PROPOSED ROOF
TOP UNITS

Outdoor Unit Parameters
Unit Model:..**25HPB**
Unit Size:...**1.5 Tons**
Voltage:.......................................**208/230-1-60** V-Ph-Hz

Indoor Coil Parameters
Unit Model:...**FV4C**
Unit Size:.............. **Size 002 (18 - 36,000 Btuh)**
Cabinet Insulation:**Single-piece cabinet with 1-in. super thick insulation** ....
Voltage:...**208-1-60** V-Ph-Hz
Refrigerant Type: ....**Puron**
Heating Size:.......................................**No Heat**

Outdoor Unit Dimensions and Weight
Unit Length:.. **31.1875** in
Unit Width: .... **31.1875** in
Unit Height: .... **35.0625** in
Unit Shipping Weight:................................ **213.** lb

Indoor Coil Dimensions and Weight
Unit Length:.. **22.0625** in
Unit Width:.. **17.625** in
Unit Height: .... **42.6875** in
Unit Shipping Weight:................................ **135.** lb

RESIDENTIAL APPLICATIONS
This warranty is to the original purchasing owner and subsequent owners only to the extent and as stated in the Warranty Conditions and below.   The limited warranty period in years, depending on the part and the claimant, is as shown in the table below.

Limited Warranty (Years)		
Item	**Original Owner**	**Subsequent Owner**
Parts	10* (or 5)	5
Compressor	10* (or 5)	5

  *If properly registered within 90 days of original installation, otherwise 5 years (except in California and Quebec and other jurisdictions that prohibit warranty benefits conditioned on registration). See Warranty Conditions below.

OTHER APPLICATIONS
The warranty period is five (5) years on the compressor, and one (1) year on all other parts.   The warranty is the original owner only and is not available for subsequent owners.

Ordering Information

Part Number	Description	Quantity
Outdoor Unit		
25HPB618A003	25HPB Carrier Comfort Heat Pump with Puron 1.5 Tons Cooling	1
	16 SEER @ ARI Conditions	
Indoor Coil		
FV4CNF002L00	FV4C Performance Series Fan Coil with Puron 2 Tons Cooling 208/230-1-60	1
	Single-piece cabinet with 1-in. super thick insulation	
	Aluminum	
Accessories		
KFCEH2401C05	5 kW Electric Heater with Circuit Breaker for Indoor Unit	
KFASP0101SPK	Single Point Wiring Kit for Indoor Unit	

PROPOSED
SURFACE MOUNT
LIGHT IN RECESSED
FRONT ENTRANCE.
BLACK FINISH.

Ceiling and wall luminaires

A series of low profile ceiling and wall luminaires with hand-blown, three-ply opal or white crystal glass. This family of luminaires can be utilized individually or in groups for glare-free illumination in interior or exterior spaces.

Aluminum housing · Crystal glass inside white or three-ply opal glass

LED color temperatures: 2700 K, 3000 K, 3500 K, 4000 K

BEGA luminaires offer a minimum service life of 60,000 hours, with suitable LED replacement modules guaranteed for up to 20 years after date of purchase. Further LED technical data including luminous flux, CRI, dimming and electrical characteristics are provided on the individual luminaire specification sheets, available at www.bega-us.com

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure ® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.
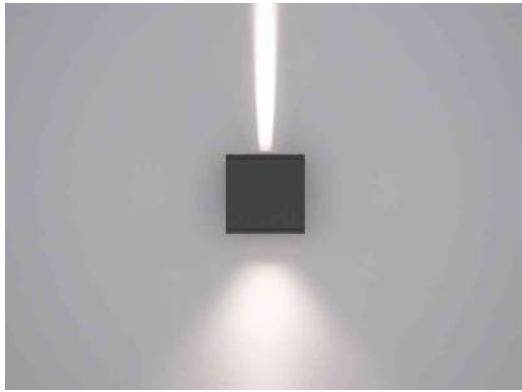
NRTL listed to North American standards · Suitable for wet locations
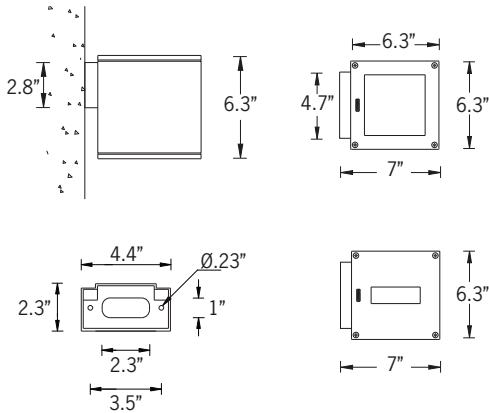Protection class IP 64

Opal Glass

		LED	A	B
33 680	ADA	14.2 W	10 ⅜	2 ⅝
33 681	ADA	19.6 W	12	2 ⅝

Crystal Glass · inside white

		LED	A	B
33 682	ADA	14.2 W	10 ⅜	2 ⅝
33 683	ADA	19.6 W	12	2 ⅝

UMT-31396
Matrix 1 Surface

LIGMAN LIGHTING USA

6/14w COB 1128 Lumens Down, 80 Lumens Up
IP65 • Suitable For Wet Locations
IK07 • Impact Resistant
Weight 4.6 lbs

Mounting Detail

2.8"
6.3"
6.3"
4.7"
6.3"
7"

4.4"
Ø0.23"
2.3"
1"
2.3"
3.5"
6.3"
7"

PROPOSED SCONCE FIXTURE. BLACK FINISH. DOWNLIGHT ONLY.

Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B1 - U3 - G0

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes
The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits
• Resistance to salt-acid room, accelerated aging
• Boiling water, lime and condensed water resistant
• Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
• Super durable (UV resistant)
• TGIC free (non-toxic)

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Square surface wall-mounted architectural lighting range. Family of lighting effects sanctioning imagination and inspiration to reign in designs.

A small profile wall mounted compact cubic luminaire with up and downward light distributions. The Matrix is designed with five light distribution options, namely narrow, medium, wide, very wide and spike.

The Matrix uses high efficiency, long life LEDs and is designed to illuminate the wall and surfaces in front of the wall, as well as light accents on vertical and horizontal surfaces. The Matrix is suitable for indoor and outdoor applications.

This luminaire is available with decorative spikes and can be used with various combinations of light distribution optics.

This luminaire can be mounted at different angles to produce interesting decorative lighting effects on the side of the building facade.
The standard Matrix is designed to mount over a 3" octagonal j-box, a 4" j-box cover plate is available upon request.

UMT-31396

Matrix 1 Surface

PROJECT		DATE	
QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || UMT - 31396 - 6/14w - N - W30 - 02 - 120/277v - Options

UMT-31396					
	LAMP	**BEAM**	**LED COLOR**	**FINISH COLOR**	**VOLTAGE**

LAMP
6/14w COB
1128 Lumens Down
80 Lumens Up

BEAM
N - Narrow 20°
M - Medium 25°
W - Wide 36°
VW - Very Wide 74°

LED COLOR
W27 - 2700K
W30 - 3000K
W35 - 3500K
W40 - 4000K

FINISH COLOR
01 - BLACK RAL 9011
02 - DARK GREY RAL 7043
03 - WHITE RAL 9003
04 - METALLIC SILVER RAL 9006
05 - MATTE SILVER RAL 9006
06 - LIGMAN BRONZE
07 - CUSTOM RAL

VOLTAGE
120/277v
Other - Specify

INSPIRED BY NATURE FINISHES
SW01 - OAK FINISH
SW02 - WALNUT FINISH
SW03- PINE FINISH
DF - DOUGLAS FIR FINISH
CW - CHERRY WOOD FINISH
NW - NATIONAL WALNUT FINISH
SU01 - CONCRETE FINISH
SU02 - SOFTSCAPE FINISH
SU03 - STONE FINISH
SU04 - CORTEN FINISH

THERE IS AN ADDITIONAL COST FOR THESE FINISHES

ADDITIONAL OPTIONS

NAT - Natatorium Rated
F - Frosted Lens
4J - Mounting Plate for 4" Junction Box
DIM - 0-10v Dimming

COLORED DICHROIC FILTERS
RD - Red Lens
BL - Blue Lens
GR - Green Lens
AM - Amber Lens
[Specify Other Color]

More Custom Finishes Available Upon Request
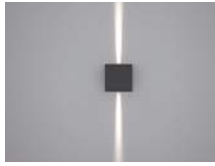Consult factory for pricing and lead times

Oak

Cherry

Beech

Carbon

Walnut

Chestnut

Bamboo

Galvanized

Pine

Mahogany

Birch

Steel

Example: Inspired by Nature Finish

ETL
Intertek

Matrix Product Family

Matrix 1

• UMT-31396-20w-1208lm
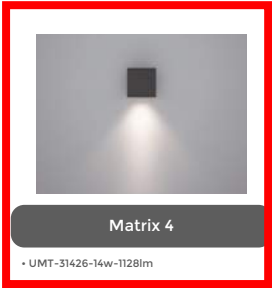

Matrix 2

• UMT-31406-12w-160lm

Matrix 3

• UMT-31416-29w-2256lm

Matrix 4

• UMT-31426-14w-1128lm

Matrix 5

• UMT-31427-6w-80lm

Matrix 6

• UMT-31397-11w-199lm

Matrix 7

• UMT-31398-19w-1247lm

Matrix 8

• UMT-31407-10w-238lm

Matrix 9

• UMT-31428-5w-119lm

WDGE2 LED

Architectural Wall Sconce
Visual Comfort Optic

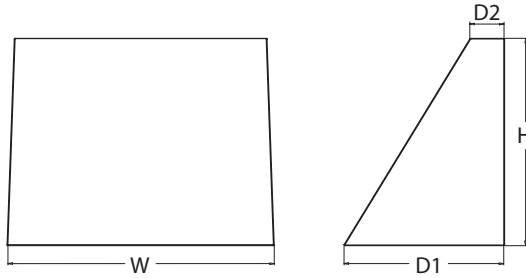**Buy American**

CERTIFIED IN TITLE 20

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

Specifications

Depth (D1):	7 "
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight: (without options)	13.5 lbs

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package		Color Temperature		CRI	Distribution		Voltage	Mounting		
WDGE2 LED	P1¹ P2¹ P3¹ P4¹ P5¹	P1SW P2SW P3SW Door with small window (SW) is required to accommodate sensors. See page 2 for more details.	27K 30K 35K 40K 50K²	2700K 3000K 3500K 4000K 5000K	80CRI 90CRI	VF VW	Visual comfort forward throw Visual comfort wide	MVOLT 347³ 480³	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)⁷	**Shipped separately** AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.	

Options

E4WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE⁴	Photocell, Button Type
DS⁵	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)
DMG⁶	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
BAA	Buy America(n) Act Compliant

Standalone Sensors/Controls (only available with P1SW, P2SW & P3SW)

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls (only available with P1SW, P2SW & P3SW)

NLTAIR2 PIR	nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH	nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

|	
DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

NOTES
1 P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
2 50K not available in 90CRI
3 347V and 480V not available with E4WH, E10WH, E20WC or DS.
4 PE not available in 480V or with sensors/controls
5 DS option not available with E4WH, E10WH, E20WC or sensors/controls.
6 DMG option not available with sensors/controls
7 Not qualified for DLC. Not available with emergency battery backup or sensors/controls
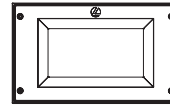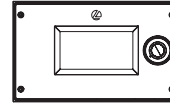
Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5
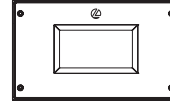
Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW

Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1 / P1SW	10W	VF	1,166	119	0	0	0	1,209	123	0	0	0	1,251	128	0	0	0	1,256	128	0	0	0	1,254	128	0	0	0
		VW	1,197	122	0	0	0	1,241	126	0	0	0	1,284	131	0	0	0	1,289	131	0	0	0	1,286	131	0	0	0
P2 / P2SW	15W	VF	1,878	129	1	0	0	1,947	134	1	0	0	2,015	139	1	0	0	2,023	139	1	0	0	2,019	139	1	0	0
		VW	1,927	133	1	0	0	1,997	137	1	0	0	2,067	142	1	0	0	2,075	143	1	0	0	2,071	143	1	0	0
P3 / P3SW	23W	VF	2,908	129	1	0	0	3,015	134	1	0	0	3,119	138	1	0	0	3,132	139	1	0	0	3,126	139	1	0	0
		VW	2,983	132	1	0	0	3,093	137	1	0	0	3,200	142	1	0	0	3,213	143	1	0	0	3,206	142	1	0	0
P4	35W	VF	4,096	117	1	0	1	4,247	121	1	0	1	4,394	126	1	0	1	4,412	126	1	0	1	4,403	126	1	0	1
		VW	4,202	120	1	0	0	4,357	125	1	0	1	4,508	129	1	0	1	4,526	129	1	0	1	4,517	129	1	0	1
P5	48W	VF	5,567	115	1	0	1	5,772	119	1	0	1	5,972	123	1	0	1	5,996	124	1	0	1	5,984	124	1	0	1
		VW	5,711	118	1	0	1	5,921	122	1	0	1	6,127	126	1	0	1	6,151	127	1	0	1	6,139	127	1	0	1

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1 / P1SW	10W	0.082	0.049	0.043	0.038	--	--
	13W	--	--	--	--	0.046	0.033
P2 / P2SW	15W	0.132	0.081	0.072	0.064	--	--
	18W	--	--	--	--	0.056	0.041
P3 / P3SW	23W	0.195	0.114	0.100	0.088	--	--
	26W	--	--	--	--	0.079	0.058
P4	35W	0.302	0.175	0.152	0.134	--	--
	38W	--	--	--	--	0.115	0.086
P5	48W	0.434	0.241	0.211	0.184	--	--
	52W	--	--	--	--	0.157	0.119

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647
E10WH	VF	1,658
	VW	1,701
E20WC	VF	2,840
	VW	2,913

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

- 0.25 fc
- 0.5 fc
- 1.0 fc
- 3.0 fc

MH = 10ft
Grid = 10ft x 10ft

WDGE2 LED P3 40K 80CRI VW

WDGE2 LED P3 40K 80CRI VF
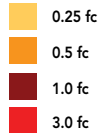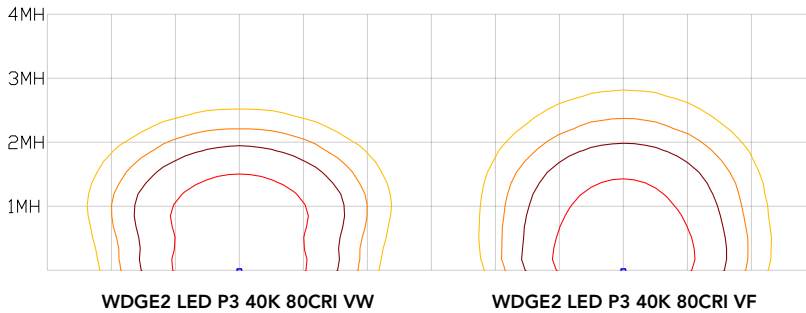
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

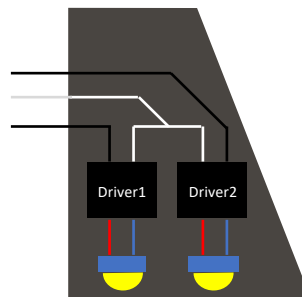Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.

Grid = 10ft x 10ft

WDGE2 LED xx 40K 80CRI VF MVOLT E10WH

WDGE2 LED xx 40K 80CRI VF MVOLT E20WC
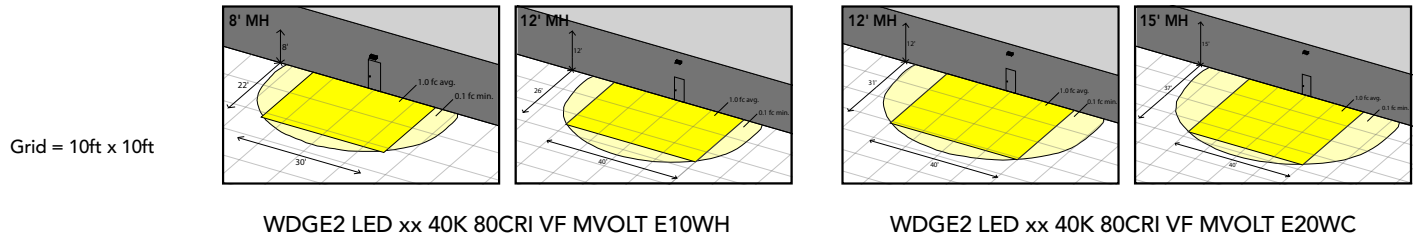
Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

Driver1   Driver2

LITHONIA LIGHTING.

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WDGE2 LED
Rev. 03/01/22

Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture,   900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.
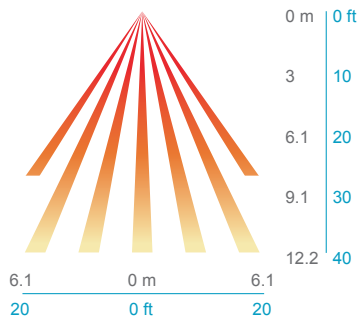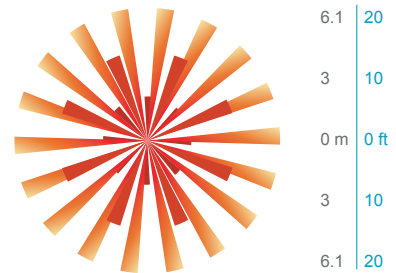
PIR

HIGH VIEW
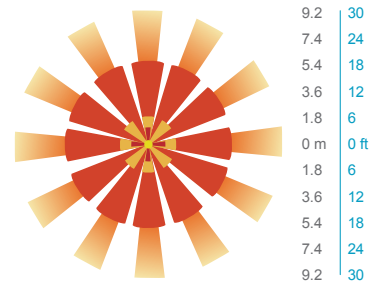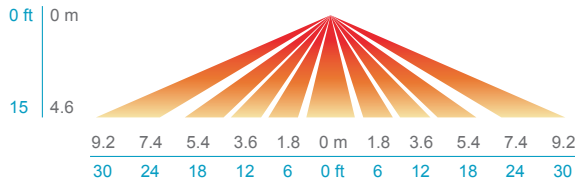
PIRH

SIDE VIEW

TOP VIEW

Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WDGE2 LED
Rev. 03/01/22

**NLTAIR2 PIR – nLight AIR
Motion/Ambient Sensor**

D = 7"

H = 11"

W = 11.5"

**PBBW – Surface-Mounted Back Box
Use when there is no junction box available.**

D = 1.75"

H = 9"

W = 11.5"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

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WDGE2 LED
Rev. 03/01/22

boca FLASHER

HPNFC-HO
Shallow Profile Linear LED Strip Fixture

Project:

· Compact, variable light fixture for dry, damp or wet location use.
· Fixture comes in 6" increments (12" minimum)
· Many options in optics, color temperature and accessories.
· EMI Filter integral.
· Boca Flasher's patented CleanDim® technology ensures even dimming from 0-100%.
· Fixtures are compatible with both forward and reverse phase dimming or can use Boca's SDS module for 0-10V DALI or DMX dimming.
· Uses standard line voltage dimmers.
· White or black finish standard.
· Total linear foot per power feed: 8W = 80 ft., 10W = 65 ft.
· Contact Boca Flasher for tips with custom installations.

IP50 · IP65 Damp Listing · IP68 Wet Listing · C UL US · RoHS COMPLIANT · MADE IN THE USA

PRODUCT SPECIFICATIONS:

	LED SPACING	COLOR OPTION	OPTIC	VOLTAGE	FINISH	LOCATION	MOUNTING	LENS	OPTIONS
HPNFC	HO8 5W/FT	2700K	10°	120V	W White	I Interior-IP50	F Fixed	C Clear	SB Square Baffle
	HO8 8W/FT	3000K	30°	277V	B Black	E Exterior-IP65	S Swivel	D Diffused	ASYM Asymmetric Baffle
	HO8 10W/FT	3500K	60°			W Wet-IP68	H Hinge	SI Satin Ice (Interior Use Only)	SKB Kicker Baffle
		4000K	10°x60°				3Arc 3" Arc Swivel	OW Opal White (Exterior Use Only)	HL Hexcell Louver (Cannot be used with Satin Ice White or 120° optic)
		5000K	30°x60°				6Arc 6" Arc Swivel		
		Amber	120°						
		Red							
		Green							
		Blue							

LENS OPTIONS:

Diffused*
· Interior or exterior use.
· 87% transmission.
· Lens is 1/8" (.09) thick, adds 1/16" to overall height of fixture. Call factory for more information.

*Additional charges apply.

Satin Ice White*
· Interior use only.
· Best for direct view use.
· 42% transmission.
· Lens is 1/4" (.25) thick, adds 1/8" to overall height of fixture. Call factory for more information.

*Additional charges apply.

HPNFC-HO

Shallow Profile Linear LED Strip Fixture

boca FLASHER

TECHNICAL SPECIFICATIONS:

WATTAGE	5, 8 or 10 watts per linear ft.
INPUT VOLTAGE	90-120V or 230-277V
CONTROL	Leading Edge/Trailing Edge line dimmer 0-10V, DALI, DMX*
LED SPACING	1.5" on center
LENGTH	12"- 96", 6" increments
TOTAL HEIGHT	1.04" (not including clip)
TOTAL WIDTH	1.68"
COLOR OPTIONS	2700K,3000K, 3500K, 4000K, 5000K, amber, red, green, blue
MOUNTING	Fixed, swivel, 3" Arc or 6" Arc
AVAILABLE OPTICS	10°, 30°, 60°, 10° x 60°, 30° x 60°, 120°
RATING	IP50, IP65, IP68
COLOR RENDERING INDEX (CRI)	90 + CRI
POWER CABLE	UL Standard 6.5 ft.
ENVIRONMENTAL	Operating temperature--40°F-140°F Ambient(-40°C-60°C)** Storage temperature -40°F-140°F Ambient indoor fixtures operation limited to =<50% relative humidity

** Military spec available under special request-lead times may be impacted.

DIMENSIONS:

· For vertical installation please contact the factory for specific mounting instructions.

· For installations above 4' please contact the factory.
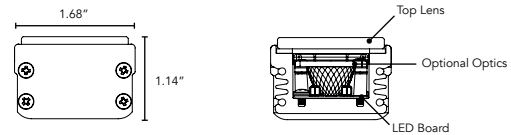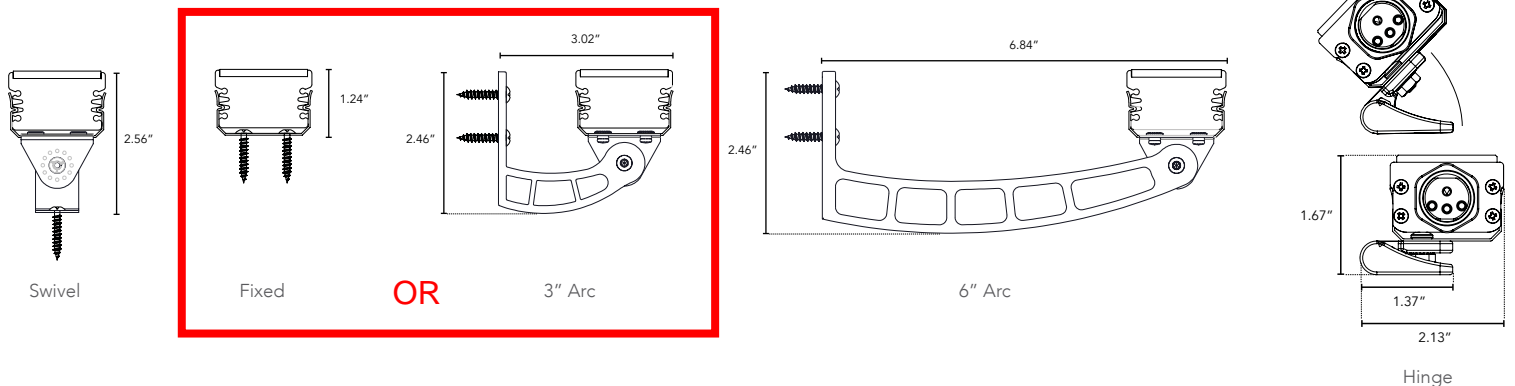
Plan View
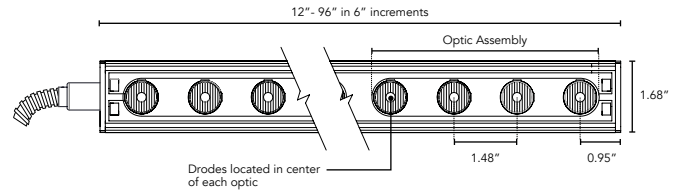
Elevation View

Hinge View

End View

MOUNTING INFORMATION:

· For vertical installation please contact the factory for specific mounting instructions.

Swivel

Fixed   OR   3" Arc

6" Arc

Hinge

REV 04012022

HPNFC-HO

Shallow Profile Linear LED Strip Fixture

boca FLASHER

BODY CHOICES:

- Teflon Poly or Glass Lens
- Hexcell Louver
- Secondary Optic

Hexcell Louver

· Economical solution to off axis glare issues.

· Louver is located flush to secondary optic, preventing unwanted striation.

· Louver cannot be utilized when no optic (120°) is specified.

· Louver is behind lens to ensure no damage is done during installation or after. This also ensures no dust build-up.

· Louver ships pre-fitted making on site fixture installation easy.

· No unsightly clips, screws, or brackets.

· Can be used with other baffles.

· Adds nothing to overall height.

· To specify add "HL" in options box.

   *Additional charges may apply.

SB - Square Baffle

SSB - Sq. Slanted Baffle

SKB - Sq. Kicker Baffle

Baffle Square Design

· Design cuts off light at 90°

· Baffles are lightweight black PVC with non-reflective surfaces to avoid glare from interior sections.

· One piece baffle slides onto the extruded housing making installation easy.

· SB only adds .75" to overall height
 SSB adds .90" to overall height
 SKB adds 1.625" to overall height

· To specify add "SB" or "SSB" for slanted version or "SKB" for kicker version in options box.

LUMINAIRE INFORMATION:

LUMENS PER LAMP -3500K 30X60	936 (1 lamp)
TOTAL LAMP LUMENS	936
LUMINAIRE LUMENS	936
TOTAL LUMINAIRE EFFECIENCY	100%
LUMEN EFFECACY RATING	94
TOTAL LUMINAIRE WATTS	10.02
BALLAST FACTOR	1.00
CIE TYPE	Direct
SPACING CRITERION (0-180)	0.58
SPACING CRITERION (90-270)	0.62
SPACING CRITERION (Diagonal)	0.60
BASIC LUMINOUS SHAPE	Rectangular
LUMINOUS LENGTH (0-180)	0.31m
LUMINOUS WIDTH (90-270)	0.04m
LUMINOUS HEIGHT	0.03m

· Lo8 Data - 10W for 6W use 0.65 multiplier
· Specific Files Available On Request

REV 04012022

630/631
634/635

PROPOSED METAL COILING DOOR REPLACEMENT. BLACK POWDERCOAT FINISH

FireKing®

FIRE PROTECTION.
INNOVATIVE DESIGN.
OPTIMIZED PERFORMANCE.

OVERHEAD DOOR®

INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS

Standard features at a glance

Technical data

Application	Exterior/Interior for fire rated walls
Operation	Non-motorized, mechanical floor resettable hoist with viscous governor
Mounting	Face of wall (between jambs optional on 630,631,635)
Models	630 – Standard fire door 631 – Basic fire door 634 – Fire door up to 24'x24'; 4 hour rating UL 635 – Insulated fire door
Drop speed	Meets NFPA 80 requirements of 6" to 24" per second

Curtain

Material	Steel slats in a variety of gauges
Finish	Baked-on polyester top coat in Gray, Tan, White or Brown
Guides	Three steel angles (some use structural and some are roll formed)
Bottom bar	Steel double angle

Counterbalance system

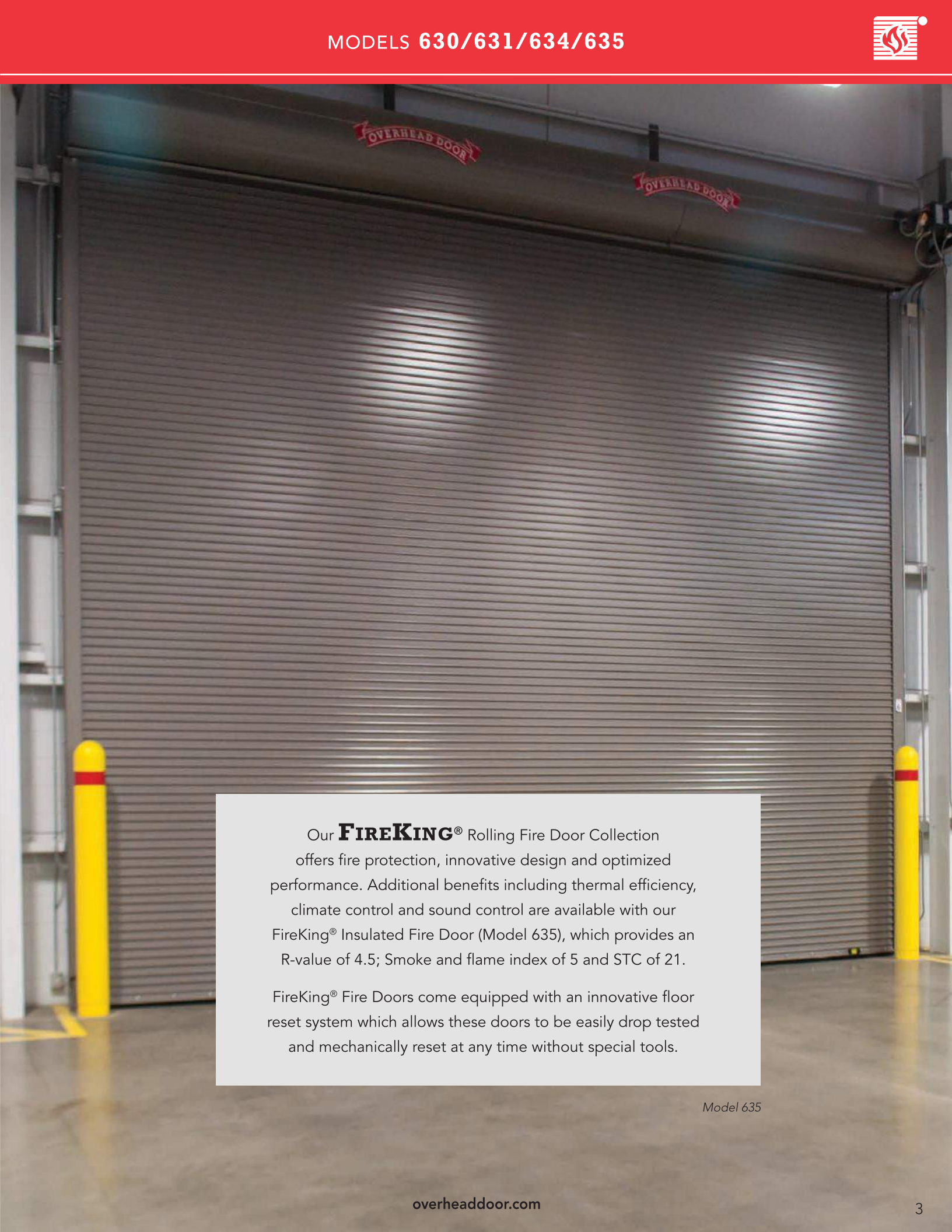|	
Counterbalance	High tensile helical torsion spring housed in a steel tube or pipe
Brackets	Steel plates to support counterbalance, curtain and hood

Limited warranty 2-Year Limited;
3-Year/20,000 Cycles Limited on Overhead Door™ door and operator system (when purchased together)

Options

- Between jamb mount (630, 631, 635)
- Fire Sentinel® time-delay release device
- FireLite® vision lite (Flat and insulated slats only with a max of 4 per door)
- Smoke detectors and heat detectors
- UL-listed brush-type smoke seals "S" label (flat or insulated slats only)
- Flame baffle system - an FM requirement
- UL, ULC and FM labels available
- Horns and horns with strobes
- Tension release: push-up or crank, electric motor: RHX® or RSX®
- Non-tension hoist or electric motor: RSX® FDO or RHX® FK
- Stainless or galvanized steel: curtain, hood, guides, bottom bar
- Slide bolts, cylinder locks, interlocks
- Wind load options to include: Florida Building Code (FBC), Miami-Dade, Texas Department of Insurance (TDI)
- PowderGuard® Premium powder coat in approximately 200 RAL standard colors or color-matched to specification
- PowderGuard® Zinc and PowderGuard® Textured finishes

Cover image: Model 630 with C187 slats, Gray powder coat finish
Image above: Model 630 with C187 slats

Our **FireKing®** Rolling Fire Door Collection
offers fire protection, innovative design and optimized
performance. Additional benefits including thermal efficiency,
climate control and sound control are available with our
FireKing® Insulated Fire Door (Model 635), which provides an
R-value of 4.5; Smoke and flame index of 5 and STC of 21.

FireKing® Fire Doors come equipped with an innovative floor
reset system which allows these doors to be easily drop tested
and mechanically reset at any time without special tools.

Model 635

FireKing®

Fire door selection chart

Series	630	631	634	635
Label				
UL/ULC/FM 1½ or 3 hr	Up to 13'6" (4,115 mm) width/height, max. 152 sf (14.121 sm)	Up to 13'6" (4,115 mm) width/height, max. 152 sf (14.121 sm)		Up to 13'6" (4,115 mm) width/height, max. 152 sf (14.121 sm)
UL 4 hr	Up to 13'6" (4,115 mm) width/height, max. 152 sf (14.121 sm)	Up to 13'6" (4,115 mm) width/height, max. 152 sf (14.121 sm)	Up to 13'6" (4,115 mm) width/height, max. 152 sf (14.121 sm) FM 4 hour is an option	Up to 13'6" (4,115 mm) width/height, max. 152 sf (14.121 sm)
UL oversized door	Over 152 sf (14.121 sm)	Over 152 sf (14.121 sm)	Over 152 sf (14.121 sm)	Over 152 sf (14,121 sm)
FM (optional) oversized door	Over 152 sf (14.121 sm), but less than 18' (5,486 mm) height or width. Over 18' must be certified by FM*		Over 152 sf (14.121 sm), but less than 18' (5,486 mm) height or width. Over 18' must be certified by FM*	Over 152 sf (14.121 sm), but less than 18' (5,486 mm high)*
Applications				
Masonry/steel	●	●	●	●
Non-masonry	●	●		●
Standard				
Maximum width	41'2" (12,548 mm)	14' (4,267 mm)	41'2" (12,548 mm)	24' (7,351 mm)
Maximum height	25'4" (7,722 mm)	12' (3,658 mm)	25'4" (7,722 mm)	24' (7,351 mm)
Curtain material	Painted galvanized steel/stainless steel	Painted galvanized steel	Painted galvanized steel/stainless steel	Painted galvanized steel/stainless steel
R-value**				4.5
Sound transmission class				21 STC[†]
Finish color	Gray/Tan/White/Brown	Gray/Tan/White/Brown	Gray/Tan/White/Brown	Gray/Tan/White/Brown
Available Options				
Fire Sentinel® time-delay release device	●	●	●	●
Smoke detectors	●	●	●	●
FireLite® vision lites	●	●	●	●
UL listed brush-type smoke seals	●	●	●	●
Windload (FBC, TDI, MiamiDade)	●		●	●
Operation options				
Push-up	Up to 80 sf (7.43 sm)	Up to 80 sf (7.43 sm)	Up to 80 sf (7.43 sm)	
Chain hoist	●	●	●	●
Crank	●	●	●	●
Electric motor	●	●	●	●
Locking option				
Slide locks or cylinder locking bottom bar w/mortise cylinder	●	●	●	●
Finish options				
Approximately 200 powder coat premium colors	●	●	●	●

* FM reviews designs for openings over 18' (5,486 mm) wide
  Information is subject to change. Please call your local Overhead Door™ Distributor for special applications or if your application is not listed. All 635 Series doors are chain hoist minimum.
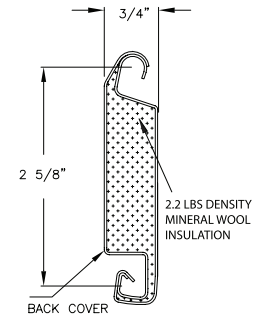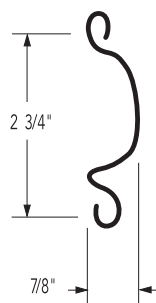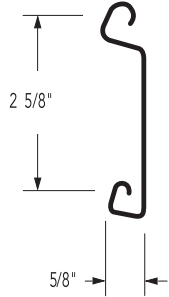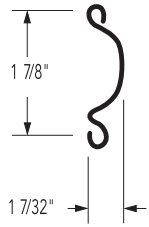
** R-value: Overhead Door Corporation uses a calculated door section R-value for our insulated doors.

† Sound transmission classification.

Slat data

C-187 slat	F-265 slat	C-275 slat	F-265i slat

1 7/8"
1 7/32"

2 5/8"
5/8"

2 3/4"
7/8"

3/4"
2 5/8"
2.2 LBS DENSITY MINERAL WOOL INSULATION
BACK COVER

630 Face-of-wall mounted (between jambs optional)

Slat	Opening width	Standard	Optional
C-187	Thru 14'0" (4,267 mm)	22 ga. steel	20 ga. steel or 22 ga. ss
	Thru 20'0" (6,096 mm)	20 ga. steel	18 ga. steel or 20 ga. ss
C-275	Thru 14'0" (4,267 mm)		22, 20, 18, 16 ga. steel or 22, 20 ga. ss
	Thru 20'0" (6,096 mm)	.	20, 18, 16 ga. steel or 20 ga. ss
	Thru 41'2" (12,548 mm)		18, 16 ga. steel
F-265	Thru 14'0" (4,267 mm)		22, 20 ga. steel or 22 ga. ss
	Thru 20'0" (6,096 mm)		20, 18 ga. steel or 20 ga. ss
	Thru 41'2" (12,548 mm)		18 ga. steel

631 Face-of-wall mounted (between jambs optional)

Slat	Opening width	Standard	Optional
C-187	Thru 14'0" (4,267 mm)	24 ga. steel	
F265	Thru 14'0" (4,267 mm)		24 ga. steel

634 Face-of-wall mounted

Slat	Opening width	Standard	Optional
C-187	Thru 20'0" (6,096 mm)	20 ga. steel	18 ga. steel or 20 ga. ss
C275	Thru 20'0" (6,096 mm)		20, 18 ga. steel or 20 ga. ss
	Thru 41'2" (12,548 mm)		18, 16 ga. steel
F265	Thru 20'0" (6,096 mm)		20, 18 ga. steel or 20 ga. ss
	Thru 41'2" (12,548 mm)		18 ga. steel

635 Face-of-wall mounted (between jambs optional)

Slat	Opening width	Standard	Optional
F265 with back cover	Thru 24'0" (7,315 mm)	24 ga. steel front 24 ga. steel back	22 ga. steel front 24 ga. steel back; 22 ga.ss front 24 ga. ss back;

Slats are galvanized and painted or stainless steel (ss).
Note: Maximum wall opening height for 22 ga. is 12'0" (3658 mm).

Maximum insulation

The mineral wool insulation material used in FireKing® insulated fire doors is compressed within the steel slat, completely and uniformly filling the slat for maximum insulation. Overhead Door™ products provide consistent quality in design and performance.

Color options

White   Gray   Tan   Brown

PowderGuard® Premium powder coat paint finish is available in approximately 200 RAL colors, or may be color matched to architect's specifications to best complement the look of the facility. PowderGuard® Zinc and PowderGuard® Textured finishes are also available.
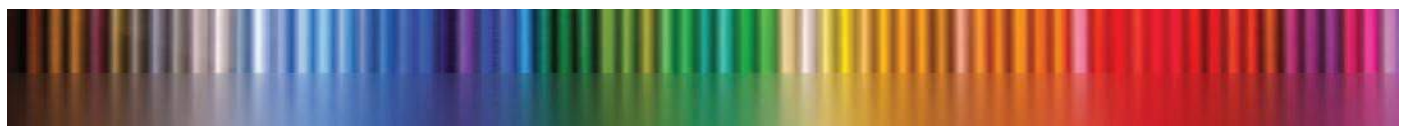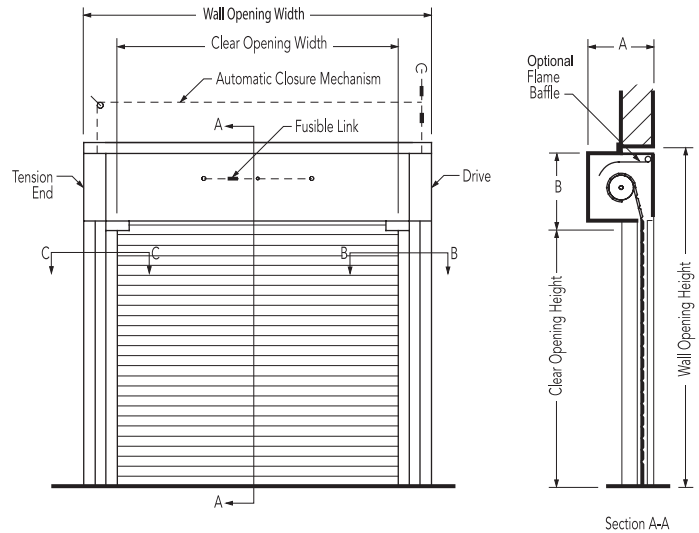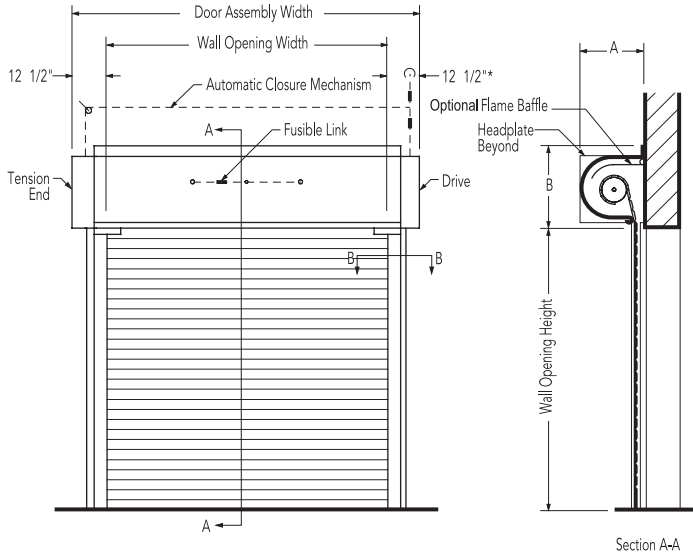

BLACK TO MATCH PROPOSED WINDOW FRAMES

Door clearance elevations

Operation: crank, chain hoist, electric
Chain hoist has only one sash chain located on drive side.

Face-of-wall mounted	Between jambs mounted

Face-of-wall mounted diagram labels: Door Assembly Width, Wall Opening Width, 12 1/2", Automatic Closure Mechanism, 12 1/2"*, A, Fusible Link, Tension End, Drive, Optional Flame Baffle, Headplate Beyond, A, B, B, B, Wall Opening Height, Section A-A

Between jambs mounted diagram labels: Wall Opening Width, Clear Opening Width, Automatic Closure Mechanism, A, Fusible Link, Tension End, Drive, C, C, B, B, A, Optional Flame Baffle, B, Clear Opening Height, Wall Opening Height, Section A-A

* Add 7" for crank operation.

* Options may effect clearance dimensions.
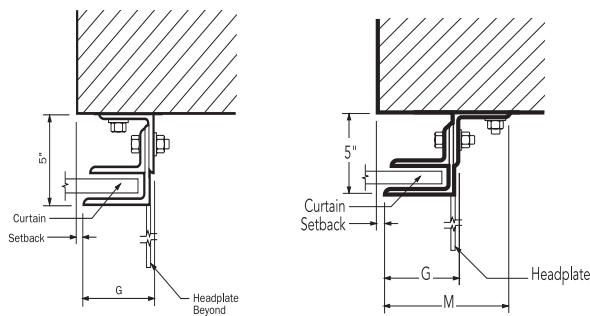 For more detailed information, consult your local Overhead Door™ Distributor.

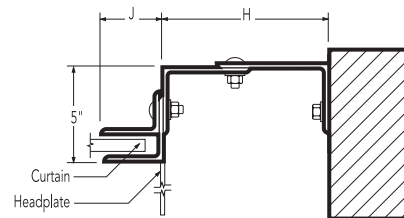## Angle guide

Face-of-wall mounted		Between jambs mounted
E guide	Z guide	

Section B-B

Labels: 5", Curtain Setback, G, Headplate Beyond, 5", Curtain Setback, G, M, Headplate

Drive Side - Electric, Chain or Crank
Section B-B

Labels: J, H, 5", Curtain, Headplate

Whenever expansion mounting bolts are used maintain a minimum of 6 bolt diameters from edge of wall.

Tension side & push-up drive side
Section C-C
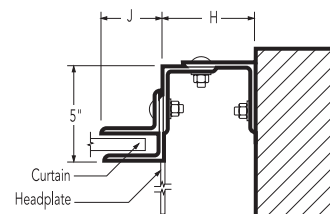
Labels: J, H, 5", Curtain, Headplate

Whenever expansion mounting bolts are used maintain a minimum of 6 bolt diameters from edge of wall.

Electric operators

Our broad line of electric operators suits new construction and retrofit applications, as well as unusual or special requirements. In order to improve safety and enhance door and motor life, industry quality assurance guidelines recommend the choice of a single manufacturer for both door and operator applications. Overhead Door® commercial operators are UL 325 2010 compliant.

Model RHX® FK

Model RHX® FK is a heavy duty motor featuring industrial gearbox in oil bath design. It offers unique features like LimitLock™, dual frequency radio system and 16 digit menu setup. Combined with FireKing® fire doors this system offers a unique floor resettable feature as well as providing for easy drop test and reset of fire door within seconds.

Model RSX® FDO

Model RHX® FDO is a standard duty motor specifically for fire door operation. While similar to RSX, this model has additional features including: floor level auto reset and timed delay of door drop upon alarm activation, automatic door open upon alarm reset, battery back-up and mechanical braking system.

Model RHX®

Model RHX® is a heavy duty commercial operator designed to operate doors up to 24' (7,315 mm) in height and 3696 pounds (1676 kg). Available as either a trolley, sidemount or centermount.

Model RSX®

Model RSX® is a standard duty commercial operator designed to operate doors up to 24' (7,315 mm) in height and 1620 pounds (735 kg). It offers unique features like LimitLock®, SuperBelt™ and 16 digit menu setup.

Electric operator selection guide

	Horsepower	Max. area of door*	Super Belt™	Worm gear	Adjustable clutch	Totally enclosed	Continous duty	Explosion proof	Mounting type
RHX® FK	1/2 HP, 3/4 HP, 1 HP, 3 HP	400 sq ft (37.161 sm)		•	•	•	•	•	F
RSX® FDO	1/2 HP, 3/4 HP 1 HP	400 sq ft (37.161 sm)	•	•	•	•	•		F, T
RHX®	1/2 HP, 3/4 HP 1 HP	480 sq ft (44.593 sm)		•	•	•	•	•	F, T, W
RSX®	1/2 HP, 3/4 HP 1 HP	168 sq ft (15.608 sm)	•		•	•	•		F, T, W

Mounting options:
F=Front of hood   W= Wall mount   T= Top of hood
* Based on slat profile, gauge steel and overall weight of door. Contact Distributor for appropriate motor selection.

Safety recommendations

We strongly recommend the use of interlock switches and an electric safety edge for all electrically operated rolling service doors. If a sensing edge or other reversing device is not installed, a constant-contact control switch must be used to close the door. We recommend a self-mounting, four-wire, fail-safe electric sensing device as defined by UL 325 2010. Contact your Overhead Door™ Distributor for more information.

With the optional selection of a commercial operator for the Fire Door system the floor resettable chain hoist is not available.

The automatic closing of the door must be tested at the time the door is installed, and the door shall be inspected and tested not less than annually as required by NFPA 80. This requirement applies to all fire doors – even those that are not used and remain in the closed position. The doors must be checked regularly for conditions that may affect the operation of the door.

Architect's Corner

A resource for architects, containing comprehensive technical and resource materials to support your project, including drawings and specifications for commercial doors.

www.overheaddoor.com

The original, innovative choice for unequalled quality and service.

Overhead Door Corporation pioneered the upward-acting door industry, inventing the first sectional garage door in 1921 and the first electric door operator in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door™ products more often than any other brand. Our family of over 400 Overhead Door™ Distributors across the U.S. and Canada not only share our name and logo, but also our commitment to excellence.

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2501 S. State Hwy. 121 Bus., Suite 200, Lewisville, TX 75067
1-800-929-DOOR • sales@overheaddoor.com
overheaddoor.com