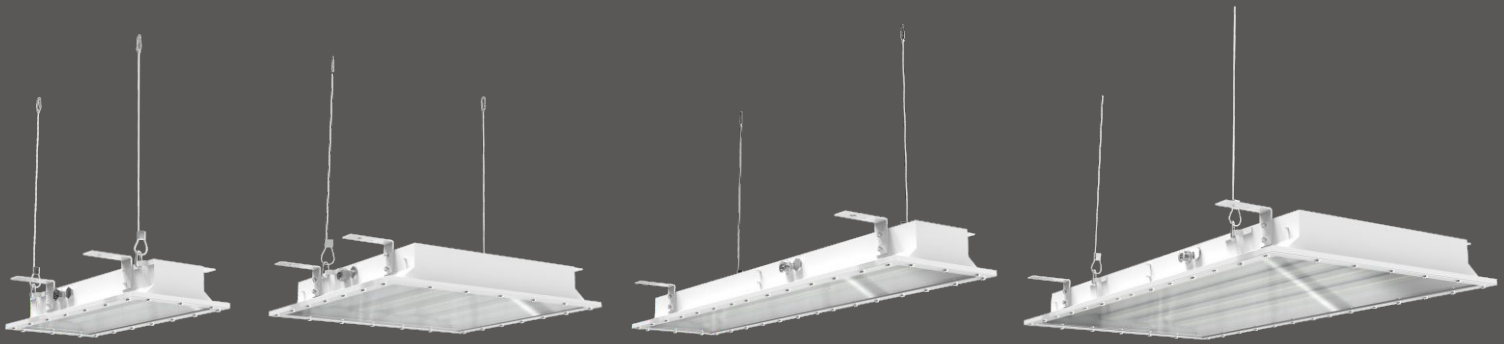


FLD Series



Explosion Proof Light — Pendant/Ceiling Mount





FLD12

FLD22

FLD14

FLD24



Product Description

Pan american FLD series LED linear luminaires are designed to provide ideal illumination in the harshest environments, also suitable for marine applications. Available in four common sizes, it is certified for use in Class I, Division 2 and Zone 2 locations and others made hazardous by the presence of flammable vapors or gases or combustible dusts.

Features

- Suitable for use in Class I, Division 2 and Zone 2/22 environments
- Available in four common sizes
- Emergency function is optional with emergency time 3 hours
- Outstanding water and dust proof performance (IP66)
- High luminous efficacy - up to 130 lumens per watt
- Flexible, quick, and easy installation - pendant and ceiling mount available
- Safety rope included for additional protection

Compliance

UL 844 Hazardous Locations

Class I Division 2, Groups A, B, C, D

Class I, Zone 2, Group IIA, IIB, IIC

UL 1598 Wet Locations

UL 924 Emergency Lighting

ETL

IECEX Certificate number: IECEX CSAE 21.0013X

Ex db ec IIC T6/T5/T4 Gc

Ex tc IIIC T80°C/T95°C/T100°C Dc

ATEX Certificate number: CSANe 23ATEX1213X

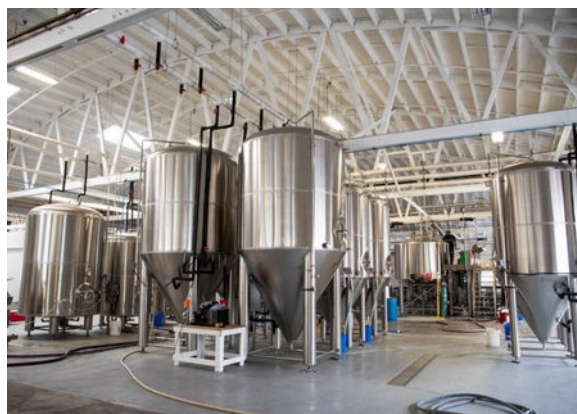
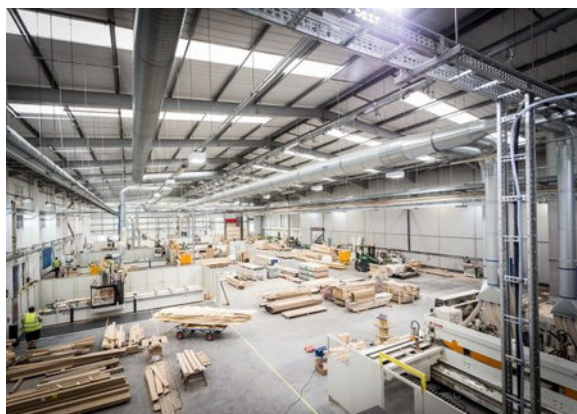
 II 3GD

Ex db ec IIC T6/T5/T4 Gc

Ex tc IIIC T80°C/T95°C/T100°C Dc

IP66

IK10



Application

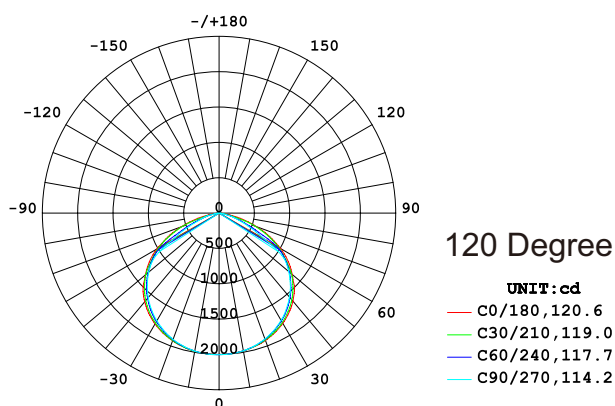
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where flammable vapors, gases, ignitable dusts, or fibers are present
- Where corrosive, wet, dusty, hot and/or cold conditions exist
- Marine, wet locations and hose-down environments
- Manufacturing plants, chemical or pharmaceutical facilities, loading platforms, food and alcohol factories, paper mills

Warranty

5-Year Standard Warranty

LED lumen Maintenance: L70> 150,000 Operation Hours@55°C

Photometric



Technical Parameter

• Electrical

Model NO for UL	EX-xxxW FLD12*YZDA	EX-xxxW FLD14*YZDA	EX-xxxW FLD22*YZDA	EX-xxxW FLD24*YZDA
Model NO for Zone 2	EX-***W RFLD1-2YZD-cc-2	EX-***W RFLD1-4YZD-cc-2	EX-***W RFLD2-2YZD-cc-2	EX-***W RFLD2-4YZD-cc-2
Rated Power in Normal Mode	15/20/25/30/35/40/50W	15/20/25/30/35/40/50/60/70/80/90/100W	15/20/25/30/35/40/50/60/70/80/90/100W	15/20/25/30/35/40/50/60/70/80/90/100/120/150/180/200W
Input Voltage	AC120-277V/AC200-480V (Class I, Division 2); AC100-277V (Zone 2/22)			
Input Frequency	50-60Hz			
Emergency Function	Available			
Rated Power in Emergency Mode	9W			
Emergency Time	3 hours			
Power Supply	Built-in power supply			
Power Protection	Over-voltage, over-current and short-circuit protection			

• Optical

Model NO for UL	EX-xxxW FLD12*YZDA	EX-xxxW FLD14*YZDA	EX-xxxW FLD22*YZDA	EX-xxxW FLD24*YZDA
Model NO for Zone 2	EX-***W RFLD1-2YZD-cc-2	EX-***W RFLD1-4YZD-cc-2	EX-***W RFLD2-2YZD-cc-2	EX-***W RFLD2-4YZD-cc-2
Lumen Output	2,600-6,500lm	2,600-13,000lm	2,600-13,000lm	13,000-26,000lm
Lumens Per Watt	130lm/W			
Beam Angle	120°			
CCT	2700K/3000K/4000K/5000K/5700K/6500K			
Dimming	0-10V dimming			
Intelligent Control	Microwave sensing switch			

• Mechanical

Model NO for UL	EX-xxxW FLD12*YZDA	EX-xxxW FLD14*YZDA	EX-xxxW FLD22*YZDA	EX-xxxW FLD24*YZDA
Model NO for Zone 2	EX-***W RFLD1-2YZD-cc-2	EX-***W RFLD1-4YZD-cc-2	EX-***W RFLD2-2YZD-cc-2	EX-***W RFLD2-4YZD-cc-2
Housing Material	Al6063 (standard); SUS304/SUS316/SPCC (optional)			
Diffuser	PC/Glass (Notice: Glass diffuser comes with wire guard part for safety)			
Waterproof Sealing Ring	Polytetrafluoroethylene			
Hardware	Stainless steel			
Finish	Powder coating			
Fixture Color	White			
Protection	IP66/IK10			
Mounting	Ceiling, Pendant			

• Ambient Temperature

Type	T Code	Ambient Temperature
for Class I, Division 2	T4/T100°C	-40°C to +60°C
Normal for Zone 2	T6/T80°C	-40°C to +45°C
	T5/T95°C	-40°C to +55°C
	T4/T100°C	-40°C to +60°C
Emergency for Zone 2	T6/T80°C	-10°C to +45°C
	T5/T95°C	-10°C to +55°C
	T4/T100°C	-10°C to +60°C

Ordering Guide (for Class I, Division 2)

EX - xxxW FLD xx * Y Z D A

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1. Model Series Name	2. Wattage	3. Basic Model Series Name
“EX” = Explosion Proof Light	FLD12: 15/20/25/30/35/40/50W FLD14: 15/20/25/30/35/40/50/60/70/80/90/100W FLD22: 15/20/25/30/35/40/50/60/70/80/90/100W FLD24: 15/20/25/30/35/40/50/60/70/80/90/100/120/150/180/200W	FLD

4. Overall Dimension of Housing	5. Dimming	6. Color Temperature	7. Beam Angle	8. Commercial Use
“12” = 1 ft x 2 ft “22” = 2 ft x 2 ft “14” = 1 ft x 4 ft “24” = 2 ft x 4 ft	“D” = Dimmable Blank = Non-dimmable	“27” = 2700K, “30” = 3000K “40” = 4000K, “50” = 5000K “57” = 5700K, “65” = 6500K	“D120”= 120 degrees	Can be: 1/2/3/4/5/6

Ordering Guide (for Zone2)

EX - ***W R # Y Z D - cc *

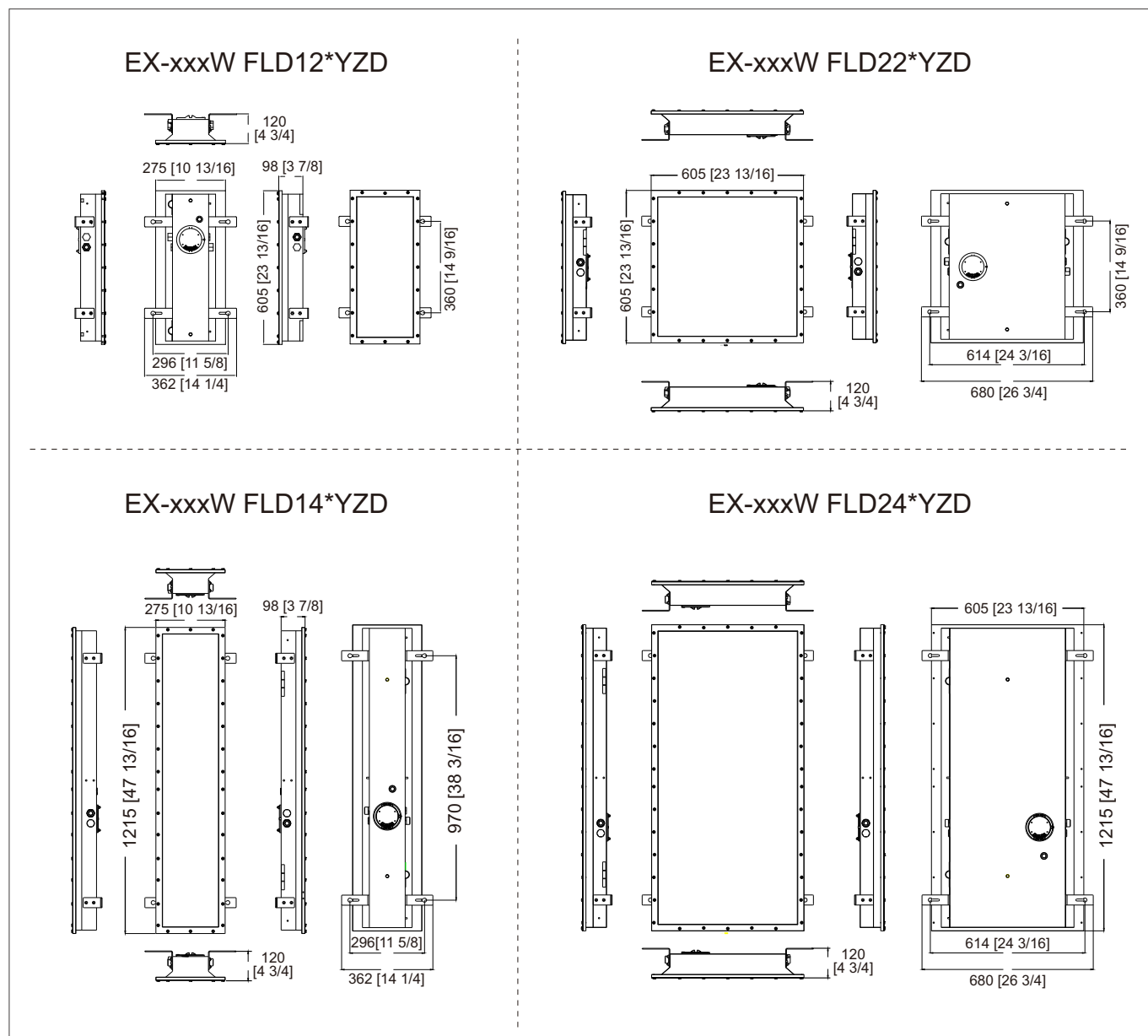
1
2
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1. Product Category	2. Rated Power of the Driver Output	3. Design Number	4. Quantity and Length of the LED Board
“EX” = Explosion-proof Light	FLD1-2: 15/20/25/30/35/40/50W FLD1-4: 15/20/25/30/35/40/50/60/70/80/90W FLD2-2: 15/20/25/30/35/40/50/60/70/80/90W FLD2-4: 15/20/25/30/35/40/50/60/70/80/90/100/120/150/180W	R	“#” can be: FLD1-2, FLD1-4, FLD2-2, FLD2-4. (For example, 1 denotes the quantity is 2; 2 denotes the length is 600mm)

5.Sensor	6.Color Temperature	7.Beam Angle	8.Emergency Function	9. Application Area
Y=Dimmable N=Non-dimmable	“27” = 2700K, “30” = 3000K “40” = 4000K, “50” = 5000K “57” = 5700K, “65” = 6500K	“D” = D120	“EM” = Emergency Blank = Non- emergency	Blank = Zone 1 -2=Zone 2

Product Dimensions (for Ceiling/Pendant Mount)

Unit: mm [inch]

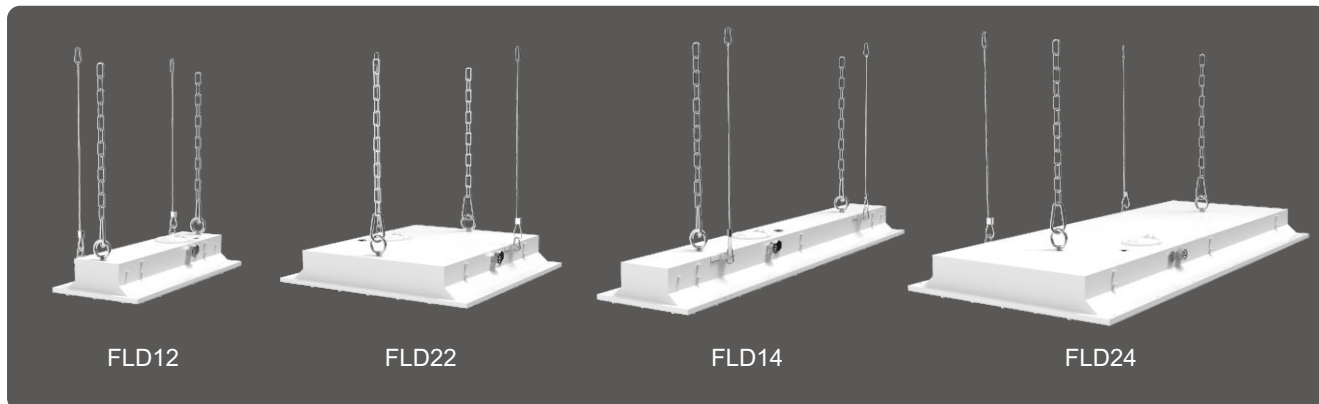


• Packing Information

Model	Product Dimensions (LxWxH)	Quantity/Carton	Gross Weight	Package Dimensions (LxWxH)
FLD12	605x275x120mm/ 23.8x10.8x4.7inch	1 pc	9kg/19.8lb	700x350x175mm/27.6x13.8x6.9inch
FLD14	275x1215x120mm/1.8x47.8x4.7inch	1 pc	20kg/44lb	1320x350x175mm/52x13.8x6.9inch
FLD22	605x605x120mm/23.8x23.8x4.7inch	1 pc	21kg/46.3lb	700x680x175mm/27.6x26.8x6.9inch
FLD24	605x1215x120mm/23.8x47.8x4.7inch	1 pc	30kg/66.1lb	1320x680x175mm/52x26.8x6.9inch

Mounting Methods and Accessories

• Option 1: Pendant Mount



• Accessories (Included in the packaging)



Lifting Ring



Hanging Chain



Safety Rope

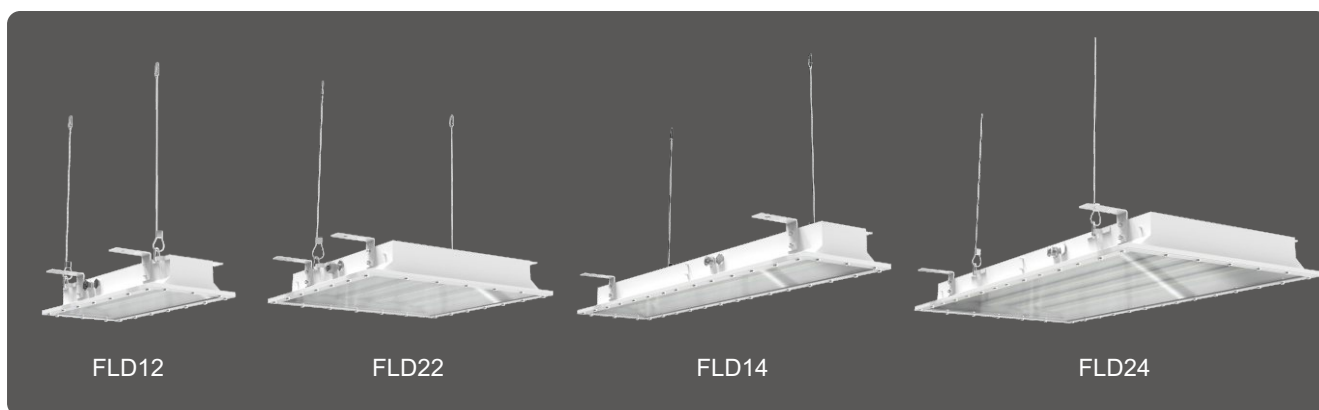


Built-in low voltage
Microwave Sensor
(Only for PC cover)



120-277VAC Motion
Sensor and Photocell

• Option 2: Ceiling Mount



• Accessories (Included in the packaging)



Ceiling Mount Bracket



Safety Rope



Built-in low voltage
Microwave Sensor
(Only for PC cover)

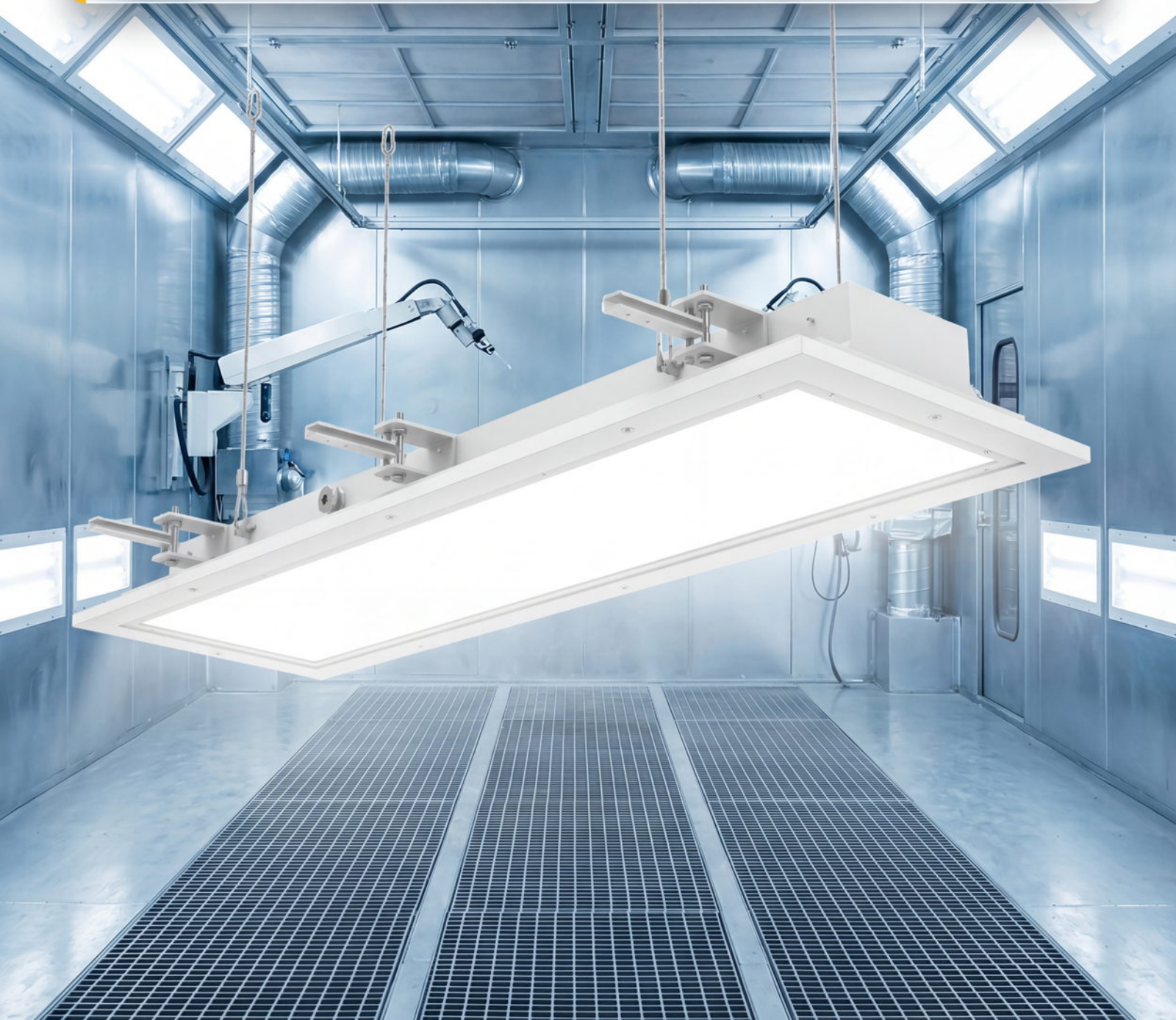


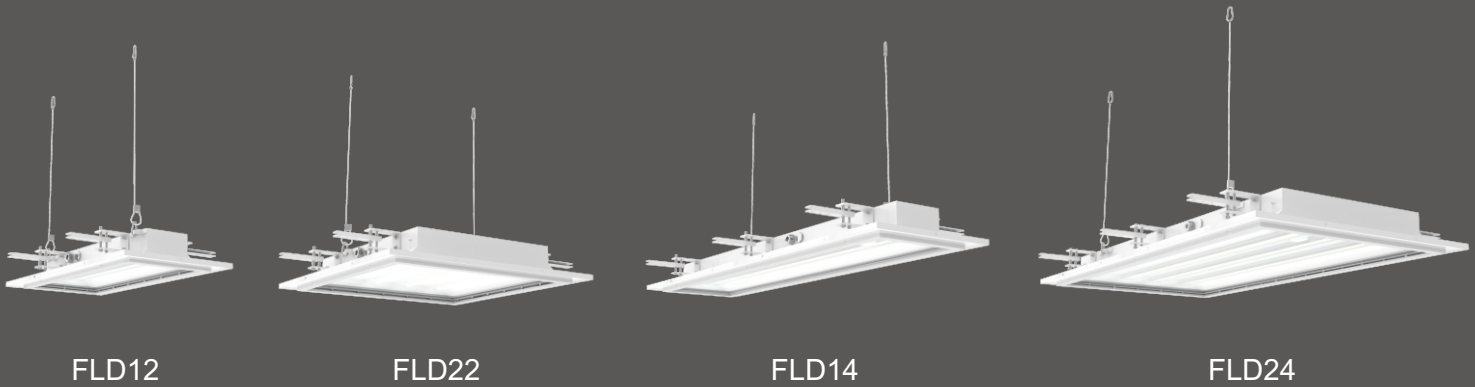
120-277VAC Motion
Sensor and Photocell



FLD Series

Explosion Proof Light — Recessed Installation





Product Description

Pan american FLD series LED linear luminaires are designed to provide ideal illumination in the harshest environments, also suitable for marine applications. Available in four common sizes, it is certified for use in Class I, Division 2 and Zone 2 locations and others made hazardous by the presence of flammable vapors or gases or combustible dusts.

Features

- Suitable for use in Class I, Division 2 and Zone 2/22 environments
- Available in four common sizes
- Emergency function is optional with emergency time 3 hours
- Outstanding water and dust proof performance (IP66)
- High luminous efficacy - up to 130 lumens per watt
- Flexible, quick, and easy recessed installation
- Safety rope included for additional protection

Compliance

UL 844 Hazardous Locations

Class I Division 2, Groups A, B, C, D

Class I, Zone 2, Group IIA, IIB, IIC

UL 1598 Wet Locations

UL 924 Emergency Lighting

ETL

IECEX Certificate number: IECEX CSAE 21.0013X

Ex db ec IIC T6/T5/T4 Gc

Ex tc IIIC T80°C/T95°C/T100°C Dc

ATEX Certificate number: CSANe 23ATEX1213X

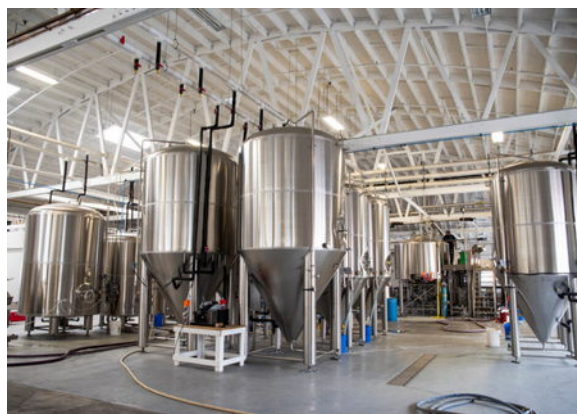
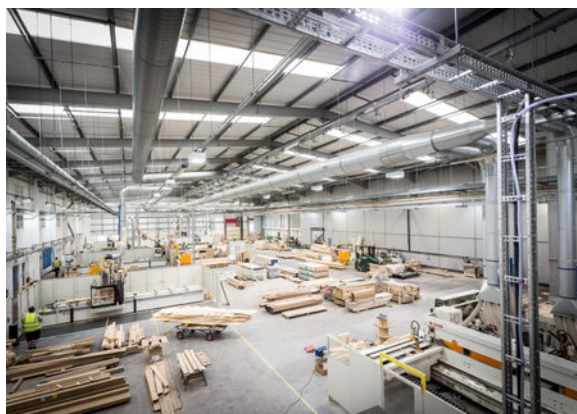
 II 3GD

Ex db ec IIC T6/T5/T4 Gc

Ex tc IIIC T80°C/T95°C/T100°C Dc

IP66

IK10



Application

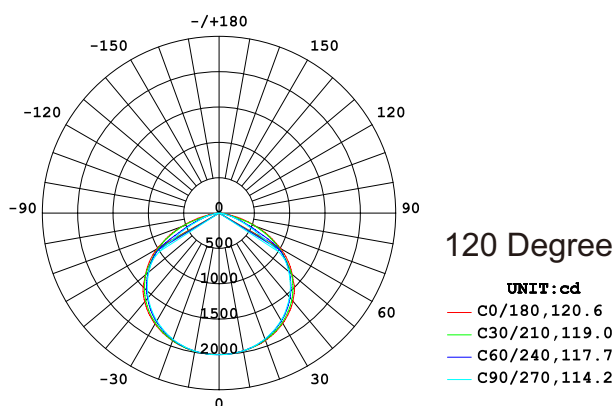
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where flammable vapors, gases, ignitable dusts, or fibers are present
- Where corrosive, wet, dusty, hot and/or cold conditions exist
- Marine, wet locations and hose-down environments
- Manufacturing plants, chemical or pharmaceutical facilities, loading platforms, food and alcohol factories, paper mills

Warranty

5-Year Standard Warranty

LED lumen Maintenance: L70> 150,000 Operation Hours@55°C

Photometric



Technical Parameter

• Electrical

Model NO for UL	EX-xxxW FLD12*YZDA	EX-xxxW FLD14*YZDA	EX-xxxW FLD22*YZDA	EX-xxxW FLD24*YZDA
Model NO for Zone 2	EX-***W RFLD1-2YZD-cc-2	EX-***W RFLD1-4YZD-cc-2	EX-***W RFLD2-2YZD-cc-2	EX-***W RFLD2-4YZD-cc-2
Rated Power in Normal Mode	15/20/25W	15/20/25/30/35/40/50/60W	15/20/25/30/35/40/50/60W	15/20/25/30/35/40/50/60/70/80/90/100/110/120W
Input Voltage	AC120-277V/AC200-480V (Class I, Division 2); AC100-277V (Zone 2/22)			
Input Frequency	50-60Hz			
Emergency Function	Available			
Rated Power in Emergency Mode	9W			
Emergency Time	3 hours			
Power Supply	Built-in power supply			
Power Protection	Over-voltage, over-current and short-circuit protection			

• Optical

Model NO for UL	EX-xxxW FLD12*YZDA	EX-xxxW FLD14*YZDA	EX-xxxW FLD22*YZDA	EX-xxxW FLD24*YZDA
Model NO for Zone 2	EX-***W RFLD1-2YZD-cc-2	EX-***W RFLD1-4YZD-cc-2	EX-***W RFLD2-2YZD-cc-2	EX-***W RFLD2-4YZD-cc-2
Lumen Output	1,950-3,250lm	1,950-7,800lm	1,950-7,800lm	1,950-15,600lm
Lumens Per Watt	130lm/W			
Beam Angle	120°			
CCT	2700K/3000K/4000K/5000K/5700K/6500K			
Dimming	0-10V dimming optional			
Intelligent Control	Microwave sensing switch			

• Mechanical

Model NO for UL	EX-xxxW FLD12*YZDA	EX-xxxW FLD14*YZDA	EX-xxxW FLD22*YZDA	EX-xxxW FLD24*YZDA
Model NO for Zone 2	EX-***W RFLD1-2YZD-cc-2	EX-***W RFLD1-4YZD-cc-2	EX-***W RFLD2-2YZD-cc-2	EX-***W RFLD2-4YZD-cc-2
Housing Material	AL6063 (standard); SUS304/SUS316/SPCC (optional)			
Diffuser	PC/Glass (Notice: Glass diffuser comes with wire guard part for safety)			
Waterproof Sealing Ring	Polytetrafluoroethylene			
Hardware	Stainless steel			
Finish	Powder coating			
Fixture Color	White			
Protection	IP66/IK10			
Mounting	Recessed Installation			

•Ambient Temperature

Type	T Code	Ambient Temperature
for Class I, Division 2	T4/T100°C	-40°C to +60°C
Normal for Zone 2	T6/T80°C	-40°C to +45°C
	T5/T95°C	-40°C to +55°C
	T4/T100°C	-40°C to +60°C
Emergency for Zone 2	T6/T80°C	-10°C to +45°C
	T5/T95°C	-10°C to +55°C
	T4/T100°C	-10°C to +60°C

Ordering Guide (for Class I, Division 2)

EX - xxxW FLD xx * Y Z D A

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1.Model Series Name	2.Wattage	3.Basic Model Series Name
"EX" = Explosion Proof Light	FLD12: 15/20/25W FLD14: 15/20/25/30/35/40/50/60W FLD22: 15/20/25/30/35/40/50/60W FLD24: 15/20/25/30/35/40/50/60/70/80/90/100/110/120W	FLD

4.Overall Dimension of Housing	5.Dimming	6.Color Temperature	7.Beam Angle	8.Commercial Use
"12" = 1 ft x 2 ft "22" = 2 ft x 2 ft "14" = 1 ft x 4 ft "24" = 2 ft x 4 ft	"D" = Dimmable Blank = Non-dimmable	"27" = 2700K, "30" = 3000K "40" = 4000K, "50" = 5000K "57" = 5700K, "65" = 6500K	"D120" = 120 degrees	Can be: 1/2/3/4/5/6

Ordering Guide (for Zone 2/22)

EX - ***W R # Y Z D - cc *

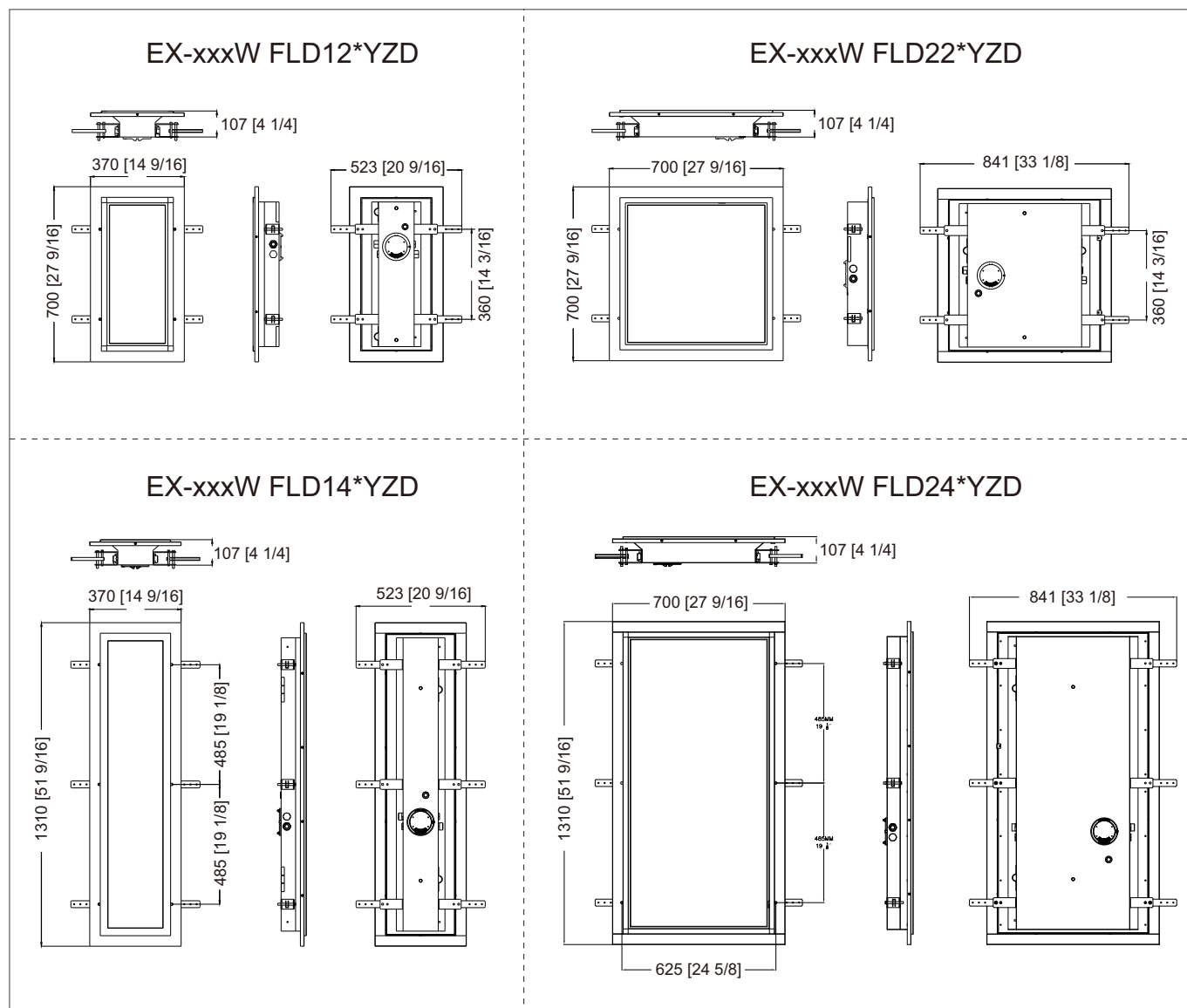
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1.Product Category	2.Rated Power of the Driver Output	3.Design Number	4.Quantity and Length of the LED Board
"EX" = Explosion-proof Light	FLD12: 15/20/25W FLD14: 15/20/25/30/35/40/50/60W FLD22: 15/20/25/30/35/40/50/60W FLD24: 15/20/25/30/35/40/50/60/70/80/90/100/110/120W	R	"#" can be: FLD1-2, FLD1-4, FLD2-2, FLD2-4. (For example, 1 denotes the quantity is 2; 2 denotes the length is 600mm)

5.Sensor	6.Color Temperature	7.Beam Angle	8.Emergency Function	9. Application Area
Y=Dimmable N=Non-dimmable	"27" = 2700K, "30" = 3000K "40" = 4000K, "50" = 5000K "57" = 5700K, "65" = 6500K	"D" = D120	"EM" = Emergency Blank = Non- emergency	Blank = Zone 1 -2=Zone 2

Product Dimensions (Outer Frame Included)

Unit: mm [inch]



●Packing Information (Outer Frame NOT Included)

Model	Product Dimensions (LxWxH) (Outer Frame NOT Included)	Quantity/Carton	Gross Weight	Package Dimensions (LxWxH)
FLD12	605x275x120mm/ 23.8x10.8x4.7inch	1 pc	9kg/19.8lb	700x350x175mm/27.6x13.8x6.9inch
FLD14	275x1215x120mm/1.8x47.8x4.7inch	1 pc	20kg/44lb	1320x350x175mm/52x13.8x6.9inch
FLD22	605x605x120mm/23.8x23.8x4.7inch	1 pc	21kg/46.3lb	700x680x175mm/27.6x26.8x6.9inch
FLD24	605x1215x120mm/23.8x47.8x4.7inch	1 pc	30kg/66.1lb	1320x680x175mm/52x26.8x6.9inch

Note: 1. There is an error of 0.5kg in net weight and gross weight.

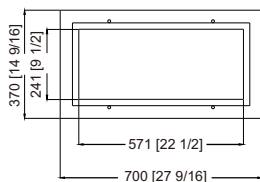
2.The outer frame is used as accessory which is with a separate packaging.

3.Packaging information of the outer frame is not included in this spec sheet since it will generally be based on customer orders.

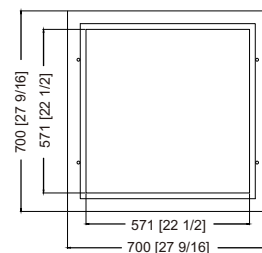
Dimensions of Outer Frame Only

Unit: mm [inch]

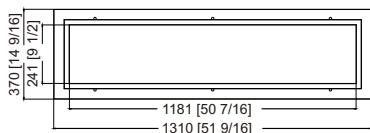
Outer Frame of FLD12



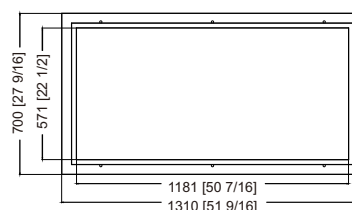
Outer Frame of FLD22



Outer Frame of FLD14

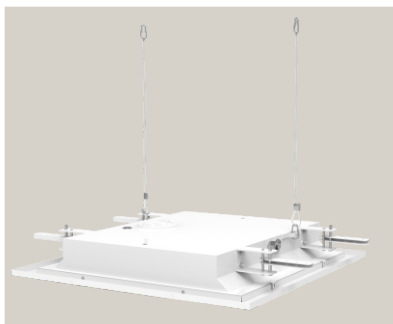
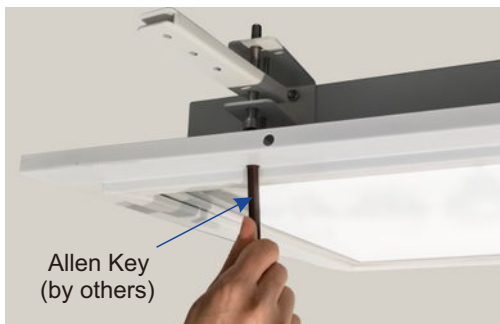


Outer Frame of FLD24



Mounting Methods and Accessories

• Recessed Installation



• Accessories (Standard)

