

C O N T E N T S



COMMERCIAL  
**INDUSTRIAL**

DISPLAY  
ARCHITECTURAL  
EXTERNAL  
CONTROL GEARS

Fluorescent Battens  
Fluorescent Weather proof  
High Bays



## INDUSTRIAL



### FLUORESCENT BATTENS

FRATER fluorescent Battens that conforms to EN 60598 & IEC 598 are suitable for T5 & T8/T12 fluorescent lamps in single double & triple tube versions. They can be operated by both Electronic & Electromagnetic ballast that can be used in both suspended or Surface mounted application.

**Application:** Suitable for general lighting applications in indoor areas like offices, schools, hospitals and commercial areas like shops.

**Material & Finish:**

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

**Ballast:** Energy efficient electromagnetic ballast, with Low energy loss, noiseless operation, low operating temperatures & minimum temperature rise for T8 / T12 version

**End Caps:** Made of Poly Amide 66 (PA 66) plastic of "V0" grade. Allows easy assembly of the Lamp holders.

**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 (1050C) single strand Copper wire.

**FRATER**

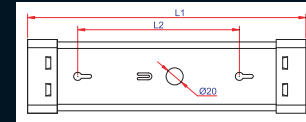
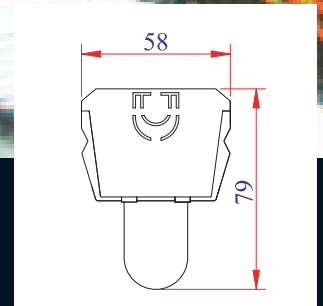
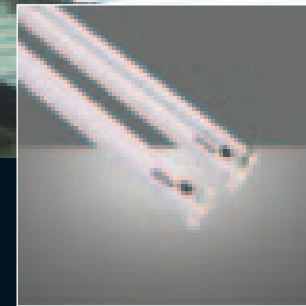
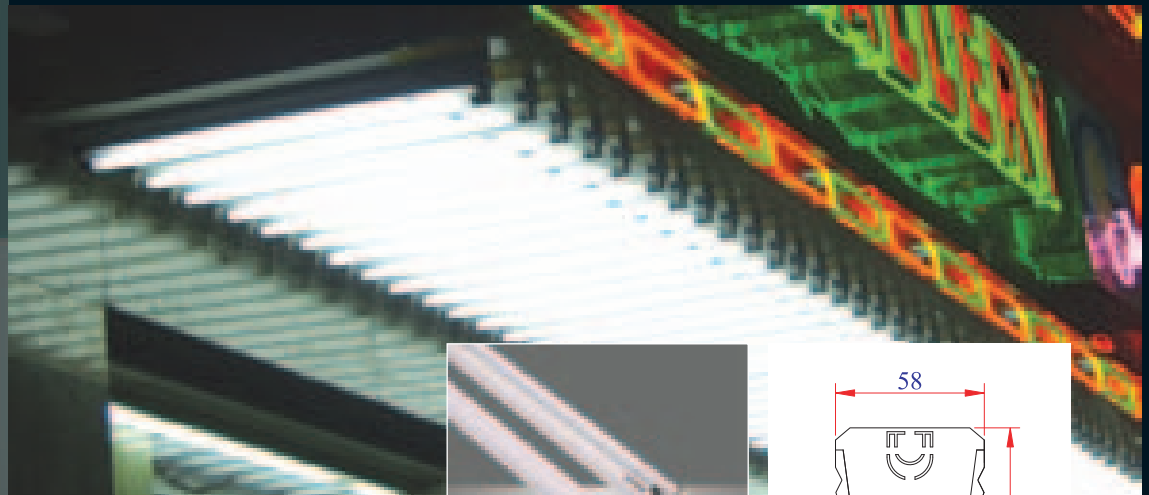


OPTIONS



# FLUORESCENT BATTENS

FRB - SINGLE TUBE SERIES



Integrated emergency battery pack is not available in 18W & 30W versions. Pull cord switch is optional.

Model	Lamps	Dimensions in mm	
		L1	L2
FRB 118	1X18 W	615	415
FRB 130	1X30 W	925	725
FRB 136	1X36 W	1225	1025
FRB 158	1X58 W	1525	1325
FRB 170	1X75 W	1825	1625

**FRATER**

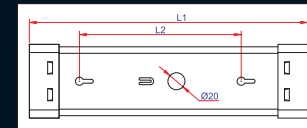
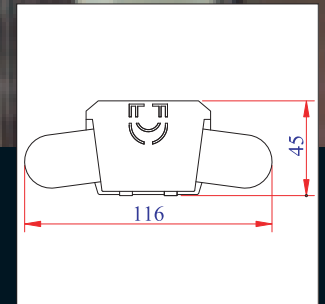
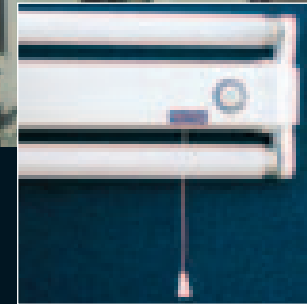
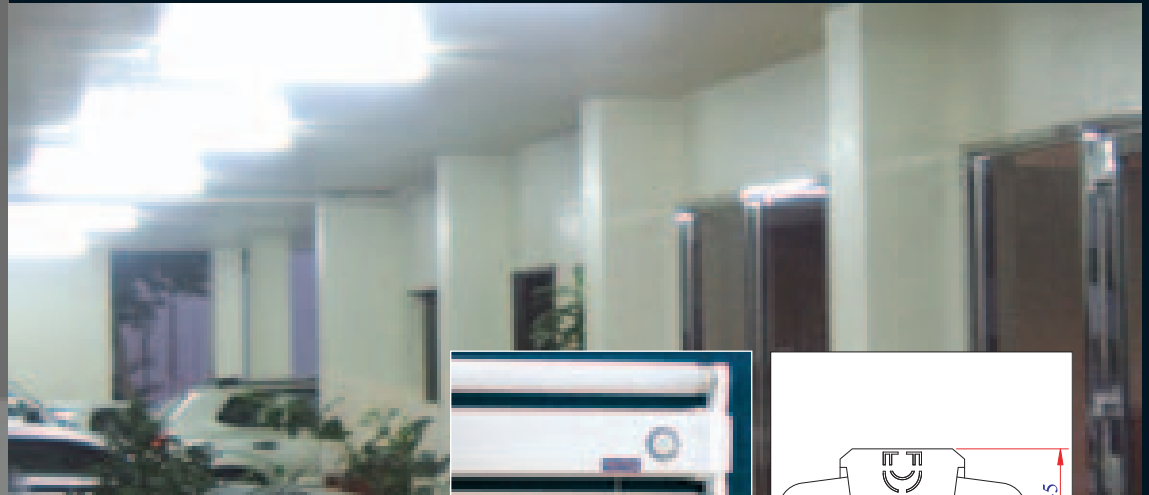


OPTIONS



# FLUORESCENT BATTENS

FRB - TWIN TUBE SERIES



Integrated emergency battery pack is not available in 18W & 30W versions. Pull cord switch is optional.

Model	Lamps	Dimensions in mm	
		L1	L2
FRB 218	2X18 W	615	415
FRB 230	2X30 W	925	725
FRB 236	2X36 W	1225	1025
FRB 258	2X58 W	1525	1325
FRB 270	2X75 W	1825	1625

**FRATER**

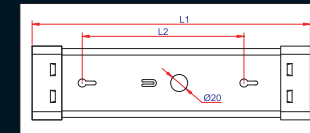
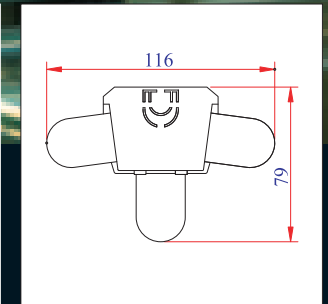
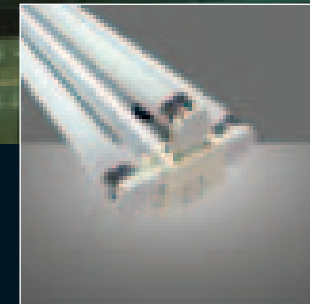
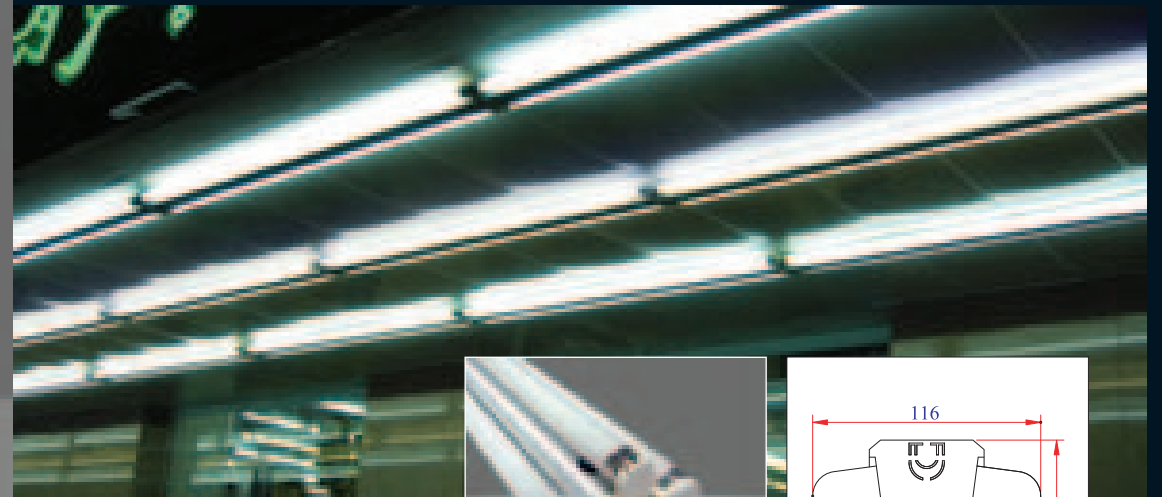


OPTIONS



# FLUORESCENT BATTENS

FRB - TRIPLE TUBE SERIES



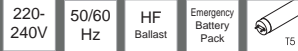
Integrated emergency battery pack is not available in 18W & 30W versions. Pull cord switch is optional.

Model	Lamps	Dimensions in mm	
		L1	L2
FRB 318	3X18 W	615	415
FRB 330	3X30 W	925	725
FRB 336	3X36 W	1225	1025
FRB 358	3X58 W	1525	1325
FRB 370	3X70 W	1825	1625

**FRATER**

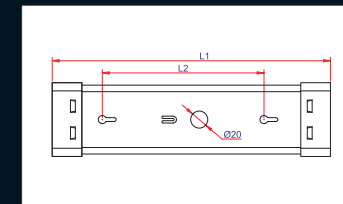
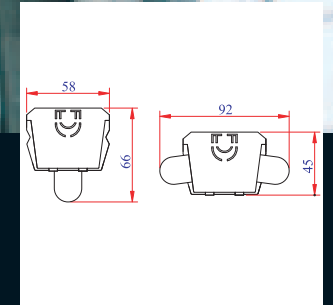
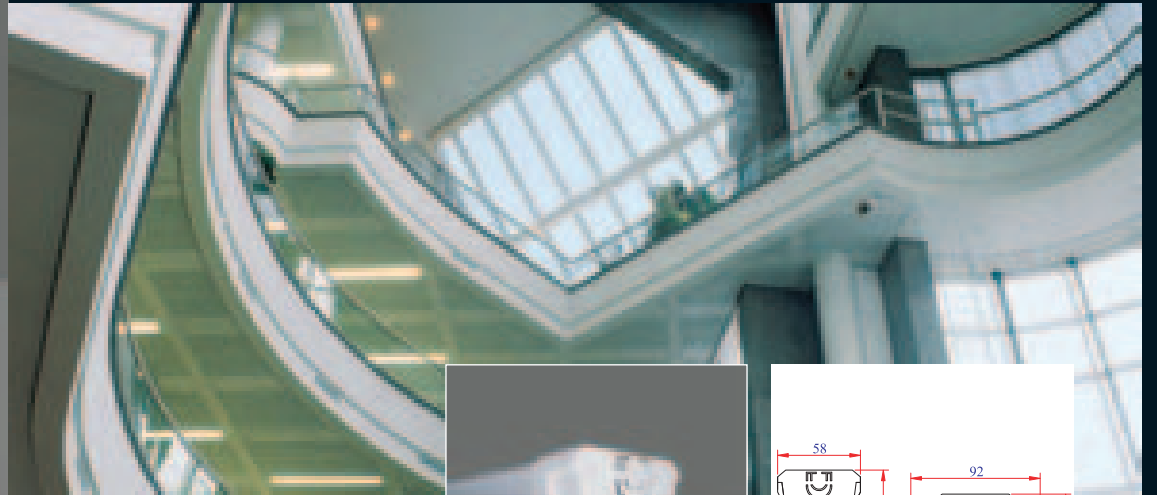


OPTIONS



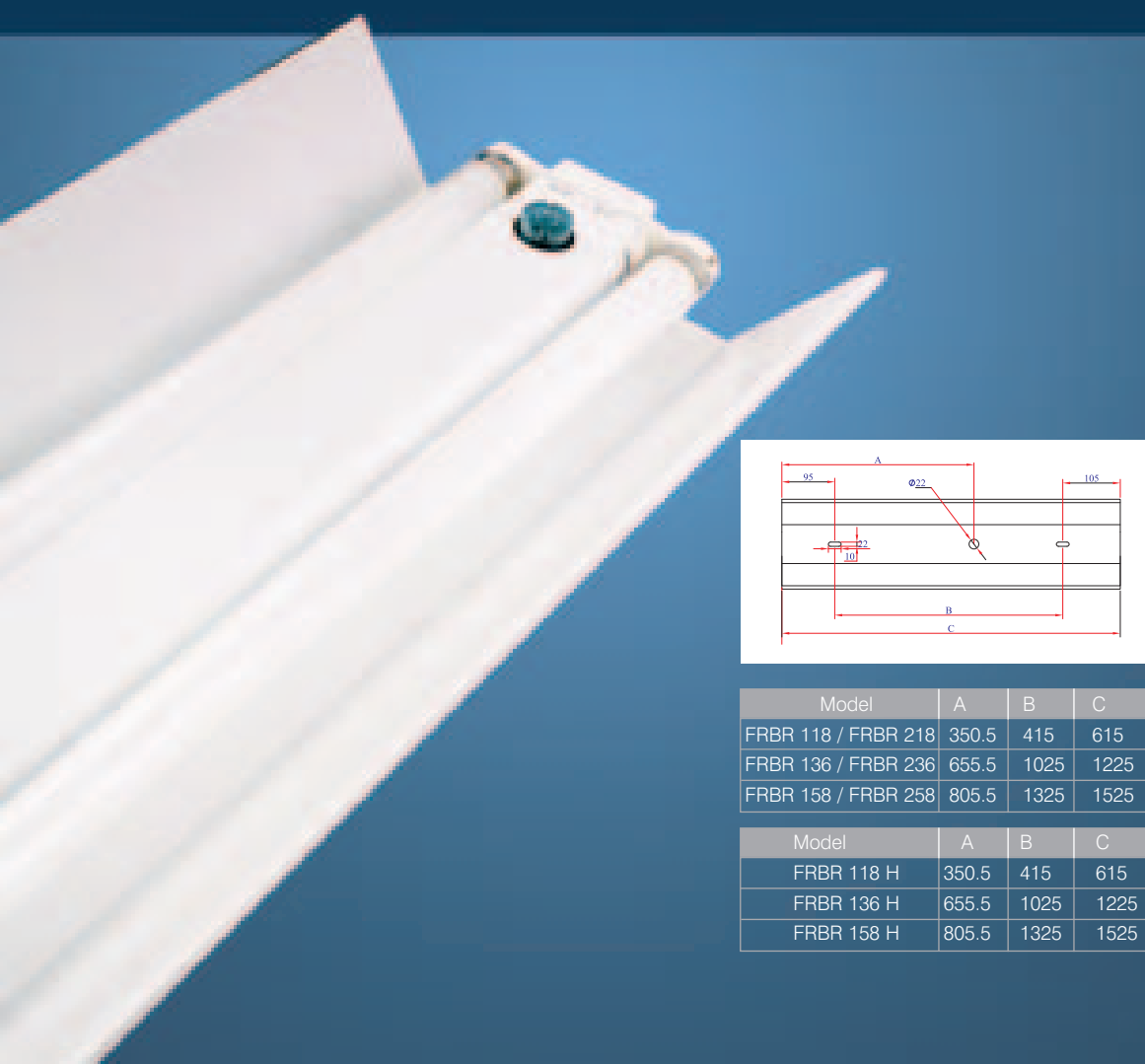
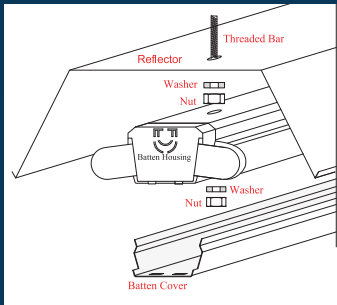
# FLUORESCENT BATTENS

## FRB - T5 SERIES



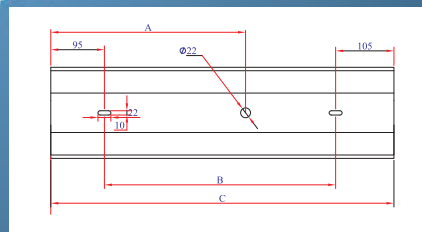
Also available with 21, 24, 39, 80W T5 lamps in both single and twin tube version. Integrated emergency battery pack is not available in 14 W versions. Pull cord switch is optional.

Model	Lamps	Dimensions in mm	
		L1	L2
FRB 114	T5 1X14 W	571	371
FRB 128	T5 1X28 W	1171	971
FRB 135	T5 1X35 W	1471	1271
FRB 149	T5 1X49 W	1471	1271
FRB 154	T5 1X54 W	1171	971
FRB 214	T5 2X14 W	571	371
FRB 228	T5 2X28 W	1171	971
FRB 235	T5 2X35 W	1471	1271
FRB 249	T5 2X49 W	1471	1271
FRB 254	T5 2X54 W	1171	971



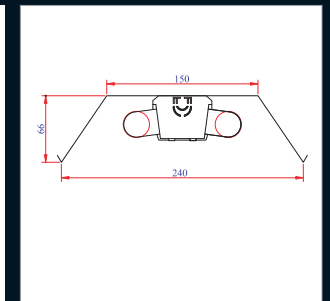
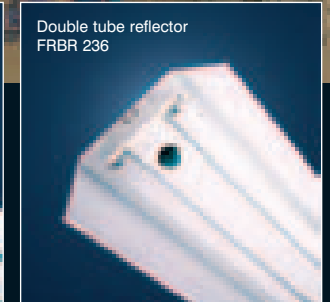
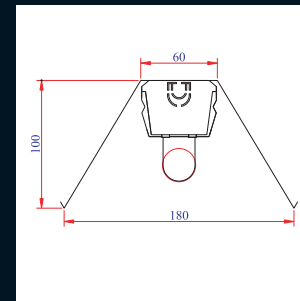
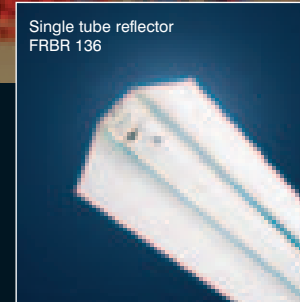
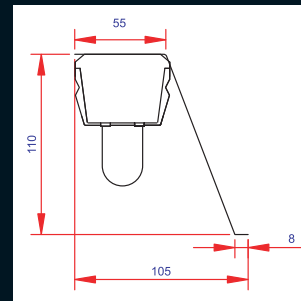
# FLUORESCENT LUMINARIE

## INDUSTRIAL REFLECTOR - FRBR SERIES



Model	A	B	C
FRBR 118 / FRBR 218	350.5	415	615
FRBR 136 / FRBR 236	655.5	1025	1225
FRBR 158 / FRBR 258	805.5	1325	1525

Model	A	B	C
FRBR 118 H	350.5	415	615
FRBR 136 H	655.5	1025	1225
FRBR 158 H	805.5	1325	1525



## INDUSTRIAL



### WEATHER PROOF

Weatherproof Luminaire suitable for single or twin, T5 or T8/T12 fluorescent lamps operated by HF or Electromagnetic Ballast.

**Application:** Suitable for damp/dusty environments such as Industrial premises, factories, power plants, power distribution stations, warehouses, car parks.

**Material & Finish:**

Housing: Compression moulded glass reinforced polyester (GRP)

**Diffuser:** UV stabilised PMMA / Polycarbonate.

**Tray:** Pre-treated, White powder coated CRCA Sheet steel.

**Gaskets:** Moulded Polyurethane rubber which provides for IP65

**Locking Clips:** Polycarbonate / stainless steel (Optional)

**Lamp & starter holders:** Made of flame retardant Polycarbonate with phosphor bronze contacts.

**Wiring:** PVC insulated single strand copper wire that can withstand a temperature of 1050C.

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

**FRATER**

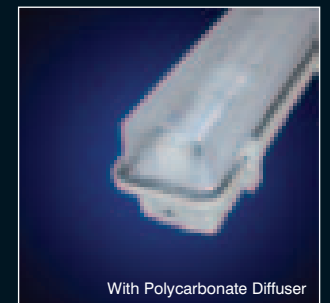
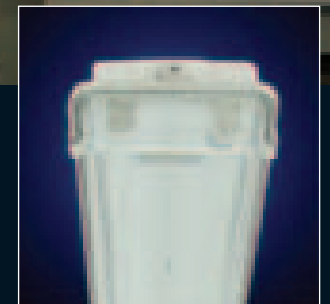
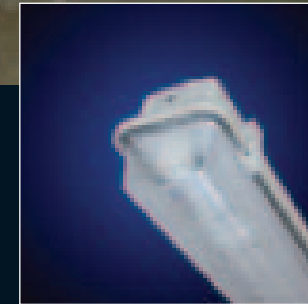
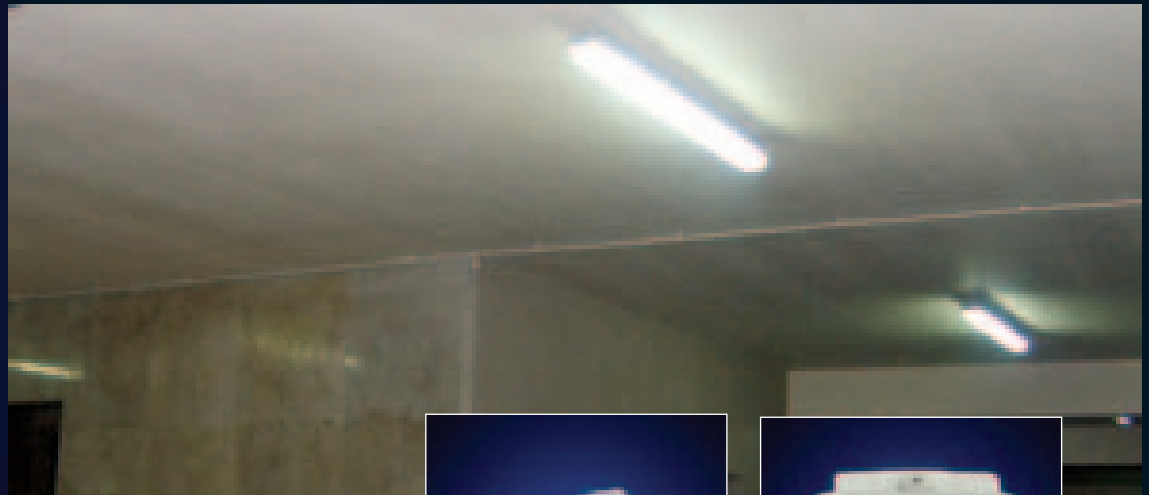


OPTIONS

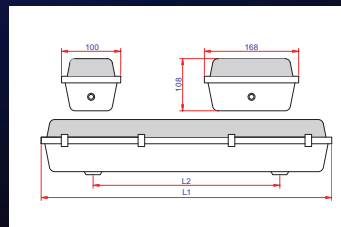


# FLUORESCENT LUMINARIE

WEATHER PROOF - FRP T8 SERIES



Integrated Emergency battery pack is not available with 1X18W versions



Model	Lamps	Length in mm	
		L1	L2
FRP 118	1X18 W	665	230
FRP 136	1X36 W	1275	836
FRP 158	1X58 W	1575	1136
FRP 218	2X18 W	665	230
FRP 236	2X36 W	1275	836
FRP 258	2X58 W	1575	1136

**FRATER**

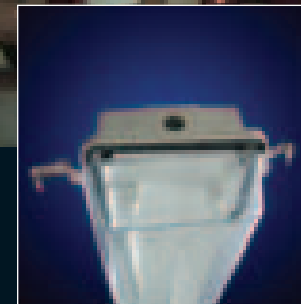
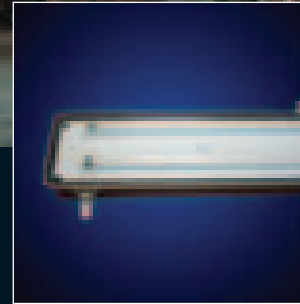
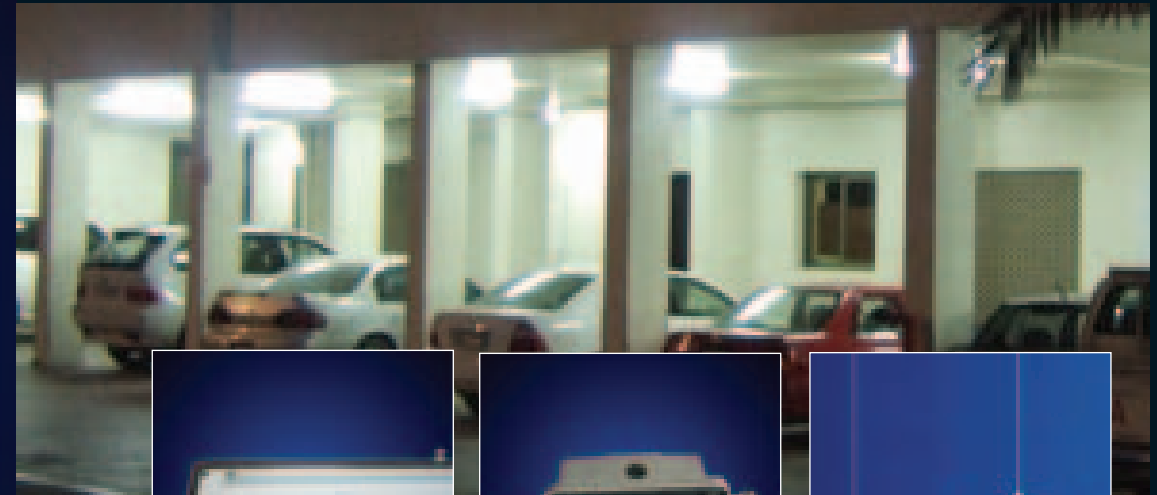


OPTIONS

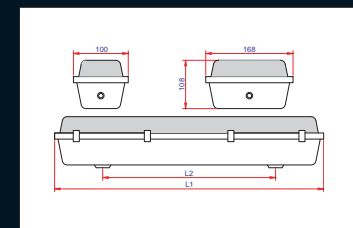


# FLUORESCENT LUMINARIE

## WEATHER PROOF - FRP T5 SERIES



Model	Lamps	Length in mm	
		L1	L2
FRP 114	T5 1X14 W	665	230
FRP 128	T5 1X28 W	1275	836
FRP 135	T5 1X35 W	1575	1136
FRP 149	T5 1X49 W	1575	1136
FRP 154	T5 1X54 W	1275	836
FRP 214	T5 2X14 W	665	230
FRP 228	T5 2X28 W	1275	836
FRP 235	T5 2X35 W	1575	1136
FRP 249	T5 2X49 W	1575	1136



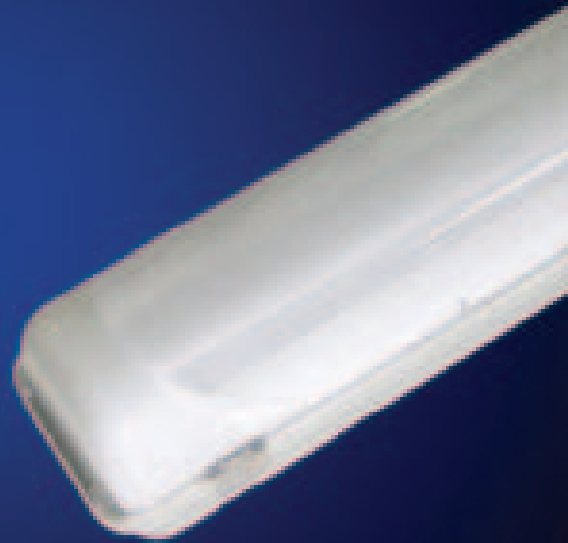
Also available with 24W T5 lamps in both single and twin tube version. Integrated Emergency battery pack is not available with 1X14 versions

**FRATER**



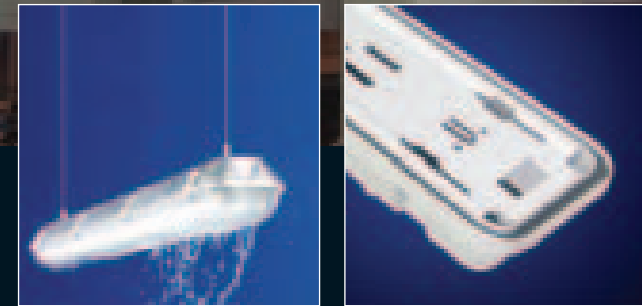
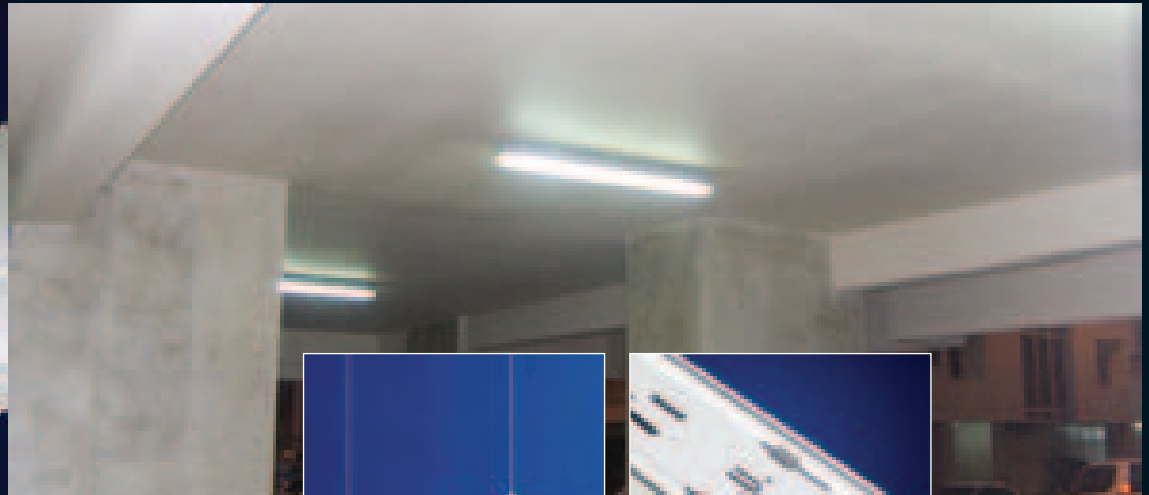
OPTIONS

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



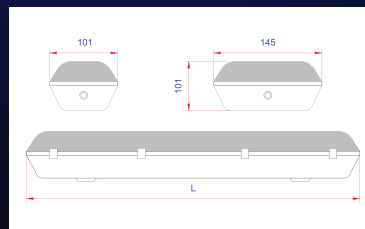
# FLUORESCENT LUMINAIRE

## WEATHER PROOF - FRP ENDURA SERIES



Model	Lamps	Length
		L mm
FRP 114ED	T5 1X14 W	660
FRP 128ED	T5 1X28 W	1273
FRP 135ED	T5 1X35 W	1573
FRP 149ED	T5 1X49 W	1573
FRP 154ED	T5 1X54 W	1273
FRP 214ED	T5 2X14 W	660
FRP 228ED	T5 2X28 W	1273
FRP 235ED	T5 2X35 W	1573
FRP 249ED	T5 2X49 W	1573

Integrated Emergency battery pack is not available with 1X14 & 1X18W versions



Model	Lamps	Length
		L mm
FRP 118ED	1X18 W	660
FRP 136ED	1X36 W	1277
FRP 158ED	1X58 W	1573
FRP 218ED	2X18 W	660
FRP 236ED	2X36 W	1277
FRP 258ED	2X58 W	1573

The special features of Endura Weatherproof Luminaire are, its sleek design & compliance with IP66 rating. The standard pack of this Luminaire is supplied with POLYCARBONATE HOUSING, POLYCARBONATE DIFFUSER & STAINLESS STEEL CLIPS. PMMA (Acrylic) Diffuser & Polycarbonate clips are also available as an option & can be supplied on request.

**FRATER**

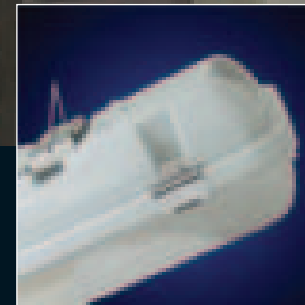
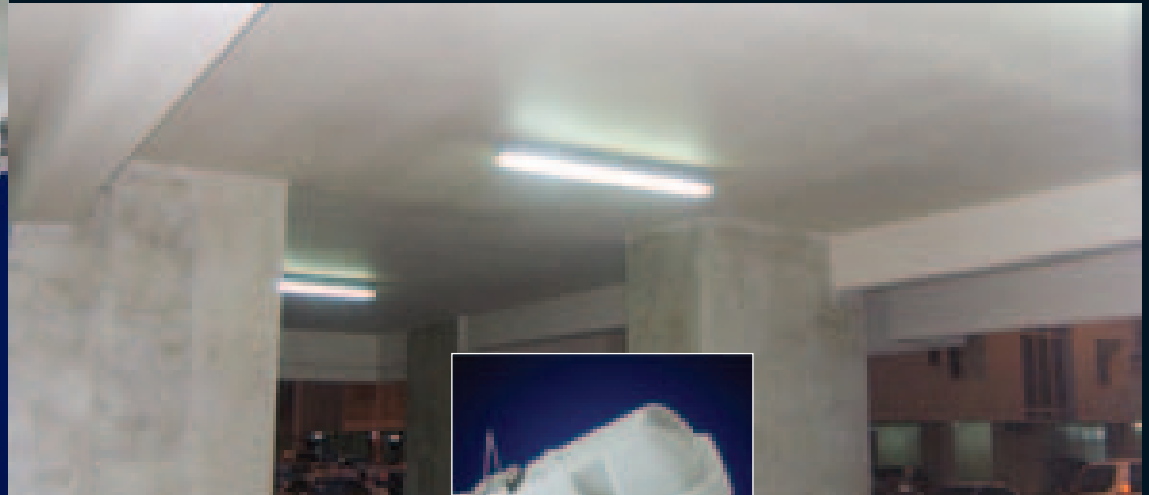


OPTIONS



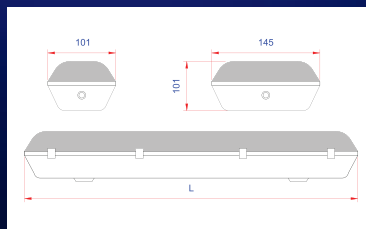
# FLUORESCENT LUMINAIRE

## WEATHER PROOF - FRP AQUA SERIES



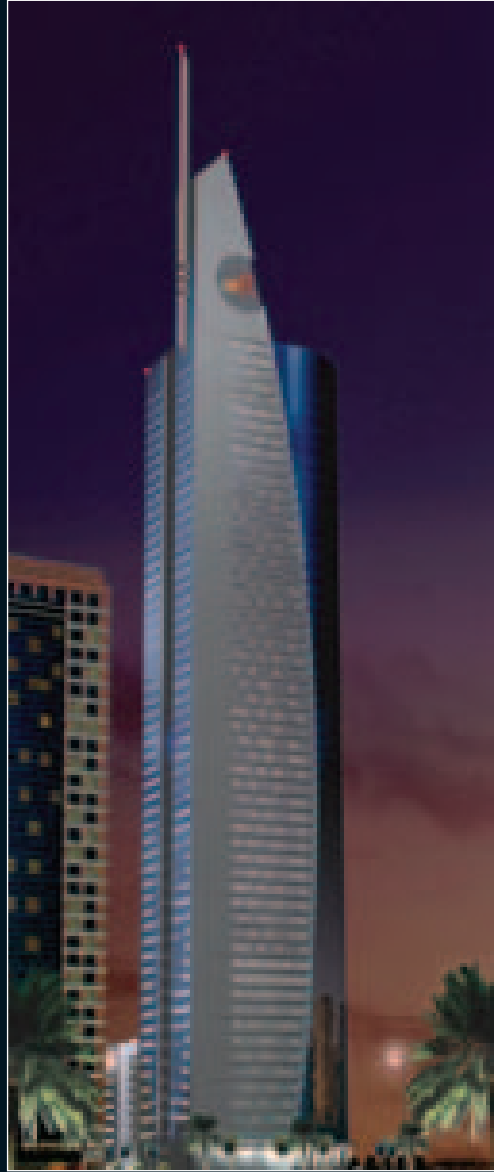
Model	Lamps	Length
		L mm
FRP 114ED	T5 1X14 W	660
FRP 128ED	T5 1X28 W	1273
FRP 135ED	T5 1X35 W	1573
FRP 149ED	T5 1X49 W	1573
FRP 154ED	T5 1X54 W	1273
FRP 214ED	T5 2X14 W	660
FRP 228ED	T5 2X28 W	1273
FRP 235ED	T5 2X35 W	1573
FRP 249ED	T5 2X49 W	1573

Integrated Emergency battery pack is not available with 1X14 & 1X18W versions



Model	Lamps	Length
		L mm
FRP 118ED	1X18 W	660
FRP 136ED	1X36 W	1277
FRP 158ED	1X58 W	1573
FRP 218ED	2X18 W	660
FRP 236ED	2X36 W	1277
FRP 258ED	2X58 W	1573

The special features of Aqua Weatherproof Luminaire are, its sleek design & compliance with IP66 rating. The standard pack of this Luminaire is supplied with GRP HOUSING, ACRYLLIC DIFFUSER & POLYCARBONATE CLIPS.



## INDUSTRIAL



### HIGH BAY

The FRATER FRHB Series are suitable for applications with high intensity discharge lamps. The luminaire is designed for Ingress Protection 65.

**Application:** The FRATER range of High Bays are suitable for high mounting applications. The recommended applications are Warehouses, Manufacturing industries, Aircraft maintenance bays and automobile workshops.

**Material & Finish:**

**Reflector:** The reflector is made of High purity spun aluminum with a shape critically designed to obtain good lighting distribution. Polycarbonate diffuser in open or seal type is available as an option.

**Control gear box :** Made of high pressure die-cast aluminium. Fins are provided on the gear box for improved heat dissipation. Special heat resistant silicon gasket is provided between the gearbox cover and base plate, ensures perfect sealing & Ingress Protection 65.

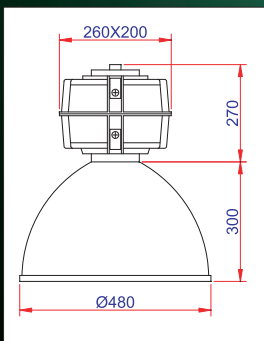
**Lamp holder:** The E27/ E40 lamp holder used is made of porcelain.

**Internal Wiring:** Multistrand copper wire with silicon insulation to withstand high temperature up to 250°C.

**FRATER**



FRHB 22

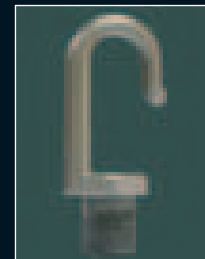
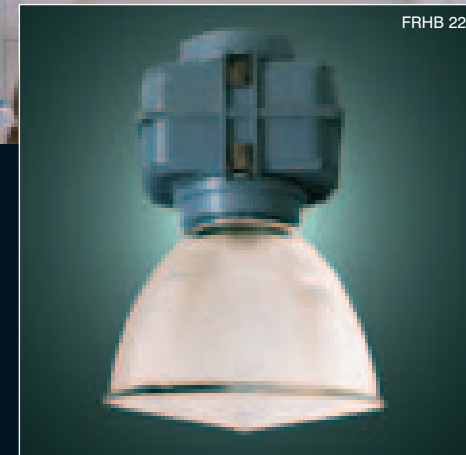
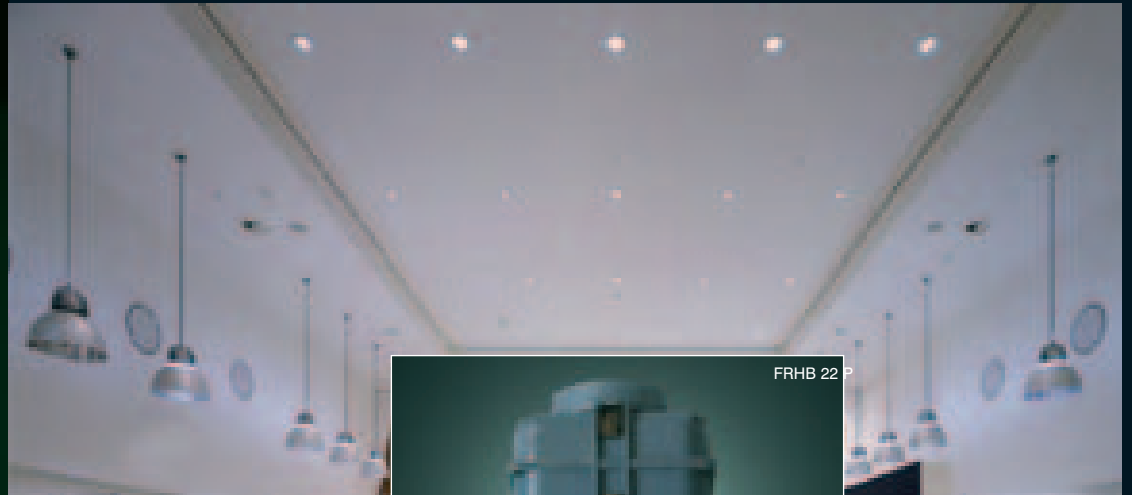


IP 65 models will be supplied with glass secured by silicon gasket and steel clips

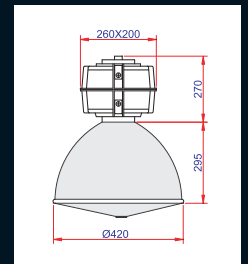
Lamp Type	Wattage	Lamp holder
MH	250/400 W	E40
HPSV	250/400 W	E40
HPMV	250/400 W	E40

# HIGH BAY

## FRHB SERIES



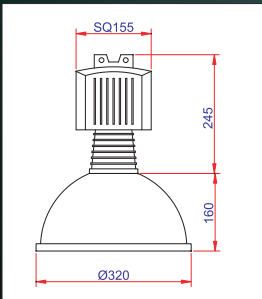
Lamp Type	Wattage	Lamp holder
MH	250/400 W	E40
HPMV	250/400 W	E40
HPSV	250/400 W	E40



**FRATER**



FRHB 21

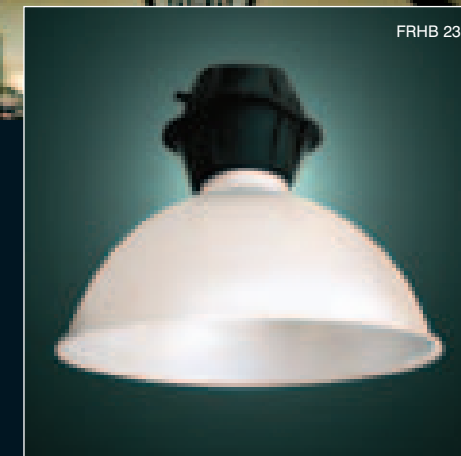
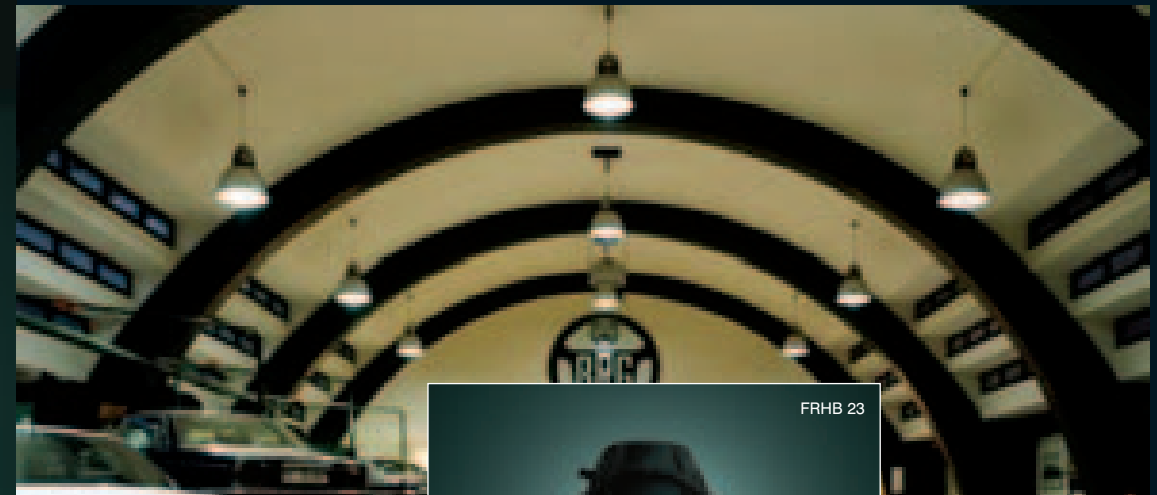


IP 65 models will be supplied with glass secured by silicon gasket and steel clips

Lamp Type	Wattage	Lamp holder
HPMV	80/125W	E27
HPSV	70W	E27
MH	150 W	E27

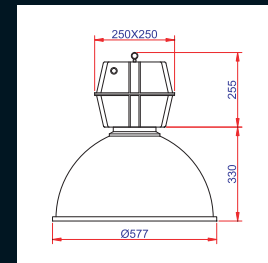
# HIGH BAY

## FRHB SERIES



FRHB 23

IP20 IP65



Lamp Type	Wattage	Lamp holder
HPSV	1000 W	E40
HPMV	1000 W	E40



NISSAN SHOWROOM