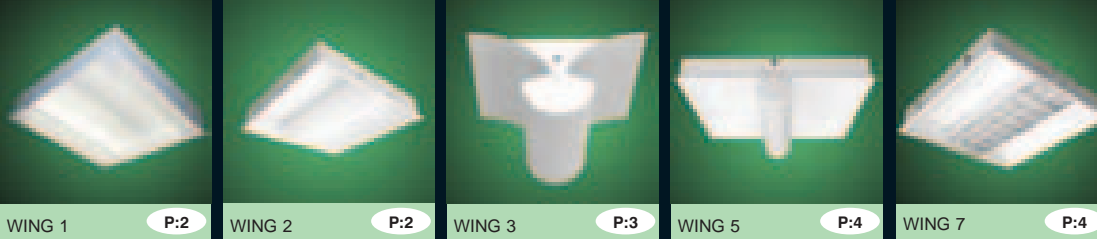


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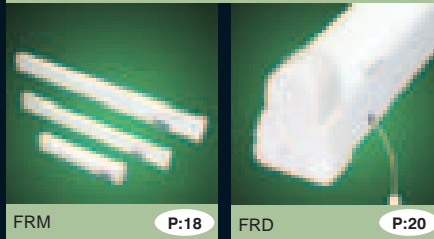
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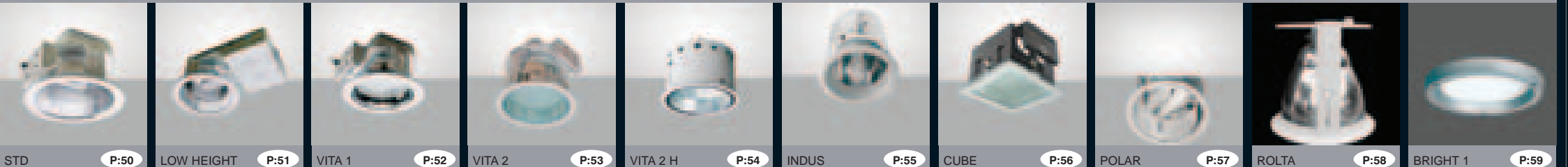
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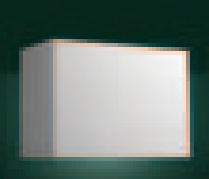


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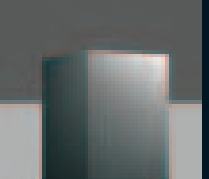
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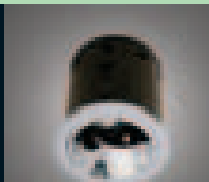
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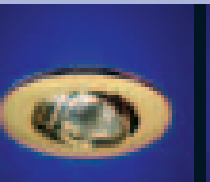
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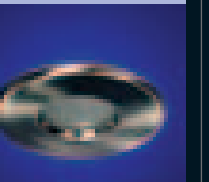
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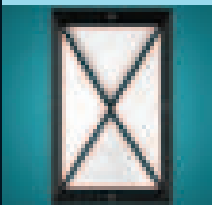
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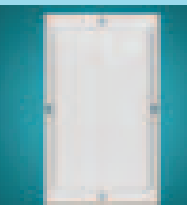
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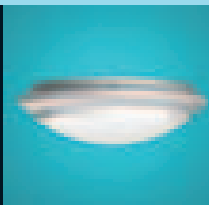
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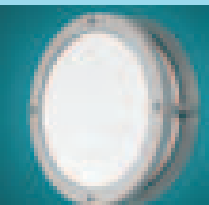
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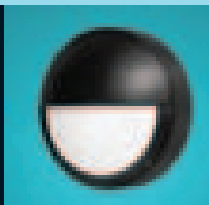
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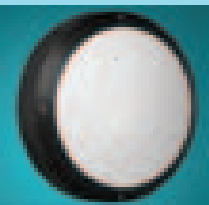
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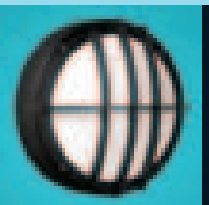
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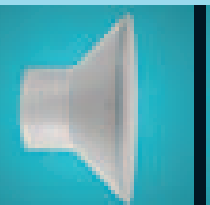
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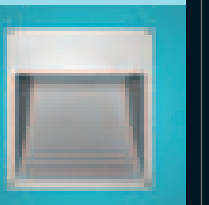
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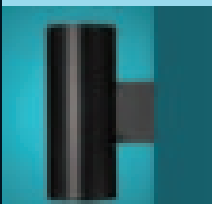


FRWL BD 30 P:89

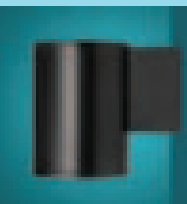


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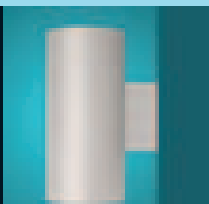
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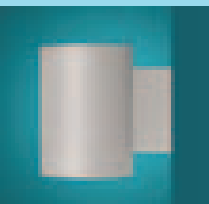
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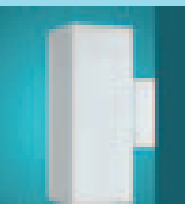
FRWL UD 50/60/70 P:91



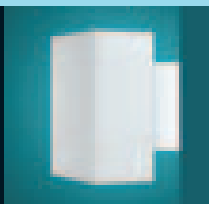
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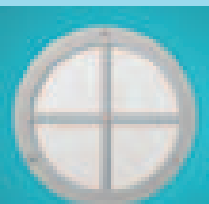
FRWL UD 90 P:92



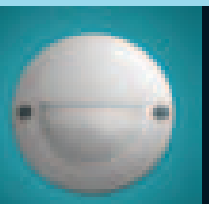
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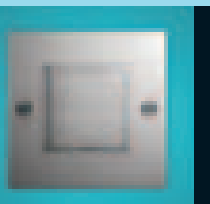
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FRWL IR 09 P:95



FRWL IR 12 P:96



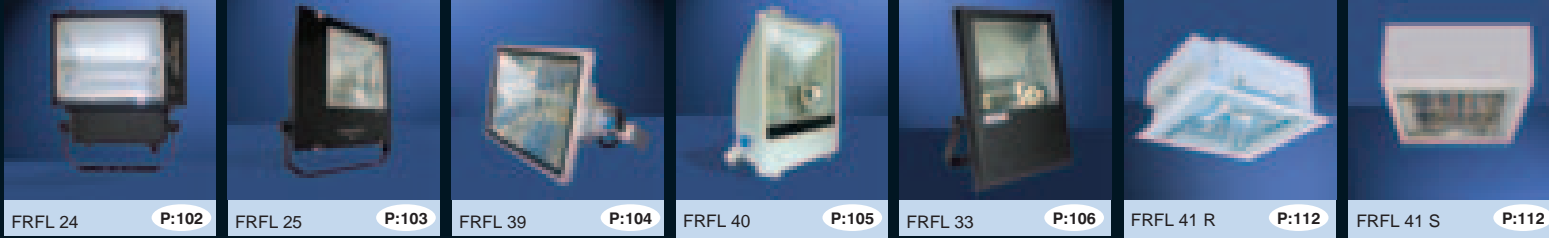
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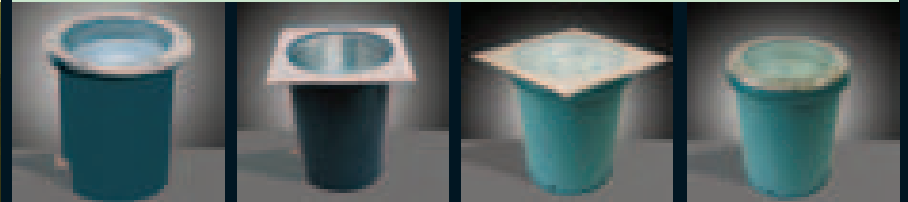
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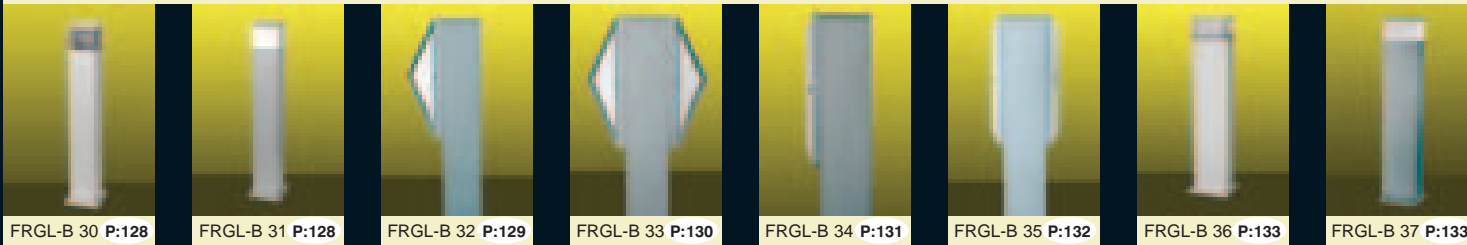
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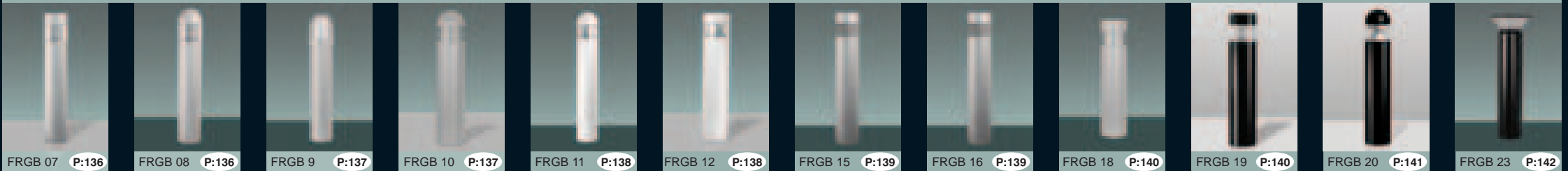
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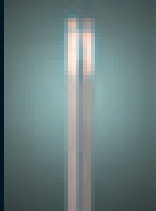
EXTERNAL

EXTERNAL

# INDEX

EXTERNAL

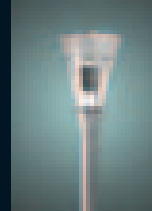
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CONTROL GEAR

## CONTROL GEAR ( Page 157-163 )



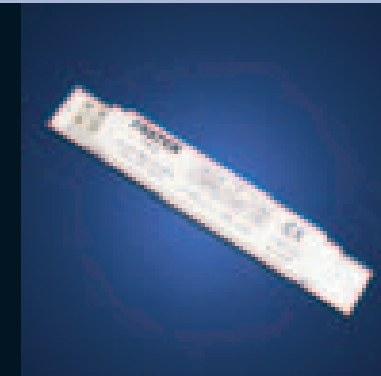
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65 / 70W BALLAST

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SLIM BALLAST

P:159



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ELECTRONIC TRANSFORMER

P:161



EMERGENCY BATTERY PACK

P:162

## TECHNICAL DATA ( Page 165 )

Luminance Values (cd/m <sup>2</sup> )	
Sun at Noon	16x10 <sup>4</sup>
Sun at sunset	6x10 <sup>4</sup>
Clear sky	8.000
Cloudy sky	2.000
Incandescent Lamp 60W clear Bulb	5x10 <sup>4</sup>
Incandescent Lamp 60W Opaque Bulb	5x10 <sup>4</sup>
Fluorescent Linear Lamp 18W	4.000

TECHNICAL DATA

P:165

C O N T E N T S



COMMERCIAL

INDUSTRIAL

DISPLAY

ARCHITECTURAL

EXTERNAL

CONTROL GEARS

Indirect Lighting

Modular Recessed

Modular Surfaced

Fluorescent Mirror Lights

Decorative Battens

Fluorescent Surface Mounted



## COMMERCIAL



### INDIRECT LIGHTING

FRATER FRIL series Can be used with Compact Fluorescent TC-L or high efficiency T5 Fluorescent lamp. These are modern design recessed luminaires which not only have attractive contemporary outlooks, but also provides a very soft, comfortable, and glare-free light effect. While allowing some portions of light transmit through the opal diffuser and the perforated reflector, the rest spills up to the white curve reflectors then reflects downward.

This series is suitable for metric modular ceiling systems with exposed/ concealed T-grids & Surface mounted / suspended application also.

**Application:** Suitable for general lighting applications in indoor areas like offices or commercial areas where soft glare free lighting is preferred.

**Material & Finish**

**Housing:** Made of CRCA sheet steel , all side powder coated with off white colour.

**Reflectors:** Gull wing reflectors formed in curved shape made of CRCA & powder coated for wider light distribution. Perforated panel with UV Stabilised opal diffuser provides soft light.

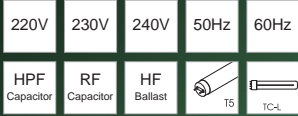
**Lampholder:** Polycarbonate housing with phosphor bronze contact.

**Wiring:** Internal wiring with PVC insulated single strand heat resistant wire (105°C)

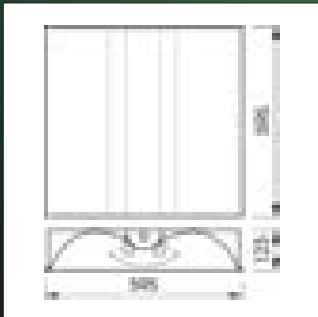
**FRATER**



OPTIONS

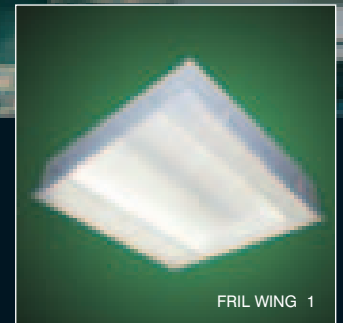


FRIL WING 2

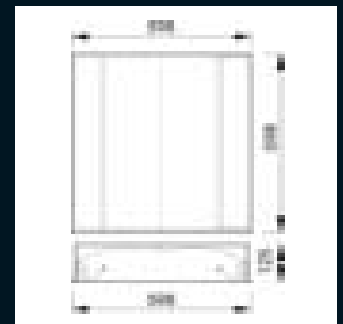


# INDIRECT LIGHTING

## FRIL - WING SERIES



FRIL WING 1



Model	Length	Lamp	Lampholder
FRIL-WING 1	598	2XTC-L 36W	2G11
FRIL-WING 1	598	2XTC-L 55W	2G11
FRIL-WING 1	598	2XT5 14W	G5
FRIL-WING 1	1198	2XT5 28W	G5
FRIL-WING 2	598	2XTC-L 36W	2G11
FRIL-WING 2	598	2XTC-L 55W	2G11
FRIL-WING 2	598	2XT5 14W	G5
FRIL-WING 2	1198	2XT5 28W	G5

**FRATER**

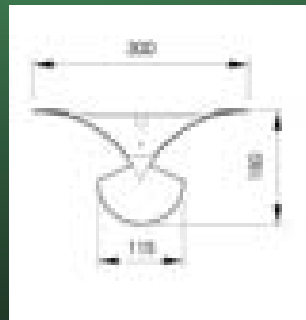


OPTIONS



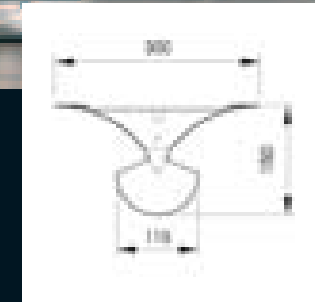
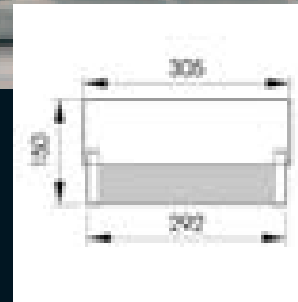
FRIL WING 3

Model	Lamp	Lamp holder	Length
FRIL-WING 3	2XTC-L 36W	2G11	600
FRIL-WING 3	1XTC-L 55W	2G11	600
FRIL-WING 3	2XTC-L 55W	2G11	600
FRIL-WING 3	1XT5 14W	G5	600
FRIL-WING 3	2XT5 14W	G5	600
FRIL-WING 3	2XT8 18W	G13	600
FRIL-WING 3	1XT5 28W	G5	1200
FRIL-WING 3	2XT5 28W	G5	1200
FRIL-WING 3	2XT8 36W	G13	1200



# INDIRECT LIGHTING

## FRIL - WING SERIES



Model	Lamp	Lamp holder
FRIL-WING 4	2XTC-S 9 / 11W	G 23
FRIL-WING 4	2XTC-D 13W	G 24d1
FRIL-WING 4	2XTC-D 18W	G 24d2
FRIL-WING 4	2XTC-D 26W	G 24d3
FRIL-WING 4	2XPLEU 20W / PLET 23W	E27

**FRATER**



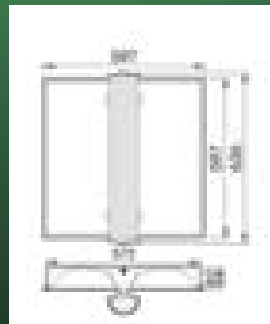
OPTIONS

220V 230V 240V 50Hz 60Hz



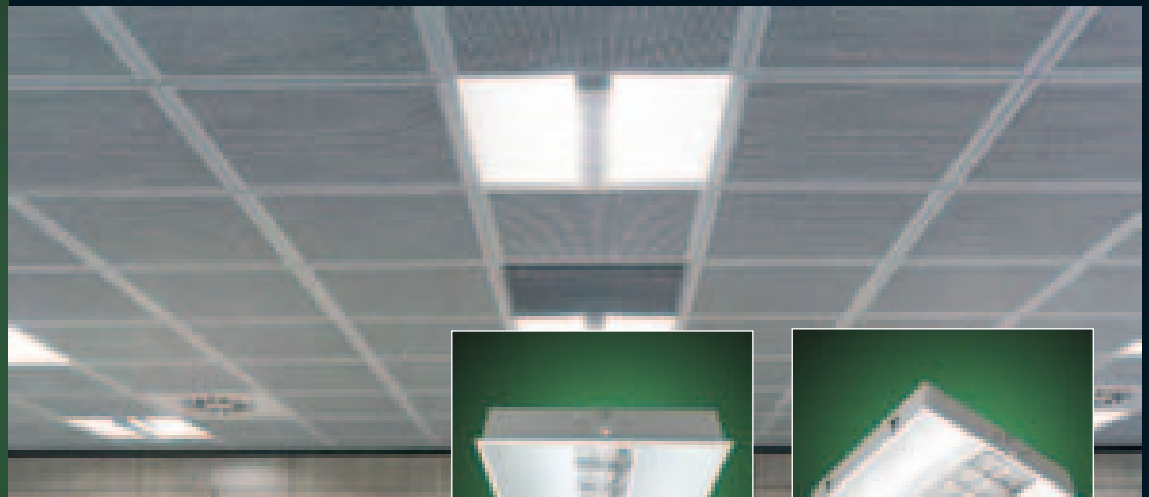
FRIL-WING 5

Model	Lamp	Lamp holder	Length
FRIL-WING 5	2XTC-L 36W	2G11	598
FRIL-WING 5	1XTC-L 55W	2G11	598
FRIL-WING 5	2XTC-L 55W	2G11	598
FRIL-WING 5	1XT5 14W	G5	598
FRIL-WING 5	2XT5 14W	G5	598
FRIL-WING 5	2XT8 18W	G13	598
FRIL-WING 5	1XT5 28W	G5	1198
FRIL-WING 5	2XT5 28W	G5	1198
FRIL-WING 5	2XT8 36W	G13	1198



# INDIRECT LIGHTING

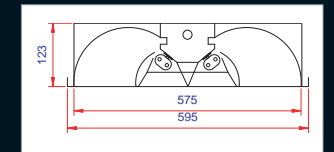
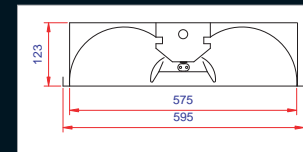
## FRIL - WING SERIES



FRIL- WING 6



FRIL- WING 7



Model	Lamp	Lamp holder
FRIL-WING 6	1XTC-L 36W	2G11
FRIL-WING 6	1XTC-L 55W	2G11
FRIL-WING 7	2XTC-L 36W	2G11
FRIL-WING 7	2XTC-L 55W	2G11
FRIL-WING 7	2XT5 14W	G5
FRIL-WING 7	2XT5 28W	G5

## COMMERCIAL



### MODULAR RECESSED & MODULAR SURFACE

Modular Recessed & Surface fluorescent luminaries are suitable for T5 & T8/T12 Fluorescent lamps. This can be operated by Electromagnetic or Electronic Ballast & can be installed in exposed/concealed T grid applications.

**Application:** Suitable for general lighting applications in indoor areas such as offices, computer rooms, schools, hospitals and commercial areas such as shops.

**Material finish:**

**Chassis:** Made of CRCA sheet steel, chemically cleaned, treated, phosphated & powder coated with RAL 9010 on both inside & outside to give high reflective surface finish.

**Ballast:** Energy efficient electromagnetic ballast, with Low energy loss, noiseless operation, low operating temperatures & minimum temperature rise. Electronic ballast optional.

**Lamp holders:** With G5/G13 base & body made of Flame-retardant poly carbonate plastic with phosphor bronze contact.

**Starter holders:** Made of Flame-retardant poly carbonate plastic with phosphor bronze contact.

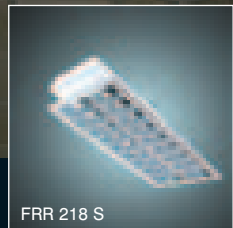
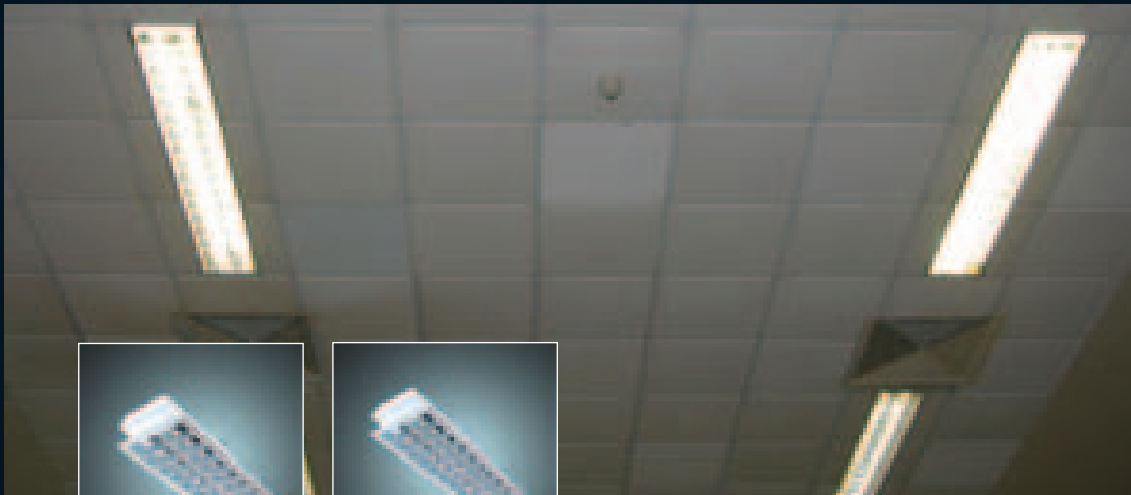
**Internal Wiring:** With PVC insulated, heat resistant (105°C) single strand Copper wire.

# MODULAR RECESSED

## FRR - STD SERIES

OPTIONS

		110V	220V	230V	240V	50Hz	60Hz
		RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter	Emergency Battery Pack	



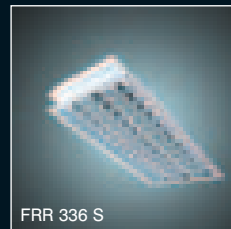
FRR 218 S



FRR 236 S



FRR 318 S



FRR 336 S



FRR 436 S

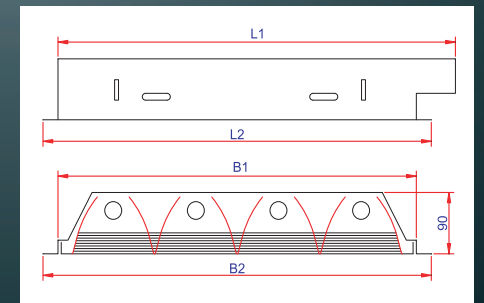


FRR 258 S

Model	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRR 218 S	2X18 W	610	596	260	296
FRR 236 S	2X36 W	1220	1197	260	296
FRR 258 S	2X58 W	1520	1497	260	296
FRR 318 S	3X18 W	610	596	560	596
FRR 336 S	3X36 W	1220	1197	560	596
FRR 358 S	3X58 W	1520	1497	560	596
FRR 418 S	4X18 W	610	596	560	596
FRR 436 S	4X36 W	1220	1197	560	596
FRR 458 S	4X58 W	1520	1497	560	596



FRR 418 S



The Louvre is made of high purity aluminium sheets with single parabolic shape and with ribbed cross blades. The louvre assembly is suspended in the chassis by anticorrosive wishbone springs. The luminaire is also available with back reflectors on request.

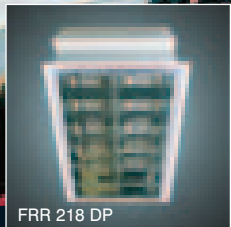
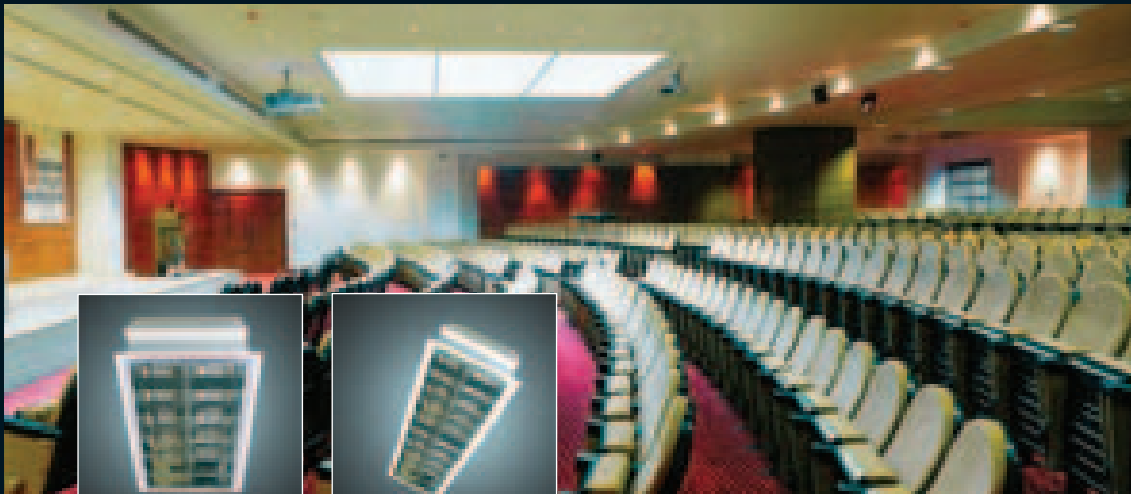


OPTIONS

		110V	220V	230V	240V	50Hz	60Hz
		RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter	Emergency Battery Pack	

# MODULAR RECESSED

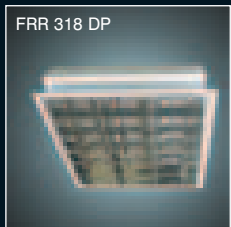
## FRR - DOUBLE PARABOLIC SERIES



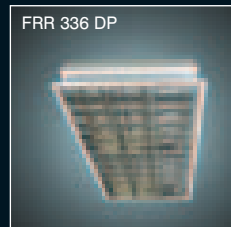
FRR 218 DP



FRR 236 DP



FRR 318 DP



FRR 336 DP

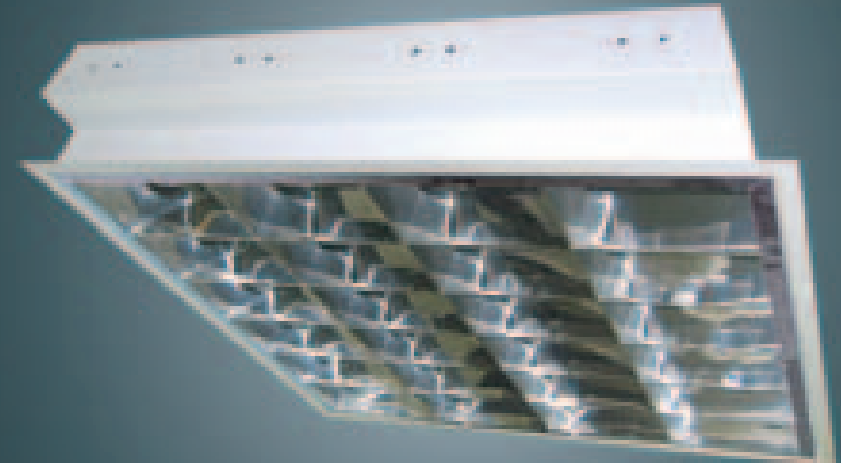


FRR 436 DP

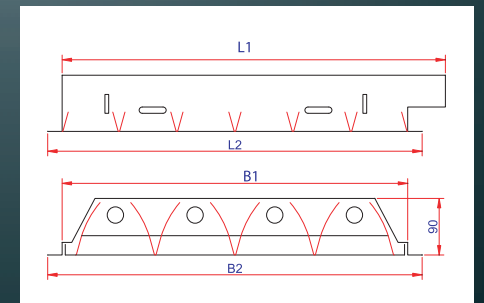


FRR 258 DP

Model	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRR 218 DP	2X18 W	610	596	260	296
FRR 236 DP	2X36 W	1220	1197	260	296
FRR 258 DP	2X58 W	1520	1497	260	296
FRR 318 DP	3X18 W	610	596	560	596
FRR 336 DP	3X36 W	1220	1197	560	596
FRR 358 DP	3X58 W	1520	1497	560	596
FRR 418 DP	4X18 W	610	596	560	596
FRR 436 DP	4X36 W	1220	1197	560	596
FRR 458 DP	4X58 W	1520	1497	560	596



FRR 418 DP



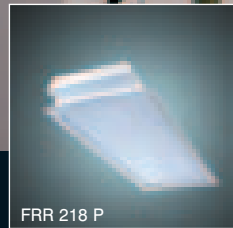
The Louvre and Reflector are made of pre-anodised high purity aluminium sheets, double parabolic formed with "v" shaped cross blades to achieve LG3 CAT 2. The louvre assembly is suspended in the chassis by anticorrosive wishbone springs. The luminaire is also available with back reflectors on request.



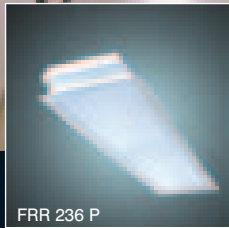
# MODULAR RECESSED

## FRR - PRISMATIC SERIES

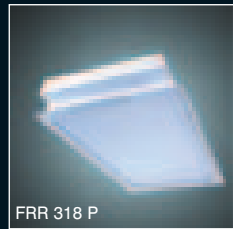
OPTIONS							
		110V	220V	230V	240V	50Hz	60Hz
Rapid Start Ballast	RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter	Emergency Battery Pack		



FRR 218 P



FRR 236 P



FRR 318 P



FRR 336 P

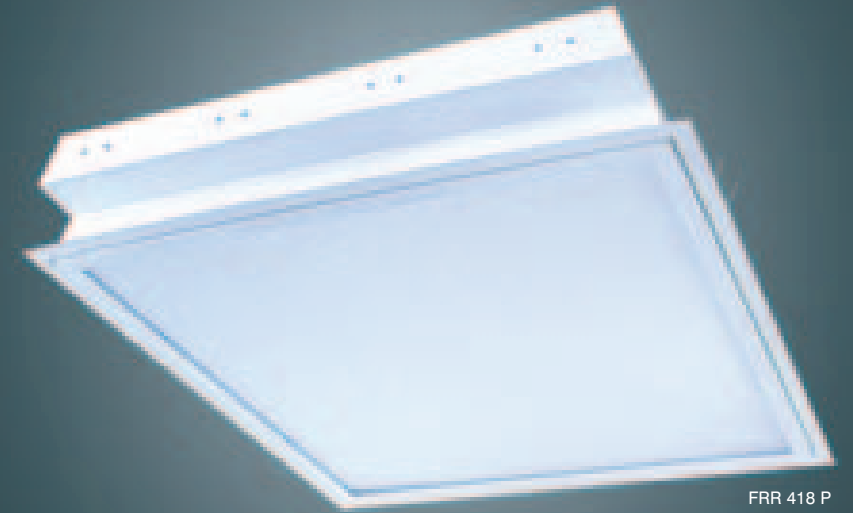


FRR 436 P

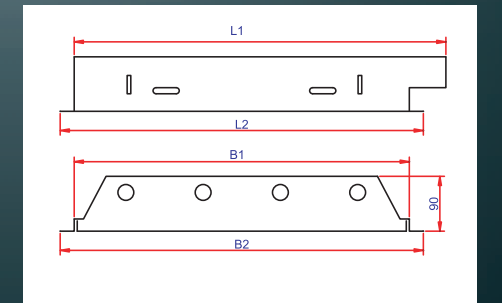


FRR 258 P

Model	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRR 218 P	2X18 W	610	596	260	296
FRR 236 P	2X36 W	1220	1197	260	296
FRR 258 P	2X58 W	1520	1497	260	296
FRR 318 P	3X18 W	610	596	560	596
FRR 336 P	3X36 W	1220	1197	560	596
FRR 358 P	3X58 W	1520	1497	560	596
FRR 418 P	4X18 W	610	596	560	596
FRR 436 P	4X36 W	1220	1197	560	596
FRR 458 P	4X58 W	1520	1497	560	596



FRR 418 P



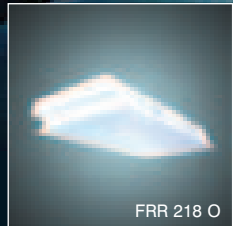
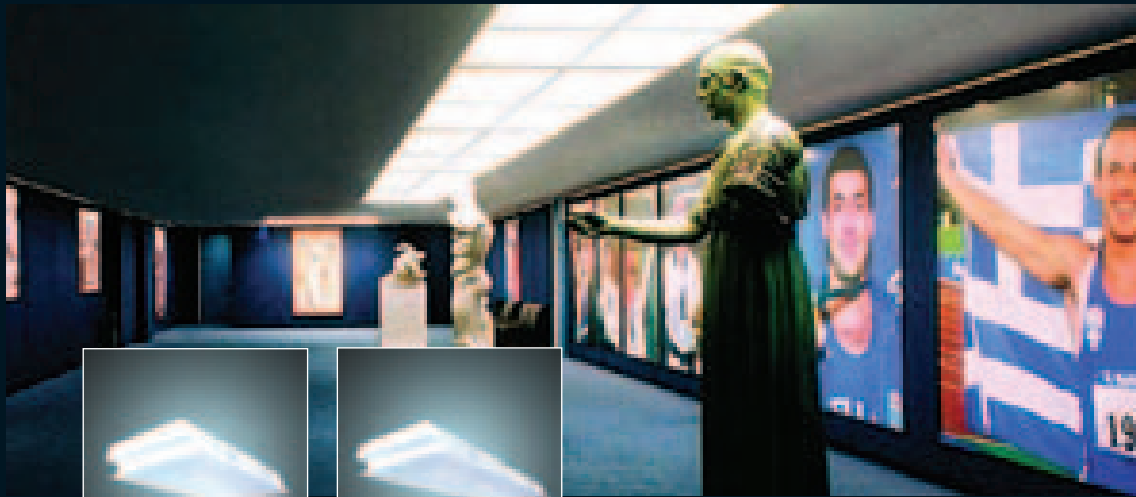
The diffuser is made of UV stabilised, non aging, clear acrylic PMMA/PS diffuser with prismatic pattern held in powder coated steel frame. Aluminium frame can also be provided on request. The diffuser assembly is suspended in the chassis by anticorrosive wishbone springs.



# MODULAR RECESSED

## FRR - OPAL SERIES

OPTIONS							
		110V	220V	230V	240V	50Hz	60Hz
Rapid Start Ballast	RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter	Emergency Battery Pack		



FRR 218 O



FRR 236 O



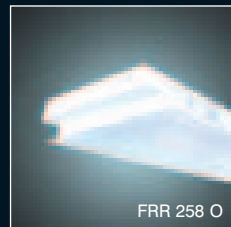
FRR 318 O



FRR 336 O



FRR 436 O

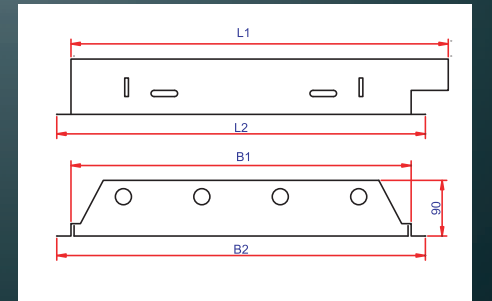


FRR 258 O

Model	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRR 218 O	2X18 W	610	596	260	296
FRR 236 O	2X36 W	1220	1197	260	296
FRR 258 O	2X58 W	1520	1497	260	296
FRR 318 O	3X18 W	610	596	560	596
FRR 336 O	3X36 W	1220	1197	560	596
FRR 358 O	3X58 W	1520	1497	560	596
FRR 418 O	4X18 W	610	596	560	596
FRR 436 O	4X36 W	1220	1197	560	596
FRR 458 O	4X58 W	1520	1497	560	596



FRR 418 O



Made of UV stabilised, non aging, acrylic (PMMA) with translucent opal white diffuser held in powder coated steel frame. Aluminium frame can also be provided on request. The diffuser assembly is suspended in the chassis by anticorrosive wishbone springs.

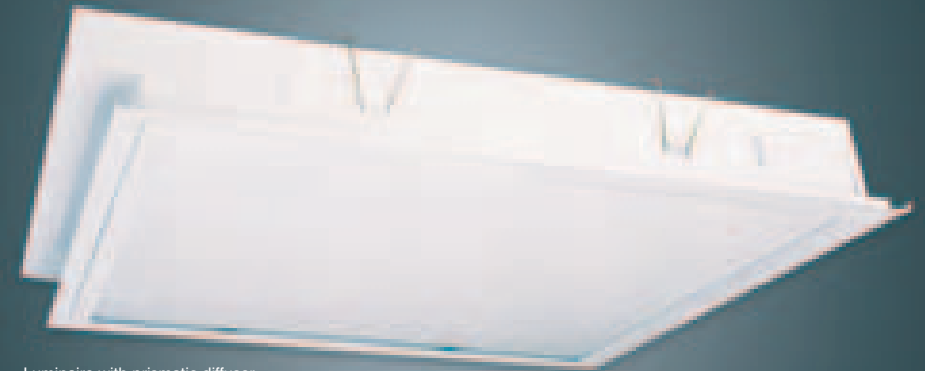
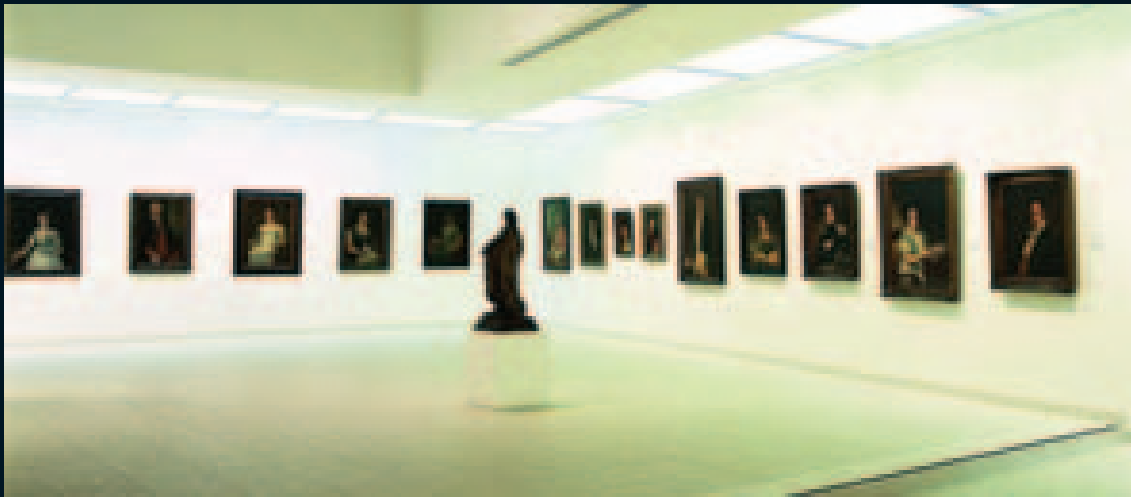


# MODULAR RECESSED

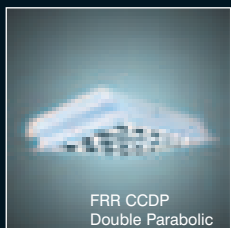
FRR- SERIES FOR CONCEALED METAL CEILINGS (DAMPA TYPE)

OPTIONS

		110V	220V	230V	240V	50Hz	60Hz
RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter	Emergency Battery Pack			

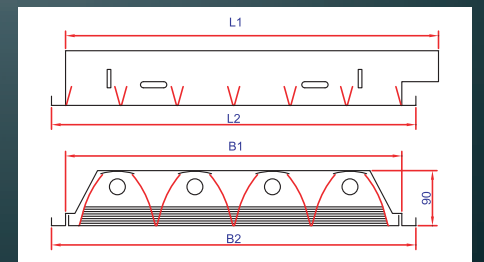


Luminaire with prismatic diffuser



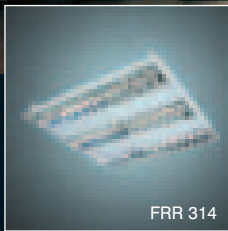
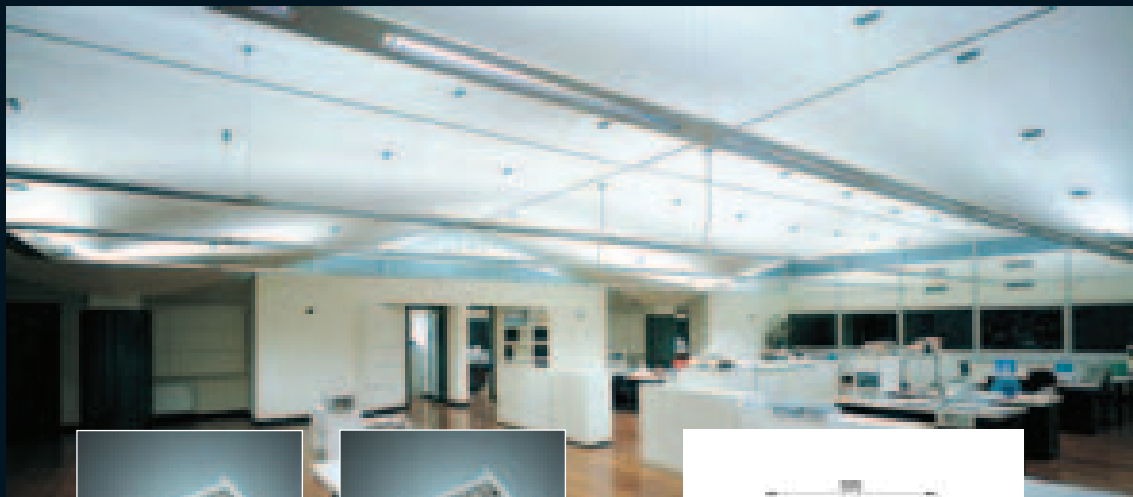
Model	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRR 218 CC	2X18 W	610	600	260	300
FRR 236 CC	2X36 W	1220	1200	260	300
FRR 258 CC	2X58 W	1520	1500	260	300
FRR 318 CC	3X18 W	610	600	560	600
FRR 336 CC	3X36 W	1220	1200	560	600
FRR 358 CC	3X58 W	1520	1500	560	600
FRR 418 CC	4X18 W	610	600	560	600
FRR 436 CC	4X36 W	1220	1200	560	600
FRR 458 CC	4X58 W	1520	1500	560	600

The luminaire is suitable for concealed ceiling and offers a variety of Louvre, & Diffuser combinations. The options are with standard louvre (IP20), Double parabolic LG3 CAT2 (IP20), Back reflector (IP20), Prismatic Diffuser (IP40) and Opal Diffuser (IP40). The louvre / diffuser assembly is suspended in the Chassis by anticorrosive wishbone springs. The luminaire is available with Rapid Start Ballast as an option with OPAL & PRISMATIC Diffusers.



# MODULAR RECESSED

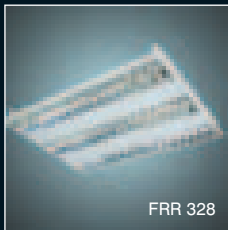
## FRR- SERIES FOR T5 LAMPS



FRR 314



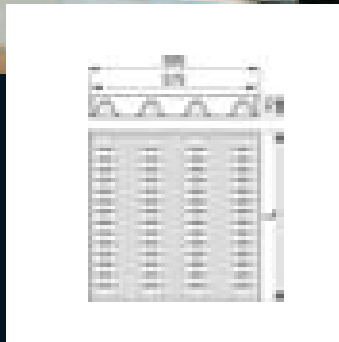
FRR 414



FRR 328



FRR 428

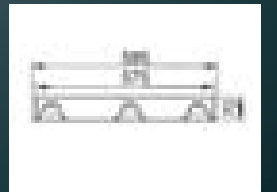
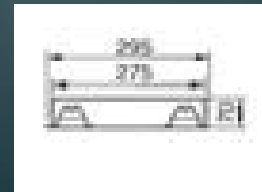


Model	Lamps	Length L in mm
FRR 214	2X14 W	595
FRR 228	2X28 W	1195
FRR 314	3X14 W	595
FRR 328	3X28 W	1195
FRR 414	4X14 W	595
FRR 428	4X28 W	1195



FRR 414 DP

The luminaire is suitable for Modular Metric ceiling and offers a variety of Louvre & Diffuser combinations. The options are with Double parabolic LG3 CAT2 (IP20).



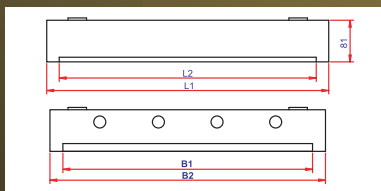
**FRATER**



OPTIONS



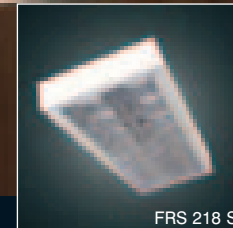
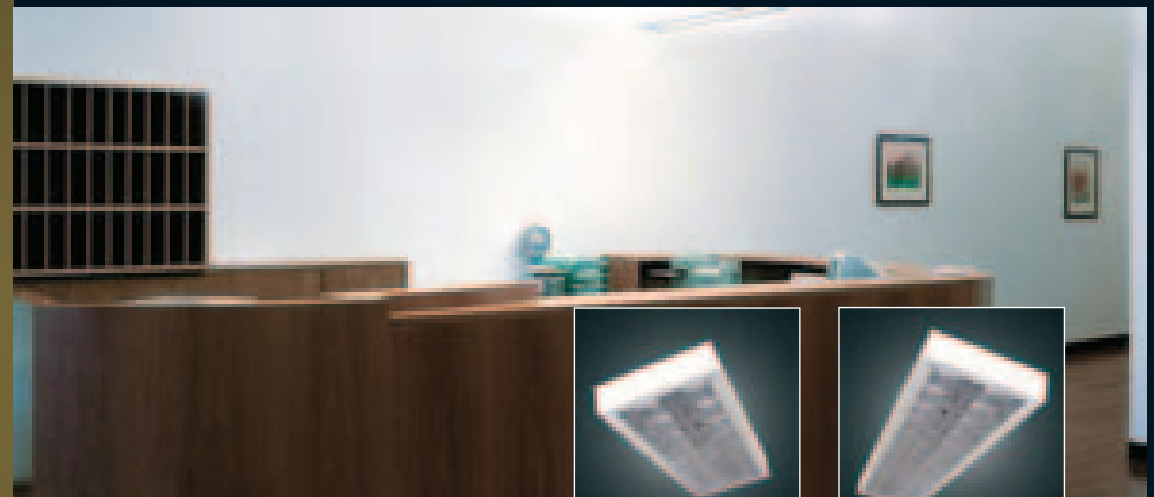
FRS 418 S



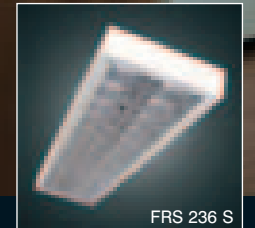
The louvres are made of high purity aluminium sheets with single parabolic shapes and serrated cross blades. The louvre system is suspended to the chassis by anticorrosive wishbone springs. The lumininaire is also available with back reflectors on request

# MODULAR SURFACE

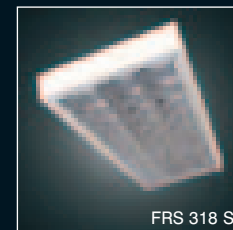
## FRS - STD LOUVRE SERIES



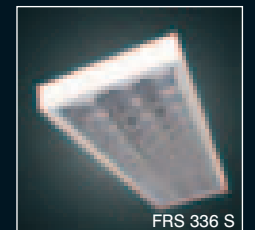
FRS 218 S



FRS 236 S



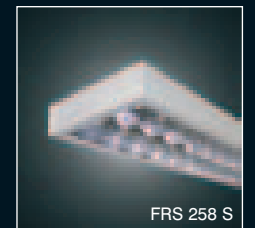
FRS 318 S



FRS 336 S



FRS 436 S



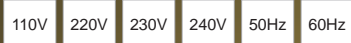
FRS 258 S

Type	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRS 218 S	2X18 W	610	596	260	296
FRS 236 S	2X36 W	1220	1197	260	296
FRS 258 S	2X58 W	1520	1497	260	296
FRS 318 S	3X18 W	610	596	560	596
FRS 336 S	3X36 W	1220	1197	560	596
FRS 358 S	3X58 W	1520	1497	560	596
FRS 418 S	4X18 W	610	596	560	596
FRS 436 S	4X36 W	1220	1197	560	596
FRS 458 S	4X58 W	1520	1497	560	596

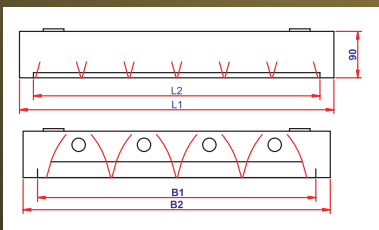
**FRATER**



OPTIONS



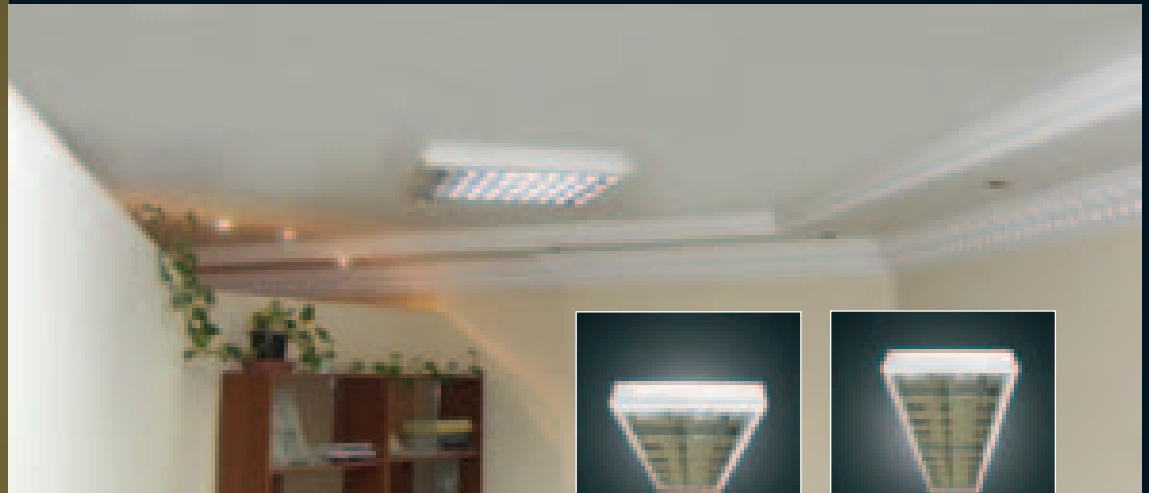
FRS 418 DP



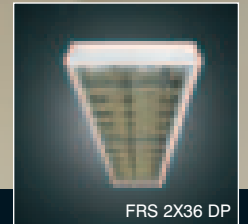
The Louvers are made of high purity aluminium sheets, double parabolic formed and with "v" shaped cross blades to achieve LG3 CAT 2. The louvre assembly is suspended in the chassis by anticorrosive wishbone springs. The luminaire is also available with black reflectors on request.

# MODULAR SURFACE

## FRS - DOUBLE PARABOLIC SERIES



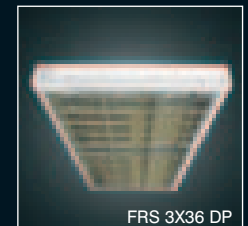
FRS 218 DP



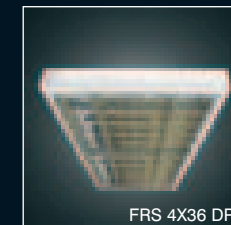
FRS 2X36 DP



FRS 3X18 DP



FRS 3X36 DP



FRS 4X36 DP



FRS 2X58 DP

Type	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRS 218 DP	2X18 W	610	596	260	296
FRS 236 DP	2X36 W	1220	1197	260	296
FRS 258 DP	2X58 W	1520	1497	260	296
FRS 318 DP	3X18 W	610	596	560	596
FRS 336 DP	3X36 W	1220	1197	560	596
FRS 358 DP	3X58 W	1520	1497	560	596
FRS 418 DP	4X18 W	610	596	560	596
FRS 436 DP	4X36 W	1220	1197	560	596
FRS 458 DP	4X58 W	1520	1497	560	596

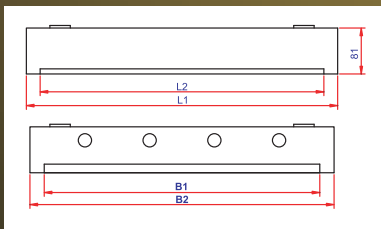
**FRATER**



OPTIONS



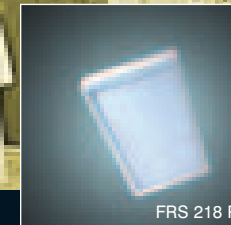
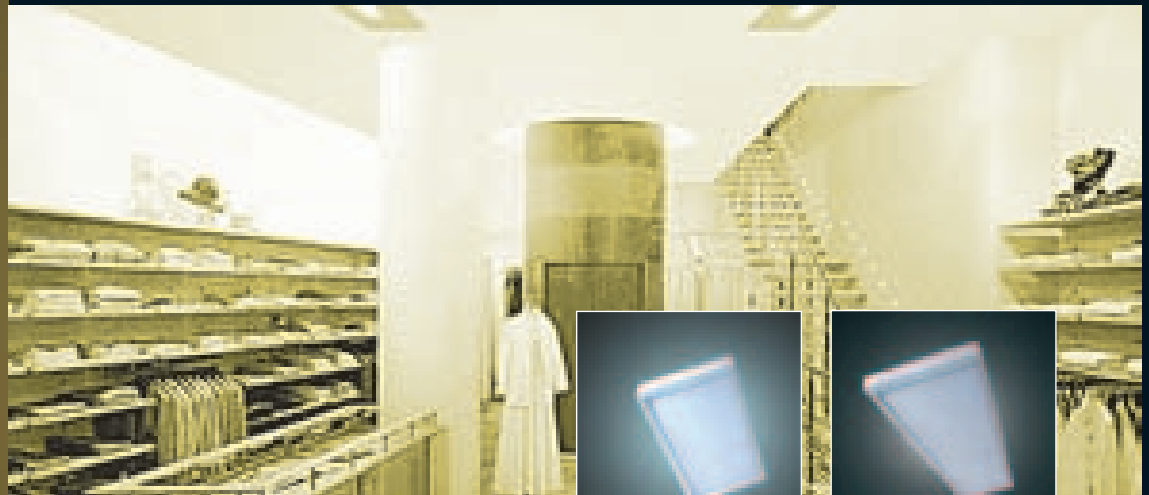
FRS 418 P



Diffuser is made of UV stabilised, non aging, clear acrylic (PMMA) with translucent opal white diffuser held in powder coated steel frame. The diffuser assembly is suspended to the chassis by anticorrosive wishbone springs.

# MODULAR SURFACE

## FRS - PRISMATIC SERIES



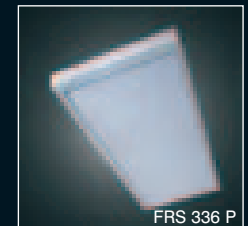
FRS 218 P



FRS 236 P



FRS 318 P



FRS 336 P



FRS 436 P



FRS 258 P

Type	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRS 218 P	2X18 W	610	596	260	296
FRS 236 P	2X36 W	1220	1197	260	296
FRS 258 P	2X58 W	1520	1497	260	296
FRS 318 P	3X18 W	610	596	560	596
FRS 336 P	3X36 W	1220	1197	560	596
FRS 358 P	3X58 W	1520	1497	560	596
FRS 418 P	4X18 W	610	596	560	596
FRS 436 P	4X36 W	1220	1197	560	596
FRS 458 P	4X58 W	1520	1497	560	596

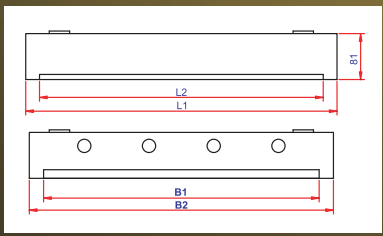
**FRATER**



OPTIONS



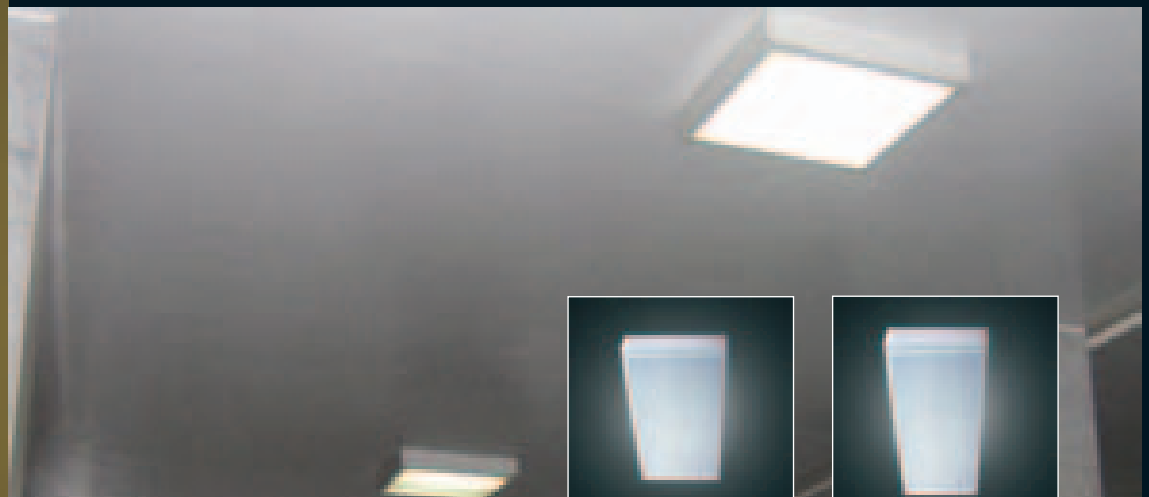
FRS 418 O



Diffuser is made of UV stabilised, non ageing, clear acrylic (PMMA) with translucent opal white diffuser held in powder coated steel frame. The diffuser assembly is suspended to the chassis by anticorrosive wishbone springs.

# MODULAR SURFACE

## FRS - OPAL SERIES



FRS 218 O



FRS 236 O



FRS 318 O



FRS 336 O



FRS 436 O



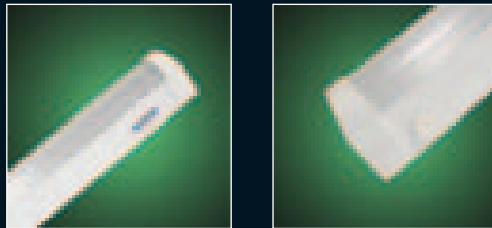
FRS 258 O

Type	Lamps	Dimensions in mm			
		L1	L2	B1	B2
FRS 218 O	2X18 W	610	596	260	296
FRS 236 O	2X36 W	1220	1197	260	296
FRS 258 O	2X58 W	1520	1497	260	296
FRS 318 O	3X18 W	610	596	560	596
FRS 336 O	3X36 W	1220	1197	560	596
FRS 358 O	3X58 W	1520	1497	560	596
FRS 418 O	4X18 W	610	596	560	596
FRS 436 O	4X36 W	1220	1197	560	596
FRS 458 O	4X58 W	1520	1497	560	596



COMMERCIAL BANK OF DUBAI

## COMMERCIAL



### MIRROR LIGHTS

“Mirolita” FRM Series are suitable for T5, or T8, fluorescent lamp operated by HF or Electromagnetic ballast.

**Application:** The Luminaire are suitable for use in ceiling mounted / wall mounted applications and can be used in offices, home, schools, hospitals, under cabinet & commercial areas .

**Material & Finish :**

**Housing:** Made of powder coated,extruded aluminum with RAL 9010 Powder coating.

**Diffuser:** Impact resistant PMMA provides for uniform light distribution.

**Ballast :** Slim construction, Low energy loss, noiseless operation, low operating temperatures, minimum temperature rise.

**Reflector:** High purity aluminum reflector for improved light output ratio.

**Lamp & Starter holders :** Flame-retardant polycarbonate plastic with phosphor bronze contacts.

**Wiring :** PVC insulated single strand heat resistant wire that can withstand a temperature up to 105<sup>o</sup>C.

**FRATER**

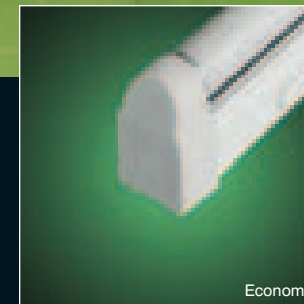
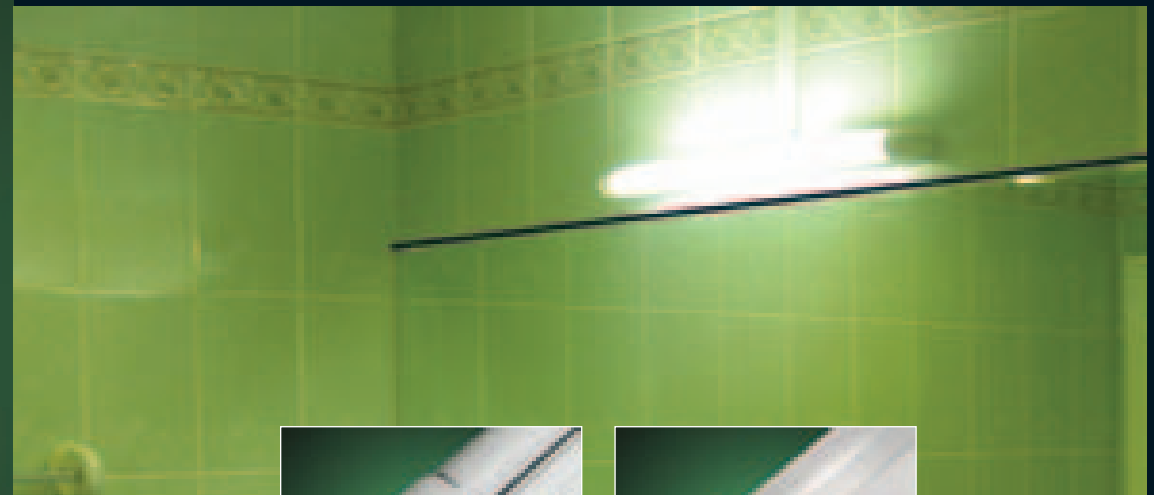


OPTIONS

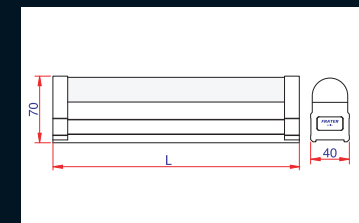


# FLOURSCENT LUMINAIRE

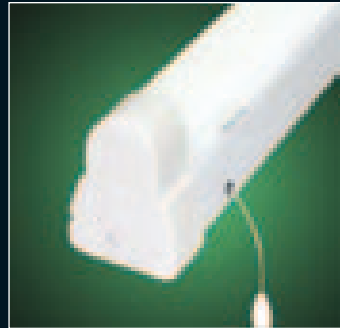
MIRROR LIGHT - FRM SERIES



Models	Lamps	L mm
FRM 108	T5 1X8 W	315
FRM 114	T5 1X14 W	575
FRM 128	T5 1X28 W	1175
FRM 118	T8 1X18 W	625
FRM 130	T8 1X30 W	935
FRM 136	T8 1X36 W	1235



## COMMERCIAL



### DECORATIVE BATTEN

Decolita FRD series is suitable for use with T8,18W/30W fluorescent lamp. These fixtures are designed for applications such as mirror light.

**Application:** The Luminaire are suitable for use in offices, home, schools, hospitals, under cabinet & commercial areas .

**Material & Finish :**

**Housing:** Roll formed PPGI Steel with RAL 9016 coating on external surface & with RAL 7038 on internal surface.

**Diffuser:** UV stabilised, Reeded, impact resistant PMMA provides uniform light distribution.

**End Caps:** Both & outer endcaps are made of flame retardent polymide66 plastic of "V0" grade the inner endcap ensures easy assembly of the lampholders & the outer one provides support to the diffuser

**Lamp Holders:** With G1 base and body made of flame retardent polycarbonate plastic with phospher bronze contact.

**Starter Holders:** Made of flame-retardent polycarbonate plastic bronze contact.

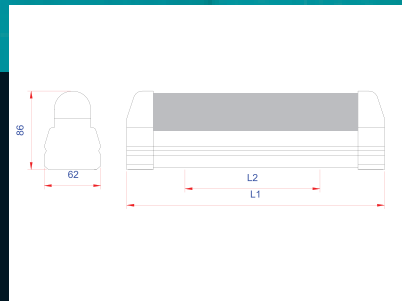
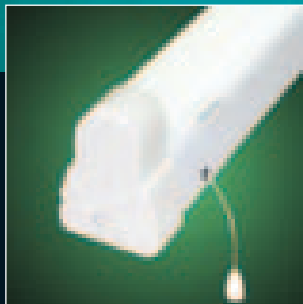
**Internal Wiring:** PVC insulated heat resistant 105°C single strandcopper wire

**Switch:** Optional switch with pull cord is provided for easy access when used as reading lights and undercabinat lights.



OPTIONS

220V	230V	240V	50Hz	60Hz
RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter	Emergency Battery Pack



Model	Lamps	Length in mm	
		L1	L2
FRD 118	1X18W	620	415
FRD 130	1X30W	930	725



## COMMERCIAL



### SURFACE MOUNTED

Frater surface mounted Luminaire suitable for single & twin T5 / T8 fluorescent lamps operated by HF or Electromagnetic ballast.

**Application:** Suitable for general indoor lighting applications such as offices, schools, hospitals and commercial complex.

**Material & Finish:**

**Metal Tray:** CRCA steel sheet with UV stabilised protected powder coating both inside and outside.

**Diffuser:** UV stabilised polystyrene prismatic diffuser with reeded sides for glare reduction.

**Ballast:** Energy efficient electromagnetic ballast with low energy loss, noiseless operation, low operating temperature, minimum temperature rise.

**Lamp & Starter holders:** Flame-retardant polycarbonate plastic with phosphor bronze contacts.

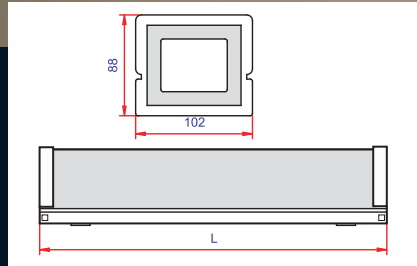
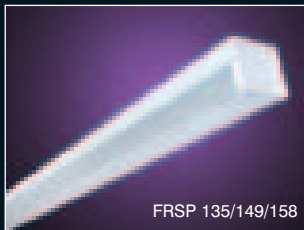
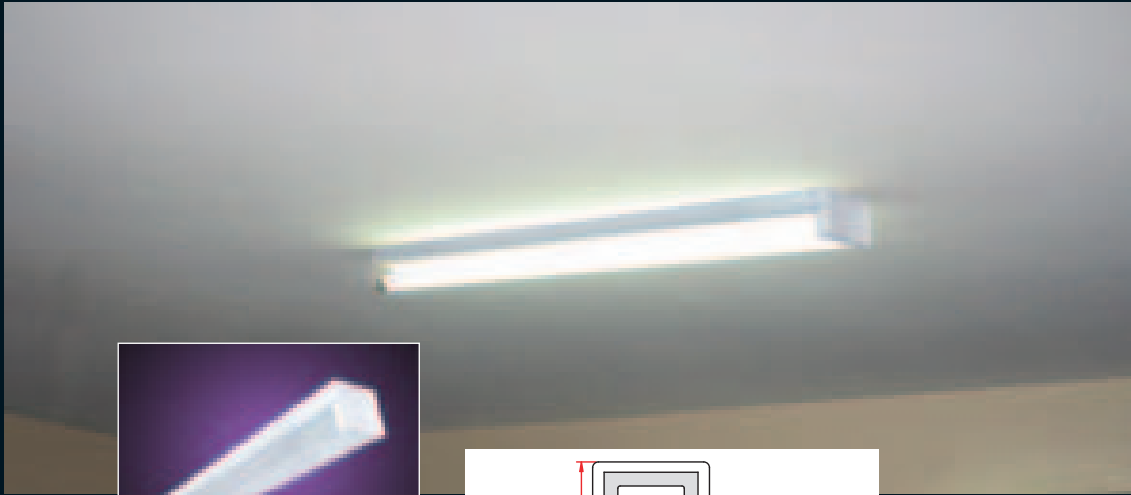
**Wiring :** PVC insulated single strand heat resistant wire that can withstand a temperature up to 105°C.

# SURFACE MOUNTED

## FRSP - PRISM SERIES

OPTIONS

			110V	220V	230V	240V	50Hz	60Hz
 T5	 T8	 T12	RF Capacitor	HPF Capacitor	HF Ballast	Rapid Start Ballast	DEO Starter	Emergency Battery Pack



Also available with 24W T5 lamps.

Model	Lamps	Length in mm ( L )
FRSP 114	T5 1X14 W	635
FRSP 128	T5 1X28 W	1235
FRSP 135	T5 1X35 W	1535
FRSP 149	T5 1X49 W	1535
FRSP 154	T5 1X54 W	1535
FRSP 118	T8 1X18 W	635
FRSP 136	T8 1X36 W	1235
FRSP 158	T8 1X58 W	1535

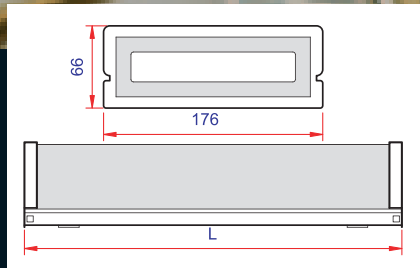
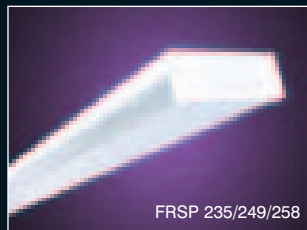
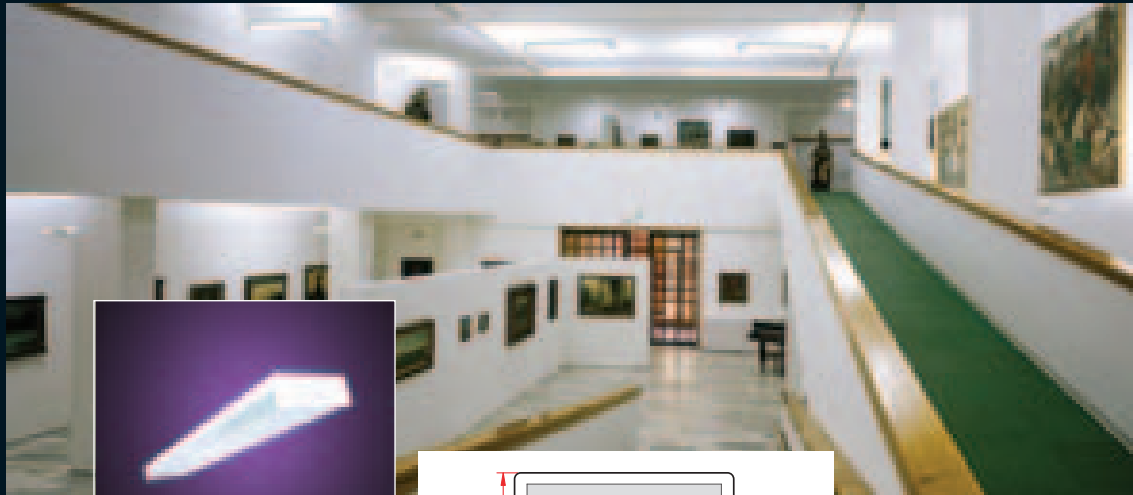


# SURFACE MOUNTED

## FRSP - PRISM SERIES

OPTIONS

			110V	220V	230V	240V	50Hz	60Hz
			RF Capacitor	HPF Capacitor	HF Ballast	Rapid Start Ballast	DEO Starter	Emergency Battery Pack



Model	Lamps	Length in mm ( L )
FRSP 214	T5 2X14 W	635
FRSP 228	T5 2X28 W	1235
FRSP 235	T5 2X35 W	1535
FRSP 249	T5 2X49 W	1535
FRSP 254	T5 2X54 W	1535
FRSP 218	T8 2X18 W	635
FRSP 236	T8 2X36 W	1235
FRSP 258	T8 2X58 W	1535

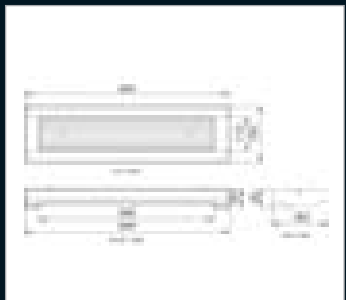
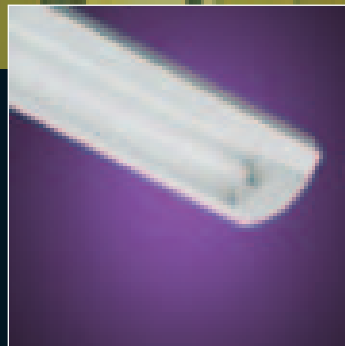
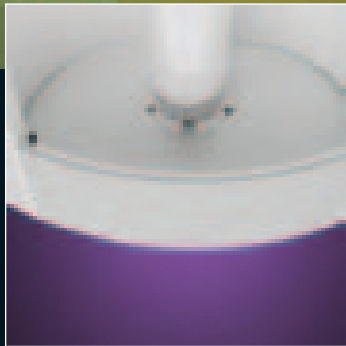
Also available with 24W T5 lamps.



110V	220V	230V	240V	50Hz	60Hz
		RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter

# SURFACE MOUNTED

## FRS - SLIM SERIES



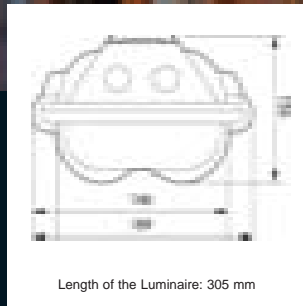
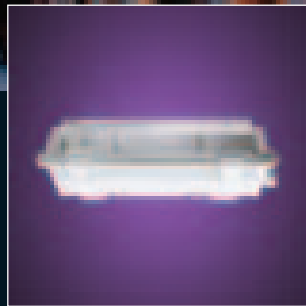
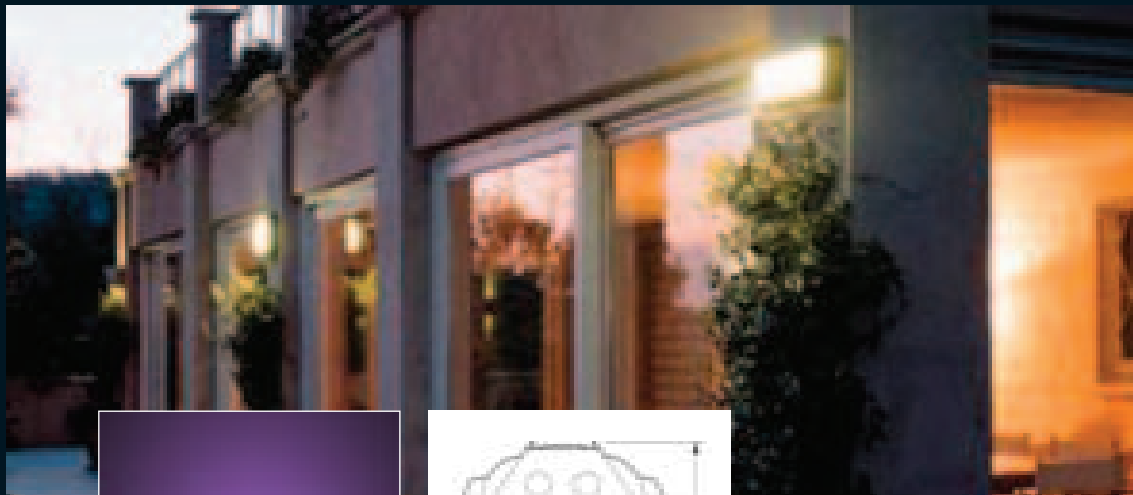
Model	Lamp	Lamp holder
FRSS 118	1XT8 18W	G13
FRSS 218	2XT8 18W	G13
FRSS 136	1XT8 36W	G13
FRSS 236	2XT8 36W	G13
FRSS 114	1XT5 14W	G5
FRSS 214	2XT5 14W	G5
FRSS 128	1XT5 28W	G5
FRSS 228	2XT5 28W	G5



This slim surface mounted / ceiling suspended luminaire are suitable for T8 or T5 fluorescent lamps. It comes with white powder coated sheet steel or aluminium back reflectors with total reflectance more than 87%. An optional version with a front perforated steel reflector can also be added to create a soft light effect. The sleeker plastic end-cap and end-cover make the luminaire easy to install and maintain. Can also be provided with an OPAL diffuser for glare reduction.

# SURFACE MOUNTED

## FRS - TOPAZ SERIES



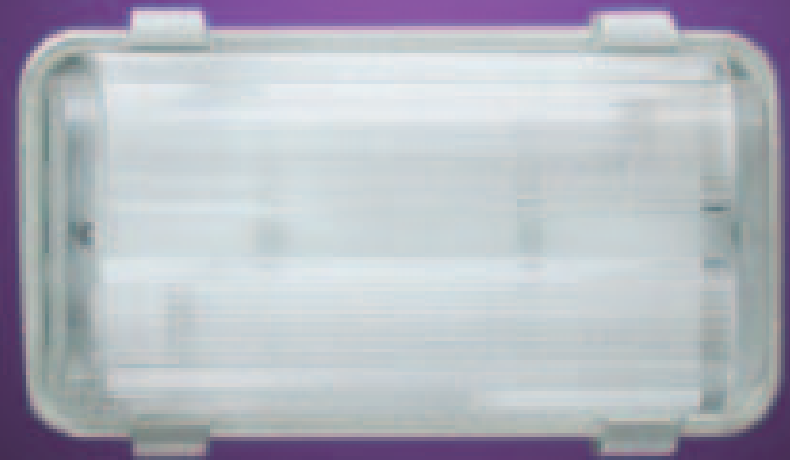
Model	Lamp	Lamp holder
FRS-TPZ 211	2XTC-S 9 / 11W	G 23
FRS-TPZ 213	2XTC-D 13W	G 24d1
FRS-TPZ 218	2XTC-D 18W	G 24d2
FRS-TPZ 226	2XTC-D 26W	G 24d3
FRS-TPZ 220	2XPLEU 20W	E27
FRS-TPZ 223	2X PLET 23W	E27

FRATER®



OPTIONS

110V	220V	230V	240V	50Hz	60Hz	
PLE-U	PLE-T	TC-D	TC-S	RF Capacitor	HPF Capacitor	HF Ballast

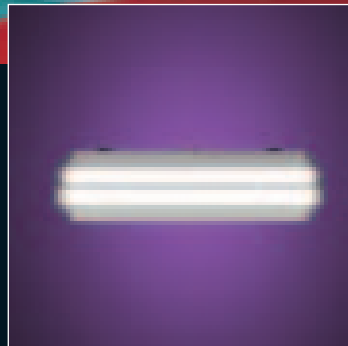
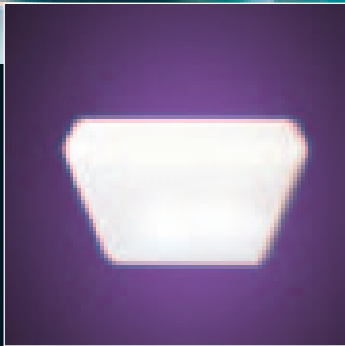


FRS TPZ 226

		110V	220V	230V	240V	50Hz	60Hz
Emergency Battery Pack	TC-D	TC-L	TC-S	RF Capacitor	HPF Capacitor	HF Ballast	DEO Starter

# SURFACE MOUNTED

## FRS - ELEGANT SERIES



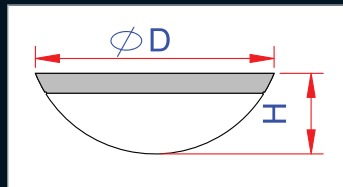
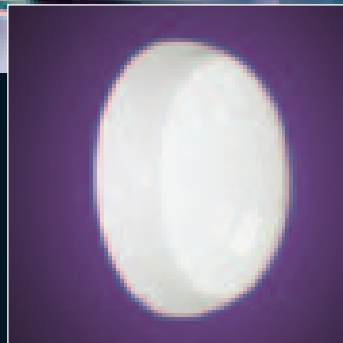
Model	Lamp	Lamp holder
FRS ELG 211	2XTC-S 11W	G23
FRS ELG 218	2XTC-L 18W	2G11
FRS ELG 218	2XTC-D 18W	G24d2
FRS ELG 226	2XTC-D 26W	G24d3



The octahedron shaped, surface mounted luminaire with milky acrylic diffuser is suitable for TC-S or TC-D lamps. It gives a soft and uniform light output, which is very suitable for residential or relaxation areas. This Luminaire can also be supplied with "2D" Lamps.

# SURFACE MOUNTED

## FRS - OMEGA SERIES



Type	D	H	Lamp	Lamp Holder
FRS 118 OM2	320	100	1X18W TCS	G24
FRS 218 OM2	320	100	2X18W TCS	G24
FRS 126 OM2	320	100	1X26W TCS	G24
FRS 116 OM2	320	100	16W 2D	GR10q
FRS 128 OM2	320	100	28W 2D	GR10q
FRS 138 OM2	320	100	38W 2D	GR10q

FRATER®



OPTIONS



The special features of OMEGA Surface mounted Luminaire are its sleek design & compliance with IP54 rating. The standard pack of this Luminaire is supplied with POLYCARBONATE HOUSING & POLYCARBONATE OPAL DIFFUSER with UV stabilized properties. The Luminaire can also be supplied with "2D Lamps" & Emergency Battery Back up with 2X18W HF Ballast only.

