

# Fluorescent Lighting Fittings

## Introduction

The lighting fittings illustrated in these pages cover an enormous range; there is a fitting for every purpose and to suit every pocket.

The leading position of these fittings is due to exceptional standards of design and production. Only the best materials are used, and all fittings are designed to please the eye. All fittings are initially subjected to rigorous photometric and physical tests, and periodic tests are also carried out.

**1 Popular Pack** (pp 1:3 to 1:19) A range of inexpensive but well made and elegant fittings suitable for most commercial and industrial installations. A simple backspine forms the basis for a variety of diffusers and light controllers.

**2 New Arrow-slim, Minipack and Nomad** (pp 1:20 to 1:29) Slender backspines designed to take the smaller diameter and shorter fluorescent lamps. These fittings have a number of applications in the commercial field.

**3 Invincible Range** (pp 1:30 to 1:42) Special purpose fittings designed to give satisfactory performance under arduous conditions. Flameproof, dust-tight, weatherproof and similar types.

**4 Atlantic Range** (pp 1:43 to 1:64) A wide range of commercial and industrial fittings for situations where price is less important than elegant appearance, silent operation, rugged construction and fitness of purpose.

**5 Airlume and Special Fittings** (pp 1:65 to 1:66)

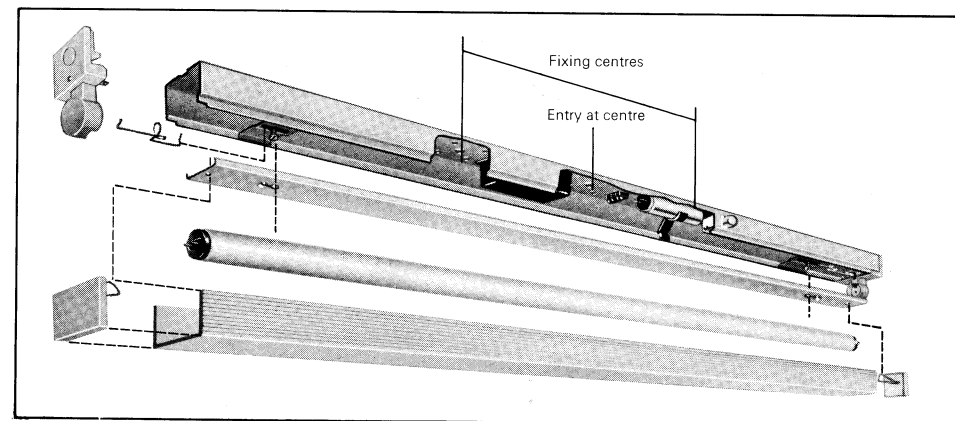
**6 Format Range** (pp 1:67 to 1:77) Modular fittings, both recessed and surface-mounted, designed to suit both metric and imperial modular ceilings. Diffusing and prismatic enclosures are securely held by simple yet effective methods.

**7 OF Hospital Fittings** (p 1:78)

**8 Isora Ceiling Systems** (pp 1:79 to 1:89)

**9 Trunking Systems** (pp 1:90 to 1:99.) Trakline, the most versatile busbar trunking system sold at the most economical price and the well tried and proved lightweight trunking. Liteline and Atlantic trunking systems.

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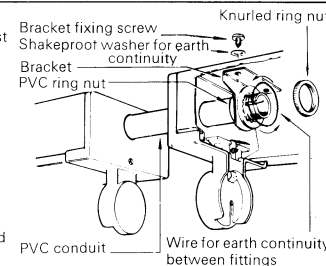


### TOP TEN FEATURES

- 1 Extensive range of 2400mm/8ft, 1800mm/6ft, 1500mm/5ft, 1200mm/4ft and 600mm/2ft single and twin tube fittings finished in stark white stoved enamel.
- 2 All fittings completely wired and fully tested to ensure reliable performance and quality.
- 3 Supplied complete with high efficiency white tube(s).
- 4 Diffusers and prismatic controllers in light stabilized polystyrene with spring-mounted end plates.
- 5 Spring-mounted lampholders with knock-outs for end entry.
- 6 Solid filled control gear for long life and reliable operation.
- 7 Three-way mains terminal block.
- 8 Time and money saved by fast fixing features.
- 9 Slim twin types designed specifically for industrial use.
- 10 All fittings power factor corrected except the 600mm/2ft single. The 2400mm/8ft fittings operate at 0.66 leading power factor.

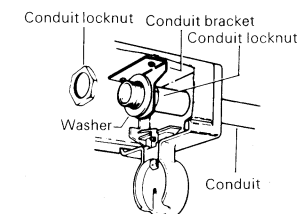
### Three-year guarantee

Popular Pack fittings are guaranteed against defects which under proper use appear within three years after they have been delivered and which arise from faulty design, materials or workmanship. This guarantee excludes the starter switch and fluorescent tube which are subject to separate guarantees. In the event of the fitting, or any components thereof becoming faulty after installation and during the period of guarantee, the fitting or component (with the exception of the starter switch and fluorescent tube) will be repaired or replaced at the company's discretion at no charge, provided it has been used correctly and returned carriage paid and adequately packed to the nearest company depot.

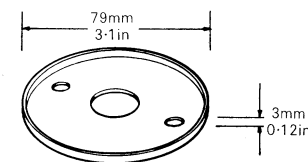


### PP 4618

Continuous mounting coupler used to maintain the correct spacing in continuous runs of single or wide twin fittings with or without attachments. This accessory can also be used for through-wiring provided the correct grade of high temperature cable is used.

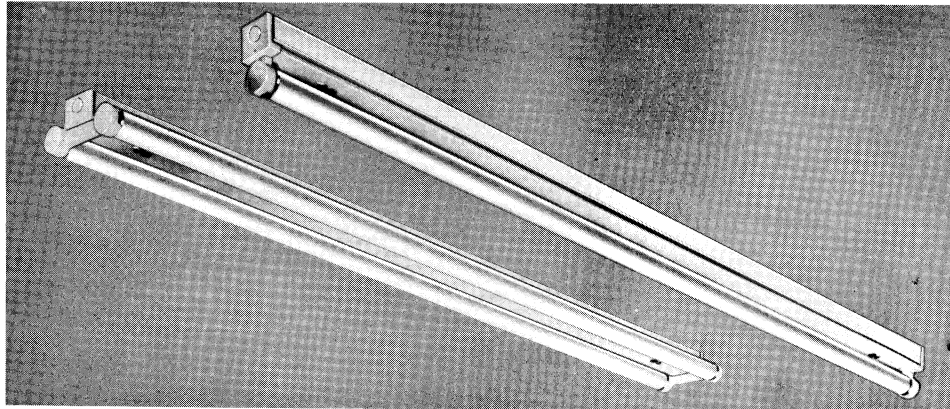


**PP 4620:** Free on request. End conduit bracket is used when single or wide twin fittings are installed on surface conduit systems or where conduit is required to enter at the end of the fitting. This component is not needed for slim twin fittings.



**PP 4619:** Free on request. Pattress block cover can be used to shield a conduit box or to cover marks left on the ceiling by original fitting or ceiling plate; 26 swg mild steel, white stoved enamel.

## Popular Pack batten fittings



The Popular Pack batten is available in 600mm/2ft, 1200mm/4ft, 1500mm/5ft, 1800mm/6ft and 2400mm/8ft single tube and twin tube fittings. The batten is packed complete with tube(s) in the same carton which effectively reduces handling costs. Spring-loaded lampholders are incorporated which embrace the lamp cap to prevent any strain on the lamp pins. Relamping from either end is possible even on 2400mm/8ft fittings.

The batten totally encloses the control gear and the cover plate is speedily detached.

The starter switch is readily accessible through the side of the fitting.

End conduit entry is through knock-outs in the ends of the lampholders and a bracket (Catalogue no. PP 4620) is available free of charge to secure the conduit into the fitting.

Through-wiring facilities are available using the end entries and accessory kit (Catalogue no. PP 4618).

For continuous mounting a space of 13mm/0.5in between battens and trough reflectors and 48mm/1.875in between diffusers is essential so that correct maintenance can be performed. Fittings are finished in stark white stoved enamel for maximum reflection and efficiency. These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

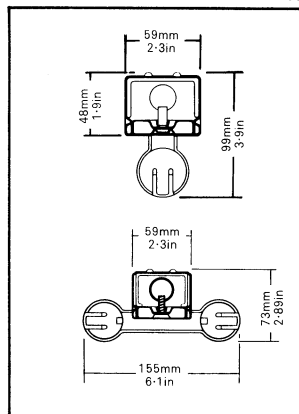
Standard fitting 230/240V 50Hz.

Fittings listed below can be supplied to order at the voltages shown at no extra charge:

20W 600mm/2ft } 200/210V, 220V and  
40W 1200mm/4ft } 250VHz.  
65W 1500mm/5ft }

Details of fittings for other supplies on page 1:19.

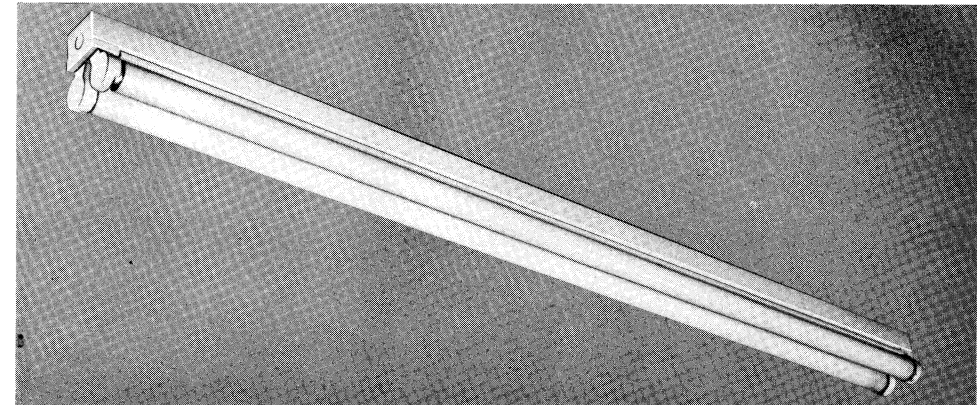
PP 265 PP 65



### RANGE: Packed complete with White tube(s)

Nominal length		Rating	Circuit	Batten Catalogue no.	Length		Weight (incl. tubes)		Fixing centres	
mm	ft				mm	in	kg	lb	mm	in
600	2	20W Single	Switchstart	PP 20	615	24.2	1.8	4	500	19.7
600	2	20W Twin	Switchstart	PP 220	615	24.2	2.16	2.16	500	19.7
1200	4	40W Single	Switchstart	PP 40	1224	48.2	2.6	5.75	595-615	24
1200	4	40W Single	Resonant Start	PPQ 40	1224	48.2	3.0	6.65	595-615	24
1200	4	40W Twin	Switchstart	PP 240	1224	48.2	4.1	9	595-615	24
1200	4	40W Twin	Resonant Start	PPQ 240	1224	48.2	4.9	10.75	595-615	24
1500	5	65W Single	Switchstart	PP 65	1525	60.1	3.4	7.5	595-615	24
1500	5	65W Single	Resonant Start	PPQ 65	1525	60.1	3.8	8.4	595-615	24
1500	5	65W Twin	Switchstart	PP 265	1525	60.1	5.45	12	595-615	24
1500	5	65W Twin	Resonant Start	PPQ 265	1525	60.1	6.25	13.75	595-615	24
1800	6	85W Single	Resonant Start	PPQ 685	1788	70.4	4.32	9.5	595-615	24
1800	6	85W Twin	Resonant Start	PPQ 2685	1788	70.4	6.7	14.75	595-615	24
2400	8	125W Single	Switchstart	PP 125	2398	94.4	5.23	11.5	1200-1220	48
2400	8	125W Twin	Switchstart	PP 2125	2398	94.4	7.95	17.5	1200-1220	48

## Popular Pack slim twin batten fittings



XPP 265

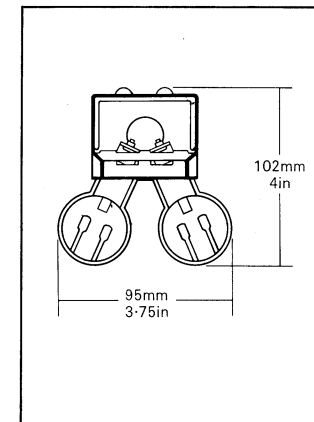
This twin batten is designed with closely spaced lampholders and is the basis of a number of reflector fittings in the Popular Pack range. Since it is intended for industrial use, the ends of the fitting are provided with knock-outs permitting direct end-to-end mounting. Battens are made of sheet steel, bonderized and finished stark white.

These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

Standard fitting 230/240V 50Hz.

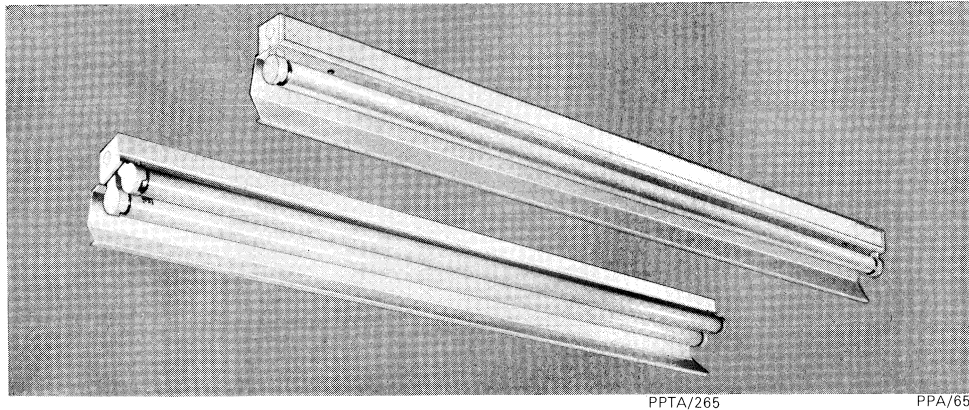
Fittings listed below can be supplied to order at the voltages shown at no extra charge: 40W 1200mm/4ft } 200/210, 220 65W 1500mm/5ft } and 250V 50Hz. Details of fittings for other supplies on page 1:19.



### RANGE: Packed complete with White tube(s)

Nominal length		Rating	Circuit	Batten Catalogue no.	Length		Weight (incl. tubes)		Fixing centres	
mm	ft				mm	in	kg	lb	mm	in
1200	4	40W Twin	Switchstart	XPP 240	1241	48.8	4.1	9	595-615	24
1200	4	40W Twin	Resonant Start	XPPQ 240	1241	48.8	4.9	10.75	595-615	24
1500	5	65W Twin	Switchstart	XPP 265	1545	60.8	5.45	12	595-615	24
1500	5	65W Twin	Resonant Start	XPPQ 265	1545	60.8	6.25	13.75	595-615	24
1800	6	85W Twin	Resonant Start	XPPQ 2685	1806	71.1	6.7	14.75	595-615	24
2400	8	125W Twin	Switchstart	XPP 2125	2416	95.1	7.94	17.5	1200-1220	48

## Popular Pack PPA and PPTA angle reflector fittings

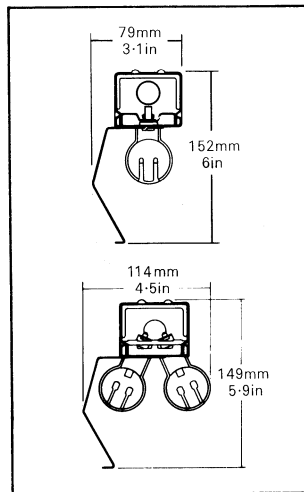


These are asymmetrical metal reflectors attached to the Popular Pack batten by means of screws fitted into slideable spring nuts retained in the batten. These screws engage into keyhole slots in the reflectors.

Applications include blackboards, wall charts, shop window lighting, etc. Reflectors are finished in stark white stoved enamel for maximum reflection and fittings may be close ceiling or conduit mounted. These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

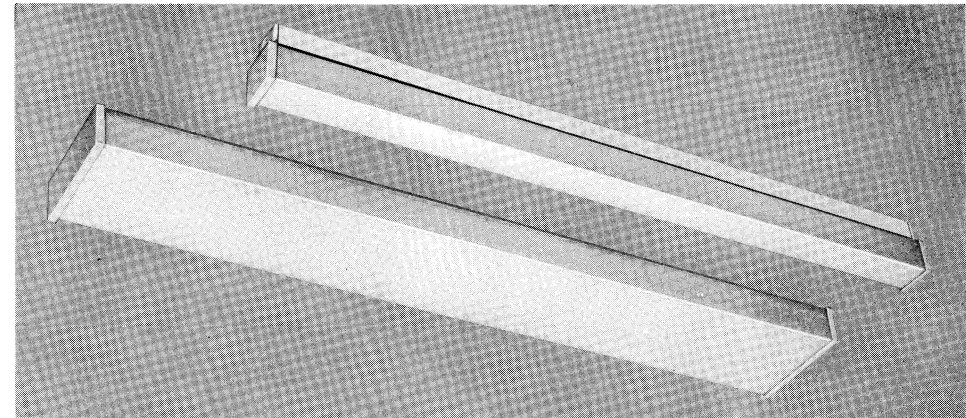
Standard fitting 230/240V 50Hz. Fittings listed below can be supplied to order at the voltages shown at no extra charge:  
 40W 1200mm/4ft | 200/210V, 220V  
 65W 1500mm/5ft | and 250V 50Hz  
 Details of fittings for other supplies on page 1:19.



**RANGE:** Packed complete with White tube(s)

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Reflector Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
1200	4	40W Single	SS	PPA/40	1224	48.2	3.97	8.75	595-615	24	PPA 4	PP 40
1200	4	40W Single	SRS	PPA/Q40	1224	48.2	4.37	9.65	595-615	24	PPA 4	PPQ 40
1200	4	40W Twin	SS	PPTA/240	1241	48.8	5	11	595-615	24	PPA 24	XPP 240
1200	4	40W Twin	SRS	PPTA/Q240	1241	48.8	5.8	12.75	595-615	24	PPA 24	XPPQ 240
1500	5	65W Single	SS	PPA/65	1525	60.1	5.1	11.25	595-615	24	PPA 5	PP 65
1500	5	65W Single	SRS	PPA/Q65	1525	60.1	5.5	12.15	595-615	24	PPA 5	PPQ 65
1500	5	65W Twin	SS	PPTA/265	1545	60.8	6.3	13.7	595-615	24	PPA 25	XPP 265
1500	5	65W Twin	SRS	PPTA/Q265	1545	60.8	7.1	15.60	595-615	24	PPA 25	XPPQ 265
1800	6	85W Single	SRS	PPA/Q685	1788	70.4	6	13.25	595-615	24	PPA 6	PPQ 685
1800	6	85W Twin	SRS	PPTA/Q2685	1806	71.1	7.5	16.5	595-615	24	PPA 26	XPPQ 2685
2400	8	125W Single	SS	PPA/125	2398	94.4	7.85	17.25	1200-1220	48	PPA 8	PP 125
2400	8	125W Twin	SS	PPTA/2125	2416	95.1	10	22	1200-1220	48	PPA 28	XPP 2125

## Popular Pack PPC prismatic controller fittings

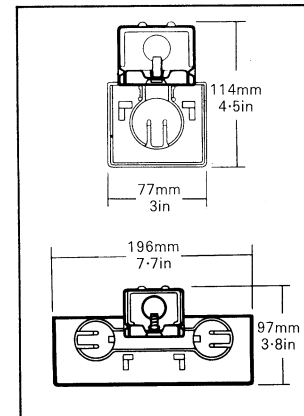


PPC/265 PPC/65

These attachments are made of transparent extruded plastic with side prisms, the base being embossed with a fine prismatic pattern. They are quickly attached or detached from the batten by the clip-on action of the end caps. These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

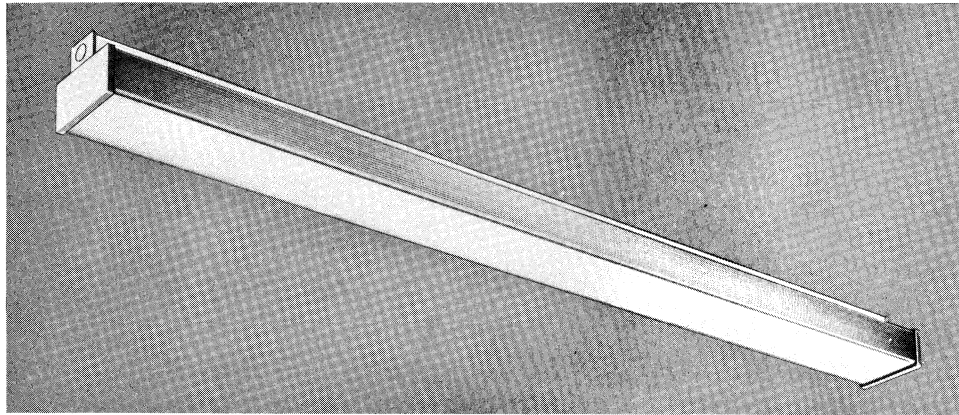
Standard fitting 230/240V 50Hz. Fittings listed below can be supplied to order at the voltages shown at no extra charge:  
 20W 600mm/2ft | 200/210V,  
 40W 1200mm/4ft | 220V and 250V  
 65W 1500mm/5ft | 50Hz.  
 Details of fittings for other supplies on page 1:19.



**RANGE:** Packed complete with White tube(s)

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Diffuser Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
600	2	20W Single	SS	PPC/20	638	25.1	2.1	4.64	500	19.7	PPC 2	PP 20
600	2	20W Twin	SS	PPC/220	638	25.1	2.84	6.25	500	19.7	PPC 22	PP 220
1200	4	40W Single	SS	PPC/40	1248	49.1	3.2	7	595-615	24	PPC 24	PP 40
1200	4	40W Single	SRS	PPC/Q40	1248	49.1	3.6	7.9	595-615	24	PPC 4	PPQ 40
1200	4	40W Twin	SS	PPC/240	1248	49.1	5.23	11.5	595-615	24	PPC 24	PP 240
1200	4	40W Twin	SRS	PPC/Q240	1248	49.1	6.03	13.25	595-615	24	PPC 24	PPQ 240
1500	5	65W Single	SS	PPC/65	1550	61	4.2	9.2	595-615	24	PPC 5	PP 65
1500	5	65W Single	SRS	PPC/Q65	1550	61	4.6	10.1	595-615	24	PPC 5	PPQ 65
1500	5	65W Twin	SS	PPC/265	1550	61	6.2	13.5	595-615	24	PPC 25	PP 265
1500	5	65W Twin	SRS	PPC/Q265	1550	61	7.0	15.40	595-615	24	PPC 25	PPQ 265
1800	6	85W Single	SRS	PPC/Q685	1818	71.4	4.5	10	595-615	24	PPC 6	PPQ 685
1800	6	85W Twin	SRS	PPC/Q2685	1818	71.4	6.49	14.3	595-615	24	PPC 26	PPQ 2685
2400	8	125W Single	SS	PPC/125	2428	95.4	6.53	14.4	1200-1220	48	PPC 8	PP 125
2400	8	125W Twin	SS	PPC/2125	2428	95.4	9.8	21.5	1200-1220	48	PPC 28	PP 2125

## Popular Pack PPL prismatic controller fittings



PPL/Q685

This prismatic controller for single tube fittings is a larger version of the single PPC type described on the previous page.

The increased size makes possible a higher degree of light control and the attachment is designed to provide lower brightness lighting in situations where glare could present problems.

These diffusers are quickly attachable or detachable from the batten by the clip-on action of the end caps.

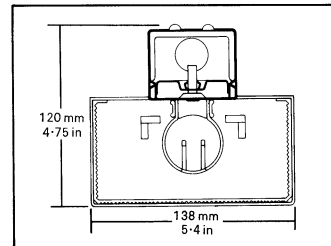
These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

Standard fitting 230/240V 50Hz.

Fittings listed below can be supplied to order at the voltages shown at no extra charge.

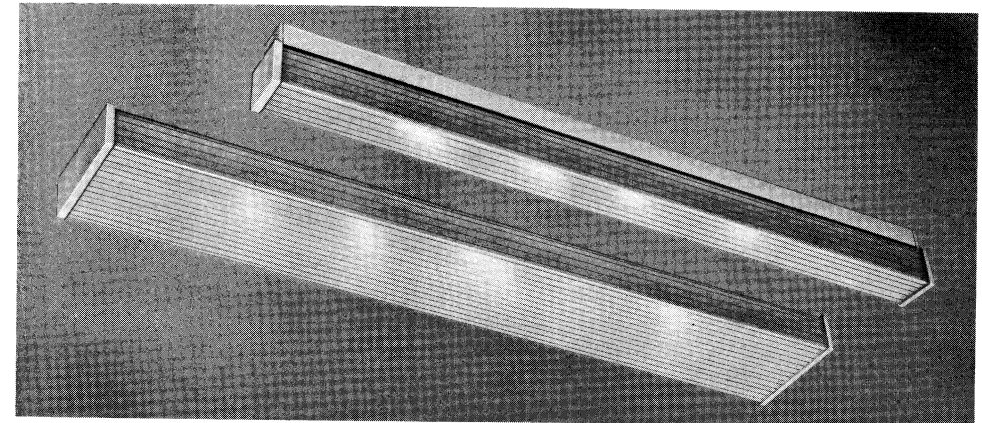
40W 1200mm/4ft } 200/210V, 220V  
65W 1500mm/5ft } and 250V 50Hz.  
Details of fittings for other supplies on page 1:19.



### RANGE: Packed complete with White tube

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Reflector Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
1200	4	40W Single	SS	PPL/40	1248	49-1	3-6	8	595-615	24	PPL 4	PP 40
1200	4	40W Single	SRS	PPL/Q40	1248	49-1	4-0	8-8	595-615	24	PPL 4	PPQ 40
1500	5	65W Single	SS	PPL/65	1550	61	4-7	10-25	595-615	24	PPL 5	PP 65
1500	5	65W Single	SRS	PPL/Q65	1550	61	5-1	11-20	595-615	24	PPL 5	PPQ 65
1800	6	85W Single	SRS	PPL/Q685	1818	71-4	5-8	12-75	595-615	24	PPL 6	PPQ 685
2400	8	125W Single	SS	PPL/125	2428	95-4	7	15-5	1200-1220	48	PPL 8	PP 125

## Popular Pack PPD plastic diffuser fittings



PPD/265

PPD/65

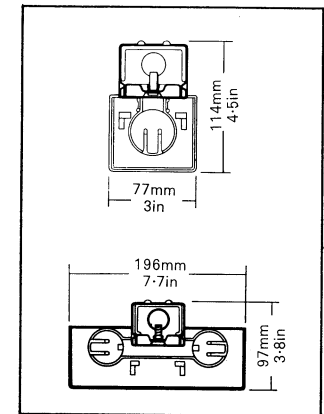
This white opal diffuser in extruded plastic with external reeding provides an extremely attractive and efficient fitting designed for general commercial use. The white plastic end plates are simply fitted to the batten and enable the diffuser to be quickly and easily removed for cleaning and general maintenance. These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

Standard fitting 230/240V 50Hz. Fittings listed below can be supplied to order at the voltages shown at no extra charge.

20W 600mm/2ft } 200/210V,  
40W 1200mm/4ft } 220V and 250V  
65W 1500mm/5ft } 50Hz.

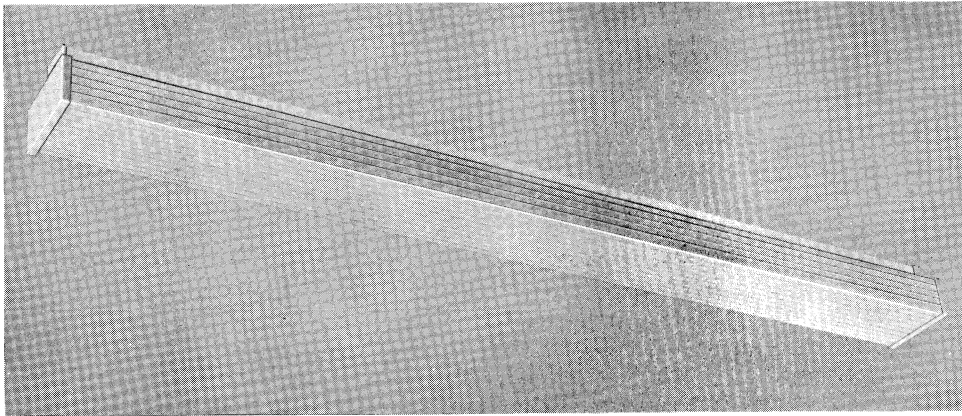
Details of fittings for other supplies on page 1:19.



### RANGE: Packed complete with Warm White tube(s)

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Diffuser Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
600	2	20W Single	SS	PPD/20	638	25-1	2	4-5	500	19-7	PPD 2	PP 20
600	2	20W Twin	SS	PPD 220	638	25-1	2-6	5-75	500	19-7	PPD 22	PP 220
1200	4	40W Single	SS	PPD/40	1248	49-1	3	6-75	595-615	24	PPD 4	PP 40
1200	4	40W Single	SRS	PPD/Q40	1248	49-1	3-4	7-50	595-615	24	PPD 4	PPQ 40
1200	4	40W Twin	SS	PPD/240	1248	49-1	5	11	595-615	24	PPD 24	PP 240
1200	4	40W Twin	SRS	PPD/Q240	1248	49-1	5-8	12-75	595-615	24	PPD 24	PPQ 240
1500	5	65W Single	SS	PPD/65	1550	61	4	8-75	595-615	24	PPD 5	PP 65
1500	5	65W Single	SRS	PPD/Q65	1550	61	4-4	9-65	595-615	24	PPD 5	PPQ 65
1500	5	65W Twin	SS	PPD/265	1550	61	6-6	14-5	595-615	24	PPD 25	PP 265
1500	5	65W Twin	SRS	PPD/Q265	1550	61	7-4	16-25	595-615	24	PPD 25	PPQ 265
1800	6	85W Single	SRS	PPD/Q685	1818	71-4	4-9	10-75	595-615	24	PPD 6	PPQ 685
1800	6	85W Twin	SRS	PPD/Q2685	1818	71-4	7-8	17-25	595-615	24	PPD 26	PPQ 2685
2400	8	125W Single	SS	PPD/125	2428	95-4	5-9	13	1200-1220	48	PPD 8	PP 125
2400	8	125W Twin	SS	PPD/2125	2428	95-4	9-6	21-25	1200-1220	48	PPD 28	PP 2125

## Popular Pack PPM plastic diffuser fittings



PPM/65

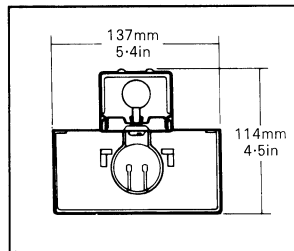
These attachments for single tube fittings are a larger version of the PPD type, but have a lower BZ rating, making them suitable in situations where such a fitting is specified. They are quickly attached and detached from the batten by the clip-on action of the end caps. These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

Standard fitting 230/240V 50Hz. Fittings listed below can be supplied to order at the voltages shown at no extra charge:

40W 1200mm/4ft } 200/210V, 220V  
65W 1500mm/5ft } and 250V 50Hz.

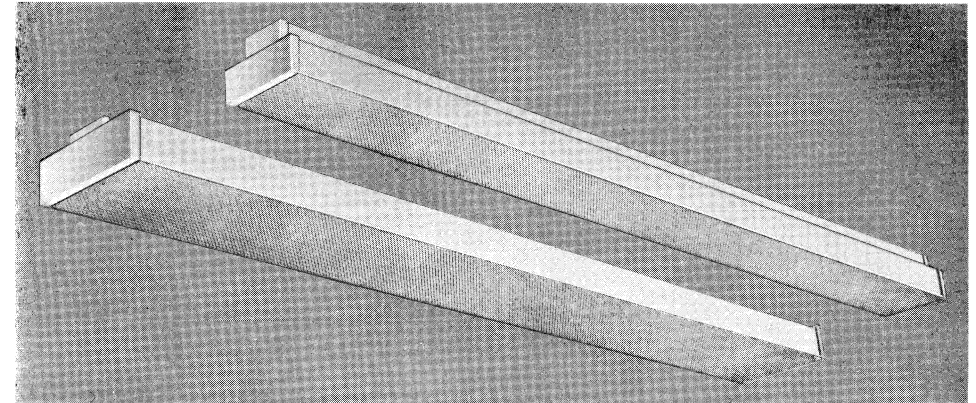
Details of fittings for other supplies on page 1:19.



**RANGE:** Packed complete with Warm White tube

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Reflector Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
1200	4	40W Single	SS	PPM/40	1248	49-1	3-4	7-5	595-615	24	PPM 4	PP 40
1200	4	40W Single	SRS	PPM/Q40	1248	49-1	3-8	8-4	595-615	24	PPM 4	PPQ 40
1200	4	40W Twin	SS	PPM/240	1248	49-1	5-23	11-5	595-615	24	PPM 24	PP 240
1200	4	40W Twin	SRS	PPM/Q240	1248	49-1	6-03	13-25	595-615	24	PPM 24	PPQ 240
1500	5	65W Single	SS	PPM/65	1550	61	4-42	9-75	595-615	24	PPM 5	PP 65
1500	5	65W Single	SRS	PPM/Q65	1550	61	4-82	10-65	595-615	24	PPM 5	PPQ 65
1500	5	65W Twin	SS	PPM/265	1550	61	6-2	13-5	595-615	24	PPM 25	PP 265
1500	5	65W Twin	SRS	PPM/Q265	1550	61	7-0	15-25	595-615	24	PPM 25	PPQ 265
1800	6	85W Single	SRS	PPM/Q685	1818	71-4	5-67	12-25	595-615	24	PPM 6	PPQ 685
1800	6	85W Twin	SRS	PPM/Q2685	1818	71-4	6-5	14-3	595-615	24	PPM 26	PPQ 2685
2400	8	125W Single	SS	PPM/125	2428	95-4	6-8	15	1200-1220	48	PPM 8	PP 125
2400	8	125W Twin	SS	PPM/2125	2428	95-4	9-8	21-5	1200-1220	48	PPM 28	PP 2125

## Popular Pack PPE opal sided prismatic controller fittings



PPE/265 PPE/65

These attachments are for use in situations where visual comfort is of primary importance. The sides have an opal finish and the base is embossed with a fine prismatic pattern.

They are quickly and easily attached or detached from the batten by the clip-on action of the end caps.

These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

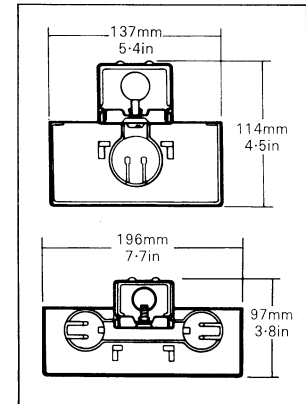
### Supply voltage

Standard fitting 240V 50Hz.

Fittings listed below can be supplied to order at the voltages shown at no extra charge:

40W 1200mm/4ft } 200/210, 220V  
65W 1500mm/5ft } and 250V 50Hz.

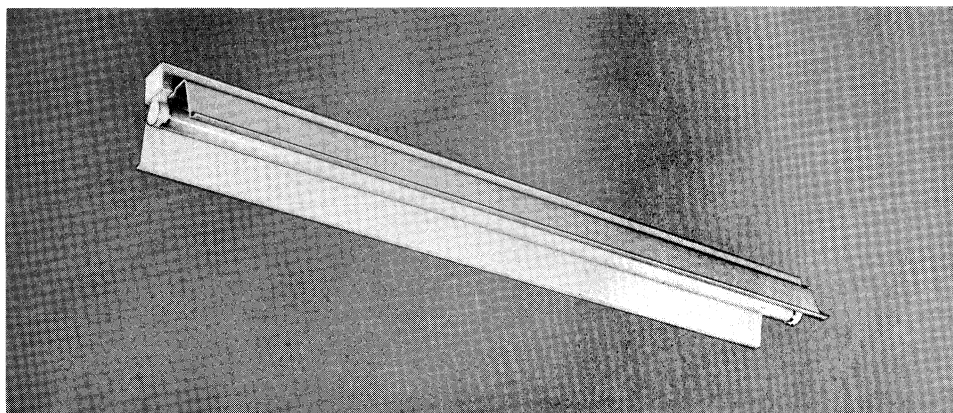
Details of fittings for other supplies on page 1:19.



**RANGE:** Packed complete with Warm White tube

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Diffuser Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	in	mm	in		
1200	4	40W Single	SS	PPE/40	1248	49-1	3-4	7-5	595-615	24	PPE 4	PP 40
1200	4	40W Single	SRS	PPE/Q40	1248	49-1	3-8	8-4	595-615	24	PPE 4	PPQ 40
1200	4	40W Twin	SS	PPE/240	1248	49-1	5-23	11-5	595-615	24	PPE 24	PP 240
1200	4	40W Twin	SRS	PPE/Q240	1248	49-1	6-03	13-25	595-615	24	PPE 24	PPQ 240
1500	5	65W Single	SS	PPE/65	1550	61	4-42	9-75	595-615	24	PPE 5	PP 65
1500	5	65W Single	SRS	PPE/Q65	1550	61	4-82	10-65	595-615	24	PPE 5	PPQ 65
1500	5	65W Twin	SS	PPE/265	1550	61	6-2	13-5	595-615	24	PPE 25	PP 265
1500	5	65W Twin	SRS	PPE/Q265	1550	61	7-0	15-25	595-615	24	PPE 25	PPQ 265
1800	6	85W Single	SRS	PPE/Q685	1818	71-4	5-67	12-25	595-615	24	PPE 6	PPQ 685
1800	6	85W Twin	SRS	PPE/Q2685	1818	71-4	6-5	14-3	595-615	24	PPE 26	PPQ 2685
2400	8	125W Single	SS	PPE/125	2428	95-4	6-8	15	1200-1220	48	PPE 8	PP 125
2400	8	125W Twin	SS	PPE/2125	2428	95-4	9-8	21-5	1200-1220	48	PPE 28	PP 2125

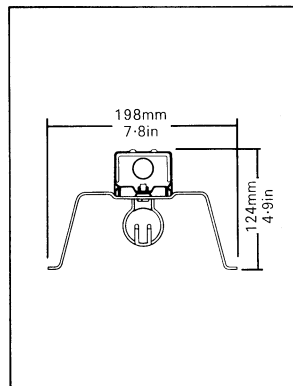
## Popular Pack PPO plastic reflector fittings



PPO/65

This opal plastic trough reflector provides generous upward light and an even spread of light in the downward plane. The plastic material is strong and sufficiently light-fast to maintain its efficiency with adequate maintenance throughout the life of the fitting. The reflector is easily attached to the batten by two screws retained by slideable spring nuts.

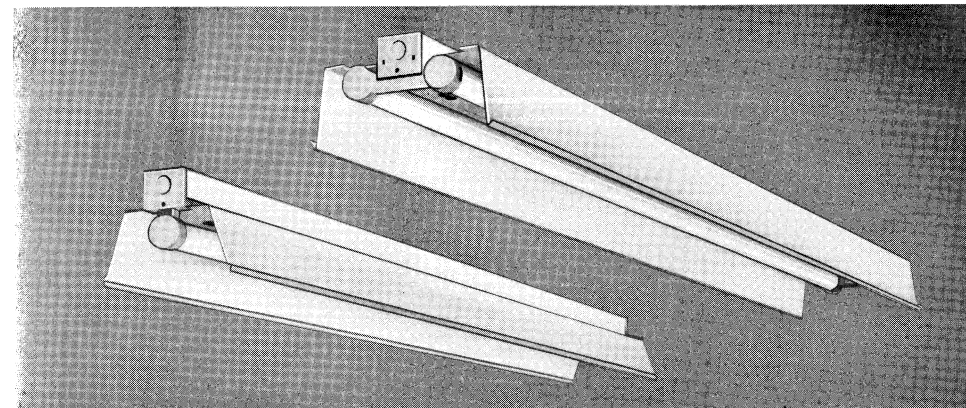
These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.  
**Supply voltage**  
 Standard fitting 230/240V 50Hz. Fittings listed below can be supplied to order at the voltages shown at no extra charge:  
 40W 1200mm/4ft } 200/210V, 220V  
 65W 1500mm/5ft } and 250V 50Hz.  
 Details of fittings for other supplies on page 1:19.



**RANGE:** Packed complete with White tube(s)

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Reflector Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
1200	4	40W Single	SS	PPO/40	1224	48-2	3.5	7.7	595-615	24	PPO 4	PP 40
1200	4	40W Single	SRS	PPO/Q40	1224	48-2	3.9	8.6	595-615	24	PPO 4	PPQ 40
1500	5	65W Single	SS	PPO/65	1525	60-1	4.6	10.1	595-615	24	PPO 5	PP 65
1500	5	65W Single	SRS	PPO/Q65	1525	60-1	5	11	595-615	24	PPO 5	PPQ 65
1800	6	85W Single	SRS	PPO/Q685	1788	70-4	5.7	12.5	595-615	24	PPO 6	PPQ 685
2400	8	125W Single	SS	PPO/125	2398	94-4	7.1	15.5	1200-1220	48	PPO 8	PP 125

## Popular Pack PPR metal reflector fittings

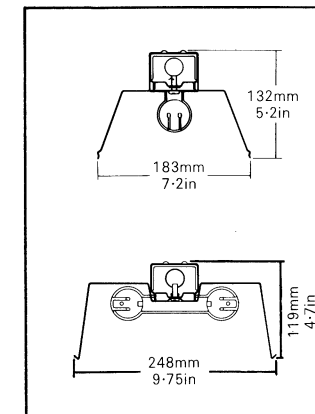


PPR/65

PPR/265

These open-ended slotted metal trough reflectors give generous upward lighting. Finished in stark white stoved enamel, they are easily fitted by means of sliding captive screws, providing extremely attractive and efficient attachments. These reflectors are suitable for many industrial applications where high efficiency and easy maintenance are important features.

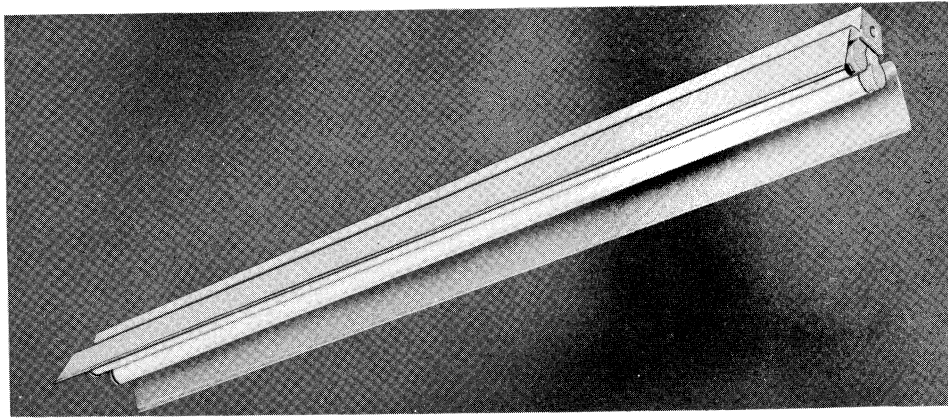
These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.  
**Supply voltage**  
 Standard fitting 230/240V 50Hz. Fittings listed below can be supplied to order at the voltages shown at no extra charge:  
 40W 1200mm/4ft } 200/210V, 220V  
 65W 1500mm/5ft } and 250V 50Hz.  
 Details of fittings for other supplies on page 1:19.



**RANGE:** Packed complete with White tube(s)

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Reflector Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
1200	4	40W Single	SS	PPR/40	1224	48-2	4.8	10.5	595-615	24	PPR 4	PP 40
1200	4	40W Single	SRS	PPR/Q40	1224	48-2	5.2	11.4	595-615	24	PPR 4	PPQ 40
1200	4	40W Twin	SS	PPR/240	1224	48-2	6.8	15	595-615	24	PPR 24	PP 240
1200	4	40W Twin	SRS	PPR/Q240	1224	48-2	7.6	16.75	595-615	24	PPR 24	PPQ 240
1500	5	65W Single	SS	PPR/65	1525	60-1	6.3	13.75	595-615	24	PPR 5	PP 65
1500	5	65W Single	SRS	PPR/Q65	1525	60-1	6.7	14.65	595-615	24	PPR 5	PPQ 65
1500	5	65W Twin	SS	PPR/265	1525	60-1	8.3	18.3	595-615	24	PPR 25	PP 265
1500	5	65W Twin	SRS	PPR/Q265	1525	60-1	9.1	20.0	595-615	24	PPR 25	PPQ 265
1800	6	85W Single	SRS	PPR/Q685	1788	70-4	7.5	16.5	595-615	24	PPR 6	PPQ 685
1800	6	85W Twin	SRS	PPR/Q2685	1788	70-4	10.2	22.5	595-615	24	PPR 26	PPQ 2685
2400	8	125W Single	SS	PPR/125	2398	94-4	9.2	20.25	1200-1220	48	PPR 8	PP 125
2400	8	125W Twin	SS	PPR/2125	2398	94-4	14.0	30.8	1200-1220	48	PPR 28	PP 2125

## Popular Pack PPT Twindustrial twin reflector fittings



PPT/Q2685

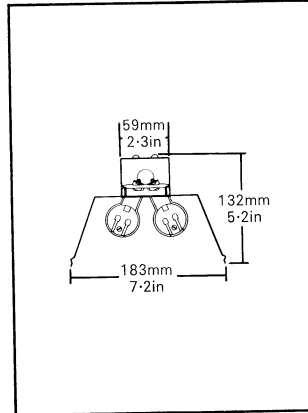
These twin open-ended slotted metal reflector fittings incorporate all the well-proven design features of the existing Popular Pack types plus a number of additional features of maximum advantage in a fitting for industrial use.

Metal end plates incorporating knock-outs are used and the tube spacing enables a smaller reflector to be employed.

These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

### Supply voltage

Standard fitting 230/240V 50Hz.  
Fittings listed below can be supplied to order at the voltages shown at no extra charge:  
40W 1200mm/4ft] 200/210V, 220V  
65W 1500mm/5ft] and 250V 50Hz  
Details of fittings for other supplies on page 1:19.

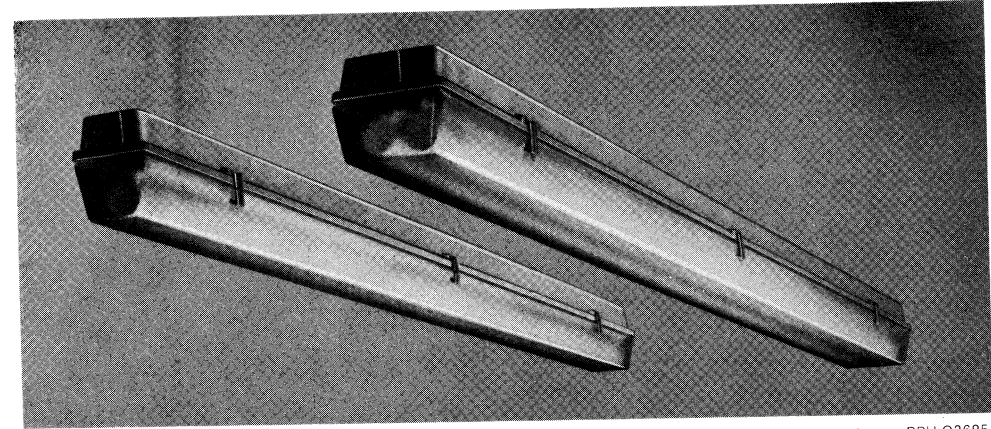


**RANGE:** Packed complete with White tubes

Nominal length		Rating	Circuit	Fitting Catalogue no.	Length		Weight		Fixing centres		Reflector Catalogue no.	Batten Catalogue no.
mm	ft				mm	in	kg	lb	mm	in		
1200	4	40W Twin	SS	PPT/240	1241	48.8	5.9	13	595-615	24	PPT 24	XPP 240
1200	4	40W Twin	SRS	PPT/Q240	1241	48.8	6.7	14.75	595-615	24	PPT 24	XPPQ 240
1500	5	65W Twin	SS	PPT/265	1545	60.8	7.2	16.2	595-615	24	PPT 25	XPP 265
1500	5	65W Twin	SRS	PPT/Q265	1545	60.8	8.0	17.95	595-615	24	PPT 25	XPPQ 265
1800	6	85W Twin	SRS	PPT/Q2685	1806	71.1	8.8	19.25	595-615	24	PPT 26	XPPQ 2685
2400	8	125W Twin	SS	PPT/2125	2416	95.1	11.8	26	1200-1220	48	PPT 28	XPP 2125

Section 1:14

## Popular Pack PPU Sentinel fittings



PPU Q685 PPU Q2685

Sentinel enclosures combined with 1800mm/6ft Popular Pack fittings fulfil the protection needs for many under-canopy, open building and corrosive situations. The construction is a simple but effective two-piece structure, formed by the combination of a grey glass fibre canopy and an acrylic lower moulding. Six captive clips provide easy, positive fastening and soft gaskets seal the enclosures from external environmental conditions. The Sentinel is available in single and twin forms. Battens, tubes and enclosures are supplied complete in one pack.

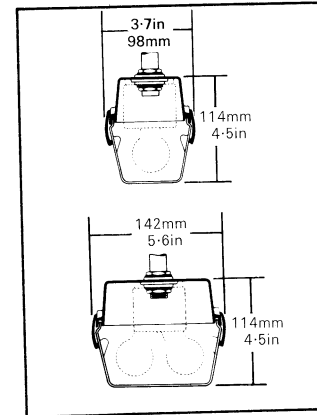
Comparable fittings generally employ 1500mm/5ft tubes as the accepted size but with the 1800mm/6ft 85W tube the Sentinel supplies

some 25% more light, which is particularly important in situations for which this product is employed. Although functional in design the grey glass fibre canopy and clear stippled lower enclosure form a combination which is attractive in appearance and tough in use. It is important to ensure that the entry points into these fittings are adequately sealed against the ingress of water.

These fittings comply fully with BS.3820:1964 for Class 1, rainproof, dustproof, outdoors and chemically corrosive atmospheres.

### Supply Voltage

Standard fitting 230/240V 50Hz.



**Range:** Packed complete with White tube(s)

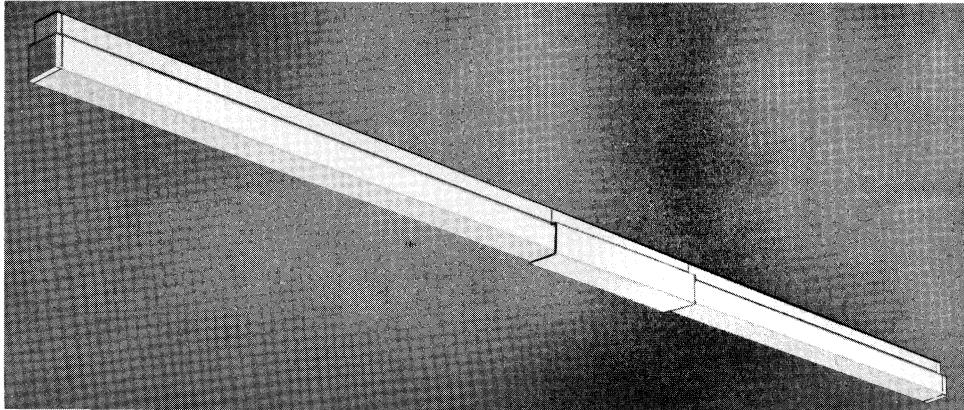
Nominal length		Rating	Circuit	Catalogue no.	Description	Length		Fixing centres		Weight	
mm	ft					mm	in	mm	in	kg	lb
1800	6	85W Single	SRS	PPUQ 685	Single Sentinel fitting	1850	72.8	610	24	5.95	13
1800	6	85W Twin	SRS	PPUQ 2685	Twin Sentinel fitting	1850	72.8	610	24	9.1	20

*Toggle clip PP 4609, single tube acrylic enclosure PP 4611 and twin-tube acrylic enclosure PP 4615 are available as replacement items.*

Section 1:15



## Popular Pack One-Plus-One attachment



PP 4621

The One-Plus-One fitting is formed from a combination of a central box housing and two individual Pop Pack fittings in tandem an arrangement that can be extended to give a continuous structure. This is particularly suitable for schools, supermarkets, shops and all indoor establishments where a good general level of illumination is required.

The One-Plus-One can be used to form combinations of various sizes, dependent only on the type of Pop Pack employed, with a choice of opal diffuser (PPD) or prismatic controller (PPC) single tube attachments.

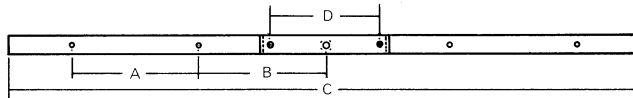
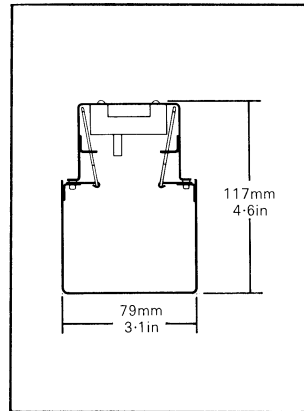
Details of single tube fittings for use with the One-Plus-One attachment are given on pages 1:7 and 1:9.

It should be noted that the One-Plus-One is suitable for ceiling mounting only.

These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres when used in conjunction with Popular Pack fittings mentioned.

### Arrangement data

Dimensions shown include various size fittings combined with the One-Plus-One attachment.

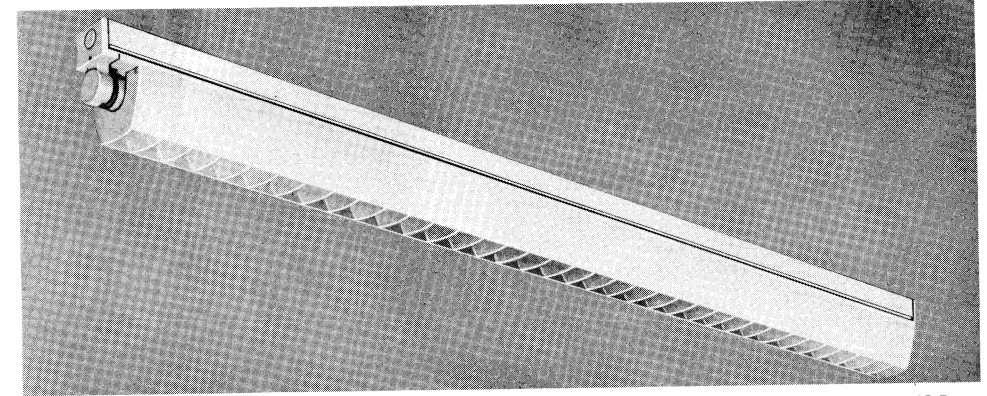


Catalogue no.	Length		Weight		Fixing centres	
	mm	in	kg	lb	mm	in
PP 4621	610	24	1.5	3.25	457	18

and centre BS box piercing

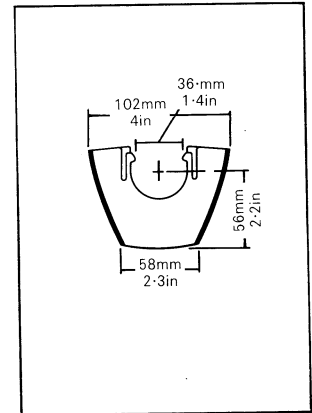
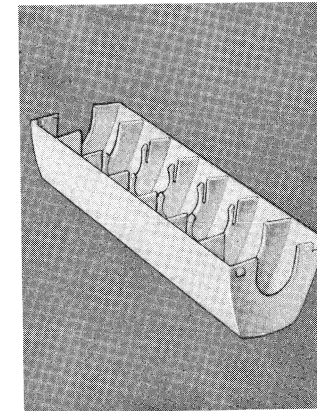
Nominal fitting size	A	B		C		D	
		mm	in	mm	in	mm	in
600	2	500	19.7	357	14.06	1852	72.93
1200	4	595-615	24	607	23.91	3070	120.93
1500	5	595-615	24	758	29.86	3655	144.73
1800	6	595-615	24	889	35.01	4199	165.33
2400	8	1200-1220	48	889	35.01	5118	213.33

## Popular Pack Clipluve sectional louvres



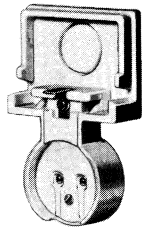
KU5.P 'Clipluve' on PP.65 Batten

Bare lamp shielding in an economical form is provided by these practical and decorative opal plastic units which clip directly on to the lamp. The KU5 P Pack contains five 292mm/11.5in sections suitable for bi-pin tubes. Four, five, six or eight sections are required according to the length of tube. The sections are fully interlocking to ensure alignment and are quickly detachable in sections for easy maintenance and washing. Clipluve (patent no. 751990) meets the maximum brightness requirements set by the Standards for School Regulations 1959.

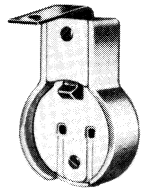


Catalogue no.	Description
KU5 P	Five-piece pack

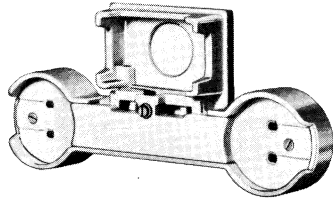
# Popular Pack accessories



**AME B1562**  
Single bi-pin white plastic grip-pin lampholder



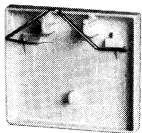
**AME B1548/A3**  
Replacement lampholder for Slim Twin fittings.



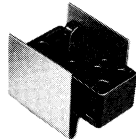
**AME B1563**  
Wide twin bi-pin white plastic grip-pin lampholder



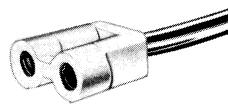
**PP 4601**  
Used with PP 4602 screw to fix single and twin Popular Pack metal attachments.



**PP 4612**  
End cap for single tube PPC and PPD diffusers. Complete with fixing spring.



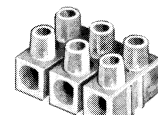
**PP 4616**  
Clip-in fused terminal block assembly with 3A fuse. Primary use for Popular Pack fitting when used on Trakline. Encroaches on centre entry on 2ft 20W twin only. Not for use in SRS fittings which contain a fuse as standard practice. Standard quantity 5 per pack.



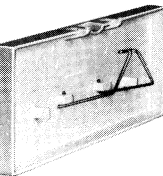
**AME M6064/12/Loop Starter Socket**  
White PVC moulding enclosing starter switch contacts crimped to 1/2in loop of 0.5sq mm white PVC cable which can be cut at a point to suit wiring layout. Current item for 2ft fittings and for earlier Popular Pack fittings in other sizes.



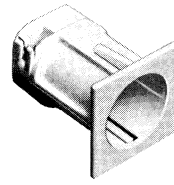
**PP 4602**  
Reflector and coverplate fixing screw.



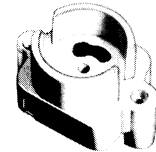
**AME T1281/3**  
Three way terminal block. Each way will accept one 2.5sq mm cable or two 1.5sq mm cables together.



**PP 4613**  
End cap for twin tube PPC and PPD diffusers. Complete with fixing spring.



**AME A5051**  
Current starter socket except for 2ft size.



**AME A5019/X Starter Socket**  
Used in earlier Popular Pack fittings. Fixed by clip AME Y5285



**PP 4600**  
Lampholder tension spring for single and wide twin fittings.



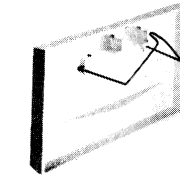
**AME Y5283**  
Fixing clip for 1 1/2 in dia. capacitors. AME Y5273 for 1 1/4 in dia. capacitors.



**PP 4609**  
Replacement plastic clip for Sentinel fittings.



**FUSE**  
BS.1362 dimensions.  
**AME T1342** 1.25 amp single and twin tube 5ft and 6ft SRS fittings.  
**AME T1332** 650mA single and twin tube 4ft SRS fittings.



**PP 4617**  
End cap for single tube PPE, PPL and PPM diffusers. Complete with fixing spring.

# Popular Pack Circuits Data

**ELECTRICAL DATA** for 240V 50Hz single tube circuits. Average performance tested at 25°C to BS.2818 specification.

Tube size	8ft	6ft	5ft	5ft	4ft	4ft	2ft
Diameter	1 1/2 in	1 1/2 in	1 1/2 in	1 1/2 in	1 1/2 in	1 1/2 in	1 1/2 in
Nominal tube watts	125	85	65	65	40	40	20
Circuit diagram	2	7	1	7	1	7	1 (single) 10 (twin)
Actual lamp watts	121	84	63	64	39.6	40	19.5
Average tube volts	153	123	112	113	103	104	58
Average tube amps	0.92	0.77	0.67	0.63	0.44	0.42	0.37
Rated life (hours)	7500	7500	7500	7500	7500	7500	5000
Circuit type	SS	SRS	SS	SRS	SS	SRS	SS
Total circuit watts	145*	103*	79*	83*	51*	55*	30*
Mains current amps	0.92	0.50	0.39	0.37	0.25	0.24	0.37
Total volt amps	220	120	93	89	60	58	90
Lagging power factor	0.66‡	0.86	0.85	0.93	0.85	0.95	0.34**
Min. starting temperature	0°C	-5°C	0°C	-5°C	0°C	-5°C	0°C
% 3rd Harmonics per phase	4%	25%	17%	25%	25%	25%	17%

\*The above circuit watts for control gear tested in accordance with BS.2818 may be reduced by up to 3% when operating in some fittings, i.e., the circuit watts reduce as the lamp operating temperature increases.

\*\*Uncorrected value, for single tube operation. ‡Leading power factor.

### REPLACEMENT CONTROL GEAR

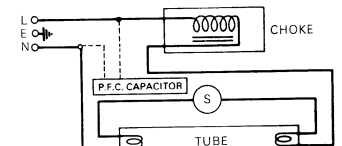
These items are selected from the extensive range of control gear for UK Regional stocking to give ready availability. The reference numbers quoted will be different from those marked on the control gear in the fitting, but the units are equally applicable to Popular Pack fittings.

Wattage	Tube size	Circuit type	Choke(s)		Capacitor(s)		Starter Switch(es)	
			1	2	1	2	1	2
125W	8ft	SS	Single Tube	1-G.CU/125	1-AME C2344	1-155/800		
			Twin Tube	2-G.CU/125	2-AME C2344	2-155/800		
85W	6ft	SRS	Single Tube	1-G.BU/685	1-AME C2220			
			Twin Tube	4-G.BU/685	2-AME C2220			
65W	5ft	SS	Single Tube	1-G.CU/65	1-AME C2241	1-155/500		
			Twin Tube	2-G.CU/65	1-AME C2274	2-155/500		
65W	5ft	SRS	Single Tube	1-G.BU/65	1-AME C2220			
			Twin Tube	2-G.BU/65	2-AME C2220			
40W	4ft	SS	Single Tube	1-G.CU/40	1-AME C2092	1-155/500		
			Twin Tube	2-G.CU/40	1-AME C2222	2-155/500		
40W	4ft	SRS	Single Tube	1-G.BU/40	1-AME C2273			
			Twin Tube	2-G.BU/40	2-AME C2273			
20W	2ft	SS	Single Tube	1-G.CU/20		1-155/200		
			Twin Tube	1-G.CU/40	1-AME C2092	2-155/200		

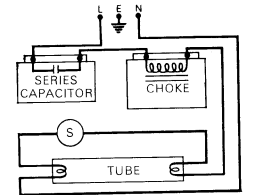
### ELECTRICITY SUPPLY VARIATIONS

Wattage	Circuit type	50Hz		60Hz
		Leading SS only	HPF, SRS only	
125W 8ft	Leading SS only	220V		
85W 6ft	HPF, SRS only	220V		
65W 5ft	HPF or LPF, SS	110/120V (twin fittings LPF only), 200/210V, 220V, 230/240V, 250V		110/120V (twin fittings LPF only) 200/210V, 220V, 230/240V
65W 5ft	HPF, SRS	220V		
40W 4ft	HPF or LPF, SS	110/120V, 200/210V, 220V, 230/240V, 250V		110/120V 200/210V, 220V, 230/240V
40W 4ft	HPF, SRS	220V		
20W 2ft	HPF or LPF, SS	110/120V, 200/210V, 220V, 230/240V, 250V		110/120V, 200/210V, 220V, 230/240V

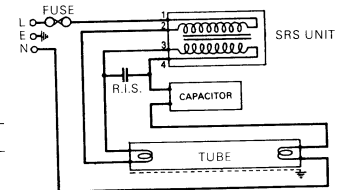
### 230/240V 50Hz CIRCUIT DIAGRAMS



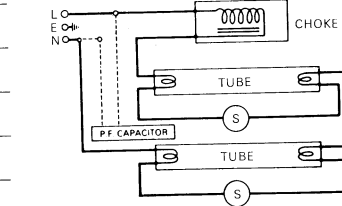
1 Standard starter switch circuit with optional PFC capacitor.



2 Leading power factor starter switch circuit.



7 Semi-resonant start circuit.



10 Starter switch circuit for series pair tube operation.

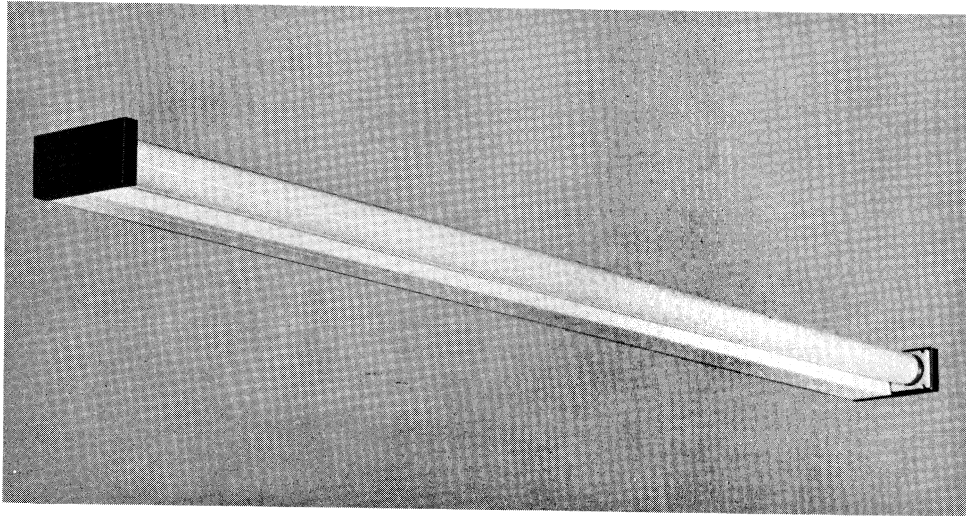
**A** The standard electricity supply in the UK is 230/240V 50Hz and fittings suitable for this supply are standard stock lines.

**B** Other voltage 50Hz fittings are available as shown below at no extra charge in UK. Delivery and details on application.  
20W 2ft } 200/210V, 220V and 250V  
40W 4ft }  
65W 5ft }

**C** Popular Pack fittings are also available outside the UK for the electricity supplies shown alongside. Price and delivery details on application.

**SS = Switchstart SRS = Semi Resonant Start**

## New Arrow-slim AS batten fittings

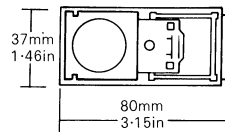


### AS single batten fitting

The New Arrow-slim basic batten, with its three-position twist lampholder, can be used in any location where an unshielded fluorescent tube is acceptable. These batten fittings are available in 900mm/3ft 30W and 1500mm/5ft 50W sizes and are supplied ready packed complete with 26mm/1in diameter Warm White tubes.

### Supply voltage

Standard fitting 230/240V 50Hz. Details of fittings for other supplies are available on application. In exceptionally quiet locations the small amount of noise emitted by these fittings should be considered. Noise can be limited by the use of rubber grommets to 'soften' the mounting.



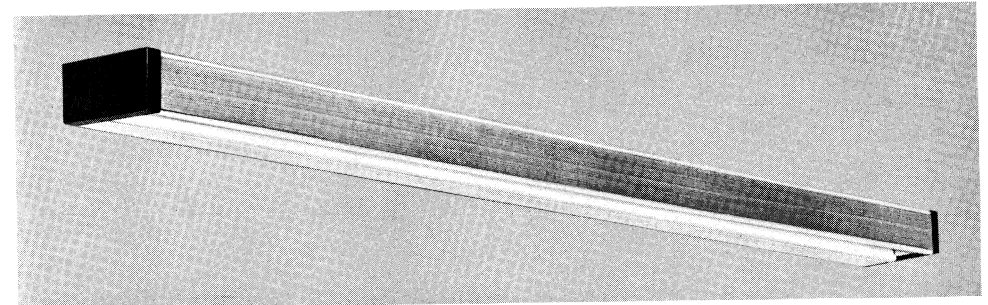
AS 30  
ASQ 50

**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length		Weight		Fixing centres	
		Catalogue no.	mm	in	kg	lb	mm	in	
30W Single	Switchstart	AS 30	914	36	1.82	4	600-610	23-6-24	
50W Single	Resonant start	ASQ 50	1519	59.8	2.64	5.8	600-610	23-6-24	

\*The new 5ft 50W ASQ 50 will be available as from November 1972. In the meantime the current AS 50 switchstart fitting will continue to be available.

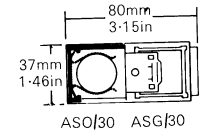
## New Arrow-slim ASG, ASO and ASC attachments



### ASG (Gold) and ASO (Orange) attachments

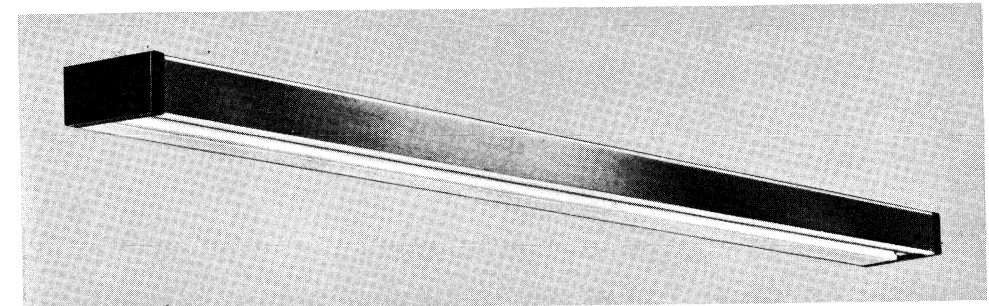
These attachments are slim acrylic extrusions to which is applied a plastic trim with a gold or orange fabric appearance.

The attachments are retained in position on the wall-mounted fitting by engagement with the lampholders.



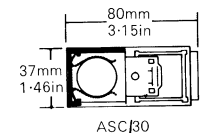
**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length		Weight		Fixing centres		Attachment Catalogue no.	Batten Catalogue no.
		Catalogue no.	mm	in	kg	lb	mm	in			
30W Single	Switchstart	ASG/30	914	36	2	4.4	600-610	23-6-24	ASG 3	AS 30	
30W Single	Switchstart	ASO/30	914	36	2	4.4	600-610	23-6-24	ASO 3	AS 30	



### ASC attachment

This attachment is similar in construction to those above except that the front trim has the appearance of brushed copper.



**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length		Weight		Fixing centres		Attachment Catalogue no.	Batten Catalogue no.
		Catalogue no.	mm	in	kg	lb	mm	in			
30W Single	Switchstart	ASC/30	914	36	2	4.4	600-610	23-6-24	ASC 3	AS 30	

### Supply voltage

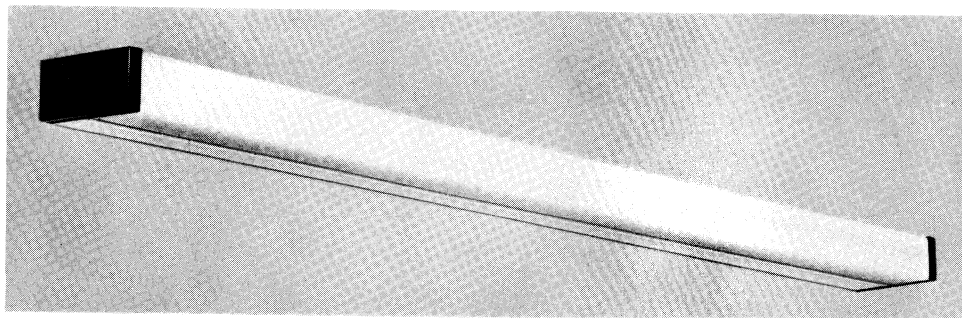
Standard fitting 230/240V 50Hz. Details of fittings for other supplies are available on application. In exceptionally quiet locations

the small amount of noise emitted by these fittings should be considered. Noise can be limited by the use of rubber grommets to 'soften' the mounting.

### Push Switch

A push switch (Catalogue no. AS 4601) is available for wall-mounted fittings

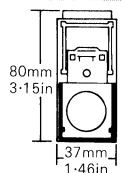
## New Arrow-slim ASU and ASF attachments



### ASU attachment

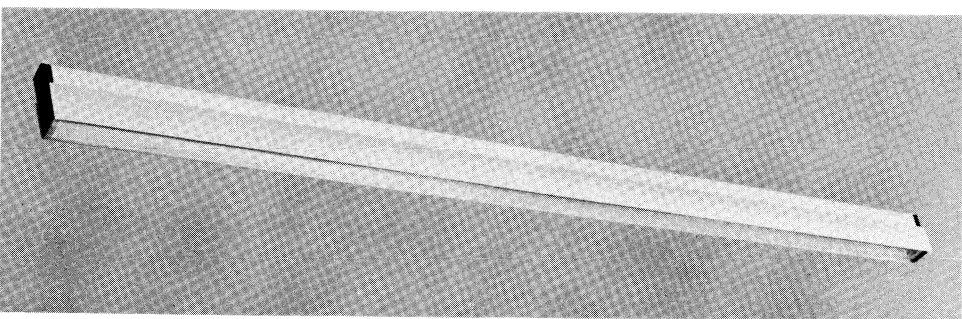
A closely fitting acrylic extrusion forming, in conjunction with the 900mm/3ft batten, an extremely slim diffuser fitting for many lighting

purposes. The attachment is fixed to the basic fitting by engagement with the lampholders.



**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length mm in	Weight kg lb	Fixing centres mm in	Attachment Catalogue no.	Batten Catalogue no.
		Catalogue no.						
30W Single	Switchstart	ASU/30		914 36	2.03 4.46	600-610 23-6-24	ASU 3	AS 30



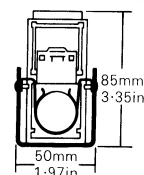
### ASF two-tone diffuser

Extruded plastic diffuser with clear fine reeded base and opal sides which gives an even downward distribution of light, yet cuts fitting brightness to the minimum.

Fixing is by means of spring clips fitted to the end of the diffuser.

#### Push Switch

A push switch (Catalogue no. AS 4601) is available for wall-mounted fittings.



**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length mm in	Weight kg lb	Fixing centres mm in	Attachment Catalogue no.	Batten Catalogue no.
		Catalogue no.						
50W Single	Resonant start	ASQF/50		1519 59-8	3.1 6.8	600-610 23-6-24	ASF 5	ASQ 50

A set of two clips and plastic studs for ASF attachments (Catalogue no. AS 4610) is available as a replacement item.  
\*The new 5ft 50W ASQ 50 will be available as from November 1972. In the meantime the current AS 50 switchstart fitting will continue to be available.

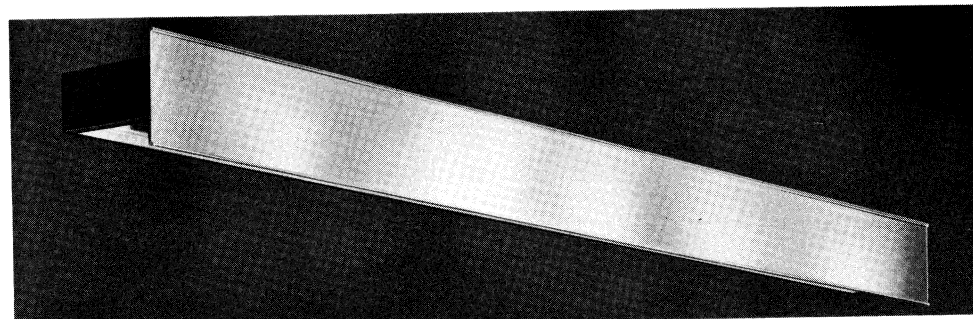
#### Supply voltage

Standard fitting 230/240V 50Hz. Details of fittings for other supplies are available on application.

In exceptionally quiet locations the small amount of noise emitted by these fittings should be considered.

Noise can be limited by the use of rubber grommets to 'soften' the mounting.

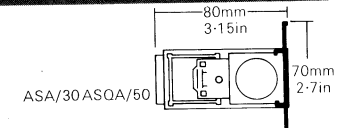
## New Arrow-slim ASA, ASB and ASR attachments



### ASA attachments

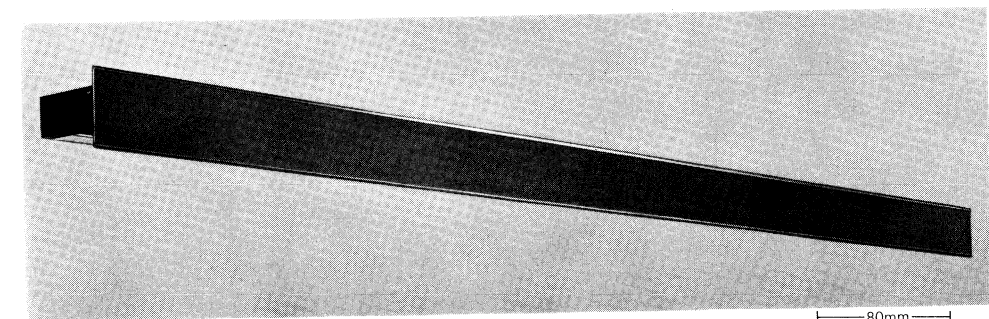
Satin etched front baffles in extruded aluminium for upward and downward lighting and a sophisticated decorative appearance.

These attachments are retained in position on the wall-mounted fittings by engagement with the lampholders.



**RANGE:** Fittings are packed complete with Warm White tube

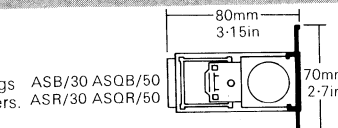
Rating	Circuit	Complete Fitting		Length mm in	Weight kg lb	Fixing centres mm in	Attachment Catalogue no.	Batten Catalogue no.
		Catalogue no.						
30W Single	Switchstart	ASA/30		914 36	2.21 4.86	600-610 23-6-24	ASA 3	AS 30
50W Single	Resonant start	ASQA/50		1519 59-8	3.28 7.24	600-610 23-6-24	ASA 5	ASQ 50*



### ASB (Beige) and ASR (Red) attachments

Aluminium front baffles to which trims having the appearance of beige or red leather are applied.

These attachments are retained in position on the wall-mounted fittings by engagement with the lampholders.



**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length mm in	Weight kg lb	Fixing centres mm in	Attachment Catalogue no.	Batten Catalogue no.
		Catalogue no.						
30W Single	Switchstart	ASB/30		914 36	2.24 4.93	600-610 236-24	ASB 3	AS 30
50W Single	Resonant start	ASQB/50		1519 59-8	3.35 7.37	600-610 236-24	ASB 5	ASQ 50
30W Single	Switchstart	ASR/30		914 36	2.24 4.93	600-610 236-24	ASR 3	AS 30
50W Single	Resonant start	ASQR/50		1519 59-8	3.35 7.37	600-610 23-6-24	ASR 5	ASQ 50

\*The new 5ft 50W ASQ 50 will be available as from November 1972. In the meantime the current AS 50 switchstart fitting will continue to be available.

#### Supply voltage

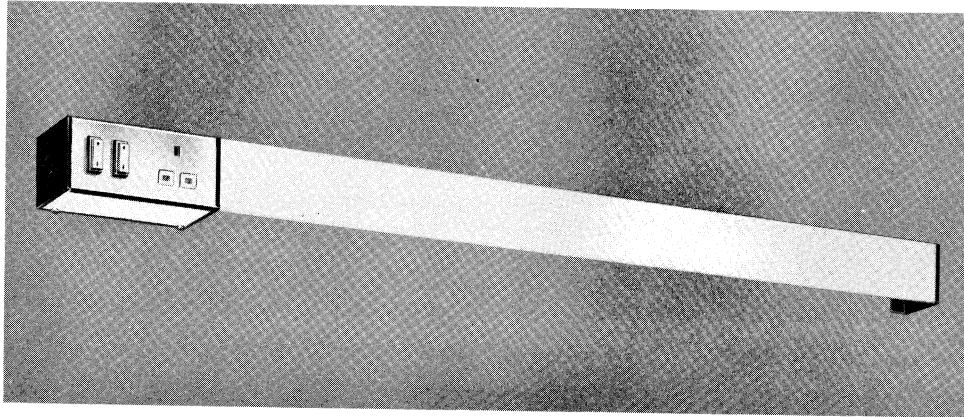
Standard fitting 230/240V 50Hz. Details of fittings for other supplies are available on application.

#### Push Switch

A push switch (Catalogue no. AS4601) is available for wall-mounted fittings. In exceptionally quiet locations the

small amount of noise emitted by these fittings should be considered. Noise can be limited by the use of rubber grommets to 'soften' the mounting.

# New Arrow-slim ASK attachment & ASKH socket box

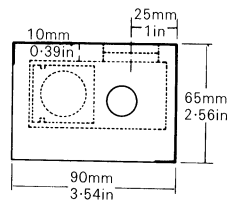


### ASK attachment

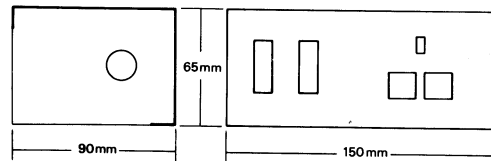
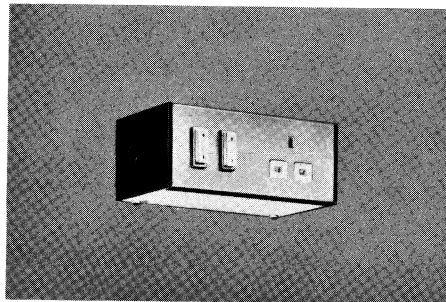
This is a baffle in white stoved enamel steel designed for use under wall-mounted cabinets in kitchens to provide light over working surfaces. The ends of the baffle are closed by black plastic end plates to give an attractive and streamlined appearance and to conceal the batten fitting within the baffle. A separate box, incorporating switches and a 13 amp socket outlet, in brushed stainless steel can be used with the baffle, providing a convenient kettle or mixer point.

### Supply voltage

Standard fitting 230/240V 50Hz. Details of fittings for other supplies are available on application. In exceptionally quiet locations the small amount of noise emitted by these fittings should be considered. Noise can be limited by the use of rubber grommets to 'soften' the mounting.



KITCHEN BAFFLE ASK/30

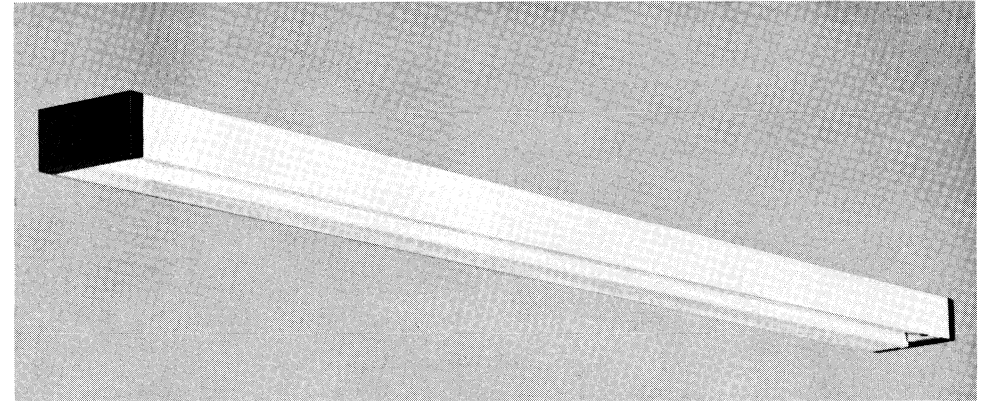


ASK H

**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length	Weight	Fixing centres		Attachment Catalogue no.	Batten Catalogue no.
		Catalogue no.	mm			in	mm		
30W Single	Switchstart	ASK/30	1000	39.4	2.73	6	605	23.8	ASK 3 AS 30
13A Socket box	—	ASKH	150	5.9	0.45	1	102	4	—

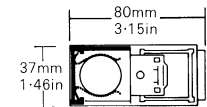
# New Arrow-slim ASD diffuser



This diffuser is extruded from opal acrylic and is easily attached to the fitting. The diffuser may be used with a wall-mounted batten fitting to give unobstructed downward light and general diffused upward light. **Push Switch** A push switch (Catalogue no. AS4601) is available for wall-mounted fittings.

### Supply Voltage

Standard fitting 230/240V 50Hz. Details of fittings for other supplies are available on application. In exceptionally quiet locations the small amount of noise emitted by these fittings should be considered. Noise can be limited by the use of rubber grommets to 'soften' the mounting.



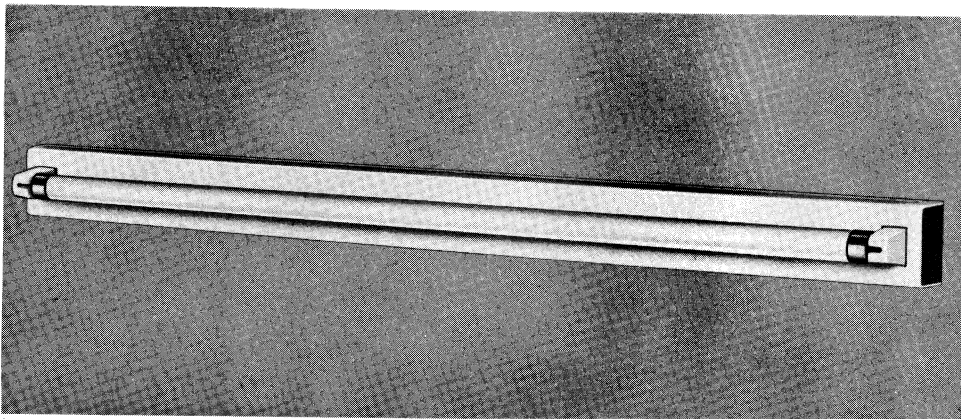
ASD/30 (Clips supplied ASD/50 with 1500mm/5ft only)

**RANGE:** Fittings are packed complete with Warm White tube

Rating	Circuit	Complete Fitting		Length	Weight	Fixing centres		Diffuser Catalogue no.	Batten Catalogue no.
		Catalogue no.	mm			in	mm		
30W Single	Switchstart	ASD/30	914	36	2	4.4	600-610	23.6-24	ASD 3 AS 30
50W Single	Resonant start	ASD/50	1519	59.8	2.9	6.4	600-610	23.6-24	ASD 5 ASQ 50

\*The new 5ft 50W ASQ 50 will be available as from November 1972. In the meantime the current AS 50 switchstart fitting will continue to be available.

## LJ Series Minipack fittings



LJS1013

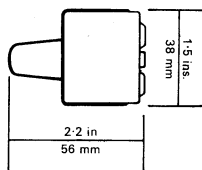
The Minipacks are the smallest fluorescent fittings offered for everyday use. They provide miniature fluorescent lighting for many purposes, including display cabinets, public notice signs and hotel mirrors. The range of attachments (*see next page*) broadens the application even further. The 324mm/12.75in long version gives more light than a 40W tungsten lamp. Especially impressive, the 552mm/21.75in model gives a better output than

three 30W tungsten striplights. The body assembly has two-tone colouring: the channel cover is white and the channel and end plates are grey. To gain access to the control gear, the white moulded lampholders are rocked slightly forward to release the cover which can be completely removed for installation and servicing. PULL SWITCH, Catalogue no. LJ 4600. A pull switch is an added convenience and is available for all models.

SHELF CLIPS, Catalogue no. LJ 4601. An elegant form of accent lighting is to use this fitting to illuminate objects on shelves. For this purpose two single clips are available which locate inside the batten and securely onto the shelf, accommodating shelf thickness up to 26mm/1in.

These fittings comply fully with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

**Supply voltage**  
Standard fitting 230/250V 50Hz.  
Details of fittings for other supplies are available on application.



**RANGE:** Packed complete with Warm White tube

Rating	Circuit	Catalogue no.	Batten Fitting		Length		Weight		Fixing centres	
			mm	in	mm	in	kg	lb	mm	in
8W Single	Switchstart	LJ S1008.H	324	12.75	85	2	279	11		
13W Single	Switchstart	LJ S1013.H	552	21.75	1.1	2.5	457	18		

The range of low voltage d.c. transistorised Minipacks has been superseded by the Nomad range of fittings. For details see page 1:28

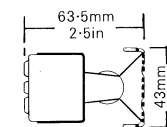
## LJA, LJM Minipack attachments

Minipacks offer a choice of attractive attachments suitable for domestic and commercial situations.



### LJA Raffia attachment

This woven natural raffia attachment is easily clipped on to the tube by a spring clip mounted at each end of the attachment.



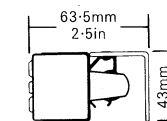
### RANGE

Type	Attachments only		Catalogue no.
	mm	in	
Raffia	305	12	LJA 112
Raffia	533	21	LJA 121



### LJM Opal plastic diffuser

This attractive white opal diffuser is designed for more general use, and is attached easily and quickly by spring clips.



### RANGE

Type	Attachments only		Catalogue no.
	mm	in	
Opal plastic	305	12	LJM 112
Opal plastic	533	21	LJM 121

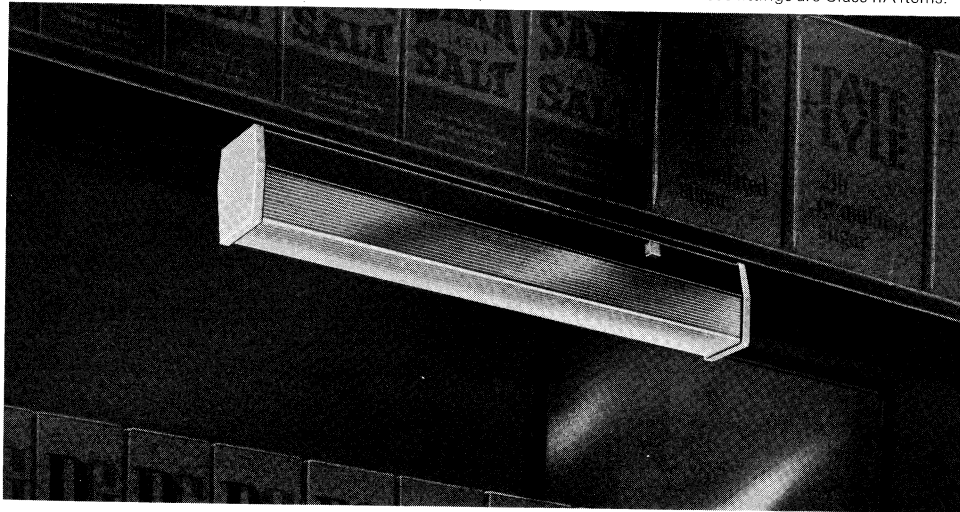
# Nomad

This range of transistorised fluorescent fittings is designed to provide efficient battery operated lighting, independent of a mains supply. The olive green body and clear reeded prismatic controller are made of high impact and light stabilised polystyrene. An integral

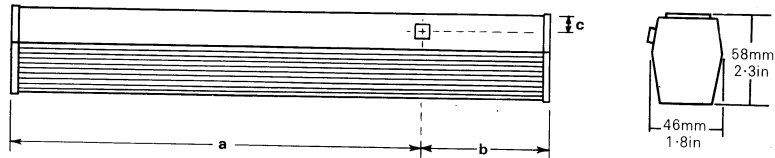
push switch controls the fitting. The control gear operates the fluorescent tube at a high frequency so that the fitting is inaudible in use. Protection against accidental polarity reversal is incorporated within the fitting. 12V versions may be used in

conjunction with the AME R2463 emergency lighting unit.

Registered design numbers:  
NOM 1008 - 943061  
NOM 1013 - 943063  
These fittings are Class IIA items.



8W fitting in mobile shop



**Range:** Packed complete with Warm White tube

Rating	Volts (d.c. only)		Catalogue no.	Length		Weight		Fixing centres	
	mm	in		mm	in	kg	lb	mm	in
8W Single	12		NOM 1008.12	343	13.5	0.34	0.75	318	12.5
13W Single	12		NOM 1013.12	569	22.4	0.49	1.1	551	21.7
8W Single	24		NOM 1008.24	343	13.5	0.34	0.75	318	12.5
13W Single	24		NOM 1013.24	569	22.4	0.49	1.1	551	21.7

*Other voltages: Transistorised fluorescent fittings suitable for operation on 6 volt supplies are also available. Details can be obtained on application. Prismatic controller extrusions NOM 4600 (8W), NOM 4601 (13W) and end plate NOM 4602 are available as replacement items.*

#### Dimensions

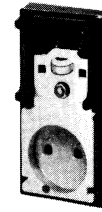
Rating	a		b		c	
	mm	in	mm	in	mm	in
8W	262	10.3	79	3.1	10	0.4
13W	490	19.3	79	3.1	10	0.4

#### Battery Information

Rating	Supply current (amps)	Battery rating (amp/hours)	
		38	42
		Number of hours of operation*	
8W 12V	0.8	42	47
13W 12V	1.1	31	34
8W 24V	0.3	114	126
13W 24V	0.5	68	75

\*Assuming the efficiency of the battery to be 90%.

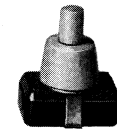
# New Arrow-slim, Minipack & Nomad Accessories



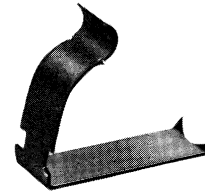
**AMEB 1586** New Arrow Slim bi-pin lampholder. Black/white plastic.



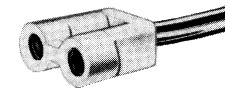
**AS 4611** New Arrow Slim lampholder tension spring.



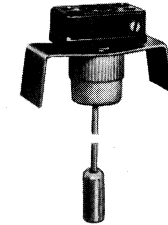
**AS 4601** New Arrow Slim push switch for wall mounted fittings.



**AS 4612** New Arrow Slim capacitor clip.



**AMEM 6064/12/LOOP** Starter socket for New Arrow Slim 3ft and Mini-pack fittings.

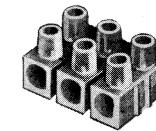


**LJ 4600** Pull switch for wall mounted Mini-pack fittings.



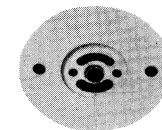
**AMEB 1556/3X** Lampholder for Mini-pack fittings

**AMEB 1556/1** Lampholder for Nomad fittings



**AME T1281/3**

Three way terminal block. Each way will accept one 2.5sq mm cable or two 1.5sq mm cables together.



**AS 4600** Pattress block cover for ceiling mounted New Arrow slim fittings.

#### Replacement control gear for 240V 50Hz supply

Tube size	Fitting	Choke	Capacitor	Starter Switch
8W 12in	Minipack	1—CD8	—	1—155/100
13W 21in	Minipack	1—CD13	—	1—155/100
30W 3ft	New Arrow Slim AS 30	1—CJ30	—	1—155/400
50W 5ft	New Arrow Slim AS 50	1—CJ50	1—AME C2229	1—155/501
50W 5ft	New Arrow Slim ASQ50	1—BJ50	1—AME C2368	—

## Invincible range

Invincible range is the name given to a selection of fittings each of which has been carefully designed to ensure satisfactory performance under certain arduous service conditions. The range comprises the following fittings:

### LU Series ..... P1 :31

This diffuser fitting is resistant to numerous adverse conditions. Suitable applications would be certain chemical laboratories, pickle factories and food factories. It is completely enclosed with a GRP canopy and a plastic enclosure which is simply clipped into position.

### LV Series ..... P1-32

A vapourproof fitting, resistant to corrosion by water vapour, highly humid conditions, certain chemicals, etc., and suitable for use in food factories, storage bays and general conditions where frequent washing is required. (This fitting is not jetproof.) The relamping features are of extreme importance. Completely enclosed single or twin tube opal enclosure.

### LW Series ..... P1 :33

This design has been fully tested to international specifications for corrosion resistant, rainproof and dustproof fittings. When used in conjunction with the plastic cylinders a stronger fitting results, resisting mechanical damage. These cylinders also enable the fitting (coupled with the necessary low temperature control gear) to be used in temperatures down to  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ).

Suitable applications for this fitting would be certain chemical laboratories, plating shops, pickle factories, food factories, cold stores and general indoor and outdoor applications.

### Flameproof ..... P1 :34/35

In addition to being certified as suitable for use in all Division 1 areas, having flammable atmospheres falling within the General Industrial Groups II and III, the fitting is also dust-tight and rainproof so it may be used in areas containing explosive dusts or outside e.g. on an oil loading jetty.

### Dust-Tight ..... P1 :36

This fitting has been designed in accordance with the following requirements.

- a British Standard Specification No. 3820:1964 Class 1 construction for Outdoor Pendant use.
- b Jetproof to BS.3820 Clause 18 (iii).
- c Dust-tight to BS.3820 Clause 18 (iv).

Suitable applications for these fittings would be flour mills, certain laboratories, food factories and areas which are frequently hosed down. It may also be pressurised.

### Food Factory ..... P1 :37

Suitable for applications where hygiene is of the utmost importance. There are no crevices to harbour dirt or dust and the enclosing acrylic prevents any possible danger in the event of a lamp breaking.

For damp and sometimes humid places such as abattoirs and bottling plants, paper mills and laundries. The fitting is sealed by a neoprene gasket to prevent the ingress of steam or moisture and its easily-wiped surfaces make it most suitable for use in awkward, out-of-the-way places.

### Directional Floodlight ..... P1 :38

This is a versatile fluorescent floodlight for interior use or in protected situations outside. It is available for single- or twin-tube operation with clear or opal laminated glass cover. The fitting is *not* flameproof but could be used for floodlighting garage workshop areas, greasing bays, canopied loading bays, etc.

### Under Canopy ..... P1 :39

Single or twin-tube fittings for use in sheltered outdoor positions such as multi-storey car parks or shopping precincts. It will withstand normal humid atmospheres such as fog, but is not non-corrosive and will not withstand conditions such as heavily salt-laden atmospheres indefinitely.

### Glendale ..... P1 :40

A range of totally enclosed, rainproof, dust-tight, corrosion resistant BASEEFA certified Division 2 fittings (Certificate of Approval No. 72064). All external parts are acrylic, neoprene or stainless steel. 2ft and 5ft single or twin lamp versions are available.

### Ribble ..... P1 :41

A range of rainproof, dust-tight, corrosion resistant, BASEEFA certified Division 2 fittings (Certificate of Approval No. 72036). Bodies are constructed from P.V.C. coated sheet steel and the tubes are enclosed in plastic cylinders and are held by special centre twist lampholders. 2ft, 4ft and 6ft single or twin lamp versions are available.

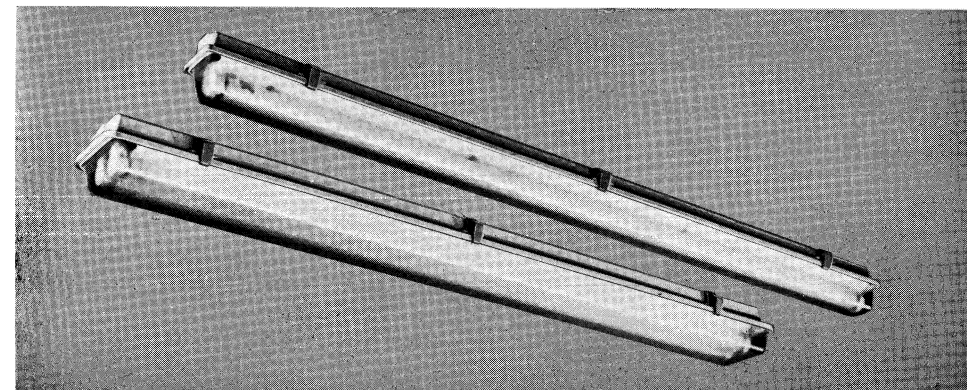
## Invincible LU corrosion-resistant fittings

This corrosion-resistant GRP fitting is suitable for any application where excessive humidity is present, such as swimming baths, slaughter houses, breweries, or where corrosive elements are involved, such as some plating shops, dye works, chemical works or where fittings are used outdoors. The GRP body has bushes moulded in the back to receive the gear tray. The tray carries the usual components, and brackets are

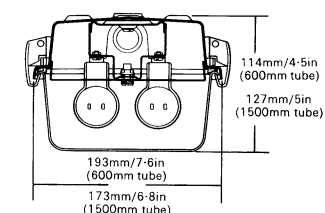
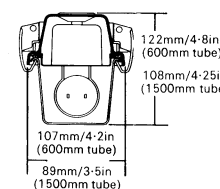
provided at each end to support the lampholders. These same brackets provide fixing for a metal reflector to enclose the gear. The lamps are enclosed with a vacuum-formed plastic cover which is supported from the GRP canopy by means of injection moulded brackets secured against the edge of the canopy. A gasket is positioned between the canopy and cover to form an effective seal. The plastic cover is held firmly against the gasket by six

plastic toggles (four on the 600mm/2ft) which engage under the lip of the plastic cover. These toggles are captive on the canopy. All fittings are for 240V 50Hz. Details of fittings for other supplies are available on application.

These fittings comply fully with BS.3820:1964 for categories Class IIA, rainproof, dustproof, outdoors and chemically corrosive (except for 600mm/2ft which are not dustproof).



LUD R2065 LUD R1065



### RANGE

Complete fitting				Components		Dimensions							
Nominal length				No. of tubes	Circuit	Catalogue no.	Enclosure Catalogue no.	Length		Weight (incl. tubes)		Fixing centres*	
mm	ft	Rating	mm					in	kg	lb	mm	in	
600	2	20W	One	One	QS	LUD Q1020	LUD 12	711	28	3.4	7.5	500	19.7
600	2	20W	Two	Two	QS	LUD Q2020	LUD 22	711	28	4.4	9.7	500	19.7
1500	5	65W	One	One	RS	LUD R1065	LUD 15	1594	62.8	6.9	15.3	610	24
1500	5	65W	Two	Two	RS	LUD R2065	LUD 25	1594	62.8	9.8	21.7	610	24

\*Fixing holes: 600mm/2ft fitting, 6.4mm/0.25 in dia. clear  
1500mm/5ft fitting, 25mm/1 in dia. clear fitted with grommet to take 19mm/0.75 in conduit

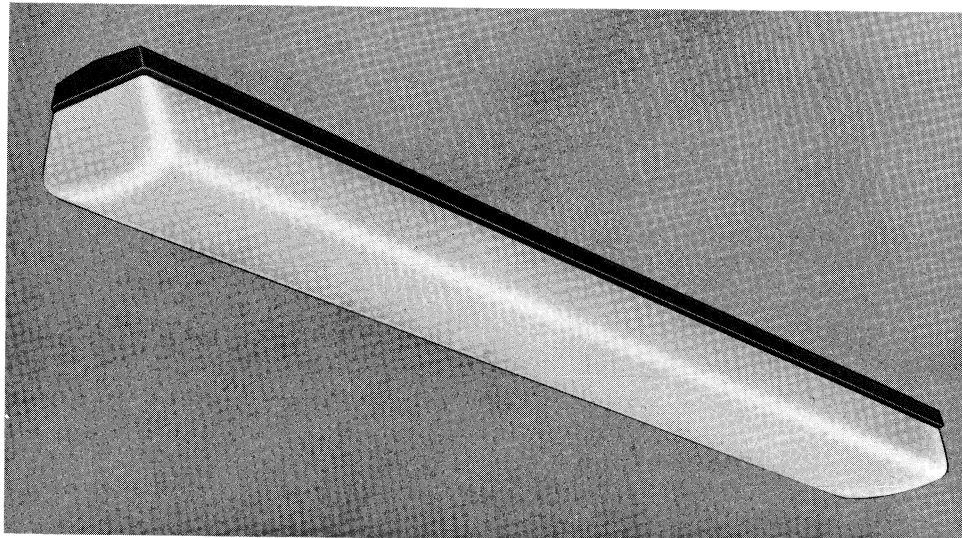


## Invincible LV corrosion-resistant fittings

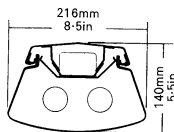
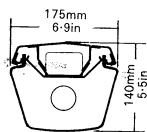
This fitting is designed for use in the many adverse atmospheric conditions where corrosive fumes and water vapour prevent the use of conventional fittings. The fitting is sealed against these extraneous conditions by a wiper gasket between the plastic-coated steel canopy and the opal plastic enclosure. A concealed quick release catch is used to attach the enclosure to the canopy, the wiper gasket eliminating any need to clamp these two items together, thus relieving the enclosure of all strain.

The lamps are fitted into the enclosure bowl, minimising any possibility of broken glass falling from the fitting in the event of lamps being broken during maintenance. All internal metal parts, including the removable control gear tray, are specially coated to withstand these adverse conditions. Eye bolts are provided on the back of the channel to receive a male hook attached to either a 19mm/0.75in rod or chain with consumer hooks. Chain or rod suspension only is recommended for this fitting.

Mains entry is via a cable gland in back of fitting using three-core cable. Suspensions must be a minimum of 76mm/3in long to obtain access to the enclosure release mechanism on the back of the fitting. All fittings are for 240V 50Hz. Details of fittings for other supplies are available on application. These fittings comply fully with BS.3820:1964 for categories Class I, drip-proof, dustproof, indoors, high humidity and chemically corrosive.



LVD/R2065

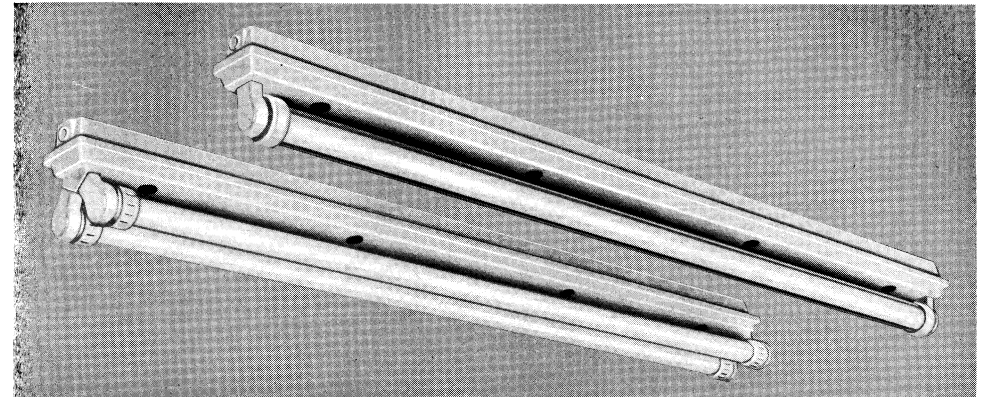


### RANGE

Complete fitting				Components		Dimensions		
Nominal length	Rating	Circuit	Catalogue no.	Enclosure Catalogue no.	Batten Catalogue no.	Length	Weight (incl. tubes)	Fixing centres
mm ft						mm in	kg lb	mm in
1500 5	65W Single	RS	LVD/R1065	LVD 15	LV R1065	1587 62.5	13.3 29.3	610 24
1500 5	65W Twin	RS	LVD/R2065	LVD 25	LV R2065	1587 62.5	17 37.6	610 24

## Invincible LW corrosion-resistant fittings

## Division 2



Suspension is by 19mm/0.75in dia. conduit hook, etc., into the top grommeted holes. Suitable washers and nuts must be used on both sides of the grommet to achieve an adequate seal.

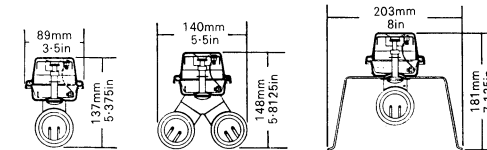
LWM/R2065 and LWC/R1065

This range of fittings is designed to combat the most arduous atmospheres. Some fittings in this range are designed to withstand conditions of high humidity and temperatures down to  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ): special low temperature control gear is used for operation at these temperatures and a double walled cylinder, LWD 15, is necessary). The body is moulded in two halves from glass reinforced plastic, each half screwed together against a neoprene gasket with four nylon screws to form a joint which is proof against most hostile atmospheres.

The lamps are fitted into special sealed lampholders which either

grip the glass of the fluorescent tube (LWM types) or grip the outside of a LWC15 plastic cylinder to maintain a completely weatherproof fitting. Cable entry is achieved via 25mm/1in dia. grommeted holes in the top or a 19mm/0.75in dia. grommeted hole at one end of the fitting. The LWC15 plastic cylinder attachment can be provided to give complete mechanical protection to the fluorescent tube. All internal metal parts, including the removable control gear tray, are coated to withstand these adverse conditions during maintenance.

A plastic trough reflector, LWU25, is available to give added protection to the tube and to concentrate the light in the downward plane. These fittings are suitable for use in Division 2 areas without modification when used with a plastic cylinder. All fittings are for 240V 50Hz. Details of fittings for other supplies are available on application. Made to O.C.M.A. Specification No. ELEC. 7.—H.M.F.I. approved for use in Division 2 Areas. Fully Rainproof, Dustproof and Corrosion-resistant to BS.3820:1964.

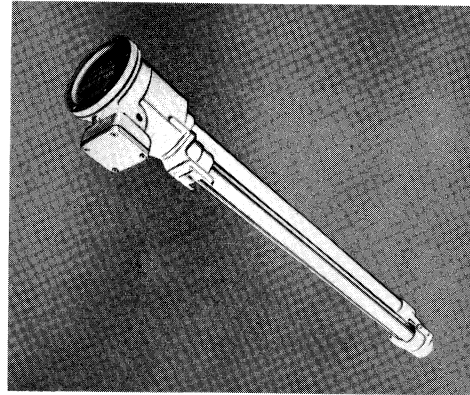
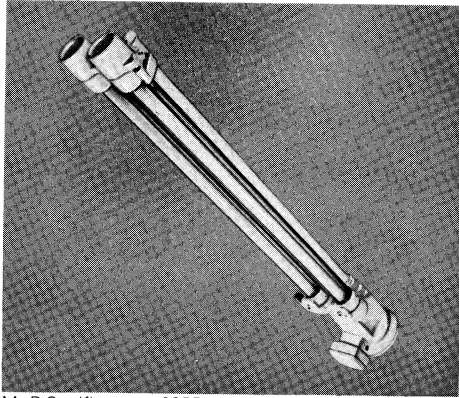


### RANGE

Complete fitting				Components		Dimensions		
Nominal length	Rating	Circuit	Catalogue no.	Plastic cylinder or lampholder ring assembly Catalogue no.	Batten (less lampholder ring) Catalogue no.	Length	Weight (incl. tubes)	Fixing centres
mm ft						mm in	kg lb	mm in
1500 5	65W Single	RS	LWM/R1065	AME M6116	LW R1065	1587 62.5	8.1 17.8	610 24
1500 5	65W Twin	RS	LWM/R2065	AME M6116 × 2	LW R2065	1587 62.5	10.8 23.7	610 24
1500 5	65W Single	RS	LWC/R1065	LWC 15	LW R1065	1587 62.5	9 19.8	610 24
1500 5	65W Twin	RS	LWC/R2065	LWC 15 × 2	LW R2065	1587 62.5	12.5 27.7	610 24
1500 5	80W Single	SS	LWM/S1080†	AME M6116	LW S1080	1587 62.5	8.1 17.8	610 24
1500 5	80W Single	SS	LWC/S1080*	LWC 15	LW S1080	1587 62.5	9 19.8	610 24
1500 5	80W Single	SS	LWD/S1080†	LWD 15	LW S1080	1587 62.5	10.1 22.3	610 24

† Suitable for temperatures ranging between  $5^{\circ}\text{C}$  ( $41^{\circ}\text{F}$ ) and  $-5^{\circ}\text{C}$  ( $23^{\circ}\text{F}$ ) at 240V only [15°C (59°F) for short periods].  
\* Suitable for temperatures ranging between  $5^{\circ}\text{C}$  ( $41^{\circ}\text{F}$ ) and  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) at 240V only [15°C (59°F) for short periods].  
† Suitable for temperatures ranging between  $5^{\circ}\text{C}$  ( $41^{\circ}\text{F}$ ) and  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ) at 240V only [15°C (59°F) for short periods].  
† Standard 65W fittings may be used in an ambient temperature up to  $40^{\circ}\text{C}$  ( $104^{\circ}\text{F}$ ).

ANS (Metal Strip) grade tubes (MCFA/U) are recommended for use with these fittings. All 65W fittings incorporating a plastic cylinder (LWC 15) have been approved by H.M. Factory Inspectorate for use in Division 2 areas. A plastic trough reflector, Catalogue no. LWU 25, is available for above fittings, single and twin tube.

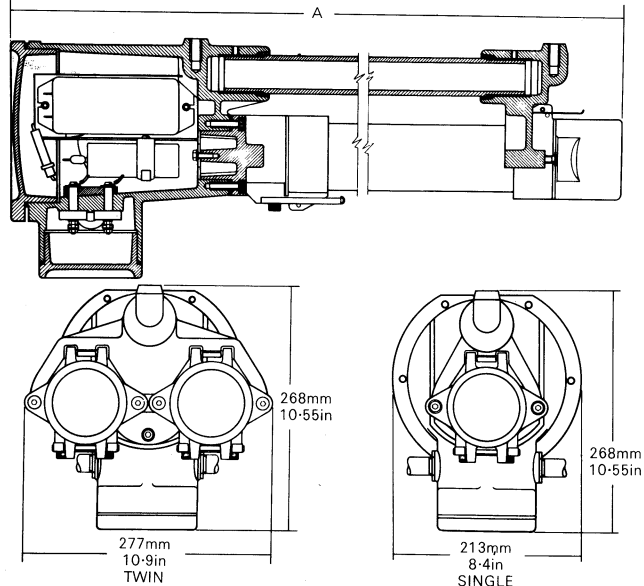


MoP Certificate no. 6055, for groups II, III

Temperature range Z at ambient temperature specified on fitting. The design comprises cast aluminium end boxes rigidly supported by a steel connecting tube. The main casting incorporates switchless control gear, on a removable tray, for either single or twin tube operation and also an underslung mains cable entry to facilitate installation. The remote end casting is removable, yet fully captive, for relamping purposes.

All visible joints are gasketed as necessary to ensure that the fitting is dust-tight and weatherproof. All external screws are in stainless steel and have socket heads. Maintenance of the fitting for relamping is either from one end or below and, if required, the glass tube assembly or gear tray can be removed completely without disturbing the incoming mains supply. 2 x 19mm/3/4in ET entries are

standard, but alternative entries can be supplied to special order. An all white exterior finish is applied to the fitting after assembly. Reflectors with or without wire guards are available. All fittings are for 240V 50Hz. Details of fittings for other supplies are available on application. The fittings comply fully with BS.229:1957; BS.889:1965; and BS.3820:1964 rainproof and dust-tight.



**RANGE**

Complete fitting				
Nominal tube length				
mm	ft	Rating	Circuit	Catalogue no.
600	2	40W Single	OS	FP 1240
600	2	40W Twin	OS	FP 2240
1200	4	40W Single	RS	FP 1040
1200	4	40W Twin	RS	FP 2040
1500	5	65W Single	RS	FP 1065
1500	5	65W Twin	RS	FP 2065
1800	6	85W Single	RS	FP 1685
1800	6	85W Twin	RS	FP 2685

**OPTIONAL EXTRAS AND SPARES**

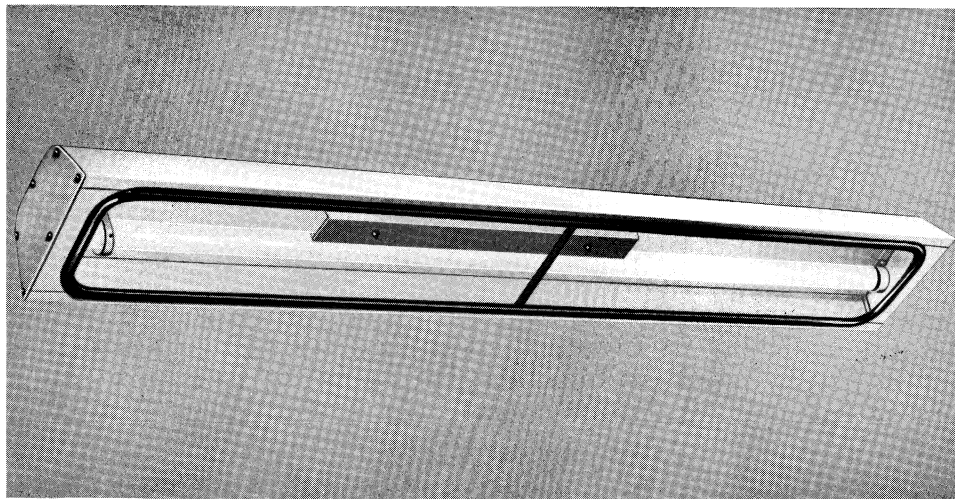
Catalogue no.	Description
FP 12	600mm/2ft Glass tube assembly
FP 14	1200mm/4ft Glass tube assembly
FP 15	1500mm/5ft Glass tube assembly
FP 16	1800mm/6ft Glass tube assembly
FPG 22	600mm/2ft Wire guard
FPG 24	1200mm/4ft Wire guard
FPG 25	1500mm/5ft Wire guard
FPG 26	1800mm/6ft Wire guard
FPR 22	600mm/2ft Reflector
FPR 24	1200mm/4ft Reflector
FPR 25	1500mm/5ft Reflector
FPR 26	1800mm/6ft Reflector
FP 4600	Adjustable suspension bracket
FP 4601	19mm/3/4" ET flameproof plug
FP 4602	13mm/1/2" Whitworth eye bolt
FP 4603	Gear cover gasket
FP 4604	Terminal cover gasket
FP 4605	Glass tube gasket
FP 4606	Adaptor gasket

**DIMENSIONS**

Catalogue no.	Dimension A		Approx. weight (incl. tube)		Fixing centres			
	length	width	kg	lb	mm	in		
FP 1240	971	38.2	212	8.4	17	37.5	690	27.2
FP 2240	971	38.2	278	10.9	22.7	50	690	27.2
FP 1040	1581	62.2	212	8.4	23.9	52.7	1300	51.2
FP 2040	1581	62.2	278	10.9	28.8	63.4	1300	51.2
FP 1065	1882	74.1	212	8.4	26.3	57.9	1601	63
FP 2065	1882	74.1	278	10.9	32.1	70.8	1601	63
FP 1685	2147	84.5	212	8.4	29	64	1866	73.5
FP 2685	2147	84.5	278	10.9	35.4	78	1866	73.5

*With reflector width of all sizes becomes 303mm/11.9in  
With reflector and wire guard width of all sizes becomes 328mm/12.9in*

		Additional Reflector weight		Additional Wire guard weight	
mm	ft	kg	lb	kg	lb
600	2	2.04	4.5	0.45	1
1200	4	4.08	9	1.18	2.6
1500	5	4.99	11	1.5	3.3
1800	6	5.9	13	1.82	4



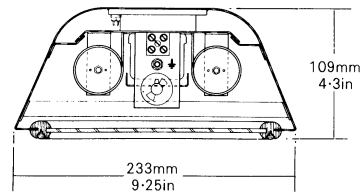
DTB/65

The housing, which is common either to one or two lamp fittings, consists of an inverted trough shape with sloping sides to discourage the collection of dust. Into the bottom surface is attached a clear plastic window by means of a special gasket to form a dust-tight, jetproof and vapour-proof seal. One end of the fitting is permanently sealed and the other end has a removable plate, normally held in position by six captive screws. This plate is suitably gasketed to maintain the 'proofness' of the fitting. The housing is manufactured in sheet steel and, following a thorough rust-proofing process, is finished with high quality white acrylic paint. External screws, etc., are in stainless steel. The reflector/gear tray assembly for either one or two 1500mm/5ft 65W lamps slides in from one end

and is fitted with mains terminal block (clamping type), earth point and circuit fuse which are easily accessible when the end plate of the housing is removed. Single and twin lamp reflector/gear assemblies are completely interchangeable. Suspension is normally to the stainless steel hooks provided, at 1410mm (55.5in) centres, but fittings can be mounted to purpose made brackets by means of 6mm/¼in Whit. screws at the same centres. Provision is made in the fitting for mains wiring to be looped in and out if required through 2 x ¾in ET holes adjacent to one suspension point. The method of installation is such that for normal servicing it is not necessary to remove the mains wiring from the fitting.

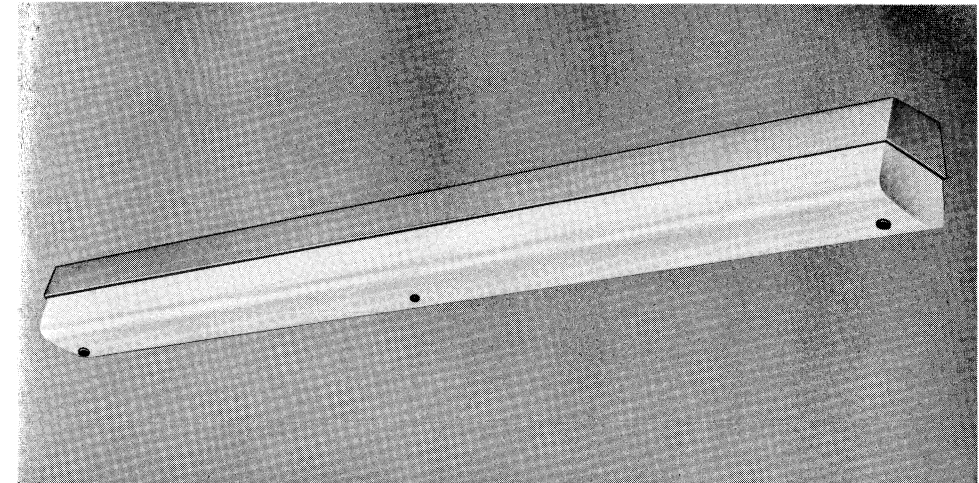
All fittings are suitable for 240V 50Hz supplies. Made to O.C.M.A. Specification. No. ELEC.7—H.M.F.I. approved for use in Division 2 Areas. Fully Jet-proof and Dust-tight to B.S.3820:1964.

Note: Single tube version may be used up to an ambient temperature of 40°C—Twin tube to 25°C.



**RANGE**

Complete fitting					Components			Dimensions						
Nominal length	ft	Rating	No. of tubes	Circuit	Catalogue no.	Enclosure Catalogue no.	Gear tray Catalogue no.	Length	in	Weight (incl. tubes)	kg	lb	Fixing centres	in
mm								mm					mm	
1500	5	65W	One	RS	DTB/65	DTB 25	DT 65	1562	61.5	15.7	34.8		1410	55.5
1500	5	65W	Two	RS	DTB/265	DTB 25	DT 265	1562	61.5	18.4	40.7		1410	55.5

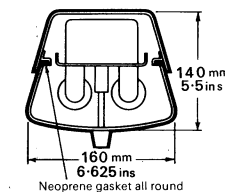


FFD 265

The fitting comprises a heavy gauge sheet steel housing, with flush seam welded ends, degreased and bonderised then given a high quality white plastic finish. A 3.2mm/0.125in thick 040 opal plastic closure with robustly constructed 068 white plastic rebated ends encloses the tubes. The housing, with closure in position, has a smooth exterior to minimise the collection of moisture or dirt. The plastic closure follows

the shape of the housing metal work which is designed to overlap the diffuser and act as a water-shed. The closure is held in position by three captive nylon screws, and seats firmly on to a neoprene gasket which is cemented to an internal continuous channel inside the housing. The control gear is mounted on the upper side of a reflector gear tray and spring loaded bi-pin lampholders are mounted to the under side of this

tray. Wiring is PVC insulated, colour coded, and terminates in a three-way fused socket which fits a three-pin plug earthed to the inside of the main fitting housing. The control gear tray with gear, wiring and lampholders is removable as a complete unit by loosening three fixing screws, removing the tray and unplugging. This fitting is for 240V 50Hz. Details of fittings for other supplies are available on application.

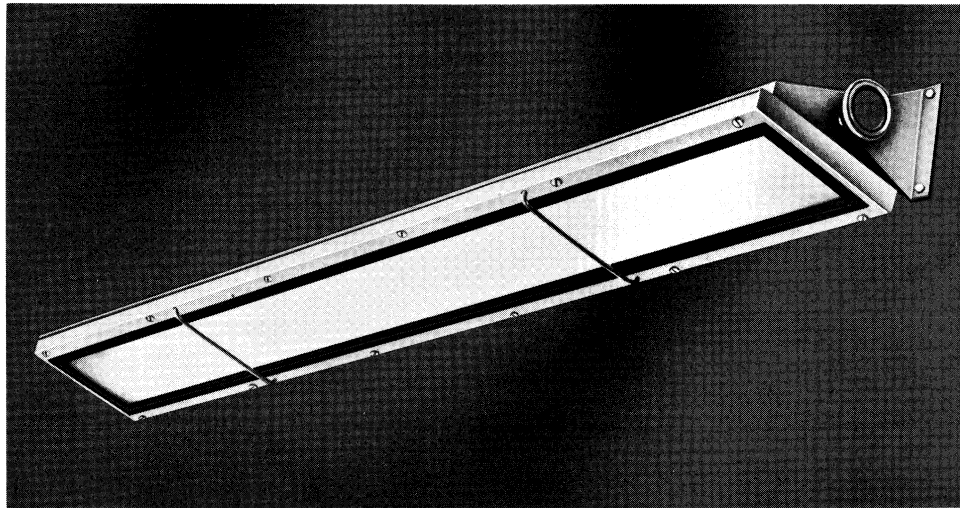


**RANGE**

Complete fitting					Spare Parts			Dimensions						
Nominal length	ft	Rating	No. of tubes	Circuit	Catalogue no.	Enclosure Catalogue no.	Length	mm	in	Weight (incl. tubes)	kg	lb	Fixing centres	mm
mm							mm						mm	in
1500	5	65W	Two	RS	FFD 265	FFD 25	1613	63.5		15.3	33.7		610	24

19mm/0.75in dia. conduit clearance holes are provided for suspension and mains supply entry

## Invincible DF Directional floodlight fittings

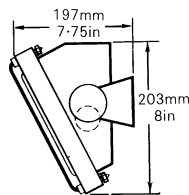


DFO 65

For some floodlighting applications. Not suitable for certified flammable areas. Zinc-coated steel finished grey stove enamelled. Supplied with

two fixing brackets, allowing 100° pivoting. These fittings comply fully with BS.3820:1964 for Class 1, drip-

proof, indoor, normal atmospheres. These fittings are for 240V 50Hz. Details of fitting for other supplies are available on application.

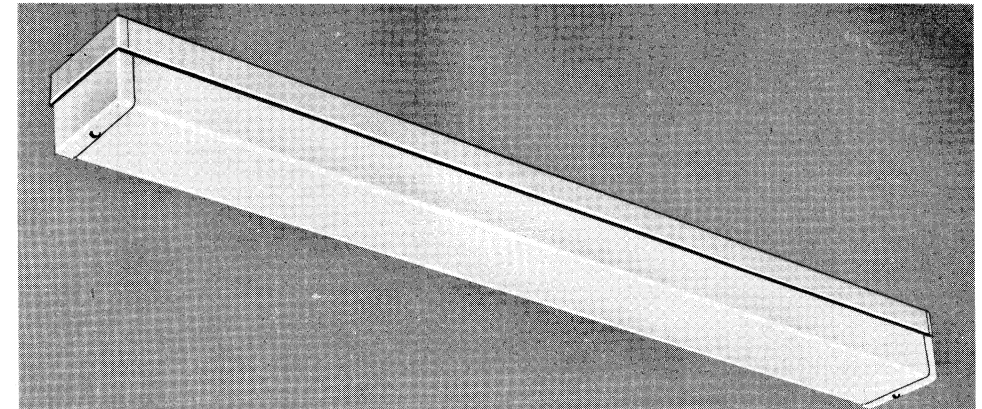


### RANGE

Complete fitting			Spare Parts		Dimensions		Weight		Fixing centres			
mm	ft	Rating	No. of tubes	Circuit	Catalogue no.	Enclosure Catalogue no.	Length mm	in	kg	lb	mm	in
1500	5	65W	One	RS	DFG 65*	DFG 25*	1753	69	17.9	39.6	1718	67.6‡
1500	5	65W	Two	RS	DFG 265*	DFG 25*	1753	69	20.2	44.7	1718	67.6‡
1500	5	65W	One	RS	DFO 65†	DFO 25†	1753	69	17.9	39.6	1718	67.6‡
1500	5	65W	Two	RS	DFO 265†	DFO 25†	1753	69	20.2	44.7	1718	67.6‡

\* Clear laminated glass  
† Opal laminated glass  
‡ Two holes at 108mm/4.25in centres and 9.5mm/0.375in diameter

## Invincible UC Canopy Fitting



UCD.265

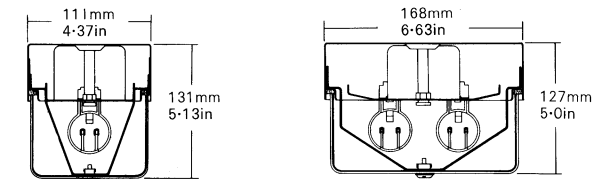
This fitting is primarily designed for under canopy, semi-sheltered locations, such as multi-storey car parks and loading bays. It is also suitable for industrial kitchens and canteens.

The spine is Zinc coated steel, finished in a Stove enamelled grey paint which gives additional protection to the metal work.

The closure and endcaps are manufactured from Opal plastic which gives an overall pleasing visual aspect. The total enclosure is achieved by simply tightening a fixing screw situated in each end cap. Maintenance is facilitated by mounting all gear on an easily removable gear tray.

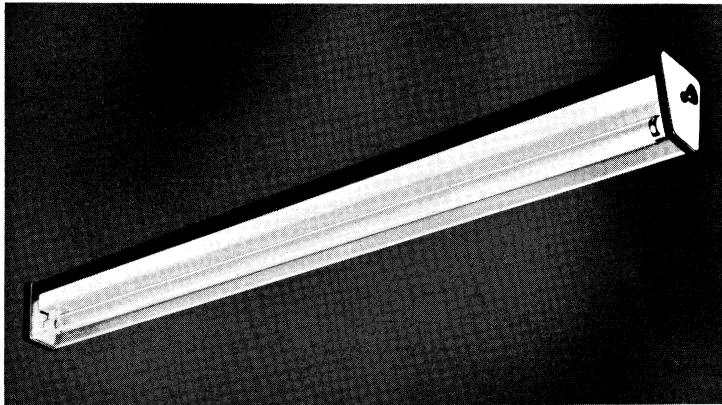
All fittings are suitable for 240V 50 Hz supplies. Other voltages on application.

(This fitting is not designed for use in corrosive atmospheres, e.g. salt laden.)

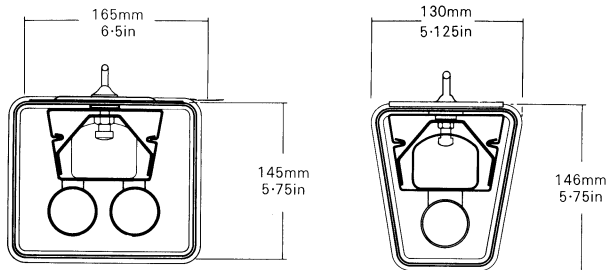


### RANGE

Complete fitting			Spare Parts		Dimensions		Weight		Fixing centres			
mm	ft	Rating	No. of tubes	Circuit	Catalogue no.	Diffuser Catalogue no.	Length mm	in	kg	lb	mm	in
1500	5	65W	One	RS	UCD.65	UCD.15	1583	62.4	8.8	19.4	610	24
1500	5	65W	Two	RS	UCD.265	UCD.25	1583	62.4	13.1	28.8	610	24



FGSB 65



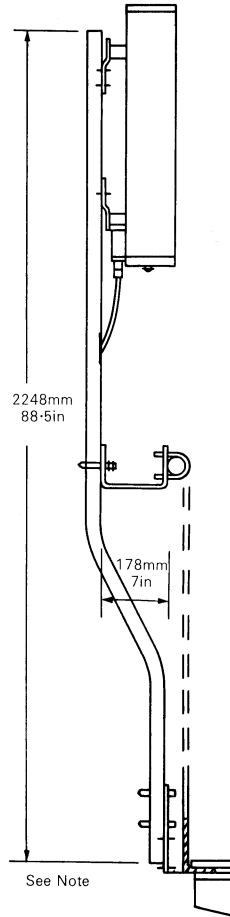
BASEEFA certified fittings for Division 2 areas—rainproof, dust-tight and suitable for use in most chemically corrosive atmospheres. The thick clear acrylic enclosure has stainless steel gasketed end plates, one of which can be removed to withdraw the gear channel for re-lamping. The channel slides on runners on a tray fixed inside the plastic enclosure and is provided with a nylon safety cord. It is locked in position by a thumb screw. All internal parts are rust-proofed and stove enamelled white.

**Suspension and Mains Entry**  
Standard fittings have two eyebolts

*Note: Special Mounting Systems are available—details on application.*

for suspension and a nylon cable gland suitable for 0-200–0-275 o.d. cables. Fittings with 'SB' in their catalogue numbers have fixing studs and Division 2 conduit boxes, with two 3/4in ET entries, one plug being removable. The fittings can be mounted horizontally or vertically and comply with BS.3820:1964 for categories Class 1 rainproof, dust-tight, outdoors and chemically corrosive.

All fittings are suitable for 240W 50Hz supply.  
**Made to BS.4533-2.1**  
**BASEEFA certificate No. 72064.**



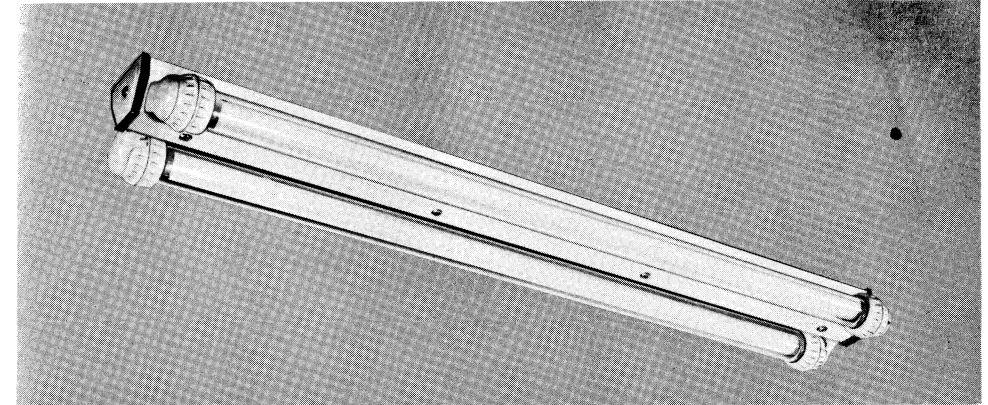
See Note

CATALOGUE NOMENCLATURE  
\*A—cable gland entry  
\*B—Div 2 box 2 x 3/4in ET  
\*E—eye bolt mounting  
\*S—stud mounting

**RANGE**

Complete fitting				Dimensions							
Nominal length				Length		Approx. weight		Fixing centres			
mm	ft	Rating	Circuit	mm	in	kg	lb	mm	in		
600	2	20W Single	QS	FGSB20	stud	686	27	6.35	14	457	18
600	2	20W Twin	QS	FGSB220	stud	686	27	7.25	16	457	18
600	2	20W Twin	QS	FGEA20	eye	686	27	7.25	16	457	18
1500	5	65W Single	RS	FGSB65	stud	1595	62.8	12.7	28	610	24
1500	5	65W Twin	RS	FGSB265	stud	1595	62.8	17.25	38	610	24
1500	5	65W Single	RS	FGEA65	eye	1595	62.8	12.7	28	610	24
1500	5	65W Twin	RS	FGEA265	eye	1595	62.8	17.25	38	610	24

\*Suspension and mains entry  
*Note: Change of Catalogue numbers with issue of BASEEFA certificate*

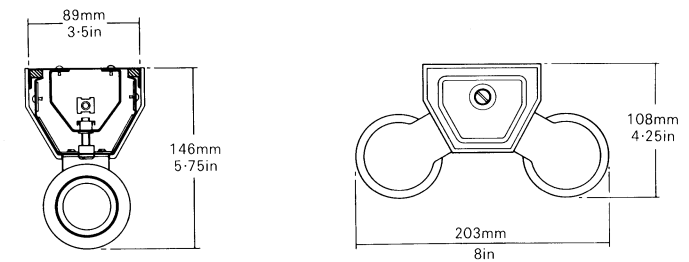


FRL 265

BASEEFA certified fittings for Division 2 areas—rainproof, dust-tight and for use in most chemically corrosive atmospheres. A sheet steel gear tray and ceiling plate are fixed together by four stainless steel captive screws and the joints sealed by urethane gaskets. Neoprene end-caps with PVC-coated pressure plates seal the

ends. Tubes are enclosed in 51 mm/2in diameter clear acrylic cylinders sealed to the two-pin lampholders by threaded rings and washers to allow relamping without disturbing the seals on the main channel. All visible surfaces of the metal work are PVC coated or of stainless steel.

Mains entry is by two 19mm/0.75in dia. clearance holes provided for suspension. These holes are sealed by removable plastic inserts which, if once removed, cannot be used again in Division 2 areas. All fittings are suitable for 240V 50Hz supplies. Other voltages on application.  
**Made to BS.4533-2.1.**  
**BASEEFA certificate No. 72036.**

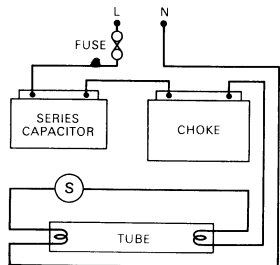


**RANGE**

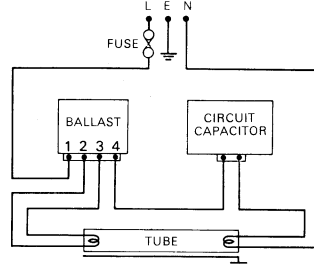
Complete fitting				Dimensions						
Nominal length				Length		Approx. weight		Fixing centres		
mm	ft	Rating	Circuit	mm	in	kg	lb	mm	in	
600	2	20W Single	QS	FRL 20	661	26	4.3	9.5	457	18
600	2	20W Twin	QS	FRL 220	661	26	6.35	14	457	18
1200	4	40W Single	QS	FRL 40	1271	50	6	13.25	610	24
1200	4	40W Twin	QS	FRL 440	1271	50	8.28	18.25	610	24
1500	5	65W Single	RS	FRL 65	1576	62	8.15	18	610	24
1500	5	65W Twin	RS	FRL 265	1576	62	11.6	25.5	610	24

*Note: Change of Catalogue numbers with issue of BASEEFA certificate*

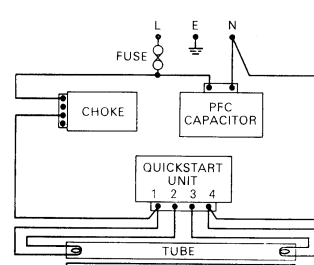
Leading power factor starter switch circuit, with cold temperature use series capacitor, for 1500mm/5ft 80W tube



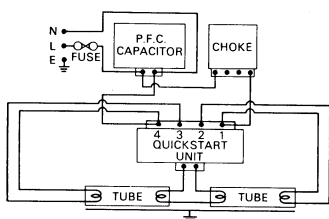
Semi-resonant start circuit for 1800mm/6ft 85W, 1500mm/5ft 65W and 1200mm/4ft 50W tube with series circuit capacitor



Quickstart circuit with PFC capacitor for 600mm/2ft 20W and 600mm/2ft 40W single tube



Quickstart circuit with PFC capacitor for 600mm/2ft 20W and 600mm/2ft 40W twin tube



	Lampholder	Fuse holder	Fuse	Fused Terminal Block	Terminal Block	Quickstart Ballast	Choke	Capacitor
LUD Q1020	AME B1548/B	AME T1310/X	AME T1299	—	AME T1281/3	QS/40	CU/20	AME C2204
LUD Q2020	AME B1548/B	AME T1310/X	AME T1299	—	AME T1281/4 AME T1281/2	QS/220	CU/40	AME C2204
LUD R1065	AME B1548/B	AME T1310	AME T1342	—	AME T1281/3	BU/65	—	AME C2220
LUD R2065	AME B1548/A	—	AME T1342	AME T1265	—	BI/65	—	AME C2220
LV R1065	AME B1573	—	AME T1342	AME T1265	—	BI/65	—	AME C2220
LV R2065	AME B1573	—	AME T1342	AME T1265	—	BI/65	—	AME C2220
LW R1065	AME B1550	AME T1310/X	AME T1342	—	AME T1316/3 AME T1317/3	BU/65	—	AME C2220
LW R2065	AME B1550	AME T1310/X	AME T1342	—	AME T1316/3 AME T1317/3	BU/65	—	AME C2220
LW S1080*	AME B1551	—	AME T1299	AME T1265	AME T1281/2	AME 69229.5	—	AME C2167
FP 1240	AME B1573	AME T1310/X	AME T1299	—	—	CI/240, QS/80	—	AME C2222
FP 2240	AME B1573	AME T1310/X	AME T1299	—	AME T1281/1	CI/2240, QS/2240	—	AME C2222
FP 1040	AME B1573	AME T1310/X	AME T1332	—	AME T1281/1	BU/40	—	AME C2273
FP 2040	AME B1573	AME T1310/X	AME T1332	—	AME T1281/1	BU/40	—	AME C2273
FP 1065	AME B1573	AME T1310/X	AME T1342	—	AME T1281/1	BI/65	—	AME C2220
FP 2065	AME B1573	AME T1310/X	AME T1342	—	AME T1281/1	BI/65	—	AME C2220
FP 1685	AME B1573	AME T1310/X	AME T1342	—	AME T1281/1	BI/685	—	AME C2220
FP 2685	AME B1573	AME T1310/X	AME T1342	—	AME T1281/1	BI/685	—	AME C2220
DTB/65	AME B1573	AME T1304	AME T1342	—	AME T1316/2	BU/65	—	AME C2220
DTB/265	AME B1573	AME T1304	AME T1342	—	AME T1316/2	BU/65	—	AME C2220
FFD/265	AME B1548/B	—	AME T1342	AME A5079	—	BI/65	—	AME C2220
DFG 65	AME B1512	—	AME T1342	AME T1265	—	BI/65	—	AME C2220
DFO 65	AME B1512	—	AME T1342	AME T1265	—	BI/65	—	AME C2220
DFG 265	AME B1512	—	AME T1342	AME T1265	—	BI/65	—	AME C2220
DFO 265	AME B1512	—	AME T1342	AME T1265	—	BI/65	—	AME C2220
UCD 65	AME B1548/B	—	AME T1342	AME A5079	—	BI/65	—	AME C2220
UCD 265	AME B1548/B	—	AME T1342	AME A5079	—	BI/65	—	AME C2220

LW.S1080 has starter switch, 155/500, and socket, AME A5019(X) included in accessories

## INDEX

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  - 1:49 Atlantic A4FM Millionaire\*
  - 1:50 Atlantic A4FA aluminium frame (plain trim)
  - 1:51 Atlantic A4FH aluminium frame (black hide effect trim)
  - 1:52 Atlantic A4FT aluminium frame (timber effect trim)
  - 1:53 Atlantic A4GC and A4GD Unicap prismatic and opal diffusers\*
  - 1:54 Atlantic A4L low brightness\*
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  - 1:56 Atlantic A4V vitreous enamel reflector
  - 1:57 Atlantic A4W wall washer
  - 1:58 Atlantic A4X closed-end, slotted-top reflector,
  - 1:59 Atlantic A4Y angle, reflector
  - 1:60 Atlantic A4Z open-ended, slotted-top reflector
  - 1:61 Atlantic A4ZB broad open-ended, slotted-top reflector and A4Z four-tube reflector
  - 1:62 Atlantic accessories and replacement control gear
- \*Atlas Amalgam tubes offer substantial advantages in the Atlantic range of fluorescent fittings by increasing the Light Output Ratio by between 11% and 22%. Suitable fittings are shown below.
- |                |                           |
|----------------|---------------------------|
| Catalogue no.  | Description               |
| A4C/A/2685     | Prismatic controller      |
| A4D/A/2685     | Opal diffuser             |
| A4FMD/A/B/2685 | Millionaire opal dish     |
| A4FML/A/B/2685 | Millionaire louvre        |
| A4FMC/A/B/2685 | Millionaire prismatic     |
| A4GC/A/685     | Unicap controller         |
| A4GC/2685      | Unicap controller         |
| A4GD/A/685     | Unicap diffuser           |
| A4GD/2685      | Unicap diffuser           |
| A4L/B/2685     | Low brightness            |
| A4O/B/2685     | Wide opal diffuser        |
| A4P/B/2685     | Wide prismatic controller |

## Catalogue numbers

The catalogue number shows how the fitting is made up and how many packs are used for each complete fitting. Oblique lines indicate separate packs.

Examples:

**A4X/2685** is a twin 1800mm/6ft 85W closed-end reflector fitting made up from:

- A4.2685: Twin 1800mm/6ft 85W batten *one pack*
- A4X.26: Metal 1800mm/6ft closed-end slotted reflector *one pack*

**A4FAC/B/2685** is a twin 1800mm/6ft 85W plain aluminium frame fitting with a prismatic controller insert. It is made up from:

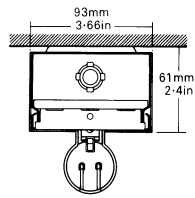
- A4.B2685: Twin 1800mm/6ft 85W batten (with broadly spaced lampholder) *one pack*
  - A4FAC.26: A4FA.26—Plain aluminium frame
  - A4FC.26—Prismatic controller
  - A4.4691—Broad channel cover
- } *all one pack*

First and Second attachment numbers are shown only to indicate catalogue numbers of cartons to expect per fitting, and catalogue numbers for replacement purposes.

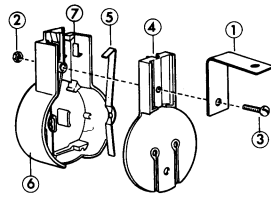
## FEATURES

1. Battens: the cross section gives an exceptionally strong batten with very clean lines. The 5mm/0.29in ceiling stand-off reduces the effect of ceiling unevenness against the straight batten edge. The impact resistant dark blue\* plastic end plates are attached at the factory to give a smart modern appearance to the fitting. \*White ends are available as optional extras
2. Circuits: the latest polyester resin filled ballast units are employed in switch less start circuits (no starter switch—reduces maintenance). Capacitors are of standard high quality. Wiring is of the latest metric solid conductor, single core type, insulated with high temperature PVC connected to the components by either push-in connector or pin connectors. The side entry fuse is accessible without touching any part of the fitting or most attachments.
3. Lampholders: spring loaded lampholders enable either-end relamping of the fitting. They are mounted on bridge pieces which can be secured to the batten without the use of tools.
4. Installation: fittings are suitable for conduit, rod, chain or conduit box mounting (unless detailed otherwise) at normal suspension centres. Alternative mains entry is provided in the centre back of the battens or by a cut-out in each end plate. A heavy duty, large capacity, terminal block is capable of accepting looped 2.5mm<sup>2</sup> cables (2 x 7/029in).
5. Finish: high quality acrylic enamel stark white finish is applied to all spines and reflectors. All diffusers and prismatic controllers are of top quality light stabilised plastic.
6. Attachments: two screws operating in sliding cage nuts secure the channel covers and reflectors to the spine through keyhole slots. Most commercial attachments then simply hook or spring on to channel covers or special brackets.

# Atlantic features

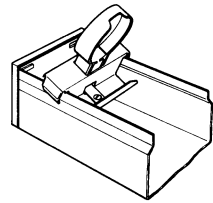


Cross section

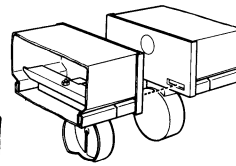


Lampholders

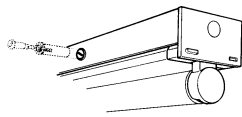
1. Spring bracket
2. Full nut
3. Panhead fixing screw
4. Cover moulding
5. Terminal contact
6. Body moulding
7. Contact backing plate



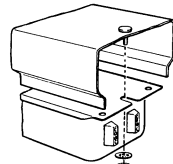
Lampholder assembly



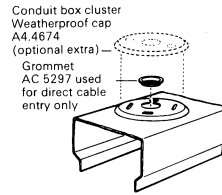
Interlocking plastic end caps



Side entry fuse

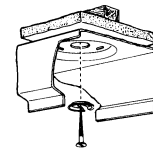


Welded-in screw studs

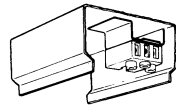


Conduit box cluster  
Weatherproof cap  
A4.4674  
(optional extra)  
Grommet  
AC 5297 used  
for direct cable  
entry only

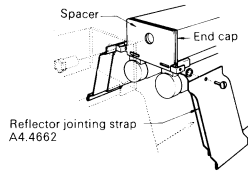
Conduit suspension



Slotted washers



Mains terminal block

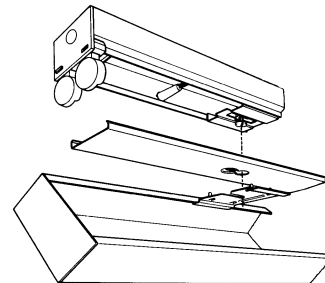


Jointing strap assembly

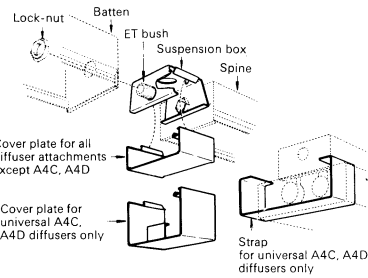
**A4.4662** Reflector jointing strap: this attachment is for use when open-ended metal reflectors are being continuously mounted. It closes the gap between adjacent reflectors and ensures perfect alignment when battens are rigidly mounted.

**A4.4660**: This spacer assembly is available when fixed-end diffuser A4C and A4D fittings are required to be mounted continuously (space between battens: 52mm/2.05in).

**A4.4661**: This spacer is available when continuous mounting of diffusers (except A4C and A4D) or closed-end reflectors is required but has no facility for the alignment of adjacent attachments which should be carried out by a manual operation on installation (space between battens: 52mm/2.05in).



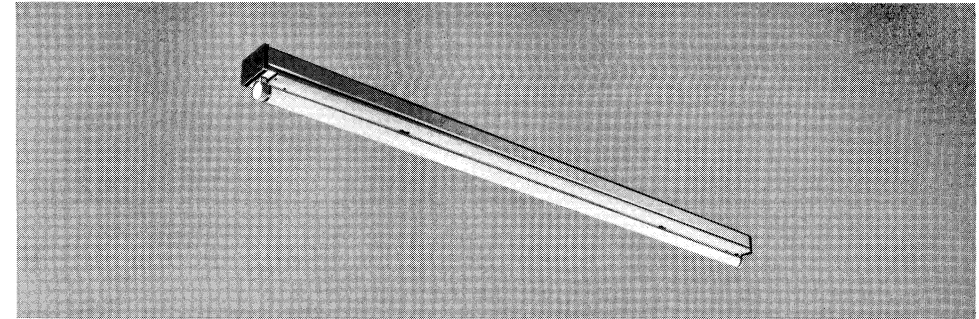
Fast positive attachment fixing



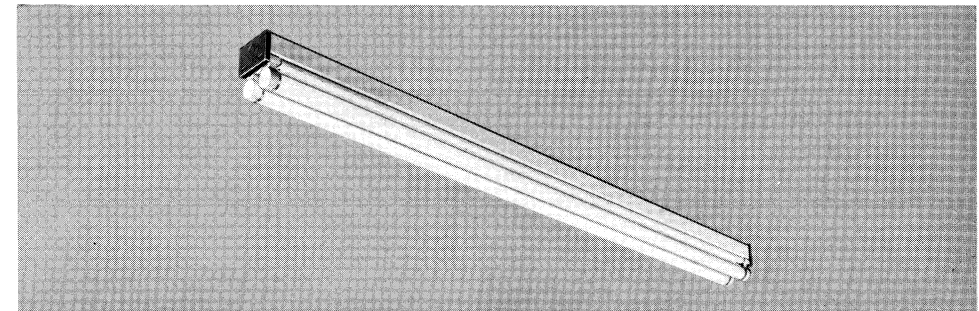
Continuous mounting jointing piece

*These items are provided with a suspension hole and small conduit box cluster to help minimize the number of suspension points required (except on 2400mm/8ft and four-tube fittings).  
A4 GC/A4.GD/A4.FM attachments are not suitable for continuous mounting with the above spacers*

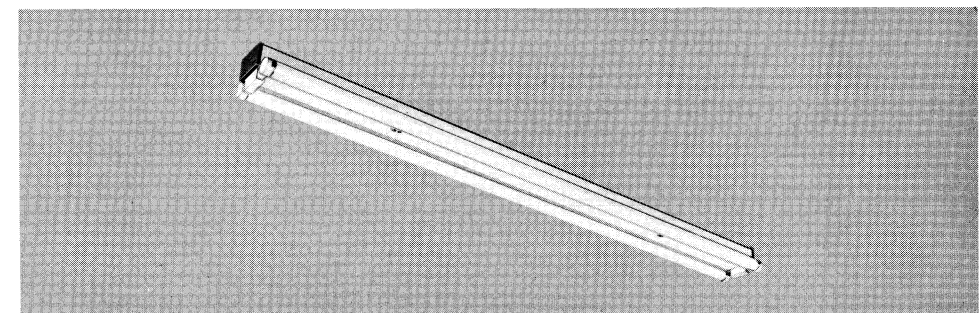
# Atlantic basic battens



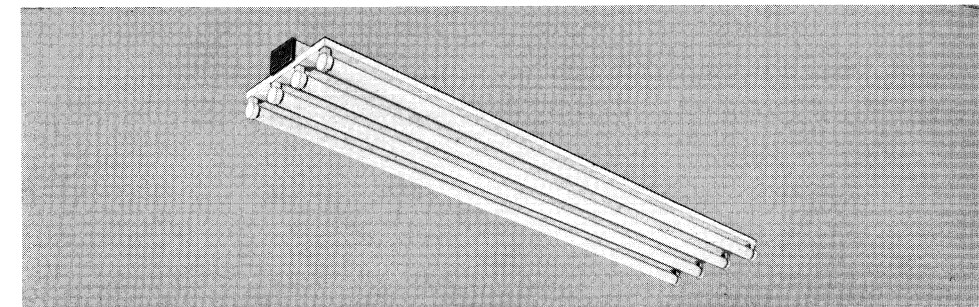
A4A/685



A4A/2685



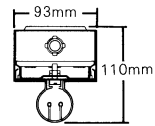
A4A/B2685



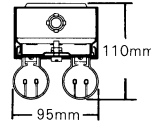
A4B/4685

# Atlantic basic batten

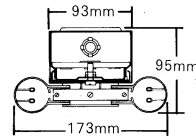
The basic spine plus the series "A" channel cover produces a range of single and twin tube batten fittings in 8ft, 6ft, 5ft, and 4ft lengths. The 4-tube spines plus the series "B" channel cover produces a range of 4-tube batten fittings which are eminently suitable for use with suspended luminous ceilings. These general-purpose fittings can be used anywhere where an unshielded fluorescent tube is acceptable. All fittings are suitable for use on 240V 50Hz supplies. Other voltages on application. The "A" channel cover may also be used with the twin "B" spine.



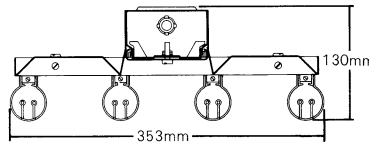
A4A (Single)



A4A (Narrow Twin)



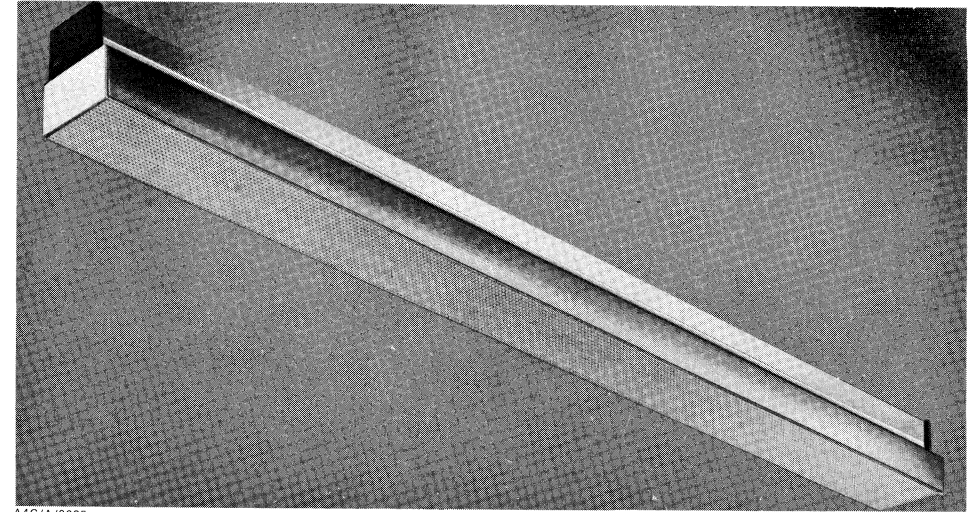
A4A (Broad Twin)



A4B (4-tube side cover reflectors)

Nominal Tube Length	Component Catalogue no.											
	mm	ft	Rating	Circuit	Fitting Catalogue no.	1st Attachment Catalogue no.	2nd Attachment Catalogue no.	Spine Catalogue no.	o/a Length	Weight		
									mm	in	kg	lb
1200	4	40W	SRS	A4A/40	A4A.24	—	—	A4.40	1241	48-8	4-4	9-7
1200	4	2x40W	SRS	A4A/240	A4A.24	—	—	A4.240	1241	48-8	6-2	13-7
1500	5	65W	SRS	A4A/65	A4A.25	—	—	A4.65	1542	60-7	5-4	11-8
1500	5	2x65W	SRS	A4A/265	A4A.25	—	—	A4.265	1542	60-7	7-5	16-5
1500	5	2x65W	SRS	A4A/B265	A4A.25	—	—	A4.B265	1541	60-7	7-7	17-1
1800	6	85W	SRS	A4A/685	A4A.26	—	—	A4.685	1805	71-1	5-6	12-4
1800	6	2x85W	SRS	A4A/2685	A4A.26	—	—	A4.2685	1805	71-1	8-1	17-5
1800	6	2x85W	SRS	A4A/B2685	A4A.26	—	—	A4.B2685	1805	71-1	8-2	18-0
1800	6	4x85W	SRS	A4B/4685	A4B.46	—	—	A4.4685	1805	71-1	20-4	45
2400	8	85W	QS	A4A/885	A4A.28	—	—	A4.885	2416	95-1	8-5	18-1
2400	8	2x85W	QS	A4A/Q2885	A4A.28	—	—	A4.Q2885	2416	95-1	13-7	29-5
2400	8	2x85W	QS	A4B/Q2885	A4A.28	—	—	A4.B2885	2416	95-1	13-7	29-5
2400	8	4x85W	QS	A4B/Q4885	A4B.48	—	—	A4.Q4885	2416	95-1	26-0	58-0
2400	8	1x125W	QS	A4A/125	A4A.28	—	—	A4.125	2416	95-1	9-7	21-4
2400	8	2x125W	QS	A4A/2125	A4A.28	—	—	A4.2125	2416	95-1	14-2	31-1

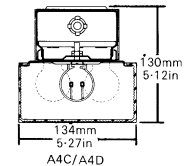
# Atlantic A4C and A4D prismatic and opal diffuser



A4C/A/2685

A general purpose prismatic controller and opal diffuser are extruded from clear and opal plastic respectively. The controller has clear glare controlling linear prisms on each side and a fine prismatic pattern embossed in the base. The diffuser has smooth opal sides. Injection moulded white end plates are permanently attached and both the controller and diffuser are suitable for use with either single or

twin (close space) tubes. Brackets are supplied with the attachment to secure it to the batten; these are fixed by the channel cover fixing screws on the batten. Standard fittings are for 230/240V 50Hz. Details of fittings for other supplies are available on application.



A4C/A4D  
A4C Universal prismatic controller  
A4D Universal opal diffuser

## RANGE

### Prismatic Controller

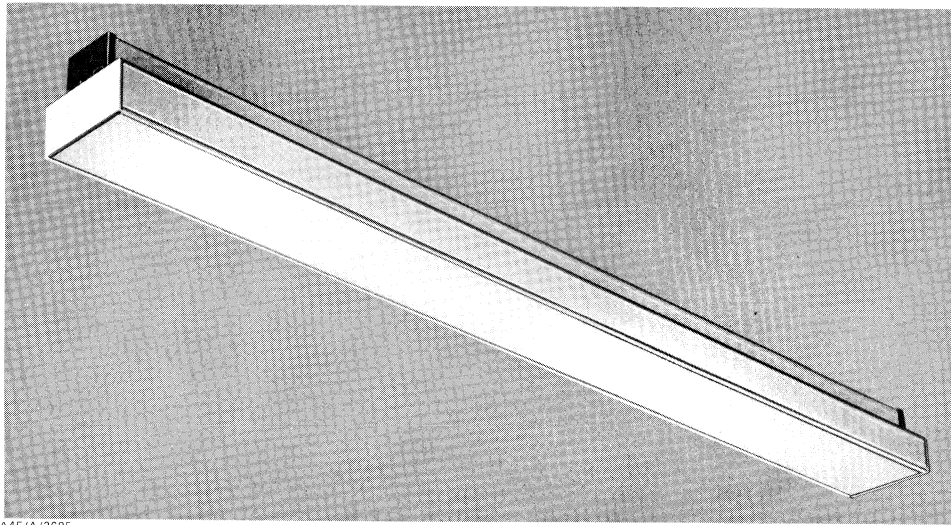
Complete fitting				Components			Dimensions			Approx. weight (incl. tubes)	
Nominal tube length	mm	ft.	Rating	1st Attachment Catalogue no.	2nd Attachment Catalogue no.	Batten Catalogue no.	Overall length	mm	in		kg
1200	4	40W	SRS	A4C/A/40	A4C.24	A4A.24	A4.40	1254	49-4	5-3	11-6
1200	4	2 x 40W	SRS	A4C/A/240	A4C.24	A4A.24	A4.240	1254	49-4	7-1	15-6
1500	5	65W	SRS	A4C/A/65	A4C.25	A4A.25	A4.65	1554	61-2	6-4	14-1
1500	5	2 x 65W	SRS	A4C/A/265	A4C.25	A4A.25	A4.265	1554	61-2	8-5	18-8
1800	6	85W	SRS	A4C/A/685	A4C.26	A4A.26	A4.685	1817	71-5	6-9	15-1
1800	6	2 x 85W	SRS	A4C/A/2685	A4C.26	A4A.26	A4.2685	1817	71-5	9-1	20
2400	8	85W	QS	A4C/A/885	A4C.28	A4A.28	A4.885	2429	95-6	10-1	22-3
2400	8	2 x 85W	QS	A4C/A/Q2885	A4C.28	A4A.28	A4.Q2885	2429	95-6	15-3	33-7
2400	8	125W	QS	A4C/A/125	A4C.28	A4A.28	A4.125	2429	95-6	11-4	25
2400	8	2 x 125W	QS	A4C/A/2125	A4C.28	A4A.28	A4.2125	2429	95-6	15-7	34-7

### Opal Diffuser

1200	4	40W	SRS	A4D/A/40	A4D.24	A4A.24	A4.40	1254	49-4	5-3	11-6
1200	4	2 x 40W	SRS	A4D/A/240	A4D.24	A4A.24	A4.240	1254	49-4	7-1	15-6
1500	5	65W	SRS	A4D/A/65	A4D.25	A4A.25	A4.65	1554	61-2	6-4	14-1
1500	5	2 x 65W	SRS	A4D/A/265	A4D.25	A4A.25	A4.265	1554	61-2	8-5	18-8
1800	6	85W	SRS	A4D/A/685	A4D.26	A4A.26	A4.685	1817	71-5	6-9	15-1
1800	6	2 x 85W	SRS	A4D/A/2685	A4D.26	A4A.26	A4.2685	1817	71-5	9-1	20
2400	8	85W	QS	A4D/A/885	A4D.28	A4A.28	A4.885	2429	95-6	10-1	22-3
2400	8	2 x 85W	QS	A4D/A/Q2885	A4D.28	A4A.28	A4.Q2885	2429	95-6	15-3	33-7
2400	8	125W	QS	A4D/A/125	A4D.28	A4A.28	A4.125	2429	95-6	11-4	25
2400	8	2 x 125W	QS	A4D/A/2125	A4D.28	A4A.28	A4.2125	2429	95-6	15-7	34-7

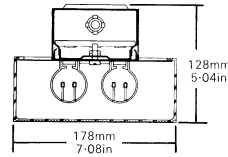


# Atlantic A4E two-tone diffuser



A4E/A/2685

This compact two-tone extruded plastic controller gives good light control. The sides are in opal to give adequate shielding and freedom from glare, while the base is embossed with a clear prismatic pattern for high efficiency. The controller has permanently attached injection moulded ends and is supported by brackets, supplied with it, which are secured to the channel cover fixing screws onto the batten. For use with twin (close spaced) tubes (or single tube if required). Standard fittings are for 230/240V 50Hz. Details of fittings for other supplies are available on application.

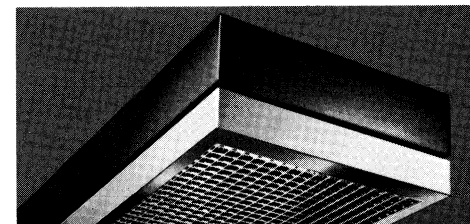
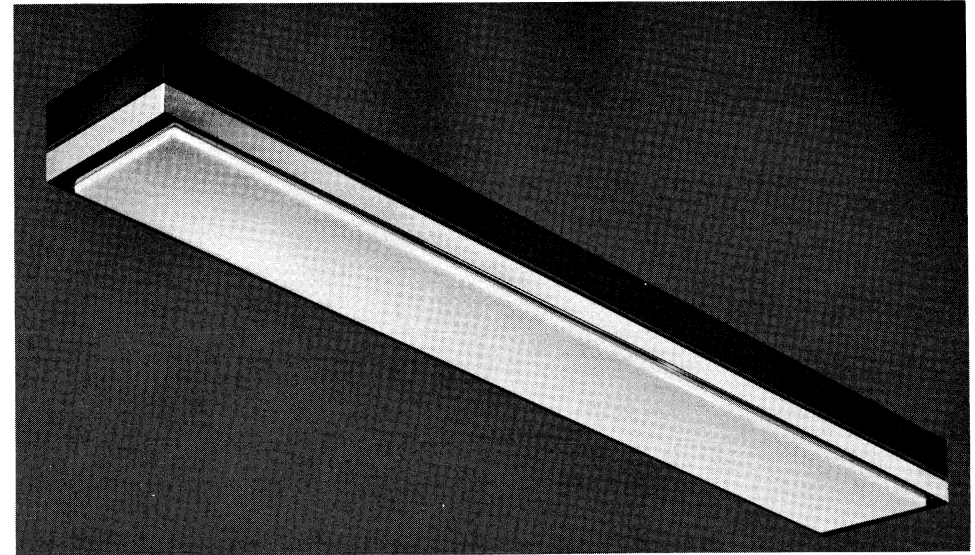


A4E Two-tone diffuser

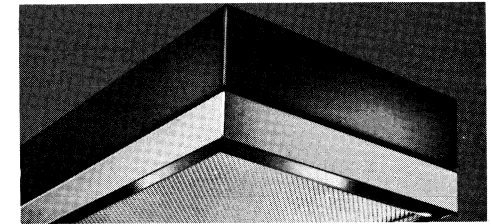
## RANGE

Complete fitting				Components				Dimensions				Approx. weight	
Nominal tube length								Overall length				(incl. tubes)	
mm	ft.	Rating	Circuit	Catalogue no.	1st Attachment Catalogue no.	2nd Attachment Catalogue no.	Batten Catalogue no.	mm	in	kg	lb		
1200	4	2 x 40W	SRS	A4E/A/240	A4E.24	A4A.24	A4.240	1265	49-8	7-4	16-2		
1500	5	2 x 65W	SRS	A4E/A/265	A4E.25	A4A.25	A4.265	1565	61-6	8-9	19-6		
1800	6	2 x 85W	SRS	A4E/A/2685	A4E.26	A4A.26	A4.2685	1829	72	9-4	20-7		
2400	8	2 x 85W	QS	A4E/A/Q2885	A4E.28	A4A.28	A4.Q2885	2440	96	15-6	34-4		
2400	8	2 x 125W	QS	A4E/A/2125	A4E.28	A4A.28	A4.2125	2440	96	16	35-4		

# Atlantic A4FM Millionaire



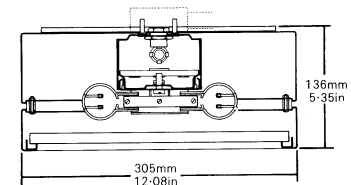
A4FMC/A/B2685



A4FML/A/B2685

A luxury attachment which can be used with a standard range of battens. The attachment consists of a surface mounted black box supported by a bright finish trim with an inset of translucent blue panelling between the contrasting top and bottom sections. A metalised louvre, a prismatic panel or a diffusing dish can be used to provide high intensity with low glare light control, a bit of sparkle or softly diffused light with good appearance, respectively.

Standard fittings are for 230/240V 50Hz. Details of fittings for other supplies are available on application.



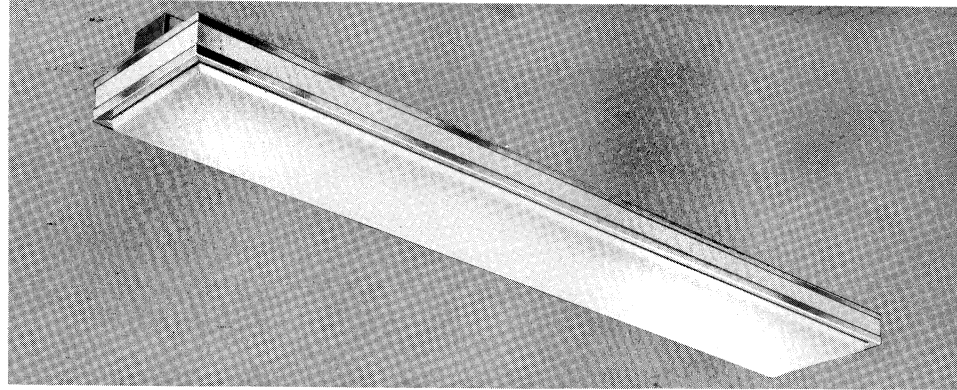
A4FML Millionaire fitting

## RANGE

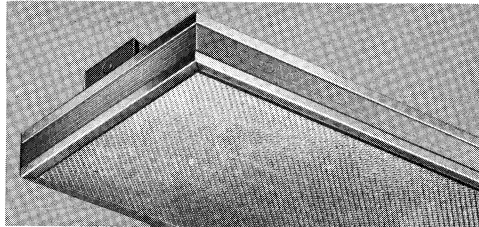
Complete fitting				Components				Dimensions				Approx. weight	
Nominal tube length								Overall length				(incl. tubes)	
mm	in	Rating	Circuit	Catalogue no.	1st Attachment Catalogue no.	2nd Attachment Catalogue no.	Batten Catalogue no.	mm	in	kg	lb		
1800	6	2 x 85W	SRS	A4FMC/A/B2685	A4FMC.26	A4A.26	A4.B2685	1850	72-8	16-8	37		
1800	6	2 x 85W	SRS	A4FMD/A/B2685	A4FMD.26	A4A.26	A4.B2685	1850	72-8	16-6	36-5		
1800	6	2 x 85W	SRS	A4FML/A/B2685	A4FML.26	A4A.26	A4.B2685	1850	72-8	17-4	38-3		

Overall depth of FMC is 136mm|5.35in and of FMD 149mm|5.87in

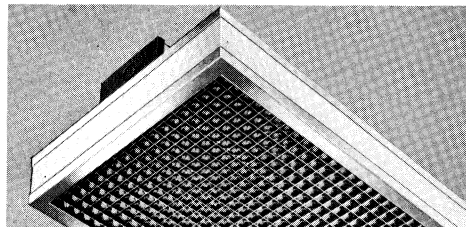
# Atlantic A4FA aluminium frame plain trim



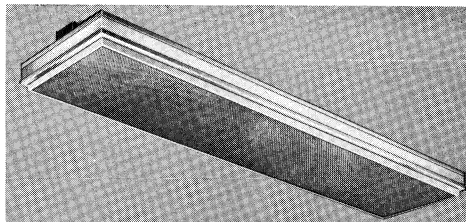
A4FAD/B2685



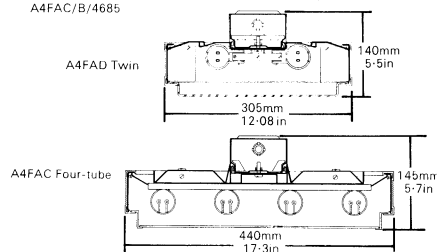
A4FAC/B2685



A4FAL/B2685



A4FAC/B/4685



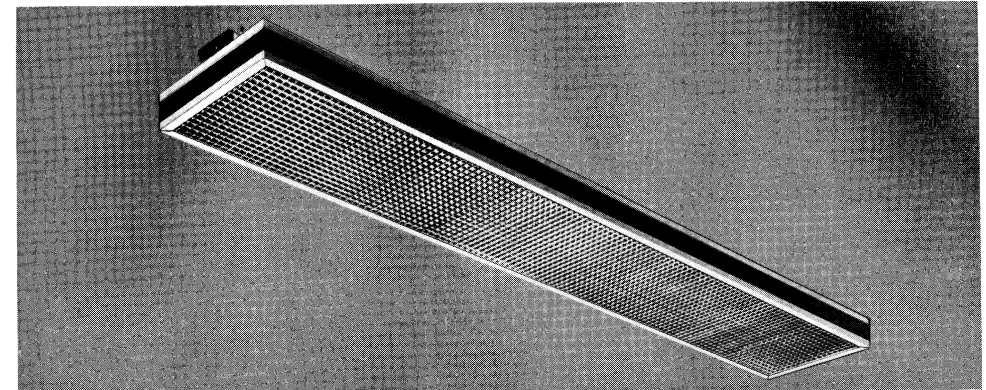
The satin anodized extruded aluminium frame surrounding the fitting provides precise detailing and a crisp appearance to the fitting.  
 Into the base of this aluminium frame can be fitted either a metallised louvre (L), opal dish (D) or prismatic controller (C) to provide the appearance or light control required.  
 The attachment hooks onto a standard broad channel cover, using special clips provided, and allows a small percentage of upward light.  
 A larger version of this aluminium frame attachment is available, for use with four-tube battens, with a dropped prismatic panel framed in opal Z section extruded polystyrene.  
 Standard fittings are for 230/240V 50Hz.  
 Details of fittings for other supplies are available on application.

## RANGE

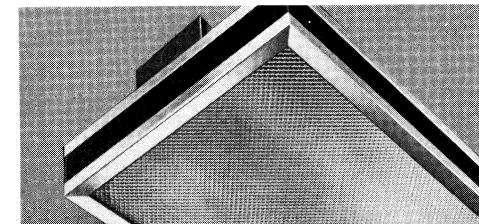
Complete fitting				Components				Dimensions				Approx. weight (incl. tubes)
Nominal tube length				1st Attachment				2nd Attachment				
mm	ft.	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	Batten Catalogue no.	Overall length	mm	in	kg	lb
1800	6	2 x 85W	SRS	A4FAC/B2685	A4FAC.26	*	A4.B2685	1829	72	12.6	27.9	
1800	6	4 x 85W	SRS	A4FAC/B/4685	A4FAC.46	A4B.46	A4.4685	1845	72.6	26.3	58	
2400	8	2 x 85W	QS	A4FAC/B2885	A4FAC.28	*	A4.B2885	2439	96	19.3	42.5	
2400	8	4 x 85W	QS	A4FAC/B/Q4885	A4FAC.48	A4B.48	A4.Q4885	2457	96.7	33.1	73	
1800	6	2 x 85W	SRS	A4FAD/B2685	A4FAD.26	*	A4.B2685	1829	72	12.8	28.1	
2400	8	2 x 85W	QS	A4FAD/B2885	A4FAD.28	*	A4.B2885	2439	96	19.3	42.5	
1800	6	2 x 85W	SRS	A4FAL/B2685	A4FAL.26	*	A4.B2685	1829	72	13.2	29.2	
2400	8	2 x 85W	QS	A4FAL/B2885	A4FAL.28	*	A4.B2885	2439	96	20	44.2	

\*Channel cover included with 1st attachment.  
 Overall depth of Twin FAC and FAL is 122mm/4.8in

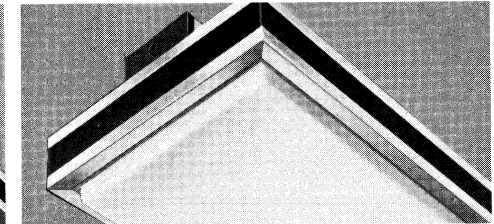
# Atlantic A4FH aluminium frame, black hide effect trim



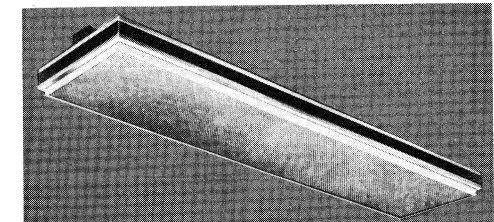
A4FHL/B2685



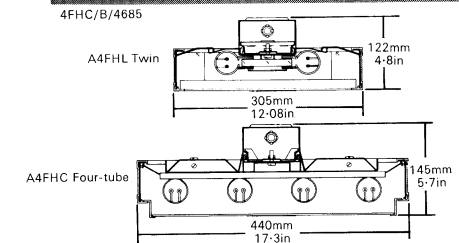
A4FHC/B2685



A4FHD/B2685



4FHC/B/4685



The satin anodized extruded aluminium frame surrounding the fitting has a simulated black hide trim and provides precise detailing and a crisp appearance to the fitting.  
 Into the base of the aluminium frame can be fitted either a metallised louvre (L), opal dish (D) or prismatic controller (C) as required.  
 The attachment hooks onto a standard broad channel cover, using special clips provided, and allows a small percentage of upward light.  
 A larger version of this aluminium frame attachment is available, for use with four-tube battens, with a dropped prismatic panel framed in opal Z section extruded polystyrene.  
 Standard fittings are for 230/240V 50Hz.  
 Details of fittings for other supplies are available on application.

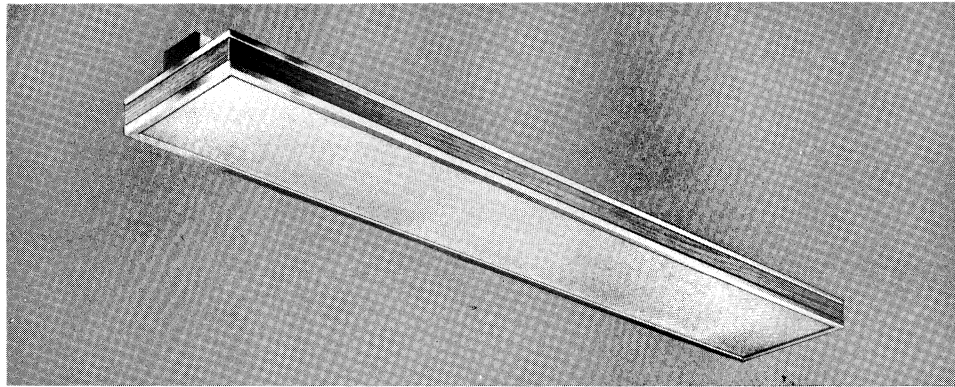
## RANGE

Complete fitting				Components				Dimensions				Approx. weight (incl. tubes)
Nominal tube length				1st Attachment				2nd Attachment				
mm	ft.	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	Batten Catalogue no.	Overall length	mm	in	kg	lb
1800	6	2 x 85W	SRS	A4FHC/B2685	A4FHC.26	*	A4.B2685	1829	72	12.6	27.9	
1800	6	4 x 85W	SRS	A4FHC/B/4685	A4FHC.46	A4B.46	A4.4685	1845	72.6	26.3	58	
2400	8	2 x 85W	QS	A4FHC/B2885	A4FHC.28	*	A4.B2885	2439	96	19.3	42.5	
2400	8	2 x 85W	QS	A4FHC/B/Q4885	A4FHC.48	A4B.48	A4.BQ4885	2457	96.7	33.1	73	
1800	6	2 x 85W	SRS	A4FHD/B2685	A4FHD.26	*	A4.B2685	1829	72	12.8	28.1	
2400	8	2 x 85W	QS	A4FHD/B2885	A4FHD.28	*	A4.B2885	2439	96	19.3	42.5	
1800	6	2 x 85W	SRS	A4FHL/B2685	A4FHL.26	*	A4.B2685	1829	72	13.2	29.2	
2400	8	2 x 85W	QS	A4FHL/B2885	A4FHL.28	*	A4.B2885	2439	96	20	44.2	

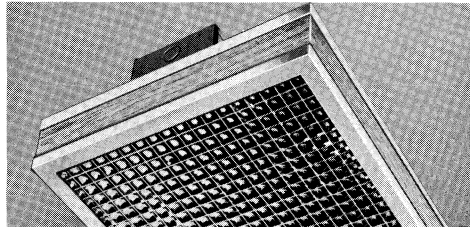
\*Channel cover included with 1st attachment

Overall depth of Twin FHC is 122mm/4.8in and of FHD is 140mm/5.5in

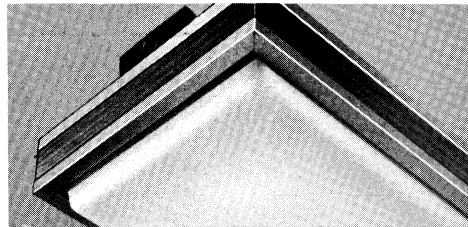
## Atlantic A4FT aluminium frame timber effect trim



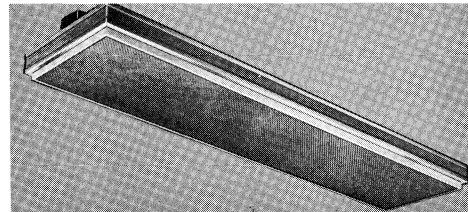
A4FTC/B2685



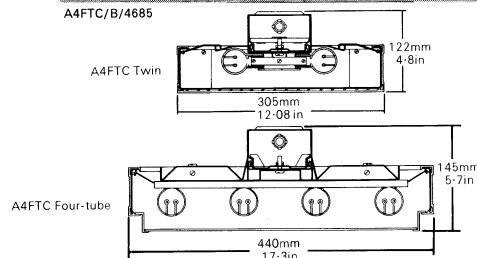
A4FTL/B2685



A4FTD/B2685



A4FTC/B/4685



The anodized extruded aluminium frame surrounding the fitting has a simulated timber trim. A metalised louvre (L), opal dish (D) or prismatic controller (C) can be fitted to provide the final appearance or light control required.

The attachment hooks onto a standard broad channel cover, using special clips provided, and allows a small percentage of upward light.

A larger version of this aluminium frame attachment is available, for use with four-tube battens, with a dropped prismatic panel framed in opal Z section extruded polystyrene.

Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.

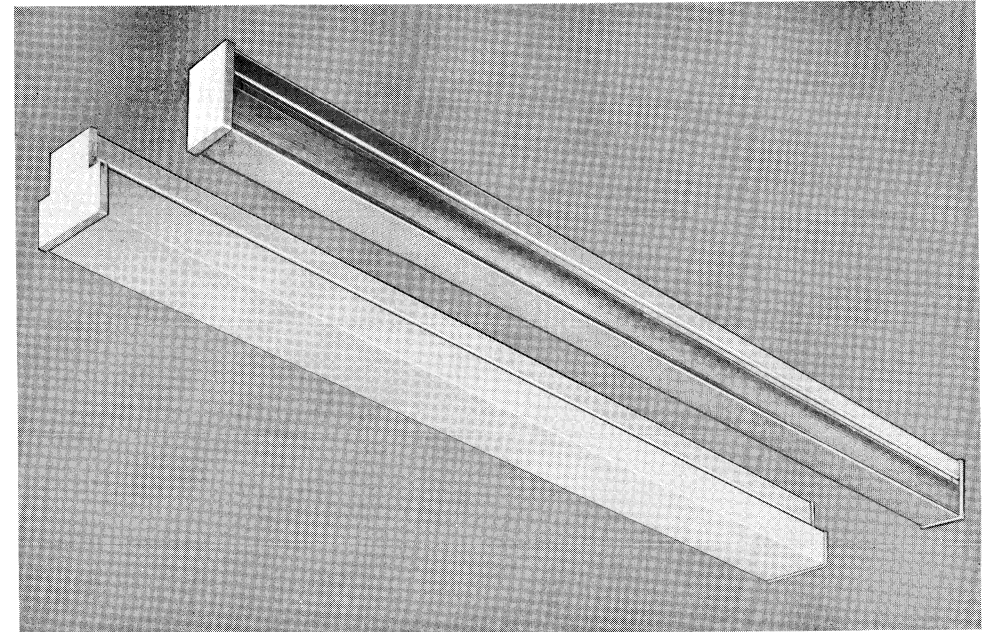
### RANGE

Complete fitting				Components			Dimensions		Approx. weight	
Nominal tube length	Rating	Circuit	Catalogue no.	1st Attachment Catalogue no.	2nd Attachment Catalogue no.	Batten Catalogue no.	Overall length	mm	in	(incl. tubes)
1800	6	2 x 85W	SRS	A4FTC/B2685	A4FTC.26	*	A4.B2685	1829	72	12.6 27.9
1800	6	4 x 85W	SRS	A4FTC/B/4685	A4FTC.46	A4B.46	A4.4685	1845	72.6	26.3 58
2400	8	2 x 85W	QS	A4FTC/B2885	A4FTC.28	*	A4.B2885	2439	96	19.3 42.5
2400	8	4 x 85W	QS	A4FTC/B/Q4885	A4FTC.48	A4B.48	A4.Q4885	2457	96.7	33.1 73
1800	6	2 x 85W	SRS	A4FTD/B2685	A4FTD.26	*	A4.B2685	1829	72	12.8 28.1
2400	8	2 x 85W	QS	A4FTD/B2885	A4FTD.28	*	A4.B2885	2439	96	19.3 42.5
1800	6	2 x 85W	SRS	A4FTL/B2685	A4FTL.26	*	A4.B2685	1829	72	13.2 29.2
2400	8	2 x 85W	QS	A4FTL/B2885	A4FTL.28	*	A4.B2885	2439	96	20 44.2

\*Channel cover included with 1st attachment

Overall depth of Twin FTD is 140mm/5.5in and of FTL is 122mm/4.8in

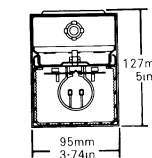
## Atlantic A4GC and A4GD Unicap diffusers



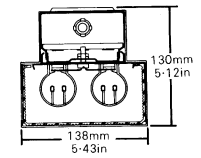
A4GD/2685 A4GC/A/685

Controllers or diffusers, in either single or twin (closed spaced) tube sizes, are extruded in clear and opal plastic respectively. The sides of the prismatic diffuser have linear prisms to re-direct the light away from the glare zone and a fine prismatic pattern embossed into the base. Diffusers are in plain opal. They are attached to the basic batten by injection moulded end pieces which provide a unified appearance to the complete batten and attachment. The single tube size has virtually the same cross section as the basic batten. The twin tube size is supplied complete with a special channel cover which is wider than standard to close the mouth of the controller thereby reducing possible dust entry points to a minimum. Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.



A4GC Single prismatic controller



A4GC Twin prismatic controller

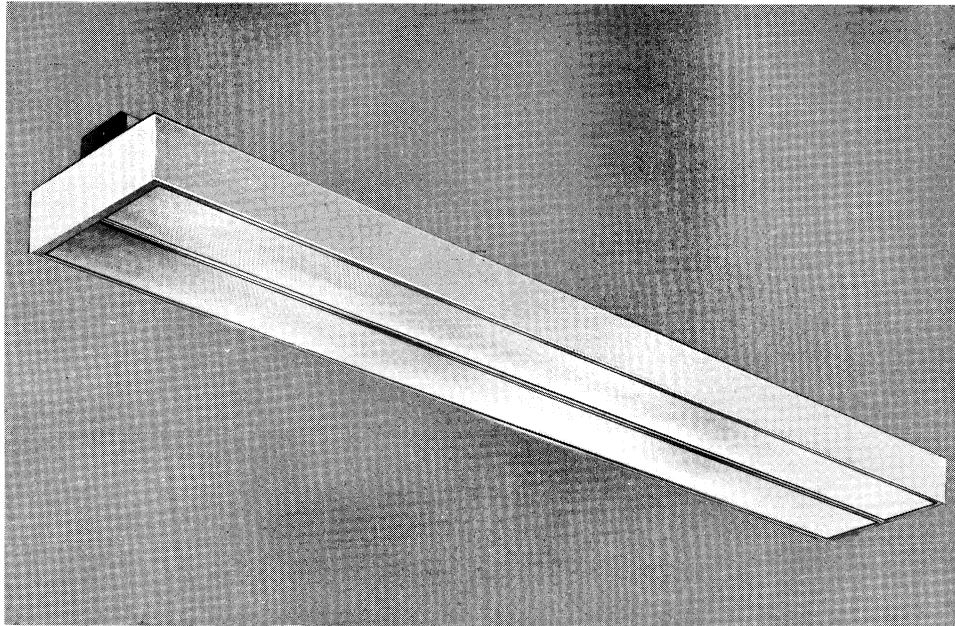
A4GD has similar dimensions

### RANGE

Complete fitting				Components			Dimensions		Approx. weight	
Nominal tube length	Rating	Circuit	Catalogue no.	1st Attachment Catalogue no.	2nd Attachment Catalogue no.	Batten Catalogue no.	Overall length	mm	in	(incl. tubes)
1800	6	85W	SRS	A4GC/A/685	A4GC.16	A4.685	1808	71.2	6.9	15.1
1800	6	85W	SRS	A4GD/A/685	A4GD.16	A4A.26	1808	71.2	6.9	15.1
1800	6	2 x 85W	SRS	A4GC/2685	A4GC.26	*	A4.2685	1808	71.2	9.1 20
1800	6	2 x 85W	SRS	A4GD/2685	A4GD.26	*	A4.2685	1808	71.2	9.1 20

\*Channel cover included with 1st attachment

# Atlantic A4L low brightness



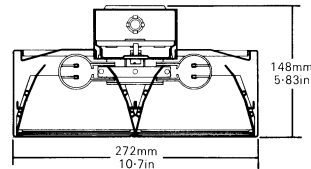
A4L/B2685

This attachment is a completely new approach developed to meet the demand for lighting fittings that can provide high values of illumination with a low degree of discomfort glare, while providing a clean attractive appearance. This is achieved using a clear plastic panel in the base, with moulded transverse prisms, to control the light from the tubes when viewed lengthways and to provide a sufficient degree of brightness to the fitting when switched on to avoid the dull effect that can occasionally be produced.

The high light output ratio of the fitting is produced essentially by optically designed extruded aluminium reflectors.

Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.

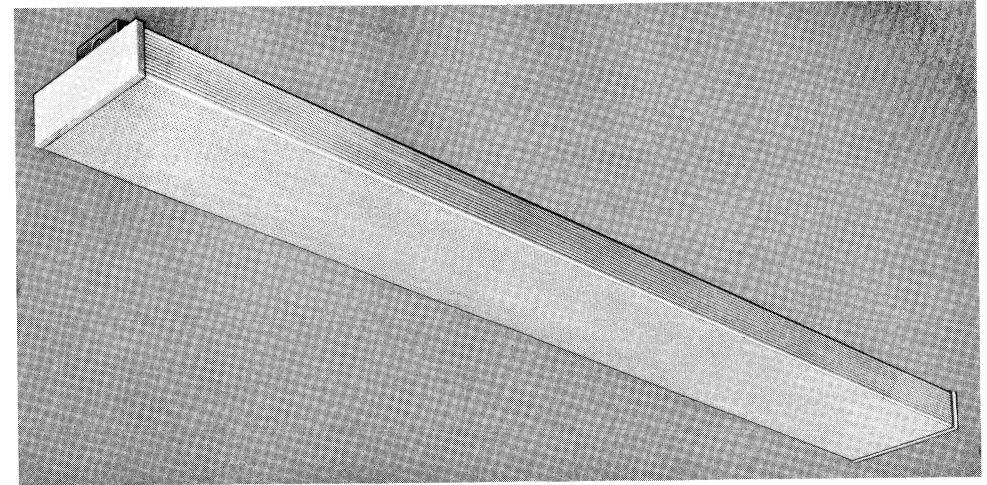


A4L Low brightness

Complete fitting				Components			Dimensions		Approx. weight (incl. tubes)		
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length	kg		lb	
mm	ft.	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	mm		in		
1800	6	2 x 85W	SRS	A4L/B2685	A4L.26	*	A4.B2685	1829	72	13.8	30.4

\*Channel cover is included with 1st attachment

# Atlantic A40 and A4P broad opal and prismatic diffusers



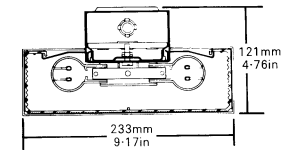
A4P/B2685

This broad prismatic controller and opal diffuser have been specifically designed for use with twin (broad spaced) tubes and the configuration of batten, lamp position and prismatic controller or diffuser allows a crisp, modern rectangular shape to be used.

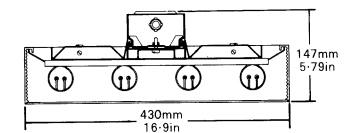
The controller is extruded in clear plastic with linear side prisms and pyramidal base prisms, and the diffuser from reeded opal plastic. The function of the prisms is to re-direct light from the tubes either above the horizontal or up to 30° below it, thus ensuring the least amount of light being emitted in the zone most likely to give rise to discomfort glare. A wider version of the prismatic controller only has been designed for use on four-tube battens.

Injection moulded white end caps are supplied with the attachments and are simply attached by locating two pips at the top and one at the bottom of each end cap with corresponding holes in the ends of the attachment. Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.



A4P/A40 Broad prismatic controller or opal diffuser



A4P Four-tube wide prismatic controller only

## RANGE

### Prismatic Controller

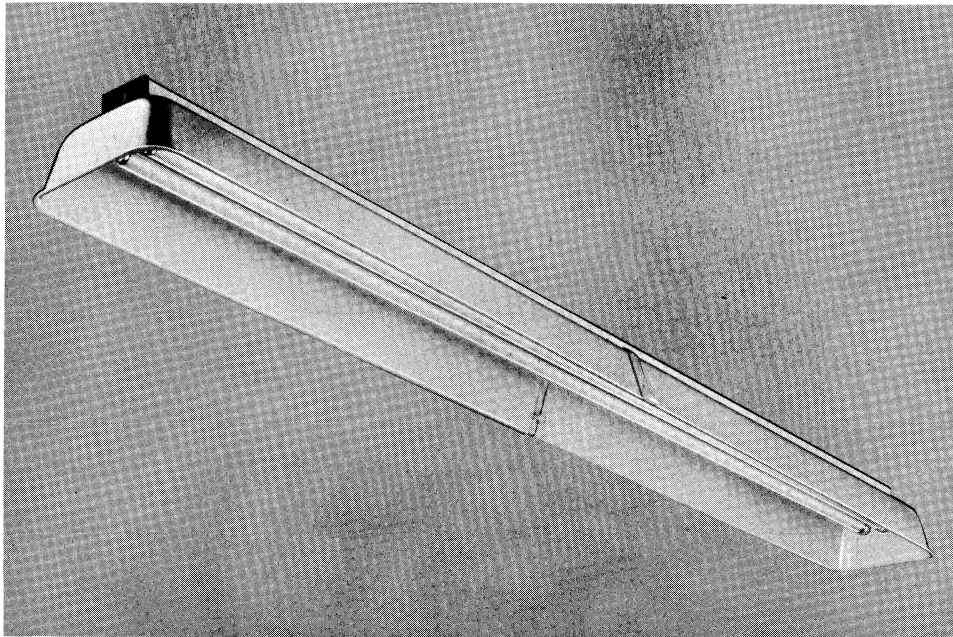
Complete fitting				Components			Dimensions		Approx. weight (incl. tubes)		
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length	kg		lb	
mm	ft.	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	mm		in		
1500	5	2 x 65W	SRS	A4P/B265	A4P.25	*	A4.B265	1576	62	9.9	21.8
1800	6	2 x 85W	SRS	A4P/B2685	A4P.26	*	A4.B2685	1839	72.4	10.6	23.3
1800	6	4 x 85W	SRS	A4P/B/4685	A4P.46	A4B.46	A4.4685	1839	72.4	22.6	50
2400	8	2 x 85W	QS	A4P/B2885	A4P.28	*	A4.B2885	2452	96.6	15.8	35
2400	8	4 x 85W	QS	A4P/B/Q4885	A4P.48	A4B.48	A4.Q4885	2452	96.6	29.5	65

### Opal Diffuser

1500	5	2 x 65W	SRS	A40/B265	A40.25	*	A4.B265	1576	62	9.9	21.8
1800	6	2 x 85W	SRS	A40/B2685	A40.26	*	A4.B2685	1839	72.4	10.6	23.3
2400	8	2 x 85W	QS	A40/B2885	A40.28	*	A4.B2885	2451	96.5	15.8	35

\*Channel cover included with 1st attachment

## Atlantic A4V vitreous enamel reflector

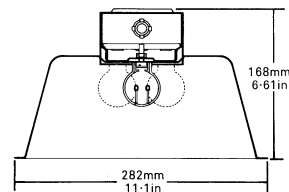


A4V/2885

A vitreous enamel finished 2400mm/8ft reflector with closed ends and slots in the upper surface of the reflector.

These provide a generous proportion of upward lighting and reduce brightness contrasts. Convection currents through the slots assist in reducing dirt accumulation on the reflector surfaces.

For ease of assembly the reflector is supplied in two halves with a central jointing assembly. The vitreous finish will withstand the vigorous cleaning necessary in certain dirty atmospheres. Standard fittings are for 230/240V 50Hz. Details of fittings for other supplies are available on application.

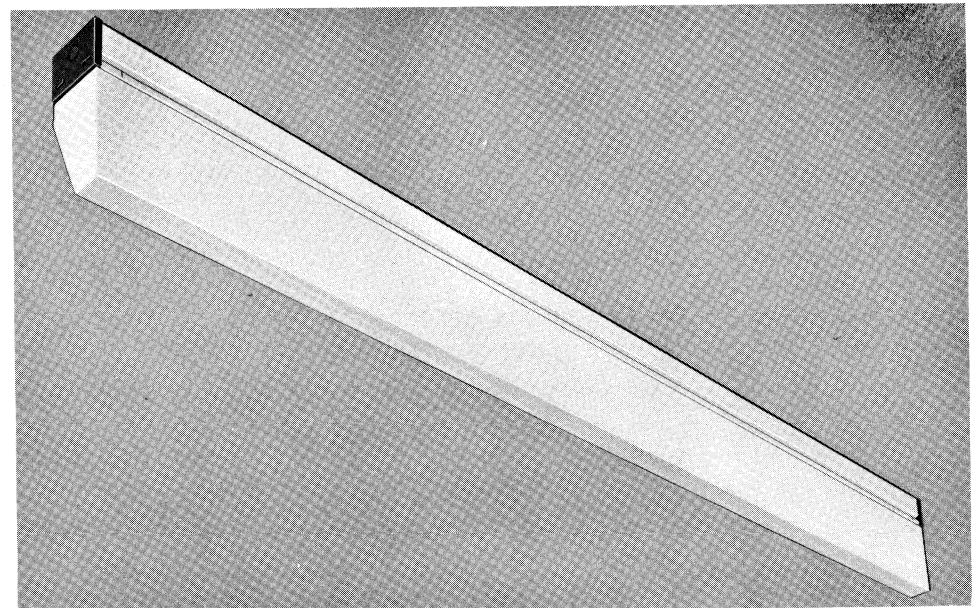


A4V Vitreous reflector

### RANGE

Complete fitting				Components				Dimensions			Approx. weight (incl tubes) kg lb
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length				
mm	ft.	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	mm	in	mm	in	
2400	8	85W	QS	A4V/885	A4V.28	—	A4.885	2565	101	19.9	44
2400	8	2 x 85W	QS	A4V/Q2885	A4V.28	—	A4.Q2885	2565	101	25.2	55.6
2400	8	125W	QS	A4V/125	A4V.28	—	A4.125	2565	101	21.4	47.2
2400	8	2 x 125W	QS	A4V/2125	A4V.28	—	A4.2125	2565	101	25.6	56.6

## Atlantic A4W wall washer



A4W/685

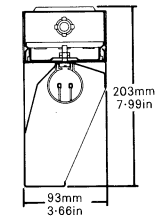
A specular reflector is designed to give an asymmetric distribution of light from this fitting. It is enclosed within a smart white enamelled framework.

The combination of single tube plus wall washer attachment gives a very smart appearance and makes the fitting particularly suitable for the lighting of office noticeboards, entrance murals, wall sculptures, shop displays and other vertical surfaces.

The designed mounting position for this fitting is on the ceiling, 610mm/2ft from the wall to be lit: this will then give an approximate 10:1 illumination ratio over a 3048mm/10ft wall.

Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.

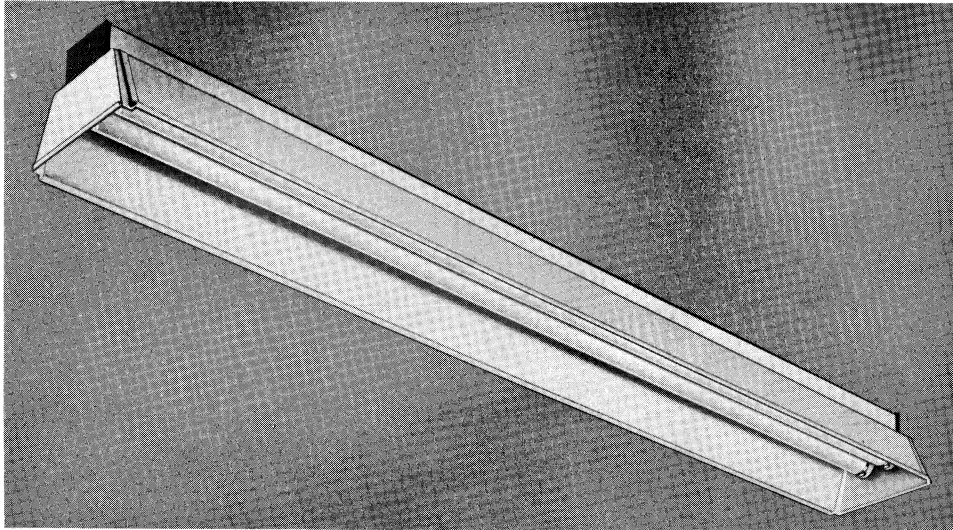


A4W Wall-washer

### RANGE

Complete fitting				Components				Dimensions			Approx. weight (incl. tubes) kg lb
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length				
mm	ft	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	Catalogue no.	mm	in	mm	in
1800	6	85W	SRS	A4W/685	A4W.16	—	A4.685	1805	71.1	7.7	17

## Atlantic A4X closed-end, slotted-top reflector

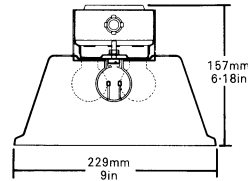


A4X/2685

A closed-end metal reflector with large slots in its upper surface to give a generous proportion of upward lighting and reduced brightness contrast. Convection currents through the slots assist in reducing dirt accumulation on the reflector surfaces and help to maintain the efficiency of the installation.

Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.

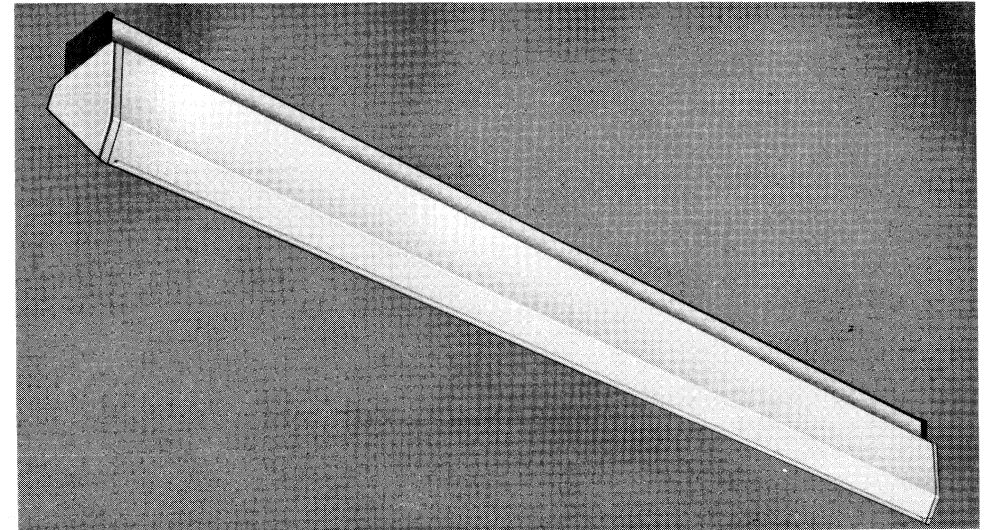


A4X Metal reflector-closed end

### RANGE

Complete fitting				Components			Dimensions				Approx. weight		
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length		Approx. weight				
mm	ft	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	mm	in	kg	lb			
1800	6	85W	SRS	A4X/685	A4X.26	—	A4.685	1834	72.2	9.9	21.8		
1800	6	2 x 85W	SRS	A4X/2685	A4X.26	—	A4.2685	1834	72.2	11.9	26.4		
2400	8	85W	QS	A4X/885	A4X.28	—	A4.885	2445	96.3	13.8	30.5		
2400	8	2 x 85W	QS	A4X/2885	A4X.28	—	A4.2885	2445	96.3	19.2	42.3		
2400	8	125W	QS	A4X/125	A4X.28	—	A4.125	2445	96.3	15.3	33.7		
2400	8	2 x 125W	QS	A4X/2125	A4X.28	—	A4.2125	2445	96.3	19.6	43.1		

## Atlantic A4Y angle reflector

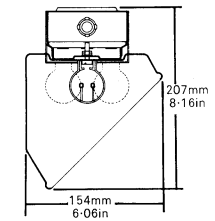


A4Y/2685

This angled reflector can be attached to either single or twin-tube battens to provide a general 'flow' of light in a required direction. It is particularly suitable for the lighting of chalk boards, work benches situated against vertical services, factory planning charts and for the general illumination of shop windows.

Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.

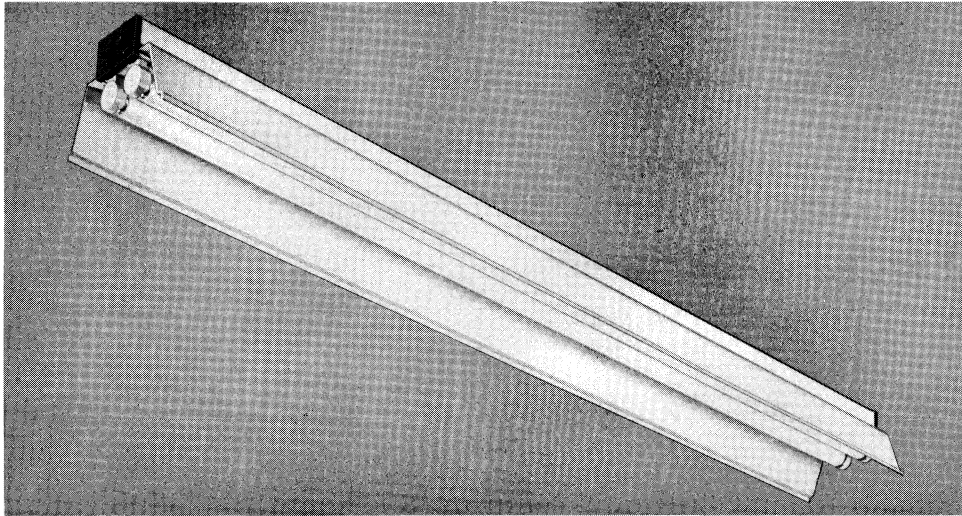


A4Y Angle reflector

### RANGE

Complete fitting				Components			Dimensions				Approx. weight		
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length		Approx. weight				
mm	ft	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	mm	in	kg	lb			
1500	5	65W	SRS	A4Y/65	A4Y.25	—	A4.65	1548	61.1	7.8	17.2		
1500	5	2 x 65W	SRS	A4Y/265	A4Y.25	—	A4.265	1548	61.1	10	22		
1800	6	85W	SRS	A4Y/685	A4Y.26	—	A4.685	1812	71.3	8.6	19		
1800	6	2 x 85W	SRS	A4Y/2685	A4Y.26	—	A4.2685	1812	71.3	10.7	23.6		
2400	8	85W	QS	A4Y/885	A4Y.28	—	A4.885	2423	95.4	12	26.5		
2400	8	2 x 85W	QS	A4Y/Q2885	A4Y.28	—	A4.Q2885	2423	95.4	17.3	38.1		
2400	8	125W	QS	A4Y/125	A4Y.28	—	A4.125	2423	95.4	13.4	29.7		
2400	8	2 x 125W	QS	A4Y/2125	A4Y.28	—	A4.2125	2423	95.4	17.7	39.1		

## Atlantic A4Z open-ended, slotted-top reflector



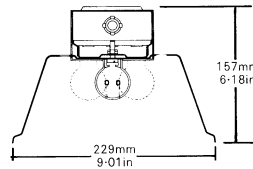
A4Z/2685

An open-ended metal reflector with large slots in its upper surface to give a generous proportion of upward lighting and reduce brightness contrast. Convection currents through the slots assist in reducing dirt accumulation on the reflector surfaces and help to maintain the efficiency of the installation.

An A4ZB version of this reflector is available for use on A4B type spines. A four-lamp version is also available and is shown with this type on the next page.

Standard fittings are for 230/240V 50Hz.

Details of fittings for other supplies are available on application.

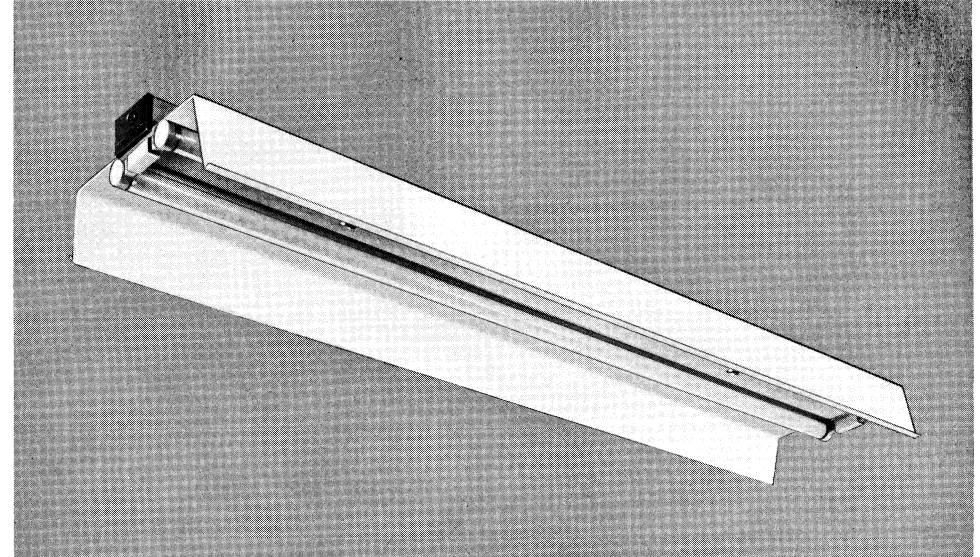


A4Z Metal reflector—open ended

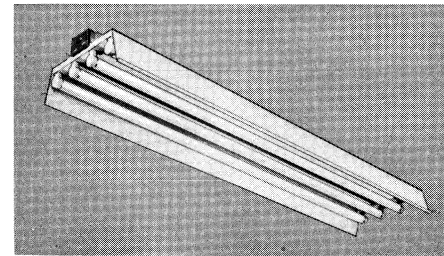
### RANGE

Complete fitting				Components			Dimensions				Approx. weight	
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length		Approx. weight		Approx. weight	
mm	in	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	mm	in	kg	lb	Approx. weight	
												(incl. tubes)
1200	4	40W	SRS	A4Z/40	A4Z.24	—	A4.40	1241	48.8	7.1	15.6	
1200	4	2 x 40W	SRS	A4Z/240	A4Z.24	—	A4.240	1241	48.8	8.3	18.4	
1500	5	65W	SRS	A4Z/65	A4Z.25	—	A4.65	1542	60.7	8.7	19.1	
1500	5	2 x 65W	SRS	A4Z/265	A4Z.25	—	A4.265	1542	60.7	10.8	23.9	
1800	6	85W	SRS	A4Z/85	A4Z.26	—	A4.85	1805	71.1	9.7	21.3	
1800	6	2 x 85W	SRS	A4Z/2685	A4Z.26	—	A4.2685	1805	71.1	11.8	25.9	
2400	8	85W	QS	A4Z/885	A4Z.28	—	A4.885	2416	95.1	13.5	29.9	
2400	8	2 x 85W	QS	A4Z/Q2885	A4Z.28	—	A4.Q2885	2416	95.1	18.8	41.5	
2400	8	125W	QS	A4Z/125	A4Z.28	—	A4.125	2416	95.1	15	33.1	
2400	8	2 x 125W	QS	A4Z/2125	A4Z.28	—	A4.2125	2416	95.1	19.2	42.3	

## Atlantic A4Z four-tube reflector and A4ZB broad open-ended, slotted-top reflector



A4ZB/B2685

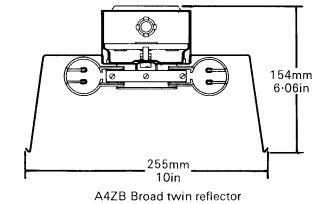


A4Z/4685

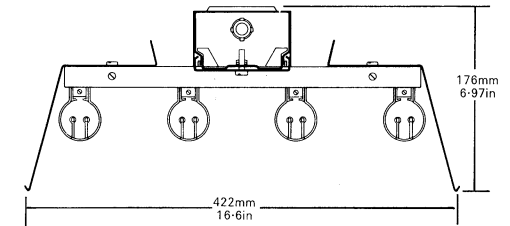
A wide version of the fitting shown on the previous page.

The A4ZB reflector fits on an A4B spine to give a broader light distribution.

A four-lamp version of the A4Z fitting is also available as shown. All fittings are for 240V 50Hz.



A4ZB Broad twin reflector



A4Z Four-tube reflector

### RANGE

Complete fitting				Components			Dimensions				Approx. weight	
Nominal tube length				1st Attachment	2nd Attachment	Batten	Overall length		Approx. weight		Approx. weight	
mm	ft	Rating	Circuit	Catalogue no.	Catalogue no.	Catalogue no.	mm	in	kg	lb	Approx. weight	
												(incl. tubes)
1500	5	2 x 65W	SRS	A4ZB/B265	A4ZB.25	—	A4.B265	1542	60.7	12.7	28	
1800	6	2 x 85W	SRS	A4ZB/B2685	A4ZB.26	—	A4.B2685	1805	71.1	13.7	30.2	
2400	8	2 x 85W	QS	A4ZB/B2885	A4ZB.28	—	A4.B2885	2416	95.1	20.7	45.6	
1800	6	4 x 85W	SRS	A4Z/4685	A4Z.46	—	A4.4685	1805	71.1	24.5	54	
2400	8	4 x 85W	QS	A4Z/Q4885	A4Z.48	—	A4.Q4885	2416	95.1	30.8	68	

# Atlantic Replacement Control Gear and Accessories

## Batten Accessories

Description	Catalogue no.
Lampholder	AMEB.1580/A4
Lampholder (broad twin)	AMEB.1580/A4T
Lampholder plate	
single	A4.4663
twin	A4.4664
broad twin	A4.4679
4-tube	A4.4665
Terminal block	AMET.1338
Fuse-holder	AMET.1334
Capacitor clip	AMEY.5288
End-cap	A4.4666
Cage screw	AC.5768
Cage nut	AC.5656
Slotted suspension washer	AC.4861
Besa cluster cap	A4.4674

## Attachment Accessories

Diffuser suspension bracket	
A4C, A4D attachments	A4.4667
Cover-plate (Unicap twin)	A4.4668
End-cap for A4GC, A4GD attachments	
single	A4.4669
twin	A4.4670
4-tube attachment suspension bracket	A4.4672
Diffuser suspension bracket	
A4E attachment	A4.4673
Cover-plate (A4L)	A4.4675
Linear Prism Panel (A4L)	A4.4676
5ft Broad cover-plate	A4.4690
6ft Broad cover-plate	A4.4691
8ft Broad cover-plate	A4.4692

## Joining Pieces Accessories

Description	Catalogue no.
Spacer for A4C, A4D diffusers	A4.4660
Spacer for closed-end reflectors and most attachments except A4C, A4D	A4.4661
Reflector jointing strap for A4Z (single/narrow twin)	A4.4662

## Aluminium Frames Accessories

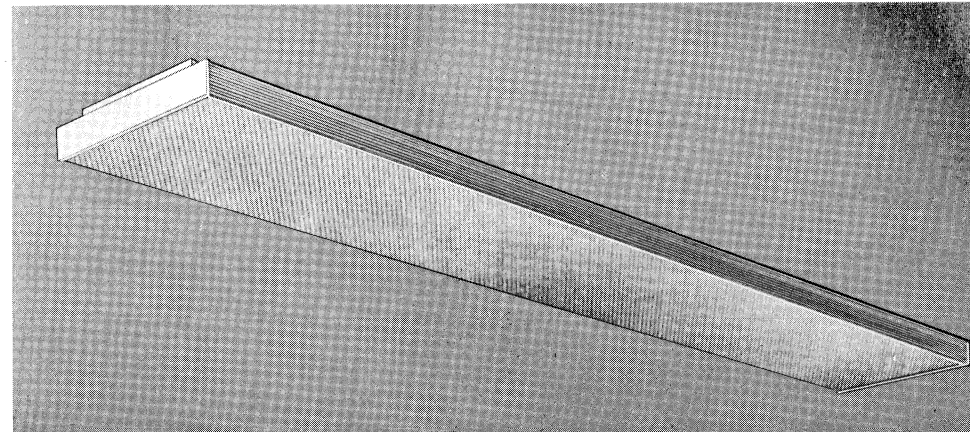
Description	Catalogue no.
Frame support clips (2-tube)	A4.4671
Attachment suspension bracket (4-tube)	A4.4672

## Replacement Control Gear

These items are chosen from the extensive range of control gear stocked in, and readily available from regional stores in the U.K. The reference numbers quoted differ from those marked on the control gear in the fitting, but the units are equally applicable to A4 fittings.

		Choke(s) or ballast(s)	Quickstart Units	Capacitor(s)	Fuse
40W 4ft	Single	1 × BU/40	—	1 × AMEC2273	1 × AMET1332
	Twin	2 × BU/40	—	1 × AMEC2273	1 × AMET1332
65W 5ft	Single	1 × BI/65	—	1 × AMEC2220	1 × AMET1342
	Twin	2 × BI/65	—	2 × AMEC2220	1 × AMET1342
	Broad twin		—	2 × AMEC2220	1 × AMET1342
85W 6ft	Single	1 × BI/685	—	1 × AMEC2220	1 × AMET1342
	Twin	2 × BI/685	—	2 × AMEC2220	1 × AMET1342
	Broad twin		—	2 × AMEC2220	1 × AMET1342
	4-tube	4 × BI/685	—	4 × AMEC2220	2 × AMET1342
85W 8ft	Single	1 × BQI/85	—	1 × AMEC2226	1 × AMET1299
	Twin	2 × BQI/85	—	2 × AMEC2226	1 × AMET1299
	Broad twin		—	2 × AMEC2226	1 × AMET1299
	4-tube	4 × BQI/85	—	4 × AMEC2226	2 × AMET1299
125W 8ft	Single	1 × CQI/125	1 × QS/125	1 × AMEC2228	1 × AMET1299
	Twin	2 × CQI/125	2 × QS/125	2 × AMEC2228	1 × AMET1299

# KSP London line fitting

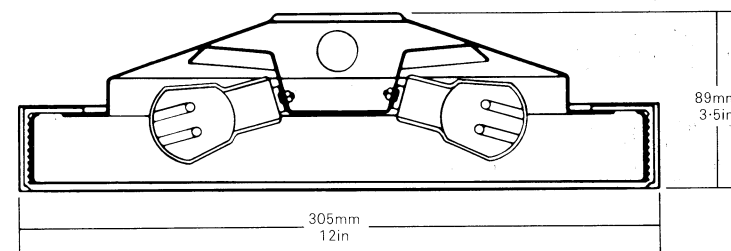


KSP/R2685

This 'Wafer Slim' fitting has a unique lightness and elegance of appearance. The complete ceiling mounted fitting projects only 89mm/3.5in from the ceiling which makes it ideal for modern low ceilings. These fittings provide a

high technical efficiency with a low glare index and also give rise to the impression of a panel of light due to the fact that from almost all normal angles of vision the batten is invisible.

All fittings are for 240V 50Hz. Details of fittings for other supplies are available on application.



## RANGE

Complete fitting				Components			Dimensions		Overall weight		Fixing centres		
Nominal length	No. of tubes	Circuit	Catalogue no.	Diffuser Catalogue no.	Batten Catalogue no.	mm	in	kg	lb	mm	in		
1800	6	85W	2	SRS	KSP/R2685	KSP 26	KS R2685	1829	72	12.7	28	610	24
2400	8	85W	2	QS	KSP/Q2085	KSP 28	KS Q2085	2438	96	15.3	33.9	1220	48

*This fitting is not suitable for chain suspension*



# Airlume and Special Fittings

There are many occasions when a ceiling design calls for special fittings as part of an integrated scheme. These may be recessed into the suspended ceiling and required to fulfil multiple functions such as heat recovery, air handling, etc. Air supply is usually achieved via side slots along the fitting bezel whilst air is extracted through the fitting via an open or louvered diffuser, or end slots where a closed diffuser is used. A wide range of fittings has been designed to meet these particular requirements and to have a low brightness appearance where high levels of illumination are planned. A variety of aluminium and injection moulded louvers or prismatic panels is available. The Technical Department of the Isora Division of Thorn Lighting is available to advise on applications and provide information generally on these products.

### Advantages of Airlume fittings

When airlume fittings are used to extract room air a large proportion of the heat produced by the lighting equipment is removed before it can enter the occupied space. This results in a reduction of the air conditioning load on the room which means less air volume is required for temperature control and the air can be passed through the system with a higher temperature rise than normal, resulting in increased efficiency of the airhandling system. As less air volume is required the ductwork sizes and plenum depths can be reduced, giving economies in construction. Because an airlume fitting can be used for both supply and return two types of services can use one distribution point in the ceiling, thus helping to create a neat and tidy appearance of the ceiling. In most recessed fittings the fluorescent tube is normally operating at a temperature above that of its optimum light output. If air is drawn through the fitting and around the lamps the tube wall is cooled to this optimum or very close to it, resulting in a greatly increased light output depending on the design and type of fitting used.

### Low Brightness and Airlume Fittings

These fittings have been designed to meet the demand for lighting units that can provide high levels of illumination without glare discomfort and to meet the growing demand for integrated air handling and heat from light units. It is possible that these fittings will not have the characteristics necessary to meet the needs of every design installation and in this event the Isora Division Technical Department, in conjunction with the Thorn Lighting designers, can undertake the development of fittings to suit specific requirements. All fittings can be supplied manufactured to Metric or Imperial modular dimensions on application.

### LBL F Fittings

Flush mounting recessed fittings with a highly efficient reflector louver assembly. All sizes of fitting can be supplied with air extract slots in the back panel. The four tube 608mm wide versions can also be supplied with

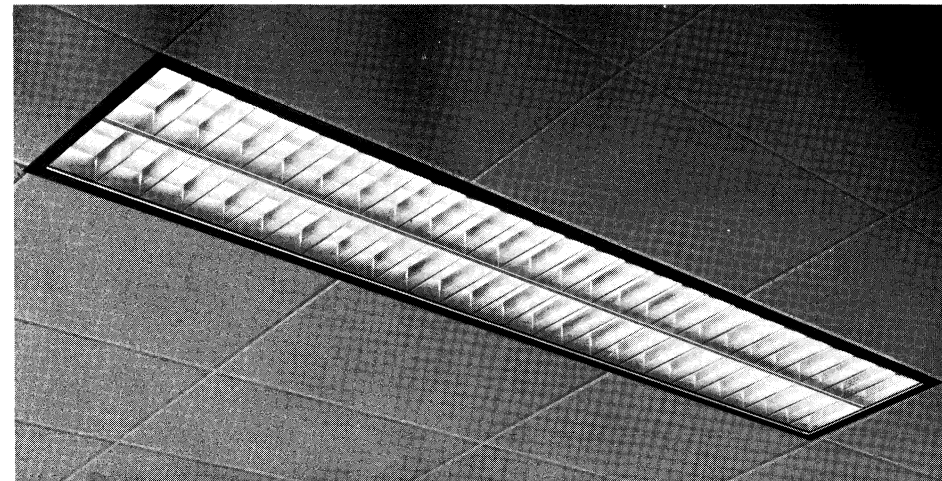
slotted trim face and mounting for air supply attachments. Construction of the optical systems, which is of one piece unit assembly per lampway, is from figured aluminium sheet and extruded aluminium baffles. The form and profile of these assemblies, which have a specular anodized finish, have been designed to provide the efficiency necessary for the levels of illumination required for modern interiors with the comfort of a well designed optical system. Housings are constructed in sheet metal which has stove enamelled finish. Suspension of these fittings is by means of holes provided, from the true ceiling or by means of side suspension arms (Catalogue no. LB 4601) supported from a suspended ceiling grid. These are available at extra cost on application. These fittings have been designed for concealed 'T' ceiling systems but before the ceiling design is complete consultation with Isora Division Technical Department would be advisable to ensure suitability of the fitting to the ceiling. The fittings are particularly suitable for continuous mounting and capping strip (Catalogue no. LB 4600) is available on request to ensure neatness of runs.

### AHP Fittings

Recessed mounting fittings with a dished prismatic controller designed and developed for heat recovery installations. This model of fitting is in service in installations where the sole source of heating for the premises is derived from the recirculated heat extracted from the lighting fittings. These fittings are equally suitable for use in installations as a purely extract fitting for the disposal of air from the room and to assist in dispersing heat from the fittings. Housings are constructed from sheet metal which has stove enamelled finish. Suspension is from holes provided in the back panel of the fittings.

*These fittings comply fully with BS.3820:1964 for Class 1 ordinary, indoor, normal atmospheres.*

# LB Recessed fittings



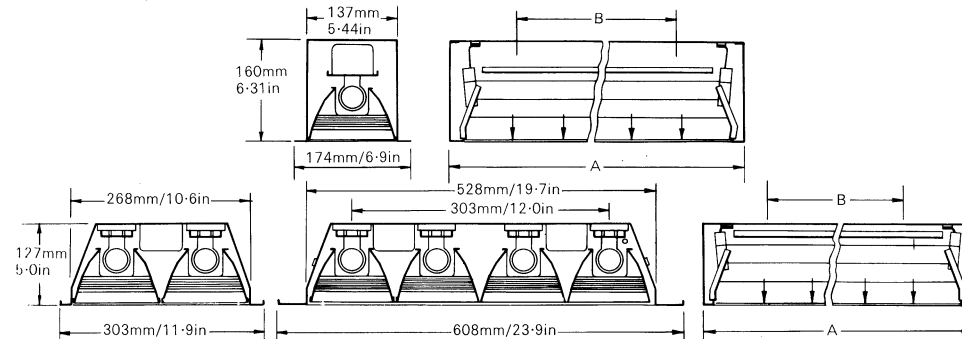
### LBL F Fittings

Flush mounting recessed fittings designed to provide high levels of illumination with effective glare control. All sizes can be supplied with slots pierced in the back plate for air extraction through the fitting. The four

tube 608mm wide versions can also be provided with slots in the trim face and fixing for air boots for the supply of air.

stove enamelled white. Other finishes can be provided on request. **Surface mounted fittings type LBLC are available to special order.**

The metalwork of these fittings is

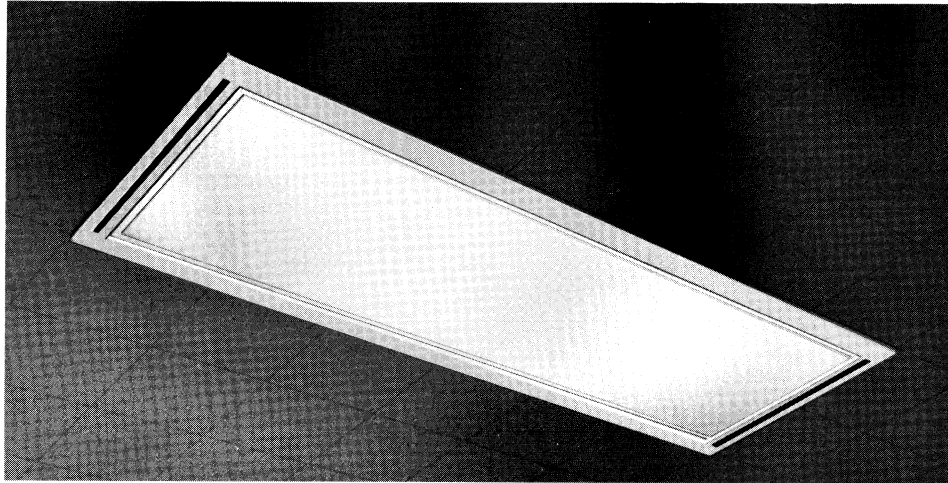


### Range and Dimensions

Catalogue no	Rating	No of Tubes	Circuit	Fitting size A		Minimum ceiling opening				Fixing centres B					
				Length mm	Width mm	Length mm	Width mm	Length mm	Width mm	Length mm	Width mm				
LBL F/Q1040	40W	One	QS	1217	174	47-9	6-9	1219	140	48	5-5	914	*CL	36	*CL
LBL F/Q2040	40W	Two	QS	1217	303	47-9	11-9	1219	305	48	12	914	*CL	36	*CL
LBL F/Q4040	40W	Four	QS	1217	608	47-9	23-9	1219	610	48	24	914	303	36	12
LBL F/R1685	85W	One	RS	1827	174	71-9	6-9	1829	140	72	5-5	1372	*CL	54	*CL
LBL F/R2685	85W	Two	RS	1827	303	71-9	11-9	1829	305	72	12	1372	*CL	54	*CL
LBL F/R4685	85W	Four	RS	1827	608	71-9	23-9	1829	610	72	24	1372	303	54	12
LBL F/Q1085	85W	One	QS	2436	174	95-9	6-9	2438	140	96	5-5	1372	*CL	54	*CL
LBL F/Q2085	85W	Two	QS	2436	303	95-9	11-9	2438	305	96	12	1372	*CL	54	*CL
LBL F/Q4085	85W	Four	QS	2436	608	95-9	23-9	2438	610	96	24	1372	303	54	12

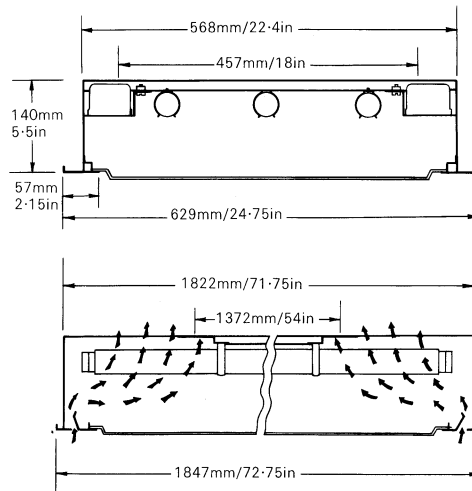
\* Centre line

All single, twin and four tube LBL F fittings are suitable for the extraction of air. The four tube versions, LBL F/Q4040, LBL F/R4685 and LBL F/Q4085, are also available for the supply of air. Add the following suffixes to the end of catalogue numbers when air handling facilities are required: E at end of catalogue reference denotes Extract fitting only; S denotes Supply fitting only; SE denotes Supply and Extract.



### AHP Fittings

Recessed fittings with a prismatic controller, designed for the extraction of air through slots at the ends of the fitting incorporating dust traps. The 1847mm long fitting shown can be manufactured to handle various volumes of air. Other sizes of fittings can be manufactured to meet specific requirements. The metalwork of these fittings is finished stove enamelled white.



### Range and Dimensions

Catalogue no	Rating	No of Tubes	Circuit	Fitting size		Ceiling opening				Fixing centres					
				Length mm	Width mm	Length mm	Width mm	Length mm	Width mm	Length mm	Width mm				
AHP/R2685	85W	Two	RS	1847	629	72.75	24.75	1829	610	72	24	1372	457	54	18
AHP/R3685	85W	Three	RS	1847	629	72.75	24.75	1829	610	72	24	1372	457	54	18
AHP/R4685	85W	Four	RS	1847	629	72.75	24.75	1829	610	72	24	1372	457	54	18

All the above fittings are available to special order, full price details available on request.

Based on information obtained from a survey of architects, the Format range combines reliability, strength and versatility with an elegant, visually pleasing appearance. Surface mounted (SM), frameless semi-recessed (FM) and trimmed recessed (TM) modules are available. The SMs are metric modular fittings and the two recessed types may be specially ordered to metric dimensions. A 'wishbone' attachment fixing has recently been introduced for the FM range and for the 3, 4, 5 and Q module sizes of the SM range. Wishbones provide a strong captive action suitable for almost all ceiling types including the exposed Tee grid system, and relamping becomes a one-man operation. In addition, all FM attachments are 'sonic welded'—completely fabricated without the use of adhesives. Sonic welded joints are strong and the material does not opalize or crack at the joints.

### Polrized Panels

Eye fatigue, lack of discrimination and loss of concentration all constitute a general lack of visual efficiency. Under conventional installations, many shiny surfaces such as desk tops, magazines, even pencil strokes act as fairly efficient mirrors. This phenomenon is known as 'reflected' or 'veiling' glare and results in a reduction of contrast between observed detail. Reflected glare is caused by the horizontal component of light which may be almost totally eliminated by passing it through a multi-layer polarizing material. \* Reflected glare is thus greatly reduced, producing a dramatic reduction in eye fatigue with low brightness comfort and greater contrast between observed detail—hence greater visual efficiency. Polrized panels are being incorporated in the base panels of most modules in the SM and FM ranges and may be distinguished by the letter 'A' in attachment catalogue numbers.

\*A fuller explanation of this phenomenon will be found in the Atlas Polrized leaflet.

### Amalgam Tubes

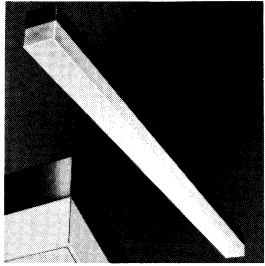
Amalgam tubes offer a significant increase in light output ratios when used with 1800mm/6ft Format fittings, particularly those of the SM range.

### Catalogue Nomenclature

- D—Opal diffuser
- O—Opal sides, prismatic base
- P—Prismatic controller
- A—Opal sides, polrized base
- W—Wishbone attachment fixing

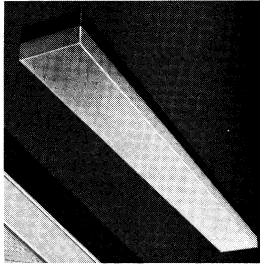
# Format 1SM and 2SM fittings

1SMD/1685



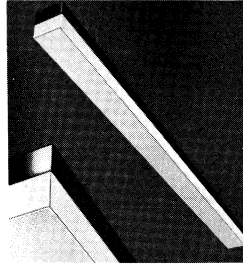
A surface-mounted fitting with black metal body and a choice of three plastic attachments. The sheet steel body is bonderized and stove enamelled semi-matt black outside and white inside, in a hard alkyd paint. Attachments seat against foam gaskets. Control gear and wiring are connected to a three-way fused

2SMP/2685



terminal block: cable entry is at the centre or at fixing centres, or by 20mm dia. knock-outs at the end of the fitting. Fittings should be ceiling mounted but can be suspended on 3/4 in conduits. If they are connected end-to-end for continuous mounting by means of a 3/4 in conduit coupler, a 3/4 in full conduit nut should be used as a spacer to leave room for

1SMO/1685



the expansion of attachments (see diagram). Ambient temperatures at fitting level should not exceed 25°C. All fittings are suitable for 240V 50Hz supplies. Fittings comply with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

1SMB 1040/1SMB 1685

Dimension A	Dimension B
mm in	mm in
610 24	— —
900 35.4	— —

2SMB 2685

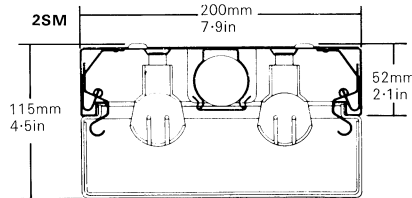
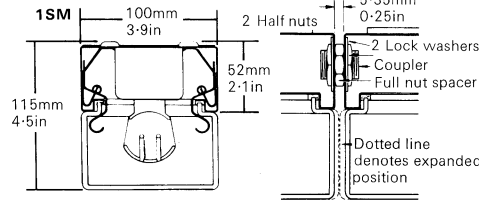
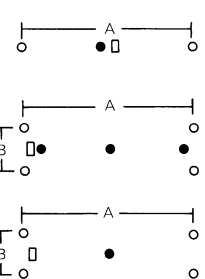
Dimension A	Dimension B
mm in	mm in
900 35.4	100 3.9

2SMB 2040

Dimension A	Dimension B
mm in	mm in
610 24	100 3.9

- Suspension and wiring entry
- Wiring entry only
- Terminal block

CABLE AND SUSPENSION HOLE ARRANGEMENT



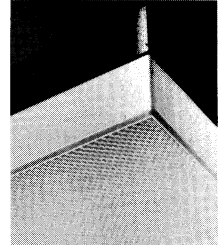
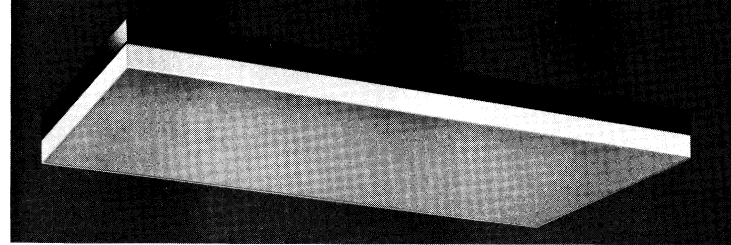
Diagrams are not to scale.

### Range

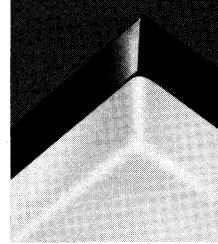
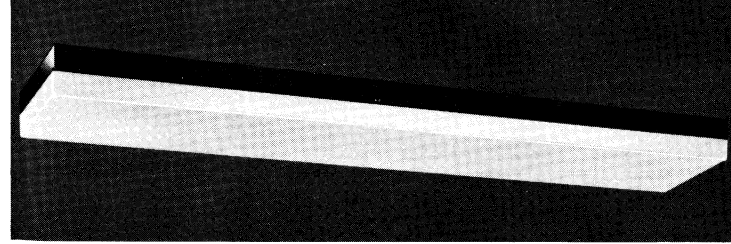
Complete fitting				Components			Dimensions		Approx. weight (incl. tubes)	
Nominal length	Rating	No. of tubes	Circuit	Diffuser Catalogue no.	Batten Catalogue no.	Length	mm	in	kg	lb
1200	4	40W	One	OS	1SMD/1040	1SMD 4	1SMB 1040	1300	51.2	5.1 11.2
1200	4	40W	One	OS	1SMO/1040	1SMO 4	1SMB 1040	1300	51.2	5.1 11.2
1200	4	40W	One	OS	1SMP/1040	1SMP 4	1SMB 1040	1300	51.2	5.1 11.2
1200	4	40W	One	OS	1SMA/1040	1SMA 4	1SMB 1040	1300	51.2	5.1 11.2
1800	6	85W	One	SRS	1SMD/1685	1SMD 6	1SMB 1685	1850	72.8	6.6 14.7
1800	6	85W	One	SRS	1SMO/1685	1SMO 6	1SMB 1685	1850	72.8	6.6 14.7
1800	6	85W	One	SRS	1SMP/1685	1SMP 6	1SMB 1685	1850	72.8	6.6 14.7
1800	6	85W	One	SRS	1SMA/1685	1SMA 6	1SMB 1685	1850	72.8	6.6 14.7
1200	4	40W	Two	OS	2SMD/2040	2SMD 4	2SMB 2040	1300	51.2	8.4 18.5
1200	4	40W	Two	OS	2SMO/2040	2SMO 4	2SMB 2040	1300	51.2	8.4 18.5
1200	4	40W	Two	OS	2SMP/2040	2SMP 4	2SMB 2040	1300	51.2	8.4 18.5
1200	4	40W	Two	OS	2SMA/2040	2SMA 4	2SMB 2040	1300	51.2	8.4 18.5
1800	6	85W	Two	SRS	2SMD/2685	2SMD 6	2SMB 2685	1850	72.8	10.9 24
1800	6	85W	Two	SRS	2SMO/2685	2SMO 6	2SMB 2685	1850	72.8	10.9 24
1800	6	85W	Two	SRS	2SMP/2685	2SMP 6	2SMB 2685	1850	72.8	10.9 24
1800	6	85W	Two	SRS	2SMA/2685	2SMA 6	2SMB 2685	1850	72.8	10.9 24

# Format 3SM and 4SM fittings

4SMWO/3685



3SMWD/2685



A wider, two or three lamp version of the 1SM and 2SM fittings with wishbone attachment fixing. The sheet steel body is bonderized and stove enamelled semi-matt black outside and white inside. Cable entry is by 20mm/25/32in dia. hole (for which a plastic grommet is provided) as shown in the diagrams below.

Fittings should be ceiling mounted but can be suspended on conduits: for diagram of end to end connection see page 1:66. Ambient temperatures at fitting level should not exceed 25°C. All fittings are suitable for 240V 50Hz supplies. All fittings comply with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.

3SMWB 2685

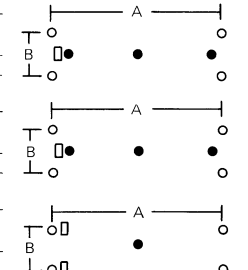
Dimension A	Dimension B
mm in	mm in
900 35.4	100 3.9

4SMWB 3685

Dimension A	Dimension B
mm in	mm in
900 35.4	200 7.9

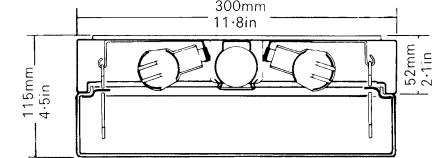
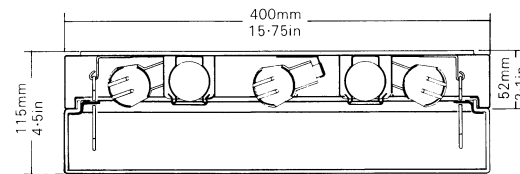
4SMWB 3040

Dimension A	Dimension B
mm in	mm in
610 24	200 7.9



CABLE AND SUSPENSION HOLE ARRANGEMENT

- Suspension and wiring entry
- Wiring entry only
- Terminal block



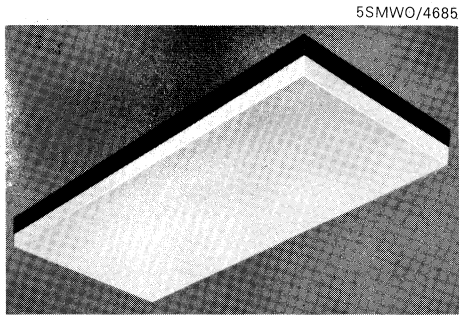
Diagrams are not to scale

### Range

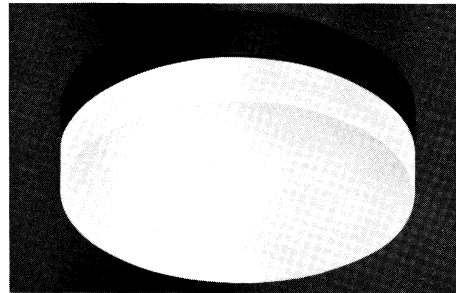
Complete fitting				Components			Dimensions		Approx. weight (incl. tubes)	
Nominal length	Rating	No. of tubes	Circuit	Diffuser Catalogue no.	Batten Catalogue no.	Length	mm	in	kg	lb
1800	6	85W	Two	SRS	3SMWD/2685	3SMWD 6	3SMWB 2685	1850	72.8	13.4 29.5
1800	6	85W	Two	SRS	3SMWO/2685	3SMWO 6	3SMWB 2685	1850	72.8	13.4 29.5
1800	6	85W	Two	SRS	3SMWA/2685	3SMWA 6	3SMWB 2685	1850	72.8	13.4 29.5
1200	4	40W	Three	OS	4SMWD/3040	4SMWD 4	4SMWB 3040	1300	51.2	13.7 30.2
1800	6	85W	Three	SRS	4SMWD/3685	4SMWD 6	4SMWB 3685	1850	72.8	17.9 39.5
1800	6	85W	Three	SRS	4SMWO/3685	4SMWO 6	4SMWB 3685	1850	72.8	17.9 39.5
1800	6	85W	Three	SRS	4SMWA/3685	4SMWA 6	4SMWB 3685	1850	72.8	17.9 39.5

# Format 5SM, QSM and OSM fittings

# Format 1FM fittings



5SMWO/4685

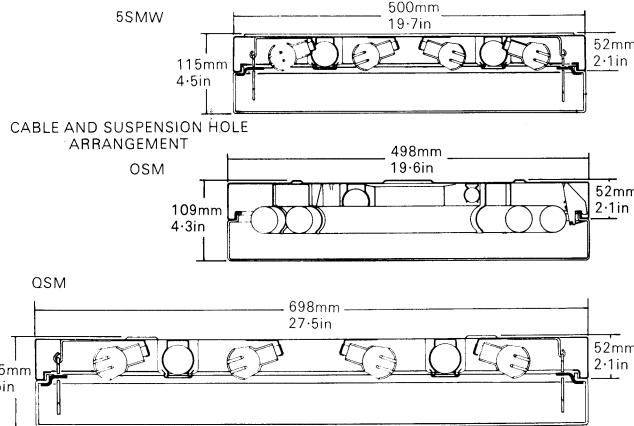


OSMD 3240

Wider versions of the two previous fittings for use on modular ceilings, and a circular fitting of matching design. Details of the rectangular fittings are shown on pages 1:66 and 67. The circular fitting is supplied in switch start only and the cable entry and conduit suspension slots are centrally placed. For details of continuous mounting see page 1:66. The cable entry of the square fitting is offset on the centre-line by 203mm/8in.

The circular fitting is designed for ceiling and wall mounting only. The circular fitting only is supplied complete with 32W and 40W Warm White tubes. Ambient temperatures at fitting level should not exceed 25°C. All fittings are suitable for 240V 50Hz.

All fittings comply with BS.3820:1964 for Class 1, ordinary indoor, normal atmospheres.

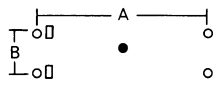


○ Suspension and wiring entry □ Terminal block  
● Wiring entry only ⊙ 19.8mm conduit box entry 2in PCD

Diagrams are not to scale

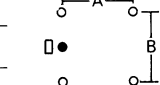
### 5SMWB 4040

Dimension A	Dimension B
mm in	mm in
610 24	200 7.9



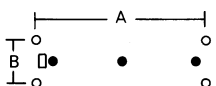
### QSMWB 4020

Dimension A	Dimension B
mm in	mm in
406 16	406 16



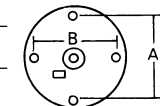
### 5SMWB 4685

Dimension A	Dimension B
mm in	mm in
900 35.4	200 7.9



### OSMD 3240

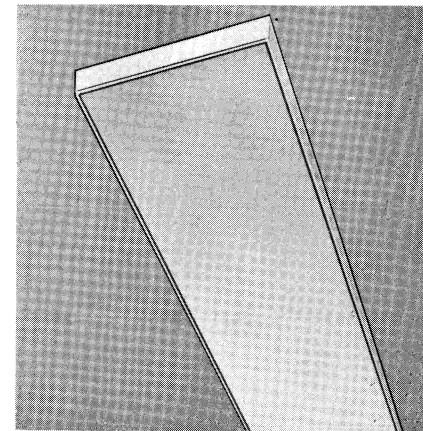
4.8mm/3/8in dia. on 305mm/12in PCD
------------------------------------



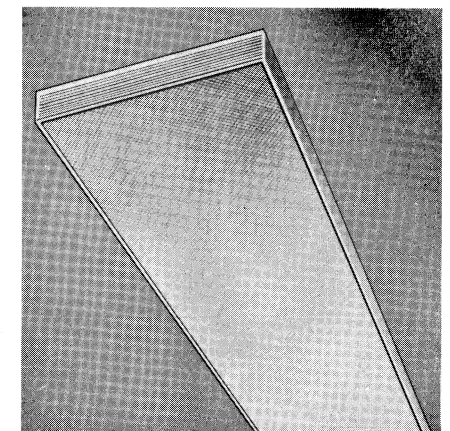
### Range

Complete fitting				Components			Dimensions		Approx. weight (incl. tubes)
Nominal length	Rating	No. of tubes	Circuit	Diffuser Catalogue no.	Batten Catalogue no.	Length		kg	
1200 4	40W	Four	QS	5SMWD/4040	5SMWB 4040	1300	51.2	17.9	39.5
1200 4	40W	Four	QS	5SMWO/4040	5SMWB 4040	1300	51.2	17.9	39.5
1200 4	40W	Four	QS	5SMWA/4040	5SMWA 4040	1300	51.2	17.9	39.5
1800 6	85W	Four	SRS	5SMWD/4685	5SMWB 4685	1850	72.8	23.3	51.4
1800 6	85W	Four	SRS	5SMWO/4685	5SMWB 4685	1850	72.8	23.3	51.4
1800 6	85W	Four	SRS	5SMWA/4685	5SMWA 4685	1850	72.8	23.3	51.4
600 2	20W	Four	QS	QSMWD/4020	QSMWB 4020	698	27.5	13.3	29.3
600 2	20W	Four	QS	QSMWO/4020	QSMWB 4020	698	27.5	13.3	29.3
Circ.	32W +40W	Two	SRS	OSMD 3240*	OSMD B 3240	498	19.6	7.2	15.8

\*Fitting packed complete



IFMD/1685

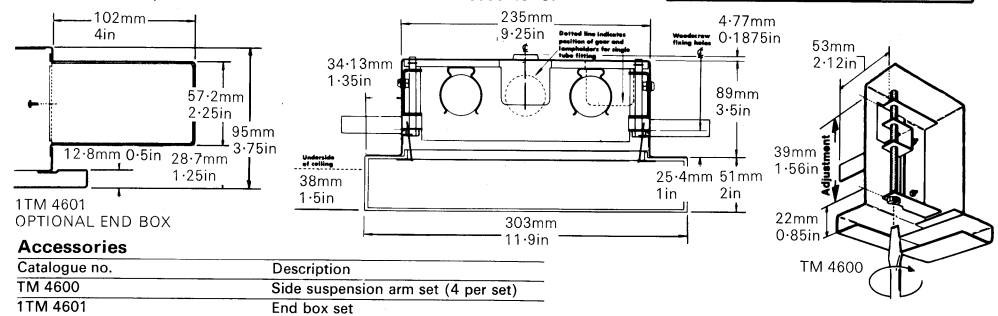


IFMP/1685

A recessed modular fitting, in which the metalwork is completely concealed by the diffuser. An opal diffusing dish or clear prismatic controller is held to the metal frame by wishbone springs. The control gear is prewired and fixed to the inside of the fitting; tubes are supported by spring clips and have push-on lampholders. A 76mm/3in clear void must be left at one end of the fitting to allow for the protrusion of the tubes. An end box assembly is available.

Three standard methods of suspension are available, by 3/4in conduit at the fixing centres shown, by side suspension arms or by wood screws through the sides of the fitting. The FM range is based on British modular dimensions. Fittings to metric modular dimensions of 300mm x 1200mm and 1800mm can be supplied on application. Ambient temperature at fitting level should not exceed 25°C.

All fittings are suitable for 240V 50Hz. All fittings comply with BS.3820:1964 for Class 1, ordinary, indoor, normal atmospheres.



1TM 4601  
OPTIONAL END BOX

### Accessories

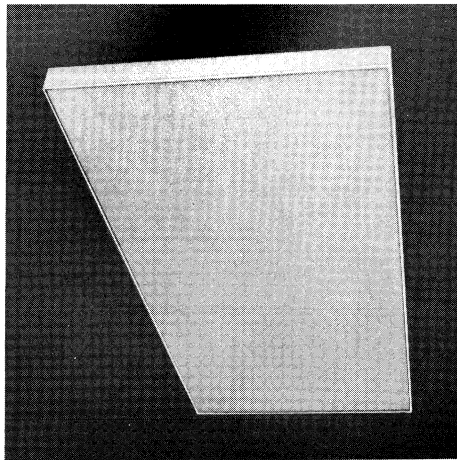
Catalogue no.	Description
TM 4600	Side suspension arm set (4 per set)
1TM 4601	End box set

### Range

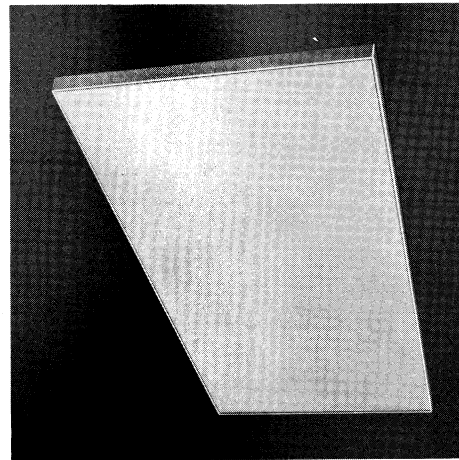
Complete fitting				Components			Dimensions		Approx. weight (incl. tubes)	Fixing centres* length Dimension C		
Nominal length	Rating	No. of tubes	Circuit	Diffuser Catalogue no.	Housing Catalogue no.	Length	Dimension A	kg			lb	
1200 4	40W	One	QS	1FMWD/1040	1FMWD 4	1FMWB 1040	1217	47.9	9.4	20.7	914	36
1200 4	40W	One	QS	1FMWA/1040	1FMWA 4	1FMWB 1040	1217	47.9	9.4	20.7	914	36
1200 4	40W	Two	QS	1FMWD/2040	1FMWD 4	1FMWB 2040	1217	47.9	11.7	25.4	914	36
1200 4	40W	Two	QS	1FMWA/2040	1FMWA 4	1FMWB 2040	1217	47.9	11.7	25.4	914	36
1800 6	85W	One	SRS	1FMWD/1685	1FMWD 6	1FMWB 1685	1827	71.9	15.8	34.8	1372	54
1800 6	85W	One	SRS	1FMWA/1685	1FMWA 6	1FMWB 1685	1827	71.9	15.8	34.8	1372	54
1800 6	85W	Two	SRS	1FMWD/2685	1FMWD 6	1FMWB 2685	1827	71.9	18.7	41.9	1372	54
1800 6	85W	Two	SRS	1FMWA/2685	1FMWA 6	1FMWB 2685	1827	71.9	18.7	41.9	1372	54

\*Fixing centres are on centre-line of fitting

# Format 2FM fittings



2FMWP/4040



SMWD/4040

A recessed modular fitting, designed for use in a wide range of suspended ceilings, including exposed Tee grid, having no visible metalwork when installed, with either an opal diffusing dish, clear prismatic controller or polarized attachment. Sizes to meet panel layouts of 2ft x 2ft, 4ft, 6ft and 8ft are available. Control gear is prewired and fixed to gear trays which are simply hooked into the housing and hinged into position to facilitate servicing from below. Trays may be completely removed for workshop servicing away from the fitting.

The diffuser or controller attachments are offered straight up to the housing and are securely held by wishbone springs.

Four standard methods of suspension have been allowed for:

- Normal  $\frac{3}{4}$ in diameter conduit through  $\frac{3}{4}$ in diameter holes;
- Side suspension arms (TM 4600) onto the suspended ceiling structure (this method allows the suspended ceiling to be fully installed before the lighting; the arms are fully adjustable for levelling of the fitting relative to the ceiling);
- Adjustable suspension (KL 4601) for use where a top fixing is required but conduit is not suitable;
- Side suspension by wood screws into wooden battens located each side of the fitting.

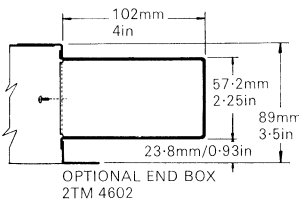
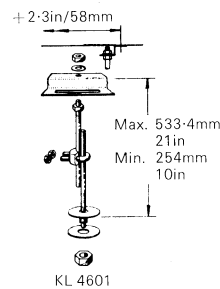
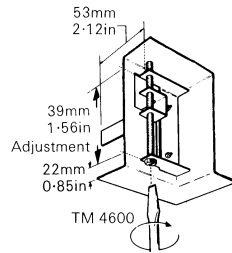
Housings are constructed in sheet steel which is bonderized and stove enamelled white with a hard alkyd paint. Diffusers are fabricated from opal extruded sections and controllers from clear prismatic sections. Tubes just project through the ends of the fitting and allowance must be made during installation for up to 76mm/3in clear void space at one end of the fitting to allow for tube replacement. End box assemblies for closing the openings in the ends of the housing are available as optional extras.

All control gear is of the switchless start type, wired back to a three-way fused terminal block for incoming mains connections. Tubes are held by clip-in spring clips and lampholders are of the shrouded bi-pin push-on pattern.

The FM range is based on British modular dimensions but can be supplied on application to metric modular dimensions of 600mm x 600mm, 1200mm, 1800mm and 2400mm.

Ambient temperature of fitting level should not exceed 25°C. It is suggested that advice be sought from the nearest Thorn office on the use of these fittings.

All fittings are suitable for 240V 50Hz. All fittings comply with BS.3820:1964 for Class 1 ordinary, indoor, normal atmospheres.



# Format 2FM fittings

Information given in these tables is for the 'D' (Diffuser) version. The 'P' (Prismatic) and 'A' (Polized) versions are identical and data is obtained by substituting 'P' and 'A' for 'D' in the catalogue numbers. *Note:* Polized attachments are not made in the 8ft size.

## Range

Complete fitting		Components						
Nominal length		No. of tubes		Circuit	Catalogue no.	Diffuser Catalogue no.	Gear tray Catalogue no.	Housing Catalogue no.
mm	ft	Rating						
600	2	20W	Two	QS	2FMWD/2020	2FMWD 2	2TM 2020	2FMWB 2
600	2	20W	Four	QS	2FMWD/4020	2FMWD 2	2TM 4020†	2FMWB 2
1200	4	40W	Two	QS	2FMWD/2040	2FMWD 4	2TM 2040	2FMWB 4
1200	4	40W	Three	QS	2FMWD/3040	2FMWD 4	2TM 3040*	2FMWB 4
1200	4	40W	Four	QS	2FMWD/4040	2FMWD 4	2TM 4040††	2FMWB 4
1800	6	85W	Two	SRS	2FMWD/2685	2FMWD 6	2TM 2685	2FMWB 6
1800	6	85W	Three	SRS	2FMWD/3685	2FMWD 6	2TM 3685**	2FMWB 6
1800	6	85W	Four	SRS	2FMWD/4685	2FMWD 6	2TM 4685†††	2FMWB 6
2400	8	85W	Two	QS	2FMWD/2085	2FMWD 8‡	2TM 2085	2FMWB 8
2400	8	85W	Three	QS	2FMWD/3085	2FMWD 8‡	2TM 3085***	2FMWB 8
2400	8	85W	Four	QS	2FMWD/4085	2FMWD 8‡	2TM 4085††††	2FMWB 8

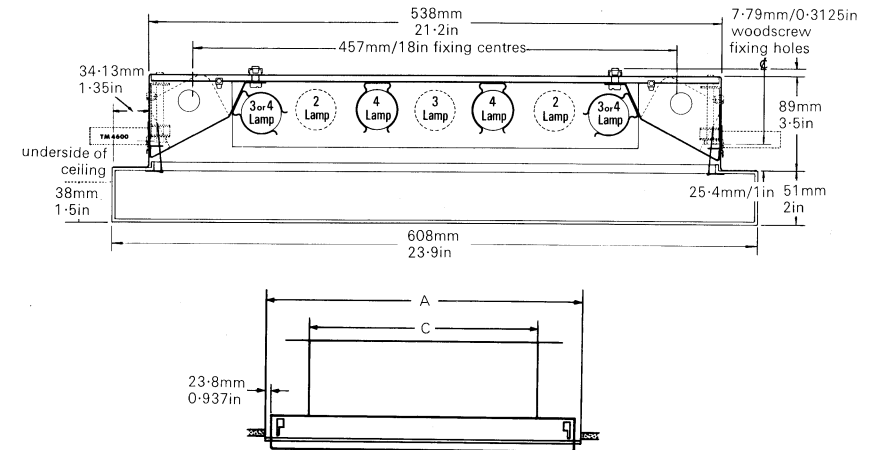
\*2TM 3040=2TM 1040+2TM 2040 \*\*2TM 3685=2TM 1685+2TM 2685 \*\*\*2TM 3085=2TM 1085+2TM 2085  
 †2TM 4020=2x 2TM 2020 ††2TM 4040=2x 2TM 2040 †††2TM 4685=2x 2TM 2685 ††††2TM 4085=2x 2TM 2085  
 ‡2FMWD 8=2x 2FMWD 4

## Dimensions

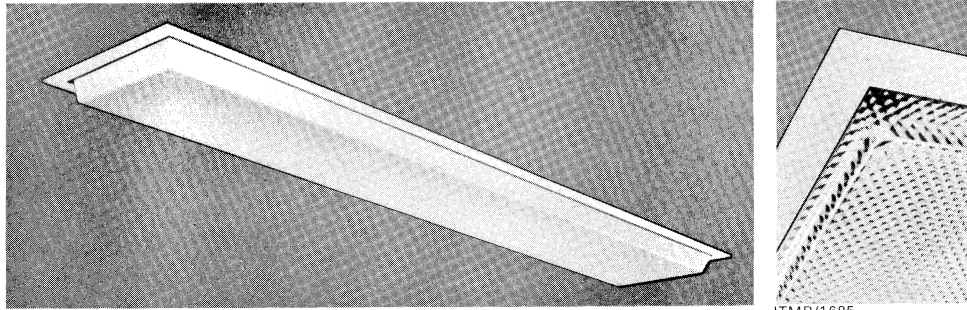
Catalogue no.	Length Dimension A		Approx. weight (incl. tubes)		Fixing centres length Dimension C	
	mm	in	kg	lb	mm	in
2FMWD/2020	608	23.9	9.5	20.9	457	18
2FMWD/4020	608	23.9	12.5	27.6	457	18
2FMWD/2040	1217	47.9	16.9	37.3	914	36
2FMWD/3040	1217	47.9	19	41.9	914	36
2FMWD/4040	1217	47.9	21.2	46.8	914	36
2FMWD/2685	1827	71.9	27.1	59.8	1372	54
2FMWD/3685	1827	71.9	30.3	66.8	1372	54
2FMWD/4685	1827	71.9	34.5	76.1	1372	54
2FMWD/2085	2436	95.9	41.2	90.8	1372	54
2FMWD/3085	2436	95.9	45.4	100	1372	54
2FMWD/4085	2436	95.9	50.7	111.8	1372	54

## Accessories

Catalogue no.	Description
KL 4601	Adjustable suspension set (4 per set)
TM 4600	Side suspension arm set (4 per set)
2TM 4602	End box set



# Format 1TM fittings



**ITMD/1685**  
A recessed modular fitting with white opal or prismatic lay-in controller panels retained in position by concealed springs and stops. The body and trim are constructed of sheet steel, bonderized and stove enamelled with a hard white alkyd paint. Fittings may be suspended (1) by 3/4in conduit from the structural ceiling;

(2) by side suspension arms;  
(3) by wood screws through the sides of the housing.

A 76mm/3in clear void must be left at one end of the fitting to allow for the protrusion of the tubes. Box assemblies are available to close the opening. The TM range is based on British modular dimensions, but can be

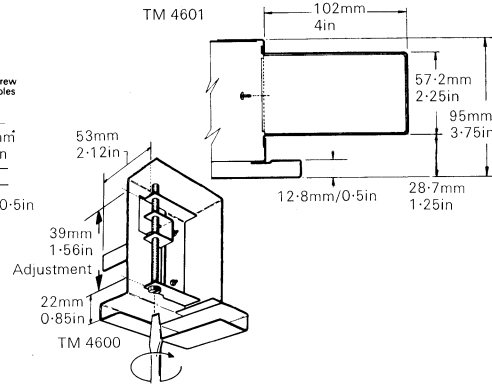
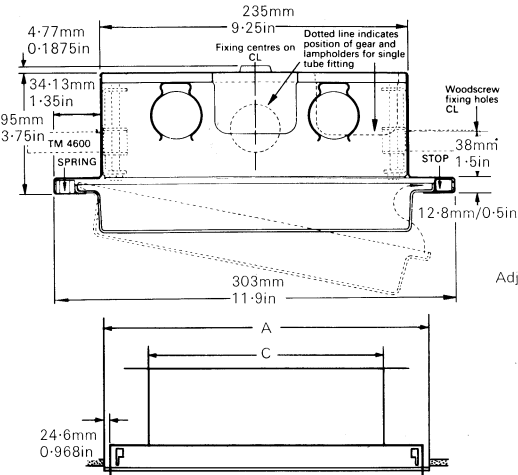
supplied on application to metric modular body dimensions of 300mm x 1200mm, 1800mm or 2400mm. Ambient temperatures at fitting level should not exceed 25°C. All fittings are suitable for 240V 50Hz. 1964 for Class 1 ordinary, indoor, normal atmospheres.

Information given in this table is for the 'D' (Diffuser) version. The 'P' (Prismatic) version is identical and data is obtained by substituting 'P' for 'D' in the catalogue numbers.

## Range

Complete fitting			Components		Dimensions								
Nominal length	Rating	No. of tubes	Circuit	Catalogue no.	Diffuser Catalogue no.	Housing Catalogue no.	Length	Approx. weight	Fixing centres*				
mm	ft						mm	(incl. tubes)	length				
							in	kg	Dimension C				
								lb	mm				
									in				
1200	4	40W	One	QS	1TMD/1040	1TMD 4	1217	47.9	9.4	20.7	914	36	
1200	4	40W	Two	QS	1TMD/2040	1TMD 4	1217	47.9	11.5	25.4	914	36	
1800	6	85W	One	SRS	1TMD/1685	1TMD 6	1TMB 1685	1827	71.9	15.8	34.8	1372	54
1800	6	85W	Two	SRS	1TMD/2685	1TMD 6	1TMB 2685	1827	71.9	19.0	41.9	1372	54
2400	8	85W	One	QS	1TMD/1085	1TMD 8	1TMB 1085	2436	95.9	24.2	53.4	1372	54
2400	8	85W	Two	QS	1TMD/2085	1TMD 8	1TMB 2085	2436	95.9	28.4	62.6	1372	54

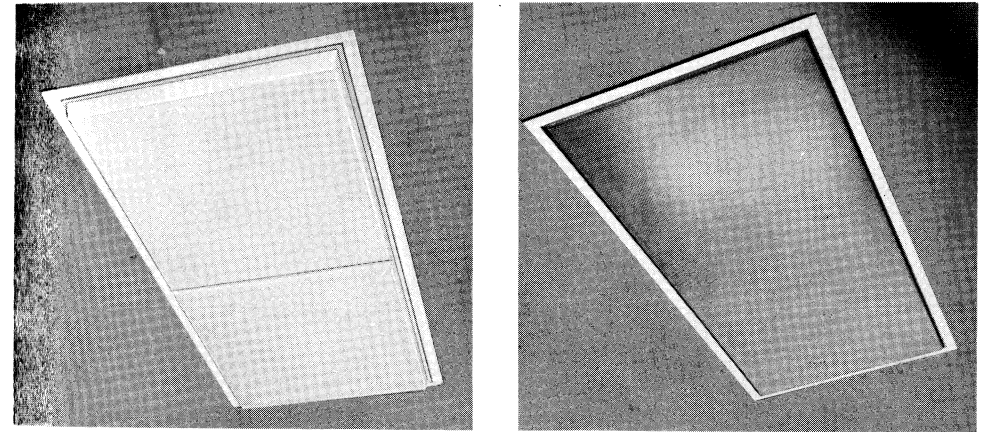
\*Fixing centres on centre-line of fitting



### Accessories

Catalogue no.	Description
TM 4600	Side suspension arm set (4 per set)
1TM 4601	End box set

# Format 2TM fittings



21MD/4040

2TMP/4040

A recessed modular fitting, having a slender, visible metal trim surrounding either an opal diffusing dish or a clear prismatic controller. Sizes to meet panel layouts of 2ft - 2ft, 4ft, 6ft and 8ft are available. The control gear is prewired and fixed to gear trays which are hooked into the housing and hinged into position to facilitate servicing from below the unit.

The trays may be completely removed for workshop servicing away from the fitting.

The diffuser or controller attachments are inserted into the trim, centralized, and retained by concealed springs and buffers. There are four standard methods of suspension:

- Normal 3/4in diameter conduit through 3/4in diameter holes;
- Side suspension arms onto the suspended ceiling structure (this method allows the suspended ceiling to be fully installed before the lighting; the arms are fully adjustable for levelling of the fitting relative to the ceiling);
- Adjustable suspension for use where a top fixing is required but conduit is not suitable;
- Side suspension by wood screws into wooden battens located each side of the fitting.

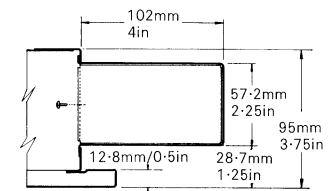
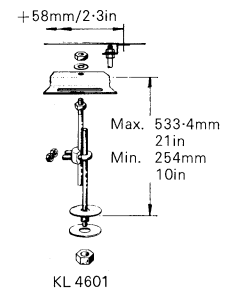
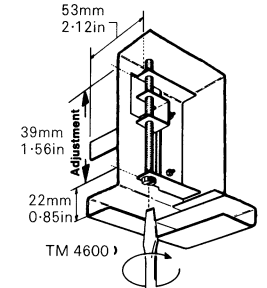
Housings are constructed in sheet steel which is bonderized and stove enamelled white with a hard alkyd paint. Diffusers are moulded from opal sheet and controllers from clear sheet. The 2ft x 8ft diffusers and controllers are each supplied in two half panels.

Tubes just project through the ends of the fitting to allow for tube replacement. End box assemblies for closing the openings in the ends of the housing are available as optional extras. All control gear is wired back to a three-way fused terminal block for incoming mains connections. Tubes are held by clip-in spring clips and lampholders are of the shrouded bi-pin push-on pattern.

The TM range is based on British modular dimensions but can be supplied on application to metric modular dimensions of 600mm x 600mm, 1200mm, 1800mm or 2400mm.

Ambient temperature at fitting level should not exceed 25°C. It is suggested that advice be sought from the nearest Thorn office on the use of these fittings.

All fittings are suitable for 240V 50Hz. All fittings comply with BS.3820: 1964 for Class 1 ordinary, indoor, normal atmospheres.

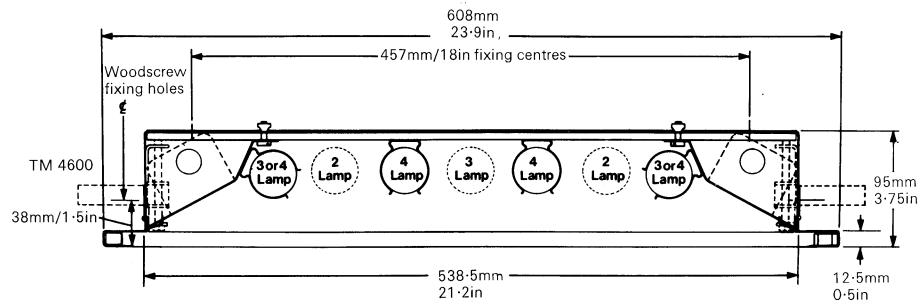
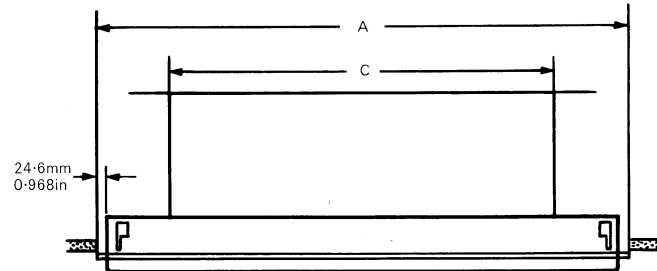


# Format 2TM fittings

Information given in these tables is for the 'D' (Diffuser) version. The 'P' (Prismatic) version is identical and data is obtained by substituting 'P' for 'D' in the catalogue numbers.

Range		Complete fitting		Components			Dimensions			
Nominal length	Rating	No. of tubes	Circuit	Diffuser Catalogue no.	Gear tray Catalogue no.	Housing Catalogue no.	Length	Approx. weight	Fixing centres	
mm	ft						mm	(incl. tubes)	Dimension C	
							in	kg	mm	
								lb	in	
600	2	20W	Two QS	2TMD/2020	2TMD2	2TM 2020	2TMB 2	608 23.9	9.5 20.9	457 18
600	2	20W	Four QS	2TMD/4020	2TMD 2	2TM 4020†	2TMB 2	608 23.9	12.5 27.6	457 18
1200	4	40W	Two QS	2TMD/2040	2TMD 4	2TM 2040	2TMB 4	1217 47.9	16.9 37.3	914 36
1200	4	40W	Three QS	2TMD/3040	2TMD 4	2TM 3040*	2TMB 4	1217 47.9	19 41.9	914 36
1200	4	40W	Four QS	2TMD/4040	2TMD 4	2TM 4040††	2TMB 4	1217 47.9	21.2 46.8	914 36
1800	6	85W	Two SRS	2TMD/2685	2TMD 6	2TM 2685	2TMB 6	1827 71.9	27.1 59.8	1372 54
1800	6	85W	Three SRS	2TMD/3685	2TMD 6	2TM 3685**	2TMB 6	1827 71.9	30.3 66.8	1372 54
1800	6	85W	Four SRS	2TMD/4685	2TMD 6	2TM 4685†††	2TMB 6	1827 71.9	34.5 76.1	1372 54
2400	8	85W	Two QS	2TMD/2085	2TMD 8	2TM 2085	2TMB 8	2436 95.9	41.2 90.8	1372 54
2400	8	85W	Three QS	2TMD/3085	2TMD 8	2TM 3085***	2TMB 8	2436 95.9	45.4 100	1372 54
2400	8	85W	Four QS	2TMD/4085	2TMD 8	2TM 4085††††	2TMB 8	2436 95.9	50.7 111.8	1372 54

\*2TM 3040=2TM 1040+2TM2040    \*\*2TM 3685=2TM 1685+2TM2685    \*\*\*2TM 3085=2TM 1085+2TM 2085  
 †2TM 4020=2x 2TM 2020    ††2TM 4040=2x 2TM 2040    †††2TM 4685=2x 2TM 2685    ††††2TM 4085=2x 2TM 2085



Accessories	
Catalogue no.	Description
KL 4601	Adjustable suspension set (4 per set)
TM 4600	Side suspension arm set (4 per set)
2TM 4602	End box set

# Format accessories

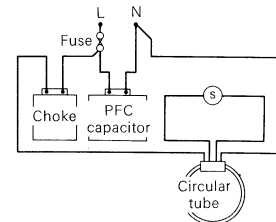
## Accessories

Accessory	SM Accessory Catalogue no. (excluding OSMD 3240)	OSMD 3240 Accessory Catalogue no.	FM Accessory Catalogue no.	TM Accessory Catalogue no.
Lampholder	AME B1548/K	AME B1535	AME B1573	AME B1573
Fused terminal block	AME T1265	AME T1265	AME T1265	AME T1265
Terminal block	—	—	AME T1281/1	AME T1281/1
Fuse	2ft 20W- AME T1299 4ft 40W- AME T1299 6ft 85W- AME T1342	4ft 40W- AME T1299	2ft 20W- AME T1299 4ft 40W- AME T1299 6ft 85W- AME T1342 8ft 85W- AME T1299	2ft 20W- AME T1299 4ft 40W- AME T1299 6ft 85W- AME T1342 8ft 85W- AME T1299
Capacitor clip	AME Y5244	AME Y5244	AME Y5244	AME Y5244
Capacitor safety clip	AME Y5245	AME Y5245	AME Y5245	AME Y5245
Starterswitch clip	—	AME Y5274	—	—
Loop starter socket	—	AME M6064/12	—	—
Cable cleat	AC 5363	AC 5363	AC 5363	AC 5363
Lamp clip	—	AME Y5294	AME Y5213	AME Y5213
Wiring grommet	AC 5297	AC 5297	AC 5297	AC 5297
Blind grommet	AC 5402	—	—	—
Gasket for sides/mm length	SM 4600/-	—	—	—
Gasket for end/mm length	SM 4601/-	—	—	—
Cage nut	—	—	AC 4377	AC 4377
Cage nut screw	—	—	AC 4445	AC 4445
Gear tray blanking grommet	—	—	AC 5576	AC 5576
TM diffuser stop and spring	—	—	—	TM 4603
Side suspension arm set	—	—	TM 4600	TM 4600
End box assembly 1ft wide	—	—	1TM 4601	1TM 4601
End box assembly 2ft wide	—	—	2TM 4602	2TM 4602
Adjustable suspension set	Not for use with 1FM or 1TM	—	KL 4601	KL 4601

## Replacement control gear

These items are selected from the extensive range of control gear stocked for ready availability. The reference numbers quoted will be different from those marked on the control gear in the fitting, but the units are equally applicable to Format fittings.

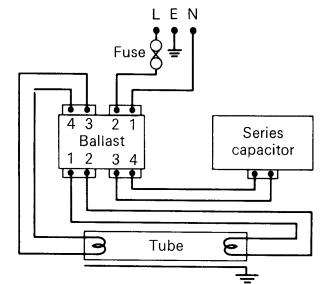
		QS Unit	Choke(s) or Ballast	Capacitor(s)	Starter Switch
85W 8ft	Single tube circuit	—	1-B1/85	1-AME C2226	—
	Twin tube circuit	—	2-B1/85	2-AME C2226	—
85W 6ft	Single tube circuit	—	1-BU/685	1-AME C2220	—
	Twin tube circuit	—	2-BU/685	2-AME C2220	—
40W 4ft	Single tube circuit	1-QS/40	1-CU/40	1-AME C2224	—
	Twin tube circuit	2-QS/40	2-CU/40	1-AME C2222	—
20W 2ft	Twin tube circuit	1-QS/220	1-CU/40	1-AME C2224	—
OSMD 3240					
40W Circular	Single tube circuit	—	1-CU/40	AME C2222	155/400
32W Circular	Single tube circuit	—	1-CU/30	—	155/400



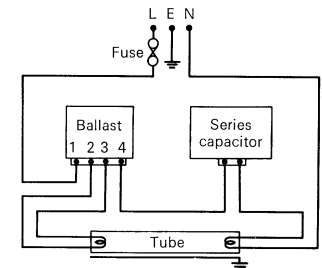
Starter switch (SS) circuit with PFC capacitor for 40W or 32W

Twin tube Quickstart (QS) circuit with PFC capacitor for 2ft 20W

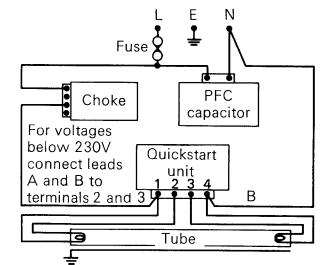
## 230/240V 50Hz circuit diagrams



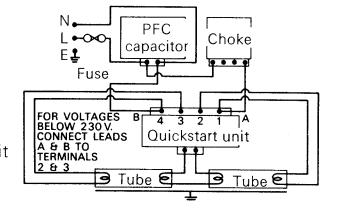
Single 8ft 85W Quickstart (QS) circuit, combined choke and transformer with essential series capacitor



Semi-resonant start (SRS) circuit for 6ft 85W with essential circuit capacitor

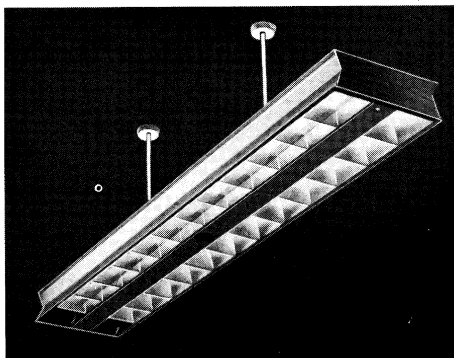


Tapped quickstart (QS) transformer circuit with PFC capacitor for 4ft 40W



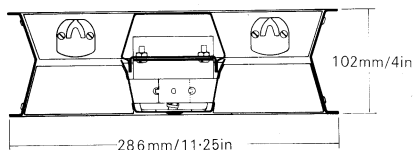
## OF fittings

This fitting has been designed for various applications and is equally suitable for use in hospital wards or without the centrally mounted night light in commercial applications. Hospital lighting is a specialised subject and generally requires special consideration for each particular project. Thorn Lighting have designed and manufactured a considerable number of "special" fittings for various hospital installations. Further information and prices for all these fittings can be obtained on application to your local Thorn Lighting office.



OFL/Q2065

Construction of the main spine, containing the Quickstart control gear, is in steel. The main reflector, attached to the underside of the spine is in satin etched and anodised aluminium, and incorporates steel baffles, painted BS.8-089 colour, the assembly being easily removable for cleaning. The side reflectors are also satin etched and anodised aluminium. If required, the reflector is available without cross baffles. Particular attention has been paid to minimising projections on all surfaces, in order that in situ cleaning can be easily and thoroughly carried out and horizontal surfaces have also been reduced to a minimum. The two fluorescent tubes can be simply removed without disturbing any part of the fitting. A centrally arranged night lighting fitting is incorporated into the spine projecting through the main reflector, and screening for the 25w night light is provided by a stove enamelled cylinder.



### RANGE AND DIMENSIONS

Nominal Length	Rating	Circuit	Cat. No.	Length mm.	ins	Fixing centres mm	ins
5ft	65W Twin	Resonant Start	OFLQ2065	1567	61.75	610	24

## Isora Division products

### ISORA DIVISION PRODUCTS

The Isora Division of Thorn Lighting has been formed in recognition of the extent to which lighting has become integrated with the ceiling. Thorn Lighting has been actively involved in the growth of recessed lighting fittings and their integration with ceiling systems and now Isora Division markets a range of luminous and integrated ceiling products. Circlgrid and Paragrid are open louvered luminous ceilings and Thermalucet a diffuse luminous ceiling which also provides a high degree of thermal insulation. A wide range of Aluminium louvers permits low brightness and textured variations while Leaf-Lite—a non-modular system—allows a variety of design possibilities with interesting visual effects.

Celestial—a system utilizing acrylic rods—has been described as a modern chandelier. Integration of ceiling and lighting design is expressed in Metrilux—continuous recessed lighting with an integral trunking support which will accommodate Trakline. Arena represents the full integration of lighting, ceiling and air-handling facilities—a system which permits the use of acoustic tiles and metal tray panels of standard sizes and therefore readily obtainable. An important consideration in the design of the Arena system has been simplicity and economy of installation.



## The Arena System

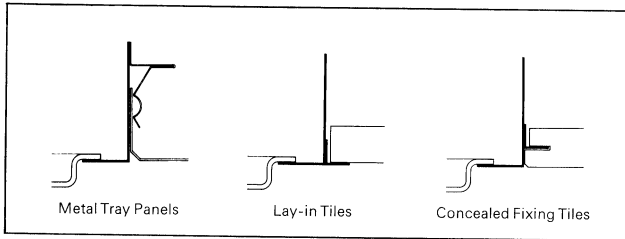
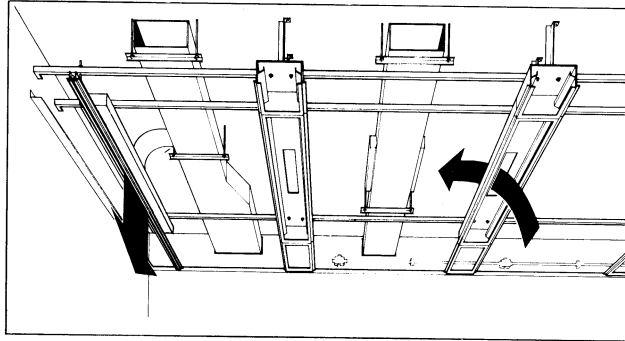
The Arena system is based on three main components whose position determines the layout of the other ceiling components. Since these components provide the main support for the ceiling tiles, the number of suspension points for a suspended ceiling is much reduced and the whole installation process shortened and simplified.

The three components which can be used individually or together are:

- (1) The ceiling box to take fluorescent lighting.
- (2) Lightweight trunking.
- (3) Linear air diffusers.

The system is designed to take standard modular ceiling tiles and can be produced in metric or imperial dimensions. The ceiling boxes are designed to house fluorescent lamps and gear, and a number of optical control units are available. They are also adapted for air-handling and, for this purpose, may be used with standard air supply and air extract boxes which can be attached to them and in line with them. All three major components have different edge treatments to accept the commonest types of ceiling tile (see diagram). Full details are available in an applications brochure TL 0073/4/72.

For construction, design information, photometric and air performance data together with illustrations of component parts refer to the Arena Design Book, TL 00105



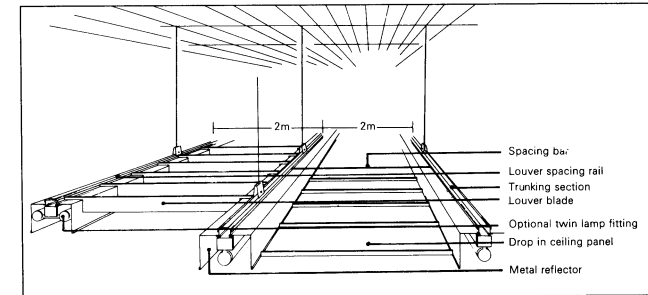
Catalogue no.	Description
CAR 2601	300mm x 1800mm Ceiling Box for metal tray
CAR 2602	300mm x 1800mm Ceiling Box for lay-in tile
CAR 2603	300mm x 1800mm Ceiling Box for concealed fix
CAR 2611	1800mm Twin Low Brightness Louver
CAR 2612	1800mm Prismatic Controller (K15)
CAR 2613	1800mm Prismatic Controller (K12)
CAR 2614	1800mm Opal dish diffuser
CAR 2615	1800mm Specular Plastic Louver
CAR 2617	1800mm Aluminium Louver (anodized)
CAR 2618	1800mm Line-Text, white painted louver
CAR 2621	Ceiling box end plate (no flange)
CAR 2622	Ceiling box end plate (lay-in tile version)
CAR 2623	Ceiling box end plate (concealed fix version)
CAR 2631	300mm long extract box (metal tray version)
CAR 2632	300mm long extract box (lay-in version)
CAR 2633	300mm long extract box (concealed fix version)
CAR 2634	300mm long input grille (1 way throw)
CAR 2635	300mm long extract grille (1 way)
CAR 2636	300mm long extract grille (2 way)
CAR 2637	300mm long input cone
CAR 2638	300mm long input grille (2 way throw)
CAR 2639	300mm long opposing blade damper
CAR 2641	300mm long input cone frame (metal tray version)
CAR 2642	300mm long input cone frame (lay-in version)
CAR 2643	300mm long input cone frame (concealed fix)
CAR 2644	300mm long metal infill panel (metal tray)
CAR 2645	300mm long metal infill panel (lay-in version)
CAR 2646	300mm long metal infill panel (concealed fix)
CAR 2647	Blanking panel for use with 300mm cone and 600mm grille
CAR 2655	1800mm length unlined airboot for Flowline
CAR 2656	1800mm length lined airboot for Flowline
CAR 2657	Suspension rod set (for LT trunking)
CAR 2658	Top-Hat bracket (for fixing spring T to trunking)

Catalogue no.	Description
CAR 2659	Suspension hook/bolt assembly
CAR 2660	End bracket for Trakline/ceiling junction
CAR 2661	600mm long extract box (metal tray version)
CAR 2662	600mm long extract box (lay-in version)
CAR 2663	600mm long extract box (concealed fix version)
CAR 2664	600mm long input grille (1 way throw)
CAR 2665	600mm extract grille (1 way)
CAR 2666	600mm extract grille (2 way)
CAR 2668	600mm long input grille (2 way throw)
CAR 2671	600mm long input cone frame (metal tray)
CAR 2672	600mm long input cone frame (lay-in version)
CAR 2673	600mm long input cone frame (concealed fix)
CAR 2674	600mm long metal infill panel (metal tray)
CAR 2675	600mm long metal infill panel (lay-in version)
CAR 2676	600mm long metal infill panel (concealed fix)
CAR 2680	Clip-in wiring cover for ceiling box
CAR 2681	Top flow plate for ceiling box
CAR 2683	End blanking plate, through wiring facility
CAR 2685	1800mm twin 6ft 85W Gear Tray (complete with gear)
CAR 2690	Trakline/Flowline jointing piece
CAR 2691	1800mm Flowline (metal tray)
CAR 2692	1800mm Flowline (lay-in)
CAR 2693	1800mm Flowline (concealed fix)
CAR 2694	300mm long blanking section for Flowline (metal tray)
CAR 2695	300mm long blanking section for Flowline (lay-in)
CAR 2696	300mm long blanking section for Flowline (concealed fix)
CAR 2697	600mm long blanking section for Flowline (metal tray)
CAR 2698	600mm long blanking section for Flowline (lay-in)
CAR 2699	600mm long blanking section for Flowline (concealed fix)
CAR 2700	'C' clamp for use with suspension set CAR 2657

Active length of air track for Flowline to be specified. Other lengths of Flowline section to special order.

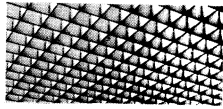


The Metrix system has the merits of simplicity of installation and ease of maintenance. It is based on a specially designed aluminium trunking (CMT 1006), which can be used with or without Atlas Trakline to support fluorescent batten fittings mounted within Metrix reflectors. Either Popular Pack or Atlantic A4 (narrow twin) fittings can be used within the troughs formed by the reflectors (CMT 1007 for Pop Pack and CMT 2007 for Atlantic). With trunking runs spaced at 2 metres, reflectors locate on the trunking and these in turn support the ceiling panels (CMT 1001). The panels can also be mounted in the high position; this requires 1.8m spacing of the trunking runs. Reflectors join together with a jointing strap (CMT 1008 or CMT 2008) and the reflector runs are terminated by an end plate (CMT 1009 or CMT 2009). Louver blades (CMT 1003) 110mm deep provide an alternative treatment to panels and can be spaced at 200mm, 400mm or 600mm centres by use of the louver spacing rail (CMT 1002). The ceiling perimeter is completed by perimeter fixing channels, CMT 1005 for panels, or CMT 1014 for louvers. With the Atlantic version two types of diffuser can be used: an aluminium louver with a 12.7mm x 12.7mm x 12.7mm cell (CMT 2012) or a K12 pattern prismatic panel (CMT 2013). For full illustrations and descriptions of the system refer to publication TLL0099/6/72

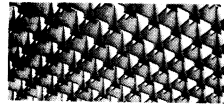


Recommended suspension centres for trunking:—  
 a. With Panels 1 metre.  
 b. With Louvers 2 metres.

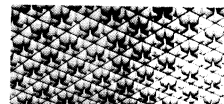
Catalogue no.	Description
CMT 1001	Metal ceiling panel, 400mm wide
CMT 1002	Louver spacing rail 1.6m/5.25ft
CMT 1003	Louver blade (110mm deep)
CMT 1004	Trunking suspension assembly
CMT 1005	Perimeter fixing channel for panels 2.44m/8ft
CMT 1006	Trunking 4.5m/14.76ft
CMT 1007	Side reflector for Pop Pack version
CMT 1008	Reflector jointing strap for Pop Pack version
CMT 1009	Reflector end plate for Pop Pack version
CMT 2007	Side reflector for A4 version
CMT 2008	Reflector jointing strap for A4 version
CMT 2009	Reflector end plate for A4 version
CMT 1010	Spacing bar kit
CMT 1011	Spring wedge for use with CMT 1005
CMT 2012	Aluminium louver panel for CMT 2007 reflector
CMT 2013	Prismatic diffuser K12 for CMT 2007 reflector
CMT 1014	Perimeter fixing channel for louvers 2m/6.56ft



Alumi-luvr



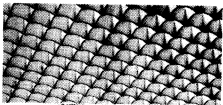
Square-Tex



Tweed



Line-TeX



Texturcel



Angl-Cel



Arboreal



Chek-Cel

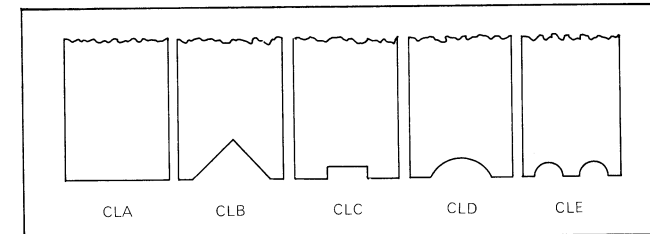
Aluminium louver panels provide a wide variety of textured effects and are particularly suitable for application where a low brightness illuminated ceiling is required. Alternative cell sizes are available and a wide range of panel sizes can be produced for any of the types illustrated. Standard sizes are 2ft x 2ft (610mm x 610mm) and 4ft x 2ft (1219mm x 610mm) for all types of panels, and for Alumi-luvr (CWA 1001) a further panel size of 4ft x 4ft (1219mm x 1219mm) is available. Panels up to 6ft x 4ft can be supplied to order. Standard finish is white painted, but anodized and other colours and finishes can be supplied to specification. The panels can be supported by any good quality exposed Tee grid system, with the exception of Tweed which has its own integral and invisible support. Any other louvers with cell sizes greater than 1in x 1in x 1in can also be supplied in trackless versions.

### Range

Catalogue no	Description
CWA 1001	Alumi-luvr $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ in 0.025in thick 45° cut off
CWA 1002	Alumi-luvr $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ in 0.025in thick 56° cut off
CWA 1003	Alumi-luvr $\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$ in 0.025in thick 45° cut off
CWA 1004	Alumi-luvr 1 x 1 x 1in 0.032in thick 45° cut off
CWA 1005	Alumi-luvr $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in 0.032in thick 45° cut off
CWA 1006	Alumi-luvr 2 x 2 x 2in 0.032in thick 45° cut off
CWA 2001	Texturcel $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ in 0.025in thick 45° cut off
CWA 2002	Texturcel $\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$ in 0.025in thick 56° cut off
CWA 2004	Texturcel 1 x 1 x 1in 0.032in thick 45° cut off
CWA 2005	Texturcel $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in 0.032in thick 45° cut off
CWA 3003	Square-Tex $\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$ in 0.025in thick 45° cut off
CWA 3004	Square-Tex 1 x 1 x 1in 0.032in thick 45° cut off
CWA 3005	Square-Tex $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in 0.032in thick 45° cut off
CWA 4000	Line-TeX (Bi-Planar louver) $\frac{3}{4} \times 1\frac{1}{2} \times \frac{3}{4}$ in, 1in flange 53° cut off
CWA 5001	Angl-Cel (60° slope) $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ in 0.025in thick
CWA 5002	Angl-Cel (60° slope) $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ in 0.025in thick
CWA 6010	Quadracel 3in deep x 2 x 1in 0.040in thick
CWA 6011	Quadracel 1½in deep x 1 x ½in 0.032in thick
CWA 7012	Tweed 1in x 1in x 1½in 0.032in thick
CWA 8004	Chek-Cel 1 x 1 x 1in 0.032in thick
CWA 8006	Chek-Cel 2 x 2 x 2in 0.032in thick
CWA 9006	Arboreal 2 x 2 x 2in 0.032in thick
CWA 9010	Arboreal 3 x 3 x 3in 0.032in thick



Leaf-Lite is a non-modular louver system of metal leaves mounted alternately at right angles to each other, giving a luminous ceiling with richly textured appearance. The standard leaf finish is high reflectivity semi-gloss white but colours to the BS. range can be supplied to order. Other textures and finishes, such as chrome or gold or bronze, can also be supplied. Leaf-Lite offers a wide variety of visual effects utilizing conventional light sources and coloured PAR lamps with permutations of coloured leaves and variations in leaf shape. Leaf-Lite with its all steel construction is non-combustible and does not interfere with sprinkler systems or air supply mounted above. The system is simple and quick to install and requires only infrequent maintenance.



Standard

Special leaf shapes which can be supplied to order.

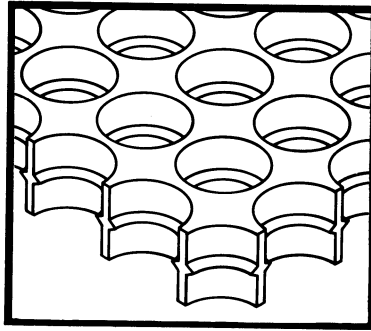
### Range

Catalogue no	Description
CLA 1036	Leaf-Lite, 3ft channel complete with white leaves
CLA 1048	Leaf-Lite, 4ft channel complete with white leaves
CLA 1136	Leaf-Lite, 3ft channel complete with gold leaves
CLA 1148	Leaf-Lite, 4ft channel complete with gold leaves
CLA 1236	Leaf-Lite, 3ft channel complete with leaves to BS. range of colours
CLA 1248	Leaf-Lite, 4ft channel complete with leaves to BS. range of colours
CLL 2048	Leaf-Lite main channel, 4ft, white finish
CLL 2148	Leaf-Lite main channel, 4ft gold
CLL 2248	Leaf-Lite main channel, 4ft to BS. range of colours
CLL 2001	Leaf-Lite hanger couples

# Circlgrid and Paragrid luminous ceiling system

## Circlgrid

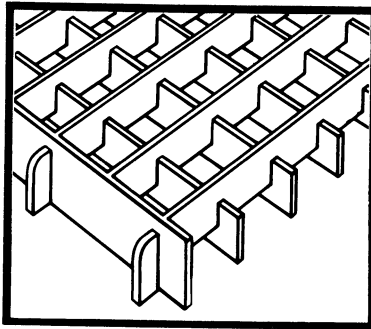
A unique louvered PVC lighting diffuser with circular cell configuration. The sandwich construction of vacuum-formed then electronically-welded sheets gives rigid three-dimensional shape of great strength and minimum weight. Suitable for part or wholly luminous ceilings in prestige areas and shops, and for use in illuminated display areas. A self-extinguishing material, it meets the relevant building regulations and is simple and quick to install. Standard panels are 610mm (2ft) square.



Circlgrid

## Paragrid

Paragrid panel is a one-piece precision injection moulded louver with an open-grid bi-planar construction. It will effectively screen overhead services and permit free air circulation, thereby simplifying integration with heating and ventilation services. The panels are treated with an anti-static solution after manufacture to repel dust. This is easily renewed during cleaning operations. Standard panels are 610mm (2ft) square.

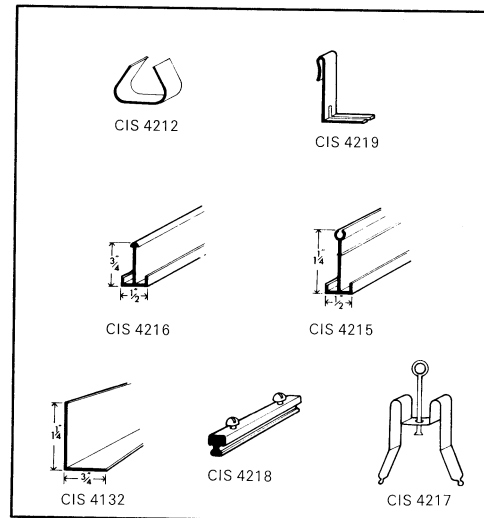


Paragrid

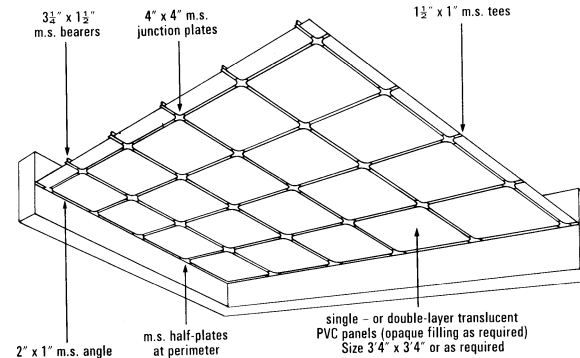
## Range

Catalogue no	Description
<b>CIRCLGRID PANELS</b>	
CCG 4200	White perforated circular cell, 2x2ft louver panel
CCG 4201	Colour tinted perforated circular cell, 2x2ft louver panel
CCG 4202	White unperforated circular cell, 2x2ft louver panel
CCG 4203	Colour tinted unperforated circular cell, 2x2ft louver panel
<b>PARAGRID PANEL</b>	
CPG 4140	Bi-planar opal louver (1/2 in cell), polystyrene 2x2ft
<b>CIRCLGRID AND PARAGRID GRID</b>	
CIS 4215	Main track, anodized aluminium, 8ft long, 1 3/4 x 3/2 in
CIS 4216	Cross track, anodized aluminium, 2ft long (with jointing sleeve)*
CIS 4217	Hanger assembly for wire suspension
CIS 4218	Joiner for main track
CIS 4219	Wall angle end clip*
CIS 4132	Wall angle end trim, anodized aluminium, 8ft long, 1 3/4 x 3/2 in
CIS 4129	Suspension wire, 2mm gauge, 20m length
CIS 4212	Panel retaining clip*

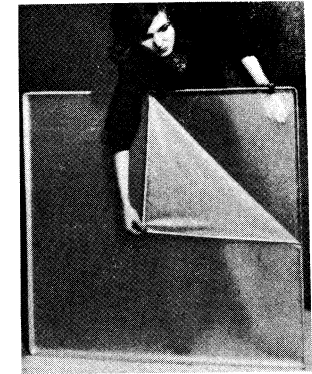
\*Items required for Circlgrid only



# Thermalucet ceiling panels



View of underside of ceiling with Thermalucet panels mounted in Spaceliner Grid.



Showing how the detachable PVC skins are fitted to the m.s. panel frames.

Thermalucet is a double-layer PVC film luminous ceiling panel with a 30mm (1.18in) still air space between the translucent films, which gives a high degree of thermal insulation. The panel consists of a channel frame over which the PVC skins are stretched. The skins can be easily removed for replacement.

The Thermalucet skin is made from 0.004in thick PVC with a welded perimeter bead. CTH catalogue numbers apply to the Thermalucet panels and CVT numbers to the corresponding replacement skins.

Besides the natural PVC film with 90% transmission, the following colours are available:

Daylight Blue	78% transmission
Daylight Blue, high diffusion	57% transmission
Apple Green	53% transmission
Rose Pink	57% transmission
Golden Yellow	62% transmission
Powder Blue	49% transmission
Black	—

Where colours are used, normally the upper skin is 'natural' and the lower coloured.

The PVC film is rated as self-extinguishing and complies fully with the flammability provision of BS.2782 (method 508C) in the context of the Building Regulations.

## Rear projection screens

Rear projection screens are made from the same PVC film as used in Thermalucet panels and are tailored to meet individual requirements. Screen sizes up to 60ft wide and with a 50ft drop can be supplied to order and larger sizes can also be considered.

## THERMALUCET PANELS (Double skin)

CTH 2424	Double skin Thermalucet panel 24x24in
CTH 3636	Double skin Thermalucet panel 36x36in
CTH 4010	Double skin Thermalucet panel 40x10in
CTH 4020	Double skin Thermalucet panel 40x20in
CTH 4030	Double skin Thermalucet panel 40x30in
CTH 4040	Double skin Thermalucet panel 40x40in
CTH 4824	Double skin Thermalucet panel 48x24in
CTH 4848	Double skin Thermalucet panel 48x48in
CTH 6040	Double skin Thermalucet panel 60x40in
CTH 1005	Double skin Thermalucet panel 1x0.5m
CTH 1010	Double skin Thermalucet panel 1x1m
CTH 1015	Double skin Thermalucet panel 1x1.5m
CTH 2000	Special size panels up to 10 sq ft
CTH 3000	Special size panels over 10 sq ft

## REPLACEMENT SKINS

CVT 2424	PVC skin for Thermalucet panel 24x24in
CVT 3636	PVC skin for Thermalucet panel 36x36in
CVT 4010	PVC skin for Thermalucet panel 40x10in
CVT 4020	PVC skin for Thermalucet panel 40x20in
CVT 4030	PVC skin for Thermalucet panel 40x30in
CVT 4040	PVC skin for Thermalucet panel 40x40in
CVT 4824	PVC skin for Thermalucet panel 48x24in
CVT 4848	PVC skin for Thermalucet panel 48x48in
CVT 6040	PVC skin for Thermalucet panel 60x40in
CVT 1005	PVC skin for Thermalucet panel 1x0.5m
CVT 1010	PVC skin for Thermalucet panel 1x1m
CVT 1015	PVC skin for Thermalucet panel 1x1.5m
CVS 2000	Special sizes for Spaceliner panels
CVX 2000	Special sizes for Thermalucet panels

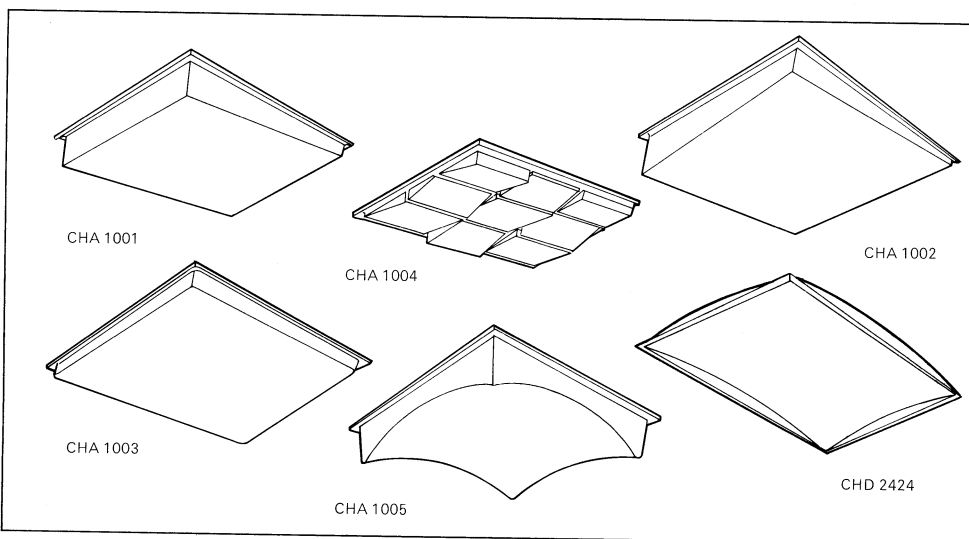
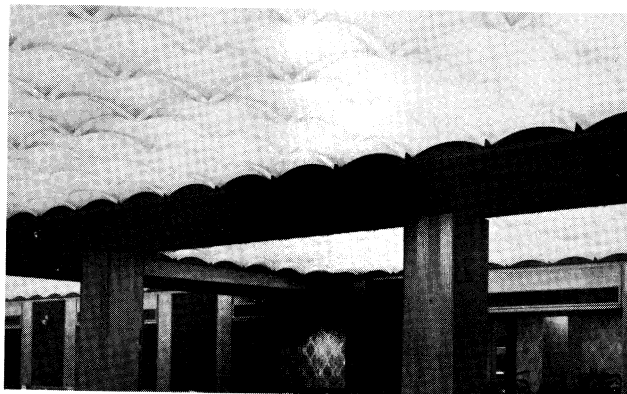
## OTHER ITEMS

CTH 5001	Self-adhesive polyurethane foam plastic, 13ft roll, 3/4 in wide
CTH 5002	Special clip for Spaceliner
CTH 5003	Special clip for Thermalucet

## Architectural range

This range of vacuum-formed diffusing panels provides an almost unlimited variety of sculptured ceiling forms which can be re-arranged whenever a new effect is required. The panels are of light-stabilising self-extinguishing rigid vinyl available in a number of forms: Wedge, Tilted Wedge, Multi-Wedge, Minaret, and Flat Pan. They can be installed in any suitably-sized ceiling grid. Standard panels are 610mm (2ft) square.

The Architectural Range can be used either as an overall ceiling or arranged in attractive groupings when combined with other ceiling elements. It is particularly suitable for commercial interiors such as banking halls, hotel foyers and public buildings.



### Range

Catalogue no	Description
CHA 1001	Wedge design in rigid PVC
CHA 1002	Tilted Wedge design in rigid PVC
CHA 1003	Flat Pan design in rigid PVC
CHA 1004	Multiwedge design in rigid PVC
CHA 1005	Minaret design in rigid PVC
CHA 3001	Wedge design in perspex for external use
CHA 3003	Flat Pan design in perspex for external use
CHA 3006	Pyramid design in perspex for external use
CHA 4003	Flat Pan design in fire-rated perspex
CHA 4006	Pyramid design in fire-rated perspex
CHD 2000	Clip for dust cover
CHD 2424	Dust cover for Architectural and Sonolume panels

## Celestial and Sonolume

### Celestial

Celestial expresses in terms of today's materials something of the opulence of the traditional crystal chandelier and is ideally suited for use in prestige areas.

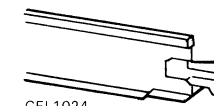
It consists of an inverted 'T'-bar grid supporting a 610mm x 305mm (2ft x 1ft) suspended ceiling of die-cast aluminium panels. The panels can be fly-cut to accept a variety of lighting and other services such as public address, sprinklers, air diffusers and downlighters. Celestial gives a non-modular appearance and will fit virtually any size or shape of ceiling area.



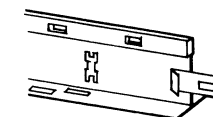
Catalogue no	Description
<b>CELESTIAL</b>	
CEL 1224	1 x 2ft Celestial panel, complete with torsion-ease springs
CEL 1120	Main 'T', 10ft long, pre-slotted to accept springs
CEL 1024	Cross 'T', 2ft long
CEL 2503	2 1/2in diameter, 3in long cast and polished acrylic lens
CEL 2506	2 1/2in diameter, 6in long cast and polished acrylic lens
CEL 2509	2 1/2in diameter, 9in long cast and polished acrylic lens
CEL 2512	2 1/2in diameter, 12in long cast and polished acrylic lens
CEL 2500	Lens colour cap



CEL 1224



CEL 1024



CEL 1120



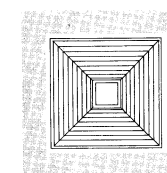
CEL 2503/6/9/12



CEL 2500

### Sonolume

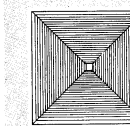
Sonolume is a sound absorbing and light transmitting material, composed of three heat-laminated layers. The centre layer is a high impact strength vinyl with small perforations; on either side of this sheet an acrylic medium is permanently thermo-laminated. The material has an acoustic coefficient equal to that of a good quality acoustic tile.



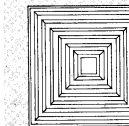
COA 2424



COB 2424



COC 2424

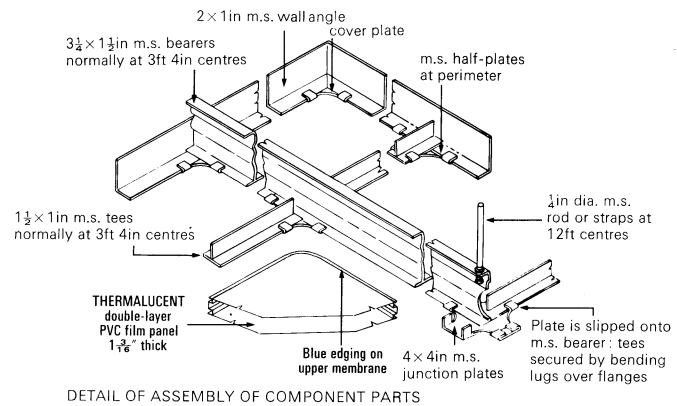


COD 2424

### SONOLUME PANELS

COT 2424	Flat Sheet panel on Thermalucet frame 24 x 24in
COT 3030	Flat Sheet panel on Thermalucet frame 30 x 30in
COT 3618	Flat Sheet panel on Thermalucet frame 36 x 18in
COT 3636	Flat Sheet panel on Thermalucet frame 36 x 36in
COT 4824	Flat Sheet panel on Thermalucet frame 48 x 24in
COA 2424	Vacuum formed 0.018in thick, style A 24 x 24in
COB 2424	Vacuum formed 0.018in thick, style B 24 x 24in
COC 2424	Vacuum formed 0.018in thick, style C 24 x 24in
COD 2424	Vacuum formed 0.018in thick, style D 24 x 24in

## Spaceliner grid



### Spaceliner grid

Spaceliner grid has been specially designed for use with Thermalucent panels. It consists of:

1. *The main bearer*, 3½ in deep × 1½ in wide, which is the principal item of the grid.

2. *Tee Bar*, 1 in deep × 1½ in wide, a cross tee forming a support grid.

3. *Wall Angle*, 2 in deep by 1 in wide or 1 in deep by 1 in wide.

4. *Cover Plates* (4 in × 4 in). These have a cruciform clamp-type junction plate used at grid intersections.

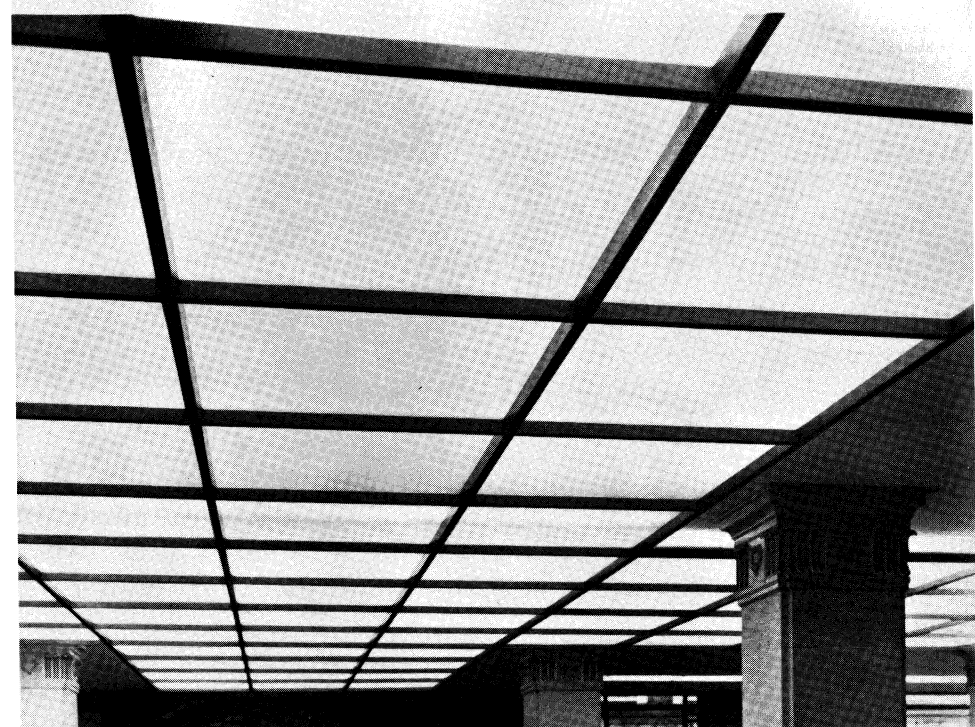
5. *Fishplates* for joining lengths of main bearer.

### Components

CSP 1120	Main bearer, 10ft long, Etch prime finish
CSP 1144	Main bearer, 12ft long, Etch prime finish
CSP 1004	Main bearer, 4m long, Etch prime finish
CSP 1240	Main bearer, 20ft long, special heavy duty (14swg) 5½ × 1½ in
CSP 2024	Tee Bar, 24in Etch prime finish
CSP 2036	Tee Bar, 36in Etch prime finish
CSP 2040	Tee Bar, 40in Etch prime finish
CSP 2048	Tee Bar, 48in Etch prime finish
CSP 2060	Tee Bar, 60in Etch prime finish
CSP 2001	Tee Bar, 1m Etch prime finish
CSP 3120	Wall angle, 10ft long, 2 × 1in Etch prime finish
CSP 3144	Wall angle, 12ft long, 2 × 1in Etch prime finish

CSP 3004	Wall angle, 4m long, 2 × 1in Etch prime finish
CSP 4120	Wall angle, 10ft long, 1 × 1in Etch prime finish
CSP 4144	Wall angle, 12ft long, 1 × 1in Etch prime finish
CSP 5001	Cover plate: full, Etch prime finish
CSP 5002	Cover plate: ¾, Etch prime finish
CSP 5003	Cover plate: ½, Etch prime finish
CSP 5004	Cover plate: corner, Etch prime finish
CSP 5005	Cover plate: full (for sprinkler heads) Etch prime finish
CSP 5006	Fishplate, 18in long, drilled for pop riveting to join bearers
CSP 5007	Fishplate, 18in long, for HD bearer
CSP 5008	Fishplate, 18in long, for sprinklers

## Lightframe



Lightframe is a profiled frame with 45° mitred corners which can be used in conjunction with a range of luminous ceiling panels. Standard finish is plain aluminium silver; a simulated wood grain finish can be produced to order.

Lightframe can be used with any standard interlocking exposed tee grid system. The standard sizes fit 2ft × 2ft, 2ft × 4ft, 3ft × 3ft and 4ft × 4ft openings and other sizes can be made to order.

When Thermalucent panels are used in conjunction with Lightframe, special sizes are required to fit within the top flange of Lightframe. Panels will be produced compatible with Lightframe requirements on request.

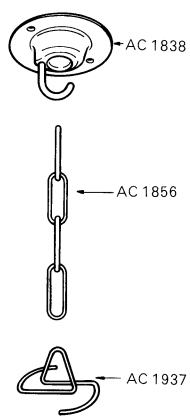
### Range

CFR 2424	2 × 2ft roll formed section, 45° mitred corner
CFR 2448	2 × 4ft roll formed section, 45° mitred corner
CFR 3636	3 × 3ft roll formed section, 45° mitred corner
CFR 4848	4 × 4ft roll formed section, 45° mitred corner
CFR 2000	Non-standard sizes to order

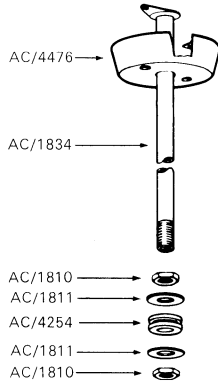
Suspension sets are available for all Thorn lighting fittings. Reference should be made to maximum loading table and respective weight of fitting to determine the type of suspension required. Standard lengths of rod or chain sets is 30in. Other lengths in multiples of 6in will be supplied on request. Half sections of the suspension sets are illustrated. Catalogue number relates to complete set. Catalogue number for individual parts of suspension sets are shown on the diagrams.

### Max. loading table

Catalogue no.	kg	lb
A.30	18.2	40
B.30	30.9	68
H.30	123.0	270
K.30	27.3	60

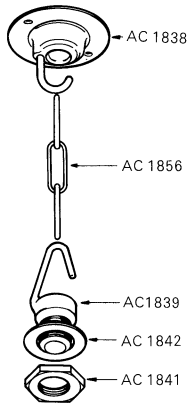


**Suspension Set A.30 (Light Duty)**  
Two malleable iron hooked ceiling plates two 30in lengths of chain, two spring loops.



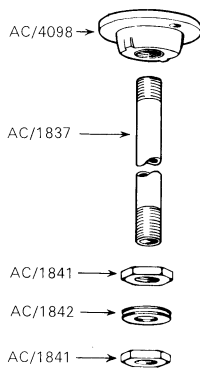
### Suspension Set B.30

Two pressed ceiling plates, two 3/8in by 30in rods screwed 26 T.P.I., grommets, locknuts, washers. White finish.



### Suspension Set K.30 (Heavy Duty)

Two dome hook plates, two 30in lengths of chain, two 3/4 E.T. suspension hooks, back nuts and washers.



### Suspension Set H.30

Heavy duty conduit suspension including two 3/4in by 30in rods with ball joint ceiling plates and back-nuts. White finish.

The Atlas Trakline system is based on a PVC extrusion which contains two copper conductors for line and neutral and an aluminium earth strip. These assemblies (TK) are then housed in one of five metal trunking types.

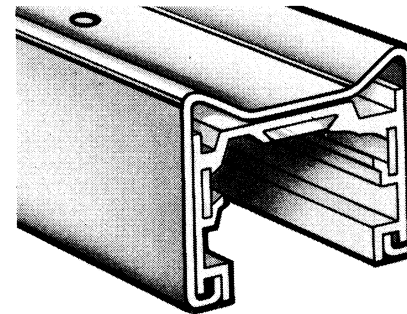
TKS 1200 (1.2 metres long)  
TKS 2400 (2.4 metres long)  
TKS 3600 (3.6 metres long)

} TK in white painted rolled steel section, complete with metal end caps.

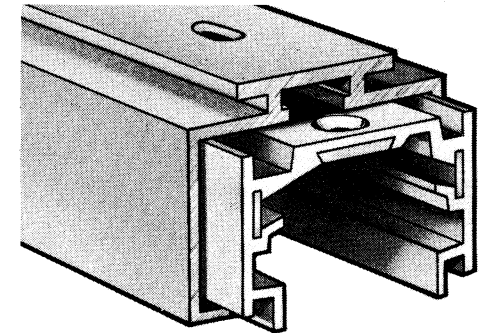
TKN 1200 (1.2 metres long)  
TKN 2400 (2.4 metres long)  
TKN 3600 (3.6 metres long)

} TK in anodised aluminium section, complete with metal end caps.

TK 4500 (4.5 metres long) TK for installation in either LTN 4500, LTR 4500, LTF 4500 or AL 4500, all of which are also 4.5 metres long. (See sections dealing with Trunking).



SECTION ON  
TKS



SECTION ON  
TKN

### Mains Connectors, Adaptors and Couplers

TK 1021 L	Mains connector, left handed
TK 1021 R	Mains connector, right handed
TK 1031	Track coupler
TK 1051	Fittings adaptor box
TK 106	Straight mechanical coupler (TKN, LTN, LTF & LTR)
TK 1101	Pull Cords for TK 1051
TK 1191	Adaptor ring for TK 1051 for use in TK
TK 125	TK 1051 adaptor kit (to accept other fittings)
TK 1121	Fluorescent fittings suspension set
TK 1121 F	Fluorescent fittings suspension set with cut lead fuse
TK 127	Earth Continuity Strip (TKS)
TK 111	Clip-on cover
TK 1201	Spare end caps (TKN)
TK 128	Spare end caps (TKS)

### Elbows & Wiring Boxes

TK 107	Horizontal elbow assembly (TKN or LTN with TK)
TK 108	Vertical internal elbow assembly (TKN or LTN with TK)
TK 109	Vertical external elbow assembly (TKN or LTN with TK)
TK 115	End wiring box assembly (TKN or LTN with TK)
TK 116	Top entry wiring box (continuous runs, TKN or LTN with TK)
TK 1171	End wiring box assembly (TK in LTR Trunking)
TK 1181	Top entry wiring box assembly (continuous runs of TK in LTR) Trunking
TK 121	End wiring box assembly (TKN or TKS surface mtd.)
TK 122	Top entry wiring box 2 way at 90° (TKN or TKS surface mtd.)
TK 124	Top entry wiring box 4 way "X" (TKN or TKS surface mtd.)
TK 123	Top entry wiring box 3 way "T" (TKN or TKS surface mtd.)
TK 126	Top entry wiring box 2 way in line (TKN or TKS surface mtd.)

For component sketches & applications chart see 2 following pages

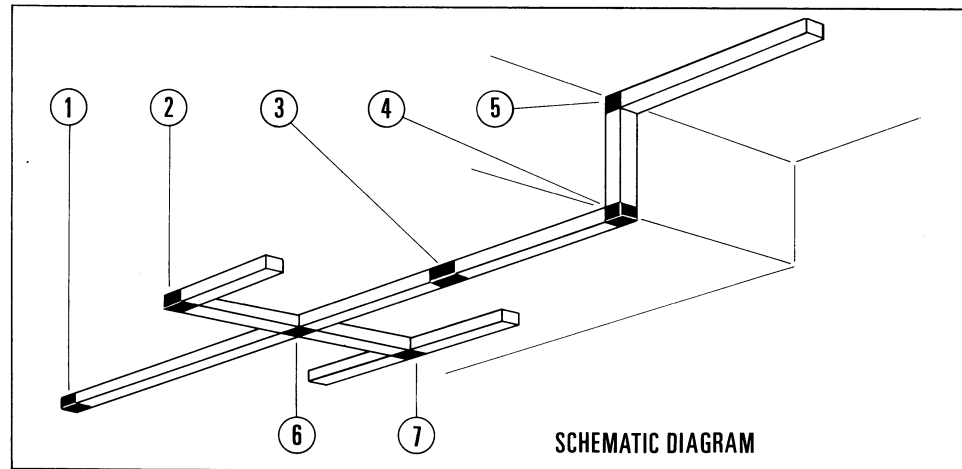
# Applications Table

Track type

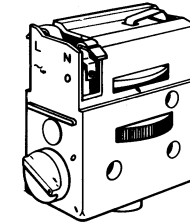
Schematic Diagram reference	Accessory Catalogue no.	AL 4500 with TK 4500 surface mtd. only	LTF 4500 with TK 4500 recessed only	LTR 4500 with TK 4500 recessed only	LTN 4500 with TK 4500 suspended	LTN 4500 with TK 4500 surface mtd.	TKN 3600 Suspended	TKN 2400 Suspended	TKN 1200 Suspended	TKN 3600 Surface mounted	TKN 2400 Surface mounted	TKN 1200 Surface mounted	TKS 3600 Surface mounted only	TKS 2400 Surface mounted only	TKS 1200 Surface mounted only	
-	TK 1201 L&R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 1031	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 1051	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 106	×	✓	✓	*	✓	*	*	*	✓	✓	✓	✓	×	×	×
2	TK 107	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	×
5	TK 108	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	×
4	TK 109	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	×
-	TK 1101	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 111	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 1121	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 1121/F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1	TK 115	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	×
3	TK 116	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	×
1	TK 1171	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	×
3	TK 1181	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	×
-	TK 1201	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1	TK 121	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	TK 122	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	TK 123	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	TK 124	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	TK 126	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-	TK 127	×	×	×	×	×	×	×	×	×	×	×	✓	✓	✓	✓
-	TK 128	×	×	×	×	×	×	×	×	×	×	×	✓	✓	✓	✓

✓ -- yes    × -- no

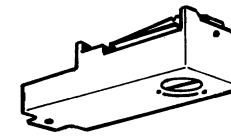
\*It is recommended that wherever possible heavy duty trunking connectors are used, (see trunking section) and TK 106 only used for light duty suspended applications



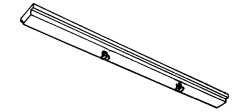
# Trakline Components



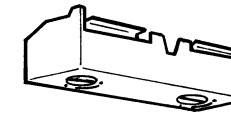
TK1051 Adaptor Box



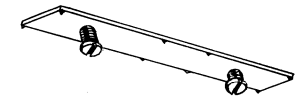
TK1021 L&R Mains connector



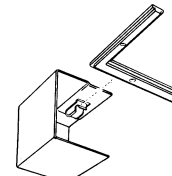
TK106 Mechanical Coupler (TKN, LTN, LTR, LTF)



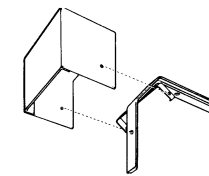
TK1031 Track Coupler



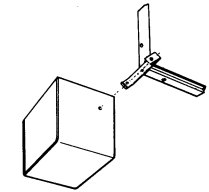
TK127 Earth Continuity Strip (TKS)



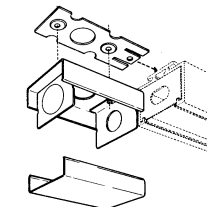
TK107 Horizontal Elbow (TKN)



TK108 Vertical Int. Elbow (TKN)

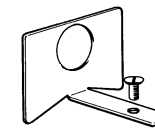


TK109 Vert. Ext. Elbow (TKN)

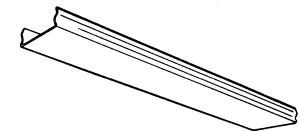


TK115 Wiring box End Entry (TKN)

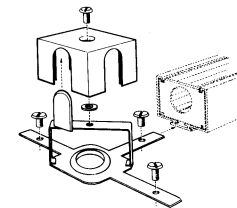
TK116 as TK115 (continuous runs)  
TK1171 as TK115 (LTR)  
TK1181 as TK115 (continuous runs LTR)



TK128 Spare end cap metal (TKS)

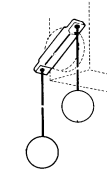


TK111 Clip-on Cover

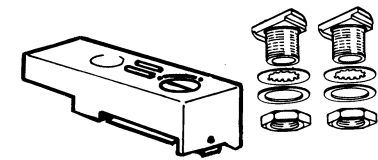


TK123 Wiring box (TKN and TKS)

TK121 as TK123 W for end entry } TKS and TKN  
TK122 as TK123 2 way at 90°  
TK124 as TK123 4 way "X"  
TK126 as TK123 2 way in line

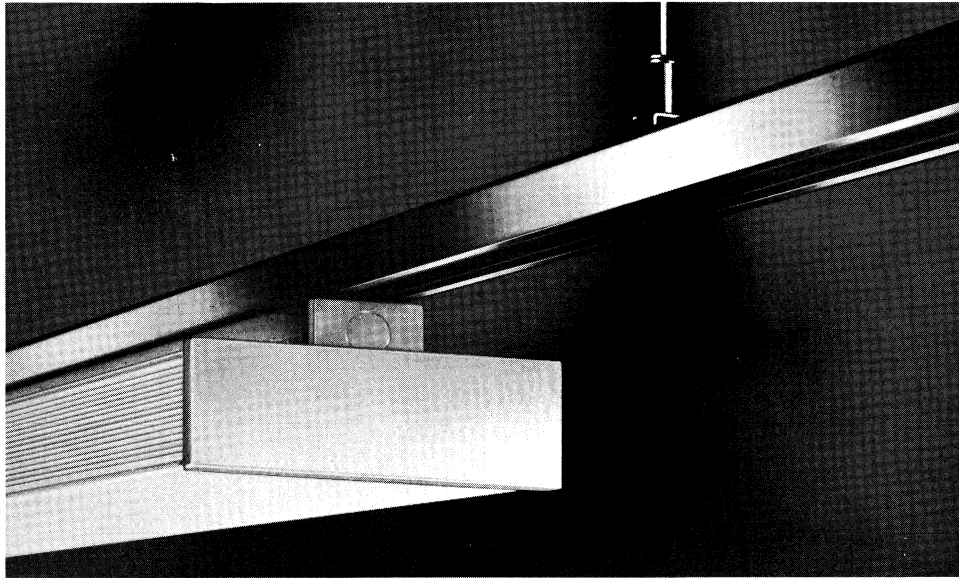


TK1101 Pull Cords (TK1051)



TK1121 Fluorescent Suspension Set  
TK1121/F as TK1121 but includes cut lead fuse

# New lightweight trunking



This ultra-slim section anodized aluminium trunking is particularly suitable for office, store and display lighting applications where more industrial forms are too bulky and may present an unsatisfactory appearance. Three types of trunking section are available – one for surface mounting or conduit suspension and two other types for recessing into suspended ceilings. (See illustrations on next page).

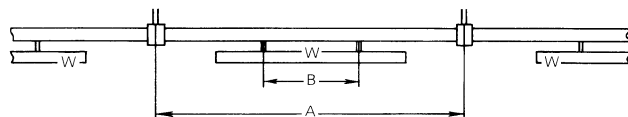
The trunking suspension assembly is used to connect the trunking section to the 19mm/3/4in conduit down-drop. Suspension of trunking by means of chains is not normally recommended.

The fitting is connected to the trunking section by means of the fittings suspension assembly. By this means extreme flexibility of suspension centres for the trunking and spacing of the fittings along the trunking is achieved. The coupling piece to join the lengths of trunking together is fitted internally and is locked with set-screws without drilling the trunking. A PVC cover closes the open mouth of the trunking between fittings and a black finished end plate closes the end of the

trunking. This end plate incorporates a knock-out to receive conduit which is used to feed into the trunking and make bends, or clear obstacles, etc. between the trunking runs. Through-wiring cables are retained in the trunking by fibre support-pieces.

**Maximum recommended trunking suspension centres 2.44m/8ft**

NOTE: A gap of at least 6.35mm/0.25in must be left between trunking lengths during installation to allow for expansion.



The above deflections were measured using maximum weight Popular Pack fittings. These figures assume that all loads are counter-balanced and the final trunking span will be

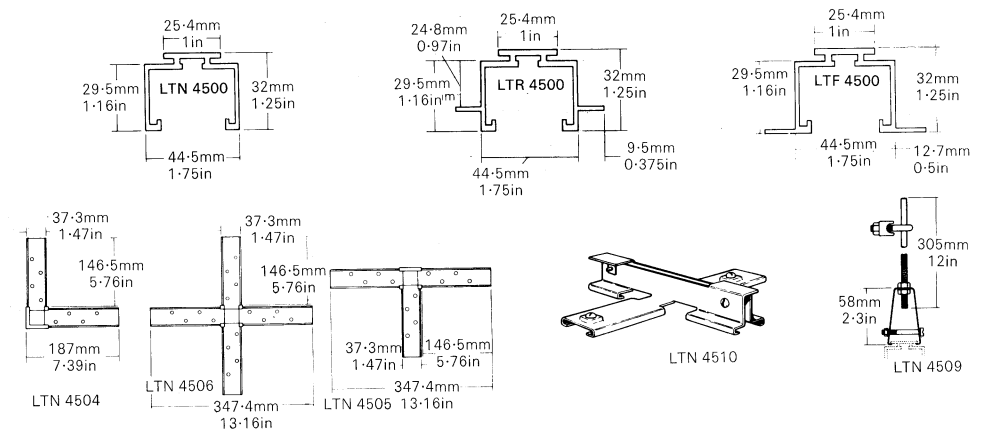
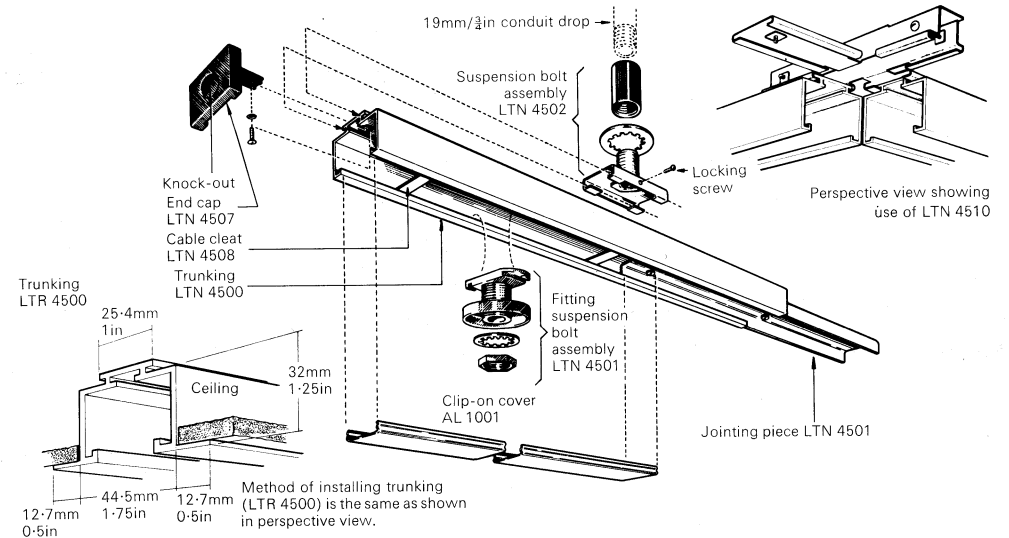
adequately supported at the termination point. It is important when designing trunking installations to ensure that the deflection between spans does not exceed 1/300th of the total span.

For example, an installation requires trunking to be suspended at 2.44m/8ft spans. Therefore maximum deflection =  $\frac{2440}{300} = 8.1\text{mm}/0.32\text{in}$ .

### Deflections for new lightweight trunking

A	B	Weight W	Deflection
2.44m	0.61m	9kg	5.7mm
8ft	24in	20lb	0.225in
2.44m	1.22m	13.6kg	5.7mm
8ft	48in	30lb	0.225in

# New lightweight trunking

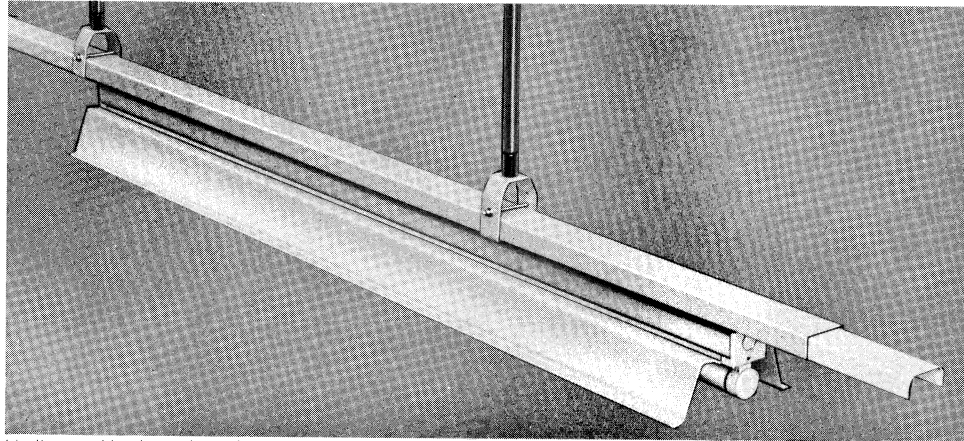


### Components table

Catalogue no.	Description
LTN 4500	4.5 metre length trunking
LTR 4500	4.5 metre length trunking for recessing
LTF 4500	4.5 metre length trunking for recessing
LTN 4501	Fittings hanger assembly
LTN 4502	Trunking hanger assembly
LTN 4503	Jointing piece
LTN 4504	Two-way coupling
LTN 4505	Three-way coupling
LTN 4506	Four-way coupling
LTN 4507	End cap
LTN 4508	Cable cleats
LTN 4509	New adjustable suspension
LTN 4510 *	Four-way coupling
AL 1001	1.8 metre PVC cover (also used with Liteline trunking)

\*Enables continuous runs of Trakline to be used with new lightweight trunking





Liteline trunking is a universal system for carrying overhead lighting, electric fittings or cables for industrial and commercial buildings. Liteline trunking can either be suspended, fixed flush to a ceiling or, by means of the top hat section, incorporated into a suspended ceiling. Having a cross section of only 66 x 32mm/2.625 x 1.25in, it is available in 4.5m/14.75ft lengths of 18 gauge cold rolled steel. The paint surface is a single dip coat finish and is light grey in colour to BS.2260.9-094. In certain circumstances it may be necessary to apply a final finishing coat for increased durability. Simple jointing by slide-in straight coupling piece secured by eight screws ensuring earth continuity, and removable clip-in PVC cover fillets enable easy installation. The fittings and accessories have been designed to allow continuous unobstructed runways for the cables. **Maximum recommended suspension centres 3.35m/11ft**

### Neat and rigid

The trunking is small and compact in design and suitable for surface mounting installations. The design of the channel section ensures maximum rigidity and weight carrying capacity over unsupported spans up to 3.35m/11ft.

### Easy to wire

When trunking is erected, there are no obstructions whatever and, therefore, cable can be fed into the trunking with ease. Up to two lighting fittings can be supplied from any point by fitting a Parablock connector.

### Flexible

The numerous junction pieces enable horizontal diversions of 90° to be made from the main trunking run.

### Colour

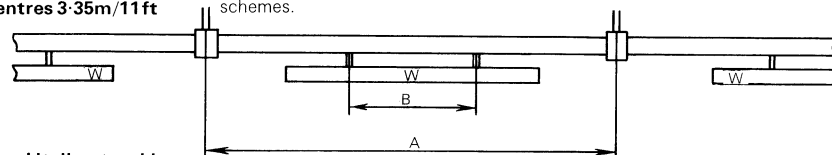
The BS.2660.9-094 light grey colour is attractive yet unobtrusive and is therefore ideal for commercial office schemes.

### Simple installation

Simple jointing by slide-in straight coupling piece secured by eight screws ensuring earth continuity. Easily removable clip-in PVC cover fillet. "Clip-over" suspension stirrup suitable for chain or conduit. Universal girder clamps for RSJ mounting.

### Versatile

Any type of fitting with 19mm/¾in conduit hole fixing can be suspended from any point by means of a special "T" bolt assembly, which also facilitates alterations to lighting layouts. Fittings with larger conduit fixings can be mounted by means of a suitable reducer. A top hat section can be supplied where it is required to fit a flush mounted suspended ceiling.



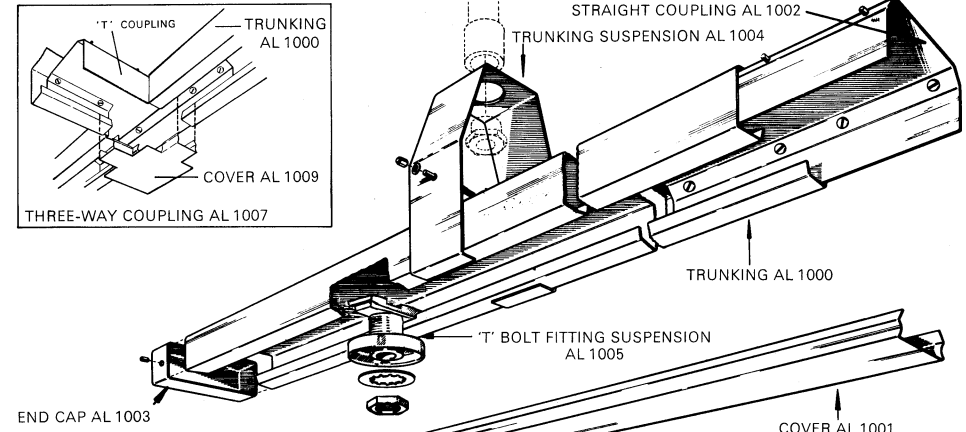
### Deflections for Liteline trunking

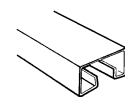
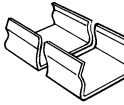
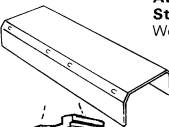
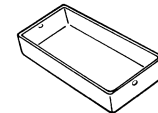
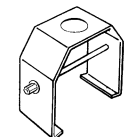
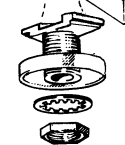
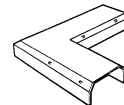
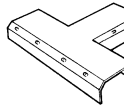
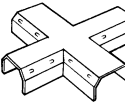
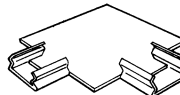
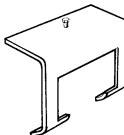
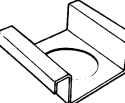
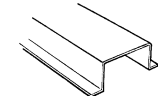
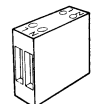


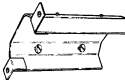
A	B	Weight W	Deflection
3.35m/11ft	0.61m/24in	18kg/40lb	6.35mm/0.25in
A	B	Weight W	Deflection
3.35m/11ft	1.22m/48in	25kg/55lb	5.1mm/0.20in

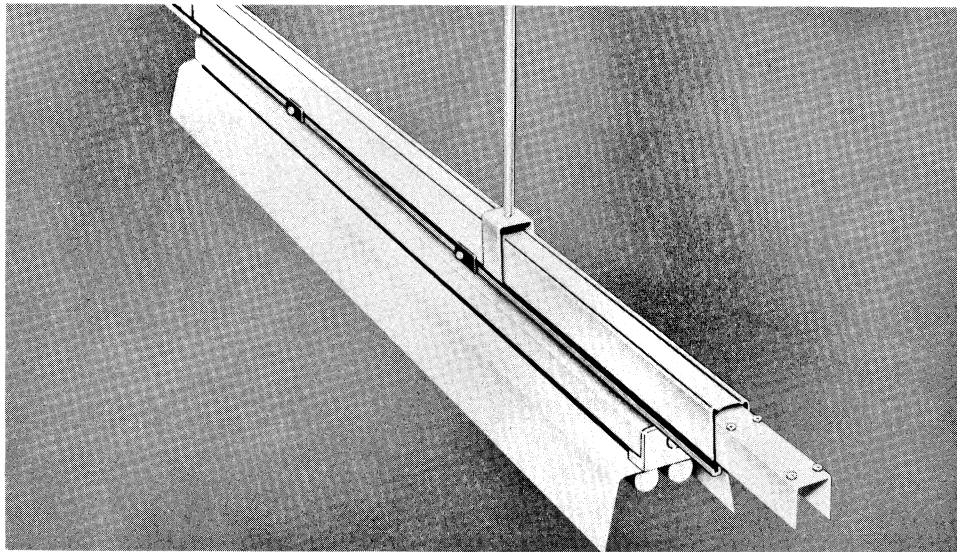
The above deflections were measured using Atlantic 4 fittings (Catalogue no. A4B/4685) at 0.61m/24in suspension centres and A4Z/T4885 at 1.22m/48in centres and suspended as detailed above.

These figures assume that all loads are counter-balanced and the final trunking span will be adequately supported at the termination point. It is important when designing trunking installations to ensure that the deflection between spans does

not exceed 1/300th of the total span. For example, an installation requires trunking to be suspended at 3.35m/11ft spans. Therefore maximum deflection =  $\frac{3350}{300} = 11.2\text{mm}/0.44\text{in}$ .



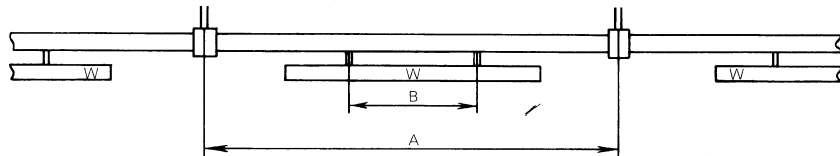
 <b>Catalogue no. AL 4500</b> <b>Trunking sections</b> 4.5m/14.75ft length Weight 6.3kg/13lb 14oz 66mm/2.6in wide x 32mm/1.3in deep	 <b>Catalogue no. AL 1001</b> <b>PVC cover fillet</b> 1.8m/7.1in length Weight 0.17kg/6oz	 <b>Catalogue no. AL 1002</b> <b>Straight coupling</b> Weight 0.5kg/1lb 3oz
 <b>Catalogue no. AL 1003</b> <b>End cap</b> Weight 0.01kg/½oz	 <b>Catalogue no. AL 1004</b> <b>Trunking suspension</b> Weight 0.11kg/4oz 38mm/1.5in wide x 86mm/3.375in deep	 <b>Catalogue no. AL 1005</b> <b>"T" bolt (fitting suspension)</b> Weight 0.09kg/3oz
 <b>Catalogue no. AL 1006</b> <b>Horizontal coupling</b> Weight 0.5kg/1lb 3oz	 <b>Catalogue no. AL 1007</b> <b>"T" coupling</b> Weight 0.7kg/1lb 10oz	 <b>Catalogue no. AL 1008</b> <b>Four-way coupling</b> Weight 0.9kg/2lb 1oz
 <b>Catalogue no. AL 1009</b> <b>Cover assembly</b> Weight 0.06kg/2oz	 <b>Catalogue no. AL 1010</b> <b>Girder clamp assembly</b> Weight 0.14kg/5oz	 <b>Catalogue no. AL 1011</b> <b>Suspension bracket</b> Weight 0.03kg/1oz
 <b>Catalogue no. AL 4512</b> <b>Top hat section</b> 4.5m/14.75ft length Weight 3.5kg/7lb 10oz 106mm/4.1875in wide x 43mm/1.6875in deep	 <b>Catalogue no. AL 1013</b> <b>Parablock connector</b> Weight 0.03kg/1oz takes cable up to 7/036	 <b>Catalogue no. AL 1014</b> <b>Vertical-horizontal coupling (internal)</b> Weight 0.7kg/1lb 10oz
 <b>Catalogue no. AL 1015</b> <b>Vertical-horizontal coupling (external)</b> Weight 0.7kg/1lb 10oz	 <b>Catalogue no. AL 1016</b> <b>Stop-end junction</b> Weight 0.5kg/1lb 3oz	



The Atlantic trunking system is adapted to receive lighting fittings on its underside, and provides structural support for the fittings with adequate through-wiring capacity. The system reduces installation time to the minimum. The close-top trunking is suspended by saddle brackets attached to down-drops from the ceiling or roof structure, and joint pieces hold the sections rigidly in line and provide earth continuity. The suspension of trunking by means of chains is not normally recommended. Close ceiling mounting is also possible.

Brackets are attached to the fittings by means of the threaded bush, nut and washer supplied. The brackets engage with the batten flanges of the trunking and allow the fitting to be hinged from the trunking during installation, maintenance or subsequent modification of the through-wiring in the trunking. Clip-in, 15 amp terminal blocks are available for inter-connection and looping in. Cable carriers are included in each trunking length to retain the cables neatly in position. The trunking mouth is closed by a black snap-on PVC cover strip

which is easily cut to length on site to fit between fittings. This part is not required when the fittings are continuously mounted. To ensure satisfactory earth continuity between the fittings and the trunking an earth screw is provided on the jointing piece, a jumper cable being necessary to complete the bond. Standard trunking is made from 18 swg galvanized sheet steel. **Maximum recommended trunking suspension centres 4.5m/14.75ft**



### Deflections for Atlantic trunking

A	B	Weight W	Deflection
4.5m/14.75ft	0.61m/24in	18kg/40lb	2.54mm/0.1in
A	B	Weight W	Deflection
4.5m/14.75ft	1.22m/48in	25kg/55lb	4.32mm/0.17in

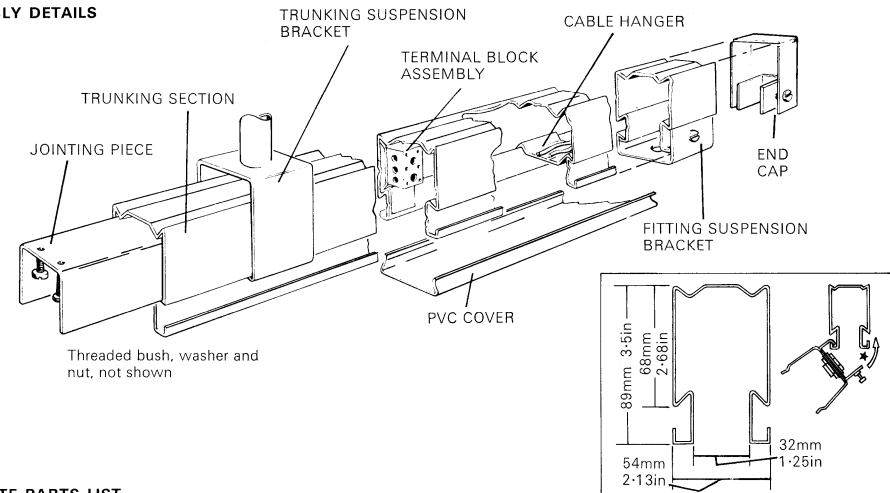
For spans less than 4.5m the deflection on this trunking was not measurable

The above deflections were measured using Atlantic 4 fittings (Catalogue no. A4B/4685) at 0.61m/24in suspension centres and A4Z/T4885 at 1.22m/48in centres and suspended as detailed above.

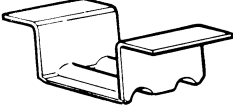
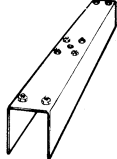
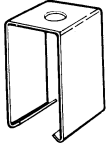
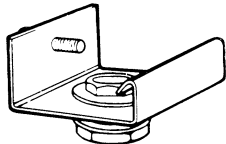
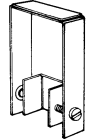
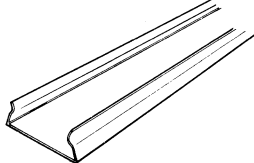
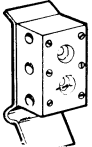
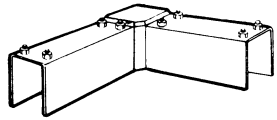
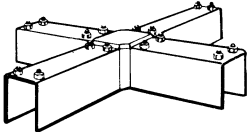
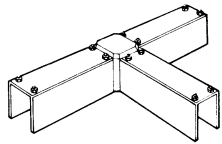
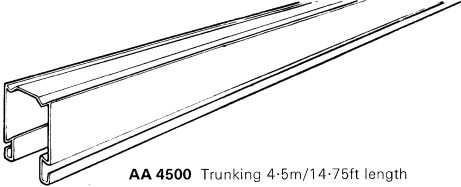
These figures assume that all loads are counter-balanced and the final trunking span will be adequately supported at the termination point. It is important when designing trunking installations to ensure that the deflection between spans does

not exceed 1/300th of the total span. For example, an installation requires trunking to be suspended at 4.5m/14.75ft spans. Therefore maximum deflection  $= \frac{4500}{300} = 15\text{mm}/0.6\text{in}$ .

### ASSEMBLY DETAILS



### COMPLETE PARTS LIST

 AA 4702 Cable support	 AA 4703 Straight coupling	 AA 4704 Trunking suspension
 AA 4705 Fitting suspension	 AA 4706 End cap	 AA 4707 PVC cover 2.4m/7.87ft
 AA 4708 Terminal block assembly	 AA 4709 Horizontal coupling	 AA 4712 Four-way coupling
 AA 4713 'T' coupling	 AA 4500 Trunking 4.5m/14.75ft length	