extended warranty variants for the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components.

- Protec Micro, PTECF7 Fire Rated Downlights, Serenus and the Opus Sconce are provided with a five year replacement luminaire only warranty. Protec FR Fire Rated Downlights are provided with a 2 year replacement luminaire only warranty.
- Controls systems such as standalone sensors, switches, marshalling boxes and cabling are provided with a one year warranty for both parts and labour. DALI control systems are provided with a two year warranty for both parts and labour.
- LEDextra ranges are supplied with a three year parts or replacement luminaire only warranty with the exception of the IMPR RGBW, the Runway RGBW, the MOD RGBW, Tanek RGBW and the DexRing. These five ranges are supplied with our standard five year warranty during which defects within the first three years will be repaired on site and the warranty includes both parts and labour. For the final two years free of charge replacement components only will be supplied to rectify any failures but labour and other associated costs are not included.
- LEDEX ranges are supplied with a three year replacement luminaire only warranty.
- The Decorative Pendant ranges, Bebo, Dene, Nova, Fino and Stix are supplied with a 3 year replacement luminaire only warranty.

All warranties are subject to correct use of the product and will be invalidated by misuse, for example incorrect installation, unsuitable environmental conditions or incorrect maintenance. It is the duty of the customer to ensure that all the fault lies with the luminaire prior to requesting replacement parts or site repairs. In the event that no defect is found with the product our costs for attending site will be recharged to the customer and credit will not be issued against returned products. No consequential losses incurred resulting from any defect with our product will be reimbursed.

Given the nature of LED technology a small percentage of LEDs may fail during the lifetime of a luminaire, this does not cause a reduction in lumen output. As such LED luminaires are only deemed to be faulty for warranty purposes when in excess of ten percent of LEDs have failed in a single luminaire.

On site repair of products under warranty will be undertaken during normal working hours, 9am to 5pm Monday to Friday, and will require unrestricted access to luminaires. Where required Dextra will provide access equipment to carry out repairs at height, should luminaires have been installed in locations where reasonable provision for maintenance access has not been made we reserve the right to supply replacement product only. On site warranty repairs will only be undertaken on the mainland of the UK and Ireland, in all other locations replacement product only will be provided.

**If you require any assistance with regards to our products please contact our Customer Services department on 01747 858100.**

## ORDER CODES

## LUMINAIRE

| Code                | Description                                                           | Power | Llm/W |
|---------------------|-----------------------------------------------------------------------|-------|-------|
| GRDS L19 OPTPA      | Graduate Surface, 600x600, 1,432llm, Opal Diffuser, Colour 84         | 12.8W | 111   |
| GRDS L24 OPTPA      | Graduate Surface, 600x600, 1,789llm, Opal Diffuser, Colour 84         | 15.2W | 117   |
| GRDS L38 OPTPA      | Graduate Surface, 600x600, 2,798llm Output, Opal Diffuser, Colour 84  | 23.4W | 119   |
| GRDS L48 OPTPA      | Graduate Surface, 600x600, 3,546llm Output, Opal Diffuser, Colour 84  | 29.2W | 121   |
| GRDS L57 OPTPA      | Graduate Surface, 600x600, 4,198llm Output, Opal Diffuser, Colour 84  | 31.6W | 132   |
| GRDS L76 OPTPA      | Graduate Surface, 600x600, 5,619llm Output, Opal Diffuser, Colour 84  | 40.8W | 137   |
| GRDS L126 L38 OPTPA | Graduate Surface, 1200x600, 2,876llm Output, Opal Diffuser, Colour 84 | 22.6W | 127   |
| GRDS L126 L48 OPTPA | Graduate Surface, 1200x600, 3,642llm Output, Opal Diffuser, Colour 84 | 28.3W | 128   |
| GRDS L126 L76 OPTPA | Graduate Surface, 1200x600, 5,735llm Output, Opal Diffuser, Colour 84 | 41.4W | 138   |
| GRDS L126 L96 OPTPA | Graduate Surface, 1200x600, 7,001llm Output, Opal Diffuser, Colour 84 | 49.9W | 140   |

## DIMMING

| Code | Description                                      |
|------|--------------------------------------------------|
| A    | DALI Digital Addressable Lighting Interface      |
| S    | Switch Dimming                                   |
| D    | DSI Digital Dimming                              |
| H    | HFR Analogue 1-10v                               |
| C    | Bi-Level Dimming For Standalone Switched Sensor  |
| WT   | White Tunable (Lumen Outputs Vary from Standard) |

Please click [here](#) for full details on our white tunable offer.

## CONTROL

| Code  | Description                                                     |
|-------|-----------------------------------------------------------------|
| R25E  | Reacta 25, Presence & Bright Out, On / Off, 2.5-4M              |
| R25C* | Reacta 25, Presence & Bright Out, Bi-Level Dimming, 2.5-4M      |
| RAS   | Reacta-Air Bluetooth, Wireless, Presence & Daylight, 2.5-3M     |
| RLI   | Reacta-Link, Wireless Enabled Luminaire                         |
| RLS   | Reacta-Link Wireless, Presence & Daylight, 2.5M-5M              |
| RLM   | Reacta-Link, Wireless, Presence & Bright Out, 2.5-4M            |
| RC    | Reacta-Control, Wireless Enabled Luminaire                      |
| RCMC* | Reacta-Control, Presence & Bright Out, Bi-level Dimming, 2.5-4M |
| RCME  | Reacta-Control, Presence & Bright Out, On / Off, 2.5-4M         |

Please click [here](#) for full details on our wireless controls.

\*Bi-Level Dimming will only dim the luminaire to 10% during absence and brightout, it will not turn the luminaire off.

## EMERGENCY

| Code  | Description                                                |
|-------|------------------------------------------------------------|
| LE3   | Lithium Standard Emergency 3 Hour                          |
| LS3   | Lithium Selftest Emergency 3 Hour                          |
| LA3   | Lithium Autotest Emergency 3 Hour                          |
| LSTR  | Lithium Reacta-Link Emergency 3 Hour                       |
| LA3RC | Lithium Reacta-Control Emergency 3 Hour                    |
| CB    | Central Battery, Please Specify 110V or 230V when Ordering |

## MISCELLANEOUS

| Code | Description |
|------|-------------|
|------|-------------|

|     |                                                                         |
|-----|-------------------------------------------------------------------------|
| C** | Select Colour Temperature and Rendering; C827, C83, C85, C865, C93, C94 |
| LSF | Low Smoke Zero Halogen                                                  |



220-240V / 50-60Hz

IP20

**Terminal Labelling:**

**Power**

L1 Switched Live  
E Earth  
N Neutral

**Emergency**

L2 Unswitched Live  
DA/AT3 DALI Autotest  
DALI Autotest

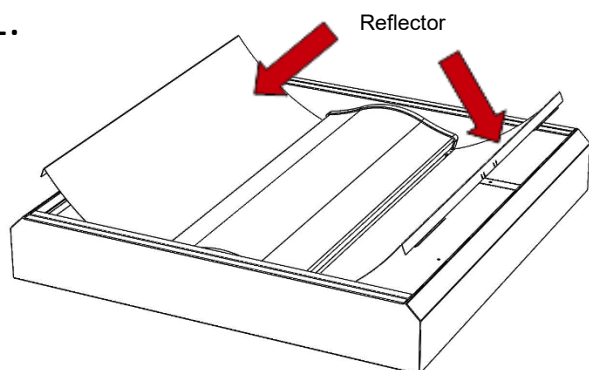
**Dimming**

-D1/DA Analogue/DSI/DALI  
+/D2/DA Analogue/DSI/DALI  
L3 Switch Dim /  
Corridor Function



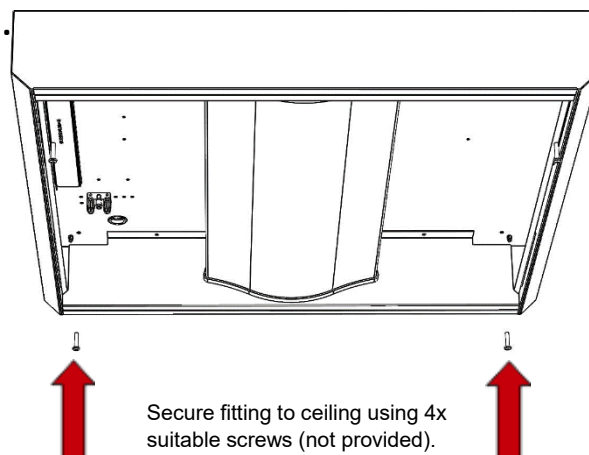
**WARNING:** Luminaire must be earthed. Risk of electric shock from LED boards if operated with cover removed. Installation / operation outside of luminaires intended scope invalidates warranty. Suitable only for domestic / light industrial / industrial applications within the scope of EN55015. Tested to compliance with BSEN 60598: specification for general requirements and tests. Must be installed by a suitably qualified person in accordance with all relevant legislation. Ambient operating temperature of 0°C to 25°C. If maximum operating temperature is exceeded luminaire will automatically dim / switch off. Terminal blocks are rated to 16A unless stated otherwise. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person. **LUMINAIRES WITH EMERGENCY PACK:** When supply is isolated battery output terminals may be live if battery is connected. Isolate mains and battery before servicing. Emergency luminaires require unswitched live connection taken from same phase as switched supply. When unswitched supply is connected status indicator illuminates green, when unswitched supply is disconnected indicator extinguishes and luminaire operates in emergency mode. 24 hour charge period required before undertaking full discharge test. Emergency test sheets provided should be used to record all emergency tests. Batteries should be replaced when 3 hour duration is not met. Excessive switching of permanent live may result in premature battery failure. Battery electrolyte can be harmful to eyes / open wounds, do not puncture, if electrolyte touches skin / eyes flush with water. Do not incinerate batteries.

1.



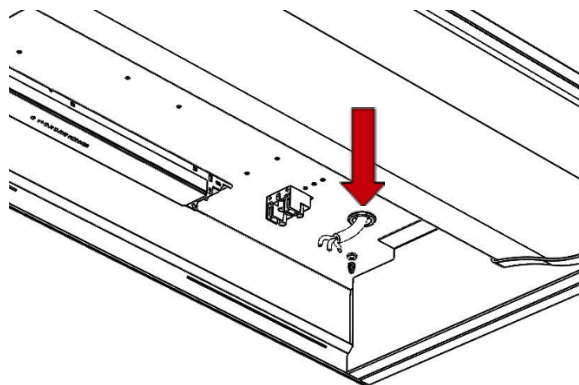
Remove both reflectors.  
Ensure gloves are worn to prevent the reflectors being marked.

2.



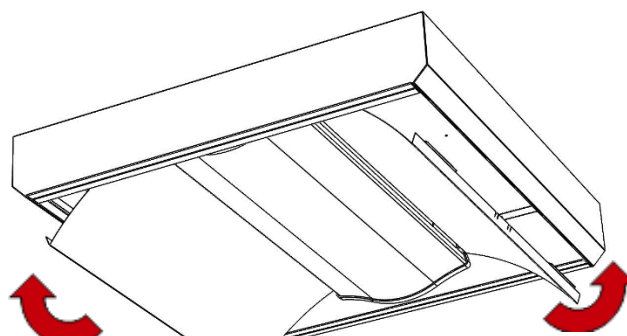
Secure fitting to ceiling using 4x suitable screws (not provided).

3.



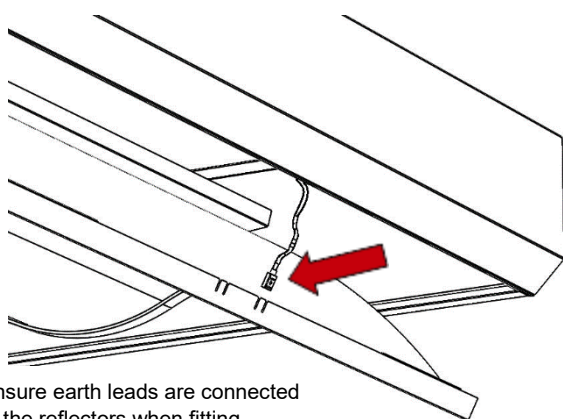
Using pre-drilled cable entry, feed mains cable into the rear of the fitting and wire into relevant terminals.

4.



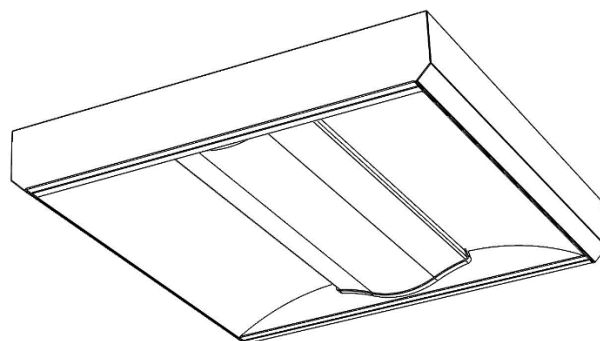
Wearing gloves, carefully replace reflectors.

5.



Ensure earth leads are connected to the reflectors when fitting.

6.



## Maintenance

- 1 Disconnect luminaire before undertaking any maintenance or cleaning.
- 2 Cleaning should be undertaken on external parts of the luminaire only using a slightly damp lint free cloth.
- 3 To access fitting press onto the reflector, the reflector should pop out.
- 4 Use a pan pozi screwdriver to remove screws to access LED Circuit.
- 5 Use a pan pozi screwdriver to remove components.
- 6 Please contact Dextra for assistance with spare component supply.

