

# ***WINDCODE®***

**ARE YOU READY FOR THE STORM?**



**upgrade**  
your expectations



# WINDCODE<sup>®</sup> COMMERCIAL DOORS

## DETERMINE YOUR WINDCODE<sup>®</sup> RATING

Clopay assigns a WINDCODE<sup>®</sup> “W” rating to our doors based on code requirements determined by wind speed in miles per hour (MPH), exposure and structural type.

### STEP 1:

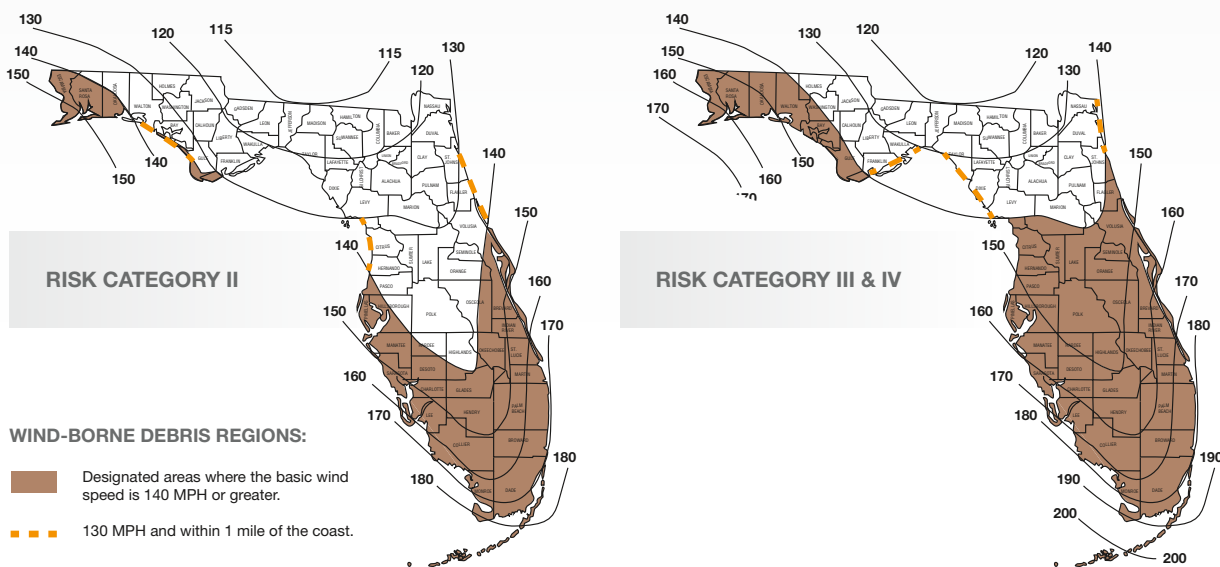
- Determine risk category.

**Category I** Buildings having low hazard to human life in the event of a failure. Potentially lower wind speeds refer to ATC site at [www.atcouncil.org/windspeed](http://www.atcouncil.org/windspeed).

**Category II** Buildings and other structures except those listed in Risk Categories III and IV.

**Category III** Buildings and other structures such as schools.

**Category IV** Buildings and other structures designated as essential facilities.



## WIND-BORNE DEBRIS

Any location rated for 130 MPH winds and within 1 mile of the coast requires this reinforcement in addition to any area rated for 140 MPH or more impact rating. Per ASC 7-1.

Miami-Dade and Broward Counties require all overhead doors meet the large missile impact rating, regardless if the overhead door has windows or not.

### STEP 2:

- Determine if your building is in an Exposure B, Exposure C or Exposure D region.

**Exposure B** is defined as urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions.

**Exposure C** is defined as open terrain with scattered obstructions including flat open ground and grasslands. All of Miami-Dade and Broward Counties is Exposure C, unless it meets Exposure D definition.

**Exposure D** is defined as being within 600 feet of the ocean front or other large body of water measuring at least 5,000 feet across.

### STEP 3:

- Using wind speed (MPH) and exposure, find your required design pressure and WINDCODE<sup>®</sup> “W” rating in the charts on page 3 or visit [www.clopaydoor.com/commercial](http://www.clopaydoor.com/commercial) and use the WINDCODE<sup>®</sup> calculator in the WINDCODE<sup>®</sup> commercial section under service and support.

## APPROXIMATE DESIGN PRESSURES

The design wind load pressure rating of a door is expressed in PSF (pounds per square foot). The design pressure of the door must equal or exceed the design pressure for the garage door opening in which a door is to be installed. Design pressure has positive and negative values.

For exact pressure go to the Clopay WINDCODE® Calculator at [www.clopaydoor.com/commercial-support-center](http://www.clopaydoor.com/commercial-support-center).

COMMERCIAL DOOR WIND LOAD GUIDE – VALUES IN PSF													
Mean Roof Height	Door Size	Based on the 2017 Florida Building Code, Exposure B, 100 – 200 MPH Ultimate Design Wind Speed, MPH (V_ult)											
Ultimate Wind Speed →		110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH	186 MPH	190 MPH	200 MPH
Less Than 30 Feet	8' x 8'	10.5 –11.9	11.5 –13.0	12.5 –14.2	14.8 –16.7	16.9 –19.1	19.5 –22.1	22.3 –25.2	25.3 –28.6	28.0 –31.7	30.0 –33.9	31.3 –35.5	34.8 –39.4
	10' x 10'	10.1 –11.4	11.1 –12.5	12.1 –13.6	14.3 –16.1	16.4 –18.4	18.9 –21.2	21.6 –24.2	24.4 –27.4	27.1 –30.4	29.0 –32.5	30.3 –34.0	33.7 –37.8
	14' x 14'	9.6 –10.7	10.6 –11.8	11.5 –12.8	13.6 –15.1	15.5 –17.3	17.9 –20.0	20.5 –22.8	23.2 –25.8	25.7 –28.7	27.5 –30.7	28.8 –32.1	32.0 –35.6
Equivalent Nominal Wind Speed →		85 MPH	89 MPH	93 MPH	101 MPH	108 MPH	116 MPH	124 MPH	132 MPH	139 MPH	144 MPH	147 MPH	155 MPH

Mean Roof Height	Door Size	Based on the 2017 Florida Building Code, Exposure C, 100 – 200 MPH Ultimate Design Wind Speed, MPH (V <sub>ult</sub> )											
Ultimate Wind Speed →		110 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	165 MPH	170* MPH	175** MPH	180 MPH	190 MPH	200 MPH
15 Feet Single Story	8' x 8'	12.7 -14.4	15.2 -17.2	18.0 -20.3	20.5 -23.2	23.7 -26.8	27.1 -30.6	28.8 -32.6	30.7 -34.7	32.3 -36.6	34.0 -38.5	38.0 -43.1	42.3 -47.9
	10' x 10'	12.3 -13.8	14.7 -16.5	17.4 -19.5	19.9 -22.3	22.9 -25.7	26.2 -29.4	27.9 -31.3	29.7 -33.3	31.3 -35.1	32.9 -36.9	36.8 -41.3	40.9 -45.9
	14' x 14'	11.7 -13.0	14.0 -15.6	16.5 -18.4	18.9 -21.0	21.8 -24.2	24.9 -27.7	26.5 -29.5	28.2 -31.4	29.7 -33.1	31.3 -34.8	35.0 -38.9	38.9 -43.3
25 Feet Double Story	8' x 8'	14.1 -15.9	16.8 -19.1	19.9 -22.5	22.7 -25.7	26.2 -29.7	29.9 -33.9	31.9 -36.1	33.9 -38.4	35.7 -40.5	37.6 -42.6	42.1 -47.6	46.8 -52.9
	10' x 10'	13.6 -15.3	16.3 -18.3	19.2 -21.6	22.0 -24.7	25.4 -28.4	29.0 -32.5	30.9 -34.6	32.8 -36.8	34.6 -38.8	36.4 -40.8	40.7 -45.7	45.3 -50.8
	14' x 14'	12.9 -14.4	15.5 -17.2	18.2 -20.3	20.9 -23.2	24.1 -26.8	27.5 -30.6	29.3 -32.6	31.2 -34.7	32.8 -36.6	34.6 -38.5	38.7 -43.0	43.0 -47.9
Equivalent Nominal Wind Speed →		85 MPH	93 MPH	101 MPH	108 MPH	116 MPH	124 MPH	128 MPH	132 MPH	136 MPH	139 MPH	147 MPH	155 MPH

Mean Roof Height	Door Size	Based on the 2017 Florida Building Code, Exposure D, 100 – 200 MPH Ultimate Design Wind Speed, MPH (V <sub>ult</sub> )											
Ultimate Wind Speed →		110 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	165 MPH	170 MPH	175 MPH	180 MPH	190 MPH	200 MPH
15 Feet Single Story	8' x 8'	15.4 -17.4	18.5 -20.9	21.8 -24.6	24.9 -28.2	28.7 -32.5	32.8 -37.1	35.0 -39.6	37.2 -42.1	39.2 -44.3	41.2 -46.7	46.1 -52.2	51.3 -58.0
	10' x 10'	14.9 -16.7	17.9 -20.0	21.1 -23.6	24.1 -27.0	27.8 -31.2	31.7 -35.6	33.8 -37.9	36.0 -40.4	37.9 -42.5	39.9 -44.7	44.6 -50.0	49.6 -55.6
	14' x 14'	14.2 -15.8	17.0 -18.9	20.0 -22.3	22.9 -25.5	26.4 -29.4	30.1 -33.6	32.1 -35.8	34.2 -38.0	36.0 -40.1	37.9 -42.2	42.4 -47.2	47.1 -52.4
25 Feet Double Story	8' x 8'	16.8 -19.0	20.1 -22.7	23.7 -26.8	27.1 -30.6	31.2 -35.3	35.7 -40.4	38.0 -43.0	40.4 -45.7	42.6 -48.2	44.8 -50.7	50.1 -56.7	55.7 -63.1
	10' x 10'	16.2 -18.2	19.4 -21.8	22.9 -25.7	26.2 -29.4	30.2 -33.9	34.5 -38.7	36.8 -41.3	39.1 -43.9	41.2 -46.2	43.4 -48.7	48.5 -54.4	53.9 -60.5
	14' x 14'	15.4 -17.1	18.4 -20.5	21.7 -24.2	24.9 -27.7	28.7 -31.9	32.8 -36.5	34.9 -38.9	37.1 -41.4	39.1 -43.6	41.2 -45.9	46.1 -51.3	51.2 -57.0
Equivalent Nominal Wind Speed →		85 MPH	93 MPH	101 MPH	108 MPH	116 MPH	124 MPH	128 MPH	132 MPH	136 MPH	139 MPH	147 MPH	155 MPH

Design Pressure based on flat roof (roof slope of less than 10 degrees).

WINDCODE® “W” RATING GUIDE											
EXPOSURE B											
Structural Type	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH	190 MPH	200 MPH	
One Story	W1	W4	W4	W4	W4	W5	W5	W6	W6	W8	
Two Story	W1	W4	W4	W4	W4	W5	W5	W6	W6	W8	
EXPOSURE C											
Structural Type	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170* MPH	175** MPH	180 MPH	190 MPH	200 MPH
One Story	W4	W4	W4	W4	W5	W6	W6	W8	W8	W8	W8
Two Story	W4	W4	W4	W5	W5	W6	W6	W8	W8	W8	W8
EXPOSURE D											
Structural Type	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	175 MPH	180 MPH	190 MPH	200 MPH
One Story	W4	W4	W4	W5	W6	W6	W8	W8	W8	W8	W8
Two Story	W4	W4	W5	W5	W6	W8	W8	W8	W8	W8	NA

\*Broward County is 170 MPH, Exposure C for most buildings. \*\*Miami-Dade County is 175 MPH, Exposure C for most buildings.

The design pressures listed are the minimum required. Recommended WINDCODE® levels meet or exceed the required design pressures.

MPH = miles per hour PSF = pounds per square foot

# making WINDCODE® easy

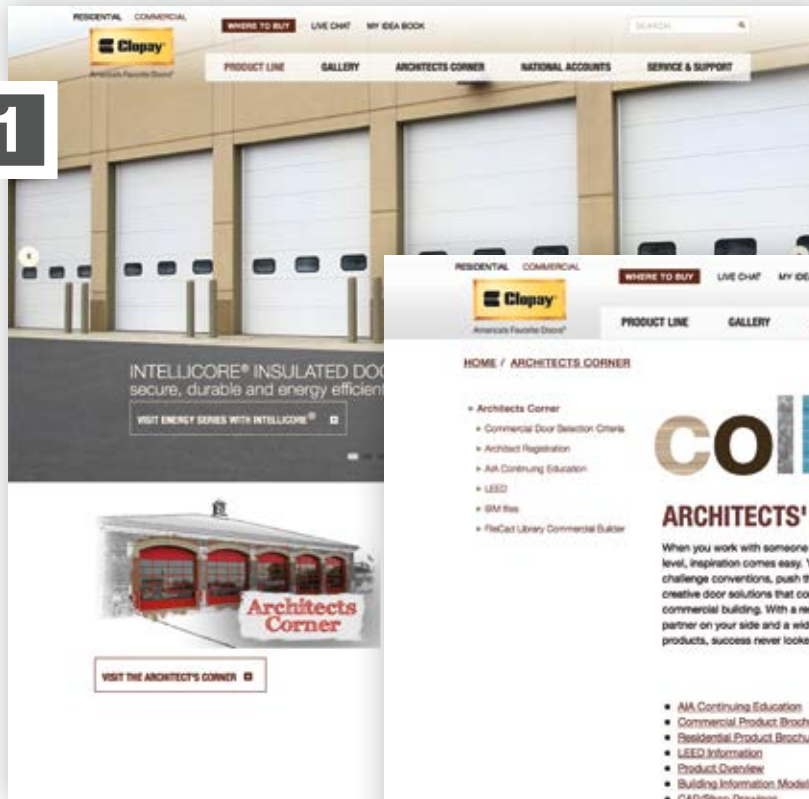
determine the WINDCODE® calculation for your door

Clopay has created the WINDCODE® Calculator to make this process easier for you.

## STEP 1:

Visit the Clopay Commercial website at [www.clopaycommercial.com](http://www.clopaycommercial.com).

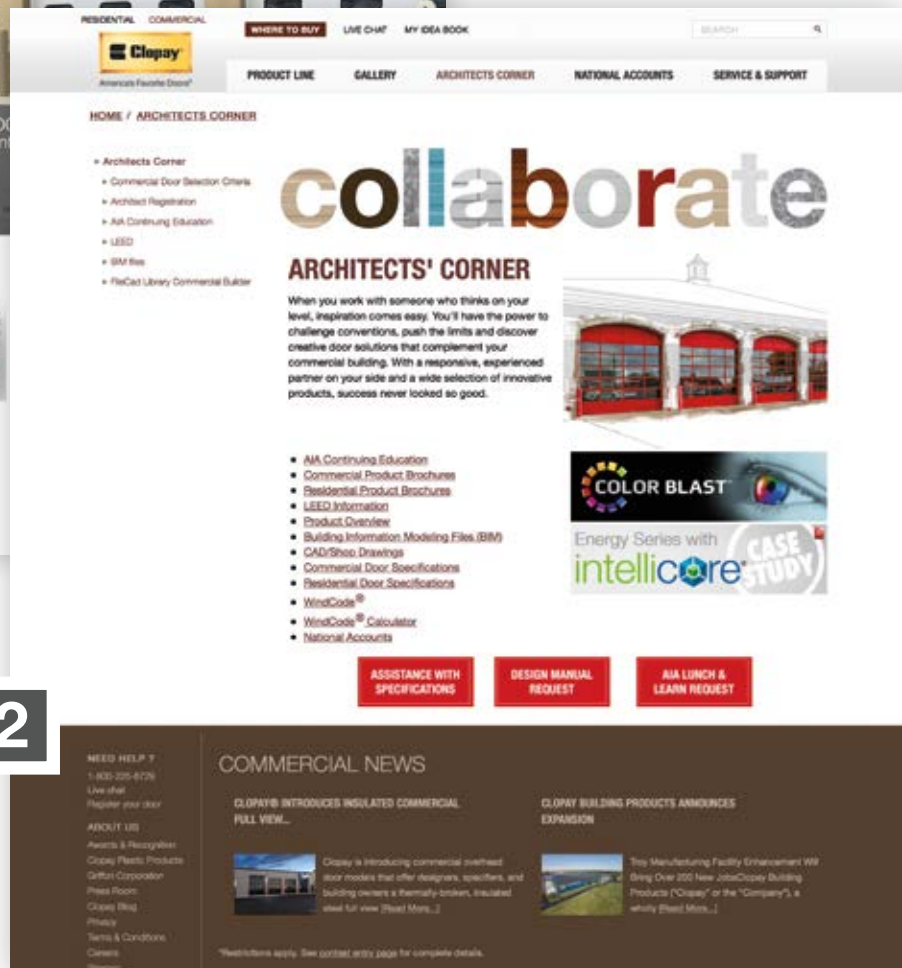
1



2

## STEP 2:

Click on Architects' Corner to access the WINDCODE® Calculator.



### STEP 3:

Fill out the WINDCODE® Calculator form to get your door wind load results at [www.clopaydoor.com/commercial-support-center](http://www.clopaydoor.com/commercial-support-center).

3

RESIDENTIALCOMMERCIAL

WHERE TO BUY

LIVE CHAT

MY IDEA BOOK

SEARCH

Clopay

America's Favorite Doors®

PRODUCT LINE

GALLERY

ARCHITECTS CORNER

NATIONAL ACCOUNTS

SERVICE & SUPPORT

HOME / WINDCODE COMMERCIAL / WINDCODE CALCULATOR

WINDCODE CALCULATOR

Enforcing Code Body ⓘ

Select

Wind Speed ⓘ

Enter value in mph

Exposure Category ⓘ

Select

Building Length

Ft

In

Building Width

Ft

In

Mean Roof Height (Maximum 60') ⓘ

Ft

In

Roof Angle

Select

Enclosure Classification ⓘ

Enclosed

Importance Factor  
(Not Applicable for FL, Miami-Dade County, IBC 2015, and IBC 2012) ⓘ

Select

DOOR INFORMATION ⓘ

Opening Width

Ft

In

Opening Height

Ft

In

Distance from Edge of Door to Corner of Building

Ft

In

Positive Design Pressure  
PSF value

Negative Design Pressure  
PSF value

CLICK TO CALCULATE

The output from the WindCode Calculator (the "output") provided on this website is approximate in nature, intended for preliminary design purposes only, and dependent on the accuracy of the information you provide. Please note that the local building official is the final determiner of the suitability of an installed garage door and its connections to any particular structure. Clopay Building Products offers no warranty or representation – express or implied – that use of the output will result in approval by the applicable governing building code body. Accordingly, users of any output from this website assume all liability arising from such use.





*Model 3724, 24'2" x 18' doors;  
shown with 24" x 12" Lites*

## Storm Ready® – No Posts, Pins Or Extra Setup. Just Close And Lock Your Door.

Clopay has been at the forefront of developing reinforced sectional doors that meet and exceed building codes around the globe. Our continued focus on this important issue puts our doors ahead of the competition when it comes to product approvals in hot zones like Miami-Dade County, Florida.

With a full line of overhead sectional doors in many different sizes, designs, insulation values and pressure ratings, we make it easy to protect your building with a Storm Ready WINDCODE® door.



- The patented T-Strut design helps make installation of WINDCODE® doors easier and faster. In addition, doors with the T-Strut take up less space than previous reinforcement techniques, providing a cleaner look inside the garage and more usable space for the owner.
- The new patented assembly for impact windows includes valuable features like the window frame sub-assemblies being interchangeable in a variety of sectional door panel thicknesses.

*Clopay's patents mentioned throughout are 9,022,091 for impact windows, D719,280 and D755,409 for tapered strut.*



# explore

## your choices

Clopay offers a diverse selection of commercial doors that are uniquely suited to meet a wide array of specifications. Whether your primary need is durability, energy efficiency or versatility, Clopay has a door that will help you transform your space.



	ARCHITECTURAL SERIES Aluminum Full-View Doors	ARCHITECTURAL SERIES Steel Full-View Doors	ENERGY SERIES WITH INTELICORE® Polyurethane Insulated Steel Doors	ENERGY SERIES Polystyrene Insulated Steel Doors	INDUSTRIAL SERIES Ribbed Steel Doors	ROLLING STEEL SERIES Rolling Steel Doors
EASE OF OPERATION	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★
APPEARANCE/DESIGN	★★★★★	★★★★★	★★★★★	★★★★★	★★★	★★
DURABILITY	★★★★★	★★★★★	★★★★★	★★★★★	★★★	★★★★★
COST OF OWNERSHIP	★★★	★★	★★	★★	★★★	★
ENERGY EFFICIENCY	★★	★★★★	★★★★★	★★★★★	★★★	★★
INITIAL COST	★★★★	★★★★	★★★	★★	★★	★★★★★



Model 903, 12'2" x 14' black anodized doors; shown with tempered insulated glass

## ALUMINUM FULL-VIEW DOORS

Clopay Aluminum Full-View doors offer designers the flexibility to let varying degrees of light in while complementing the surrounding structure. A wide selection of standard and custom glazing types make a bold statement in retail and store environments.

- 2-1/8" (54 mm) thick construction, 6063-T5 extruded aluminum alloy with integral reinforcing fin for maximum durability.
- Exclusive, capped rail construction helps seal out the elements and adds to door durability.
- Tongue-and-groove meeting rail.
- Available in a wide variety of powder-coated and anodized finish colors.
- Many glazing options available, including thermal glass, Low-E glass and polycarbonate panels in various colors.
- Model 902 features 44" (1.1 m) on center panel spacing with limited glazing options. Model 903 is fully customizable and features equal panel spacing.



Integral reinforcing fin adds durability and strength.



## PANEL OPTIONS



Full View



Solid Aluminum

Higher wind loads may require extra center stiles.

## GLASS/PANEL OPTIONS



Clear Glass



Gray Tinted Glass



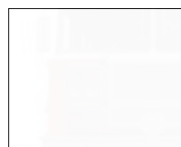
Bronze Tinted Glass



Mirrored Glass\*



Obscure Glass



White Laminate Glass\*



Frosted Glass or Acrylic



Clear Acrylic



Gray Acrylic



White Acrylic



Clear Polycarbonate



Bronze Polycarbonate



Clear Anodized (Aluminum Panel)

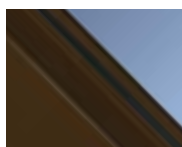
## FRAME/SOLID PANEL COLOR OPTIONS



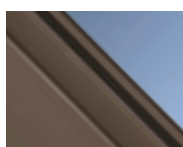
Clear Aluminum (Anodized)



Standard White



Bronze (Painted)



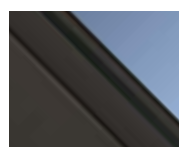
Chocolate (Painted)



Bronze (Anodized)



Black (Anodized)



Dark Bronze (Anodized)

\*Mirrored and laminate not available in 1/2".

Glass thickness available in 1/8", 1/4" and 1/2". Low-E available on insulated glass. Tri-wall polycarbonate thickness available in 1/2".

Panels can be aluminum to match the aluminum frame. Glass/acrylic panels may be combined with aluminum panels.

Due to the anodizing process, slight color variation may occur. The use of "Bronze (Painted)" is recommended for a more consistent bronze finish color.

Custom powder coat and anodized finishes available. See your Clopay Dealer for details.

Acrylic windows require special cleaning. Never use products that contain ammonia or petroleum products to clean acrylic. Please visit [clopaydoor.com/acrylic](http://clopaydoor.com/acrylic) for complete details.

## WINDCODE® AVAILABILITY

	Model	Drawing #	Max. Width	Max. Height	PSF	Reinforcement	Florida Approved STANDARD
<b>W4</b>	902/903	103332	24'2"	18'0"	+25/-25	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)	■
<b>W5</b>	902/903	103275	12'2"	18'0"	+32/-32	2" x 2" Aluminum Angle (2-1-1-1)	■
		103294	16'2"	18'0"	+32/-32	4" C-Channel (1-1-1-1)	■
		103295	16'2"	18'0"	+30/-30	2" x 2" Aluminum Angle (2-1-1-1) with offset plates	■
		103296	20'2"	18'0"	+30/-30	6" C-Channel (1-1-1-1)	■
		103324	22'2"	18'0"	+30/-30	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)	■
<b>W6</b>	902/903	103800	22'2"	18'0"	+33/-34	6" C-Channel (1-1-1-1) 3" U-Bar (2-2-2-2) 2" x 2" Aluminum Angle (1-1-1-0)	■

# architectural series

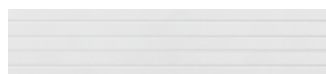
## STEEL FULL-VIEW DOORS

Clopay Steel Full-View doors are high quality doors designed for commercial and industrial facilities where ease of maintenance, versatility and durability considerations are all important.

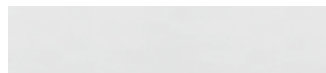
- Sandwich construction – Intellicore® polyurethane 2" (50.8 mm) insulation, provides maximum strength and energy efficiency.
- Steel-sandwich construction enhances durability and strength.
- Foamed-in-place Intellicore® polyurethane adds R-value up to 18.4\*.
- Thermal break enhances insulating properties for extreme energy efficiency.
- Door includes hardware, track and springs.
- Ten-year paint and delamination warranty.

\* R-value is impacted by the number of windows and window type per section. Calculated R-values for doors featuring a full row of windows, in both insulated and non-insulated glass, is available on our website. Calculated door section R-value is in accordance with DASMA TDS-163.

### PANEL OPTIONS



Minor Ribbed  
(3729)



Flush – Stucco Embossed  
(3728)

### WINDOW OPTIONS




19-1/2" x 16"  
(3728, 3729)



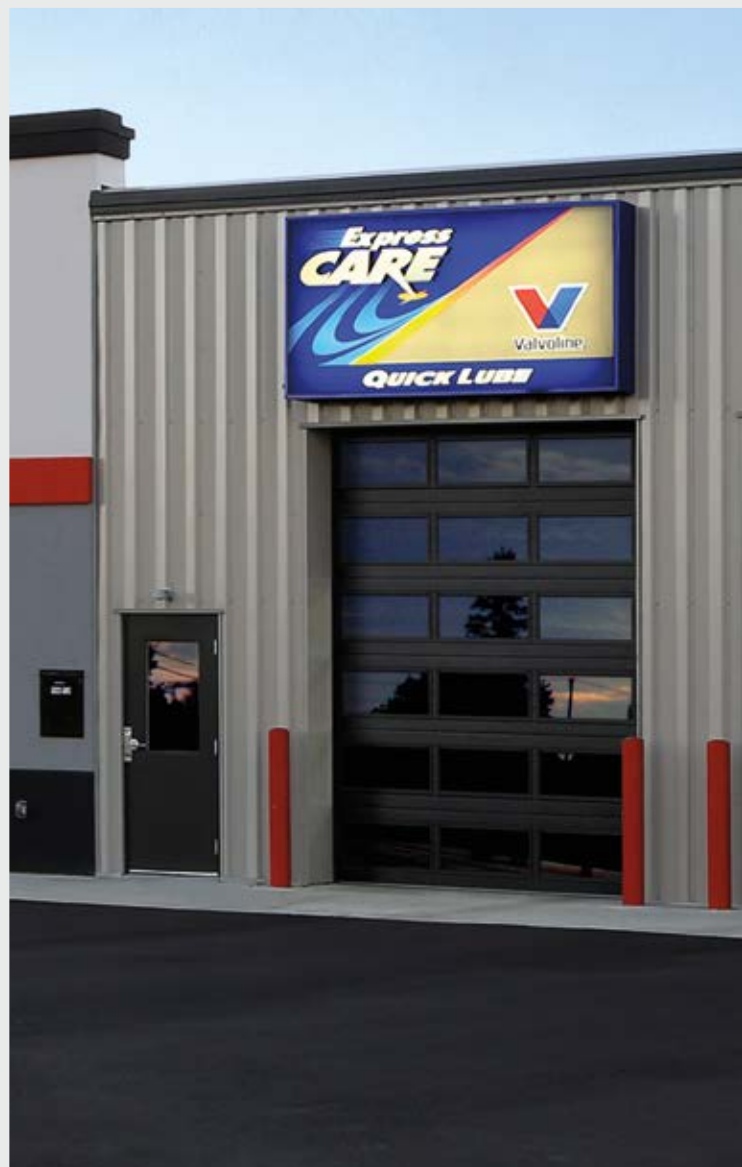
42" x 16"  
(3728, 3729)

*Window heights may vary based on section height.*

 Impact rated windows available













Model 3729, 16'2" x 14' door; shown with 42" x 16" Lites





Model 3728, 12' x 14' doors;  
shown with 42" x 16" Lites

WINDCODE® AVAILABILITY									
	Model	Drawing Number	Max. Width	Max. Height	PSF	Reinforcement	Florida Approved STANDARD	Florida Approved IMPACT RATED	Miami-Dade County
W6	3728, 3729	104859	9'2"	18'0"	+38/-42	3" U-Bar (2-1-2-1)	■	■ 	■ 
		105042	16'2"	18'0"	+38/-42	80 KSI T-Strut (1-1-1-1) 3" U-Bar (1)	■	■ 	■ 
		105188	16'4"	18'2"	+38/-42	80 KSI T-Strut (1-1-1-1) 3" U-Bar (1)	■	■ 	■ 
W8	3728, 3729	105024	9'2"	18'0"	+54/-62	50 KSI T-Strut (1-1-1-1) 3" U-Bar (1)		■ 	■
		105050	12'2"	18'0"	+50/-56	50 KSI T-Strut (1-1-1-1) 3" U-Bar (1)		■ 	
		105019	14'2"	18'0"	+46/-52	80 KSI T-Strut (1-1-1-1) 80 KSI 3" U-Bar (1-0-1-0)		■ 	
		105002	16'2"	18'0"	+46/-52	80 KSI T-Strut (1-1-1-1) 80 KSI 3" U-Bar (1-1-1-1)		■ 	■

# energy series with intellicore®

## POLYURETHANE INSULATED STEEL DOORS

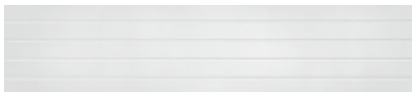
Innovative Intellicore® insulation technology with a polyurethane core increases energy savings and provides enhanced comfort. Our premier Model 3700 Series is a smart choice for climate-controlled warehouses, schools, office spaces and retail locations.

- Sandwich construction – Intellicore® polyurethane 1-3/4" (44.5 mm) Models 3717 and 3718, or 2" (50.8 mm) Models 3720, 3722, 3723 and 3724 insulation, with prepainted steel on the inner skin provides maximum strength and energy efficiency inside and out.
- Embossed steel increases strength and improves aesthetics.
- Foamed-in-place Intellicore® polyurethane adds R-value up to 18.4\*.
- Tongue-and-groove section joint for exceptional strength and thermal sealing.
- Door includes hardware, track and springs.
- Ten-year paint and delamination warranty.

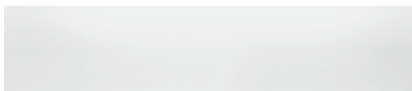
\*Calculated door section R-value is in accordance with DASMA TDS-163.



### PANEL OPTIONS



Minor Ribbed (3717, 3720, 3724)



Flush (3718, 3722)



Elegant Raised (3723)

### WINDOW OPTIONS



24" x 8"



Full View†



19-1/2" x 12"



24" x 12"



26" x 13"



Impact rated windows available

†Higher wind loads may require extra center stiles.

**intellicore®**  
insulation technology

### COOLER. QUIETER. STRONGER.

Commercial doors featuring Intellicore® insulation technology represent the ultimate smart choice. Clopay's Intellicore® is a proprietary polyurethane foam that is injected into the door, expanding to fill the entire structure. The result is a door with incredible strength and durability. Its dense insulation also produces a quieter door, while its industry-leading R-values (up to 18.4) provide year-round comfort and improved energy efficiency.



#### COOLER

Energy efficiency provides year-round comfort

#### QUIETER

Dense insulation reduces noise by up to 16 decibels















#### STRONGER

Enhanced strength resists everyday wear and tear





Model 3724, 22'2" x 14' doors; shown with 24" x 8" Lites

WINDCODE® AVAILABILITY									
	Model	Drawing #	Max. Width	Max. Height	PSF	Reinforcement	Florida Approved STANDARD	Florida Approved IMPACT RATED	Miami-Dade County
W4	3717, 3718, 3720, 3722	104993	9'2"	18'0"	+25/-25	None	■		
		104040	10'2"	18'0"	+25/-25	2-1/4" U-Bar (1-0-1-0)	■		
		104640	12'2"	18'0"	+25/-28	2-1/4" U-Bar (2-1-1-1)			
		104956	14'2"	18'0"	+25/-25	3" U-Bar (2-1-1-1)	■		
		104101	20'2"	18'0"	+25/-28	6" C-Channel (1-1-1-1)			
		104642	24'2"	18'0"	+25/-25	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)			
W5	3717, 3718, 3720, 3722	104044	14'2"	18'0"	+30/-34	3" U-Bar (2-1-2-1)	■		
	3717, 3718, 3720, 3722, 3723	104643	16'2"	18'0"	+30/-32	3" U-Bar (2-2-2-2)			
	3717, 3718, 3720, 3722, 3724	104644	22'2"	18'0"	+30/-30	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)			
W6	3717, 3718, 3720, 3722	104039	10'2"	18'0"	+37/-44	3" U-Bar (2-1-1-1)	■	■ 	■ 
		104043	14'2"	18'0"	+37/-42	3" U-Bar (2-2-2-2)	■		
		104861	14'2"	18'0"	+36/-40	3" U-Bar (2-2-2-2)	■	■ 	■ 
		104801	16'2"	18'0"	+37/-42	80 KSI T-Strut (1-1-1-1)	■	■ 	■ 
		104826	18'2"	18'0"	+36/-40	80 KSI T-Strut (1-1-1-1) 3" U-Bar (1-1-1-1)	■	■ 	■ 
W8	3717, 3718, 3720, 3722	104815	12'2"	18'0"	+52/-58	50 KSI T-Strut (1-1-1-1)		■ 	■ 
		104842	14'2"	18'0"	+52/-58	80 KSI T-Strut (1-1-1-1)		■ 	■ 
	3720, 3722	104900	16'2"	18'0"	+50/-58	80 KSI T-Strut (1-1-1-1) 80 KSI 3" U-Bar (1-1-1-1)		■ 	■ 

# energy series

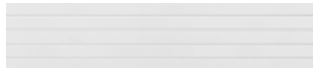
## POLYSTYRENE INSULATED STEEL DOORS

The Energy Series features high-quality, insulated, thermally broken steel doors providing energy efficiency and long service under demanding conditions. For use in many applications including municipal buildings, warehouses and shipping docks.

- Sandwich construction – polystyrene insulation 2" (50.8 mm)  
Models 3220, 3200, 3203; thick insulated "sandwich" construction consists of exterior and interior steel skins pressure bonded to an environmentally safe polystyrene core for strength and quieter operation.
- Polystyrene insulation adds R-value up to 9.1\*.
- Prepainted inside and out for a durable and virtually maintenance-free finish.
- Ten-year warranty against delamination and rust-through.

\*Calculated door section R-value is in accordance with DASMA TDS-163.

### PANEL OPTIONS



Minor Ribbed (3200)

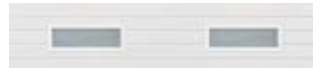


Flush (3220)



Elegant Raised (3203)

### WINDOW OPTIONS



24" x 8"



24" x 12"



Full View†



19-1/2" x 12"

†Higher wind loads may require extra center stiles.

### RUST-PREVENTION SYSTEM



Panels are prepainted inside and out to inhibit rust. Hot-dipped, galvanized steel is painted with primer and given a tough oven-baked polyester top coat to provide the most rust-resistant steel door available. Ten-year warranty against rust-through.



*Model 3200, 12' 2" x 14' doors; shown with 24" x 8" Lites*





WINDCODE® AVAILABILITY									
	Model	Drawing #	Max. Width	Max. Height	PSF	Reinforcement	Florida Approved STANDARD	Florida Approved IMPACT RATED	Miami-Dade County
W4	3203	101758	9'0"	14'0"	+24/-26	2-1/4" U-Bar (varies)	■		
	3203	101760	16'0"	14'0"	+25.5/-25.5	3" U-Bar (2-1-1-1)	■		
	3200, 3220	104994	9'2"	18'0"	+25/-25	None	■		
		101687	12'2"	18'0"	+25/-28	2-1/4" U-Bar (2-1-1-1)	■		
		104971	14'2"	18'0"	+25/-25	3" U-Bar (2-1-1-1)	■		
		101682	20'2"	18'0"	+25/-28	6" C-Channel (1-1-1-1)	■		
		103334	24'2"	18'0"	+25/-25	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)	■		
W5	3200, 3220	200040	16'2"	18'0"	+30/-32	3" U-Bar (2-2-2-2)	■		
		103320	22'2"	18'0"	+30/-30	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)	■		
W6	3200, 3220	101617	10'2"	18'0"	+37/-40	3" U-Bar (2-1-1-1)	■		
		101678	12'2"	18'0"	+40/-40	3" U-Bar (2-1-2-1)	■		
W8	3200	101705	12'2"	18'0"	+52/-58	4" C-Channel (1-1-1-1)		■	

# industrial series

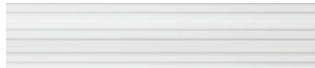
## RIBBED STEEL DOORS

Industrial Series doors feature a variety of standard ribbed, flush and embossed patterns such as stucco and woodgrain. Available in a wide selection of gauges for pro-grade durability, this series is a great choice for high-traffic applications including warehouses, distribution centers and loading docks.

- Clopay's 20, 24 and 25 gauge steel sectional doors are prepainted inside and out for a virtually maintenance-free, durable finish.
- Tog-L-Loc® construction eliminates welds and rivets for rust-resistant and leak-proof joints.
- Available with insulation on models 520S, 524V, 524S, 525V, 525S, 664V and 4F for maximum energy efficiency. R-value up to 6.6\*.
- Ten-year warranty against rust-through.

\*Calculated door section R-value is in accordance with DASMA TDS-163.

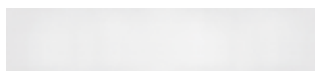
### PANEL OPTIONS



Deep Ribbed (525, 524, 520)



Classic Raised (664, 664V)



Flush (4F)

### WINDOW OPTIONS



24" x 6"



24" x 12"



Full View†



19-1/2" x 12"

†Higher wind loads may require extra center stiles.

### RUST-PREVENTION SYSTEM



Panels are prepainted inside and out to inhibit rust. Hot-dipped, galvanized steel is painted with primer and given a tough oven-baked polyester top coat to provide the most rust-resistant steel door available. Ten-year warranty against rust-through.

Model 520, 10'2" x 14' doors; shown with 24" x 6" Lites



2" ribbed steel doors are available with polystyrene insulation or non-insulated



# WINDCODE® AVAILABILITY

	Model	Drawing #	Max. Width	Max. Height	PSF	Reinforcement	Florida Approved STANDARD	Florida Approved IMPACT RATED	Miami-Dade County
W4	525, 525V, 525S, 524, 524V, 524S, 520, 520S	101856	12'2"	18'0"	+25/-25	3" U-Bar (2-1-1-1)	■		
	524, 524V, 524S, 520, 520S	101886	16'2"	18'0"	+25/-25	4" C-Channel (1-1-1-1)	■		
		102126	20'2"	18'0"	+25/-25	6" C-Channel (1-1-1-1)	■		
		103333	24'2"	18'0"	+25/-25	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)	■		
W5	524, 524V, 524S, 520, 520S	101874	8'2"	18'0"	+30/-30	2-1/4" U-Bar (1-1-1-1)	■		
		101875	10'2"	18'0"	+30/-30	3" U-Bar (1-1-1-1)	■		
		101869	12'2"	18'0"	+30/-30	3" U-Bar (2-2-2-2)	■		
		101885	16'2"	18'0"	+32/-32	4" C-Channel (1-1-1-1)	■		
		103319	22'2"	18'0"	+30/-30	6" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)	■		
W6	524, 524V, 524S, 520, 520S	102445	10'2"	18'0"	+37/-42	3" U-Bar (2-1-2-1)	■		■
		102446	12'2"	18'0"	+37/-42	3" U-Bar (2-2-2-2)	■		
		104811	12'2"	18'0"	+36/-42	3" U-Bar (2-2-2-2)		■	■
		102585	14'2"	18'0"	+37/-48	4" C-Channel (1-1-1-1)	■		
		104924	14'2"	18'0"	+38/-42	50 KSI T-Strut (1-1-1-1)		■	■
	524, 520	104858	16'2"	18'0"	+38/-42	80 KSI T-Strut (1-1-1-1)		■	■
	4F	104753	16'2"	16'0"	+38/-42	50 KSI T-Strut (1-1-1-1)	■	■	■
		104761	18'2"	16'0"	+36/-42	80 KSI T-Strut (1-1-1-1) 80 KSI 3" U-Bar (1-0-1-0)	■	■	■
W7	4F	101702	9'0"	16'0"	+42/-48	2-1/4" U-Bar (1-1-0-1)		■	■
W8	524, 520	102645	12'2"	18'0"	+50/-56	4" C-Channel (1-1-1-1)		■	
		104813	12'2"	18'0"	+52/-58	50 KSI T-Strut (1-1-1-1)		■	■
		103288	14'2"	18'0"	+50/-56	4" C-Channel (1-1-1-1) 3" U-Bar (1-1-1-1)		■	
		104812	14'2"	18'0"	+52/-58	80 KSI T-Strut (1-1-1-1) 80 KSI 3" U-Bar (1-1-1-1)		■	■
	4F	103547	9'0"	16'0"	+48/-54	3" U-Bar (2-2-2-2)		■	■
		104754	16'2"	16'0"	+46/-20	80 KSI T-Strut (1-1-1-1)		■	■
W9	4F	104847	9'0"	16'0"	+62/-72	50 KSI T-Strut (1-1-1-1)		■	■

# COLOR OPTIONS – SECTIONAL DOORS



Due to the printing process, colors may vary.

AVAILABILITY	Standard White	Glacier White	Almond	Desert Tan	Sandtone	Commercial Tan	Bronze	Chocolate	Mocha Brown	Hunter Green	Gray	Charcoal	Black	Trinar® White	Trinar® Beige
525, 525V, 525S	■							■							
524, 524V, 524S	■					■		■			■			■	
520, 520S	■							■							
4F	■		■	■	■			■							
3200	■					■		■			■		■	■	
3220	■							■							
664, 664V	■		■	■	■			■							
3203	■		■	■	■	■		■			■		■	■	■
3717, 3718	■	■				■		■	■		■	■		■	■
3720	■	■				■		■	■		■	■		■	■
3722	■							■							
3723	■		■	■	■	■		■				■			
3724	■					■		■			■		■	■	
3728, 3729	■	■	■	■	■		■	■	■		■	■	■	■	

For Model 902/903 color availability please refer to page 9

# CUSTOM PAINT OPTION



Color Blast® offers more than 1,500 Sherwin-Williams® color options to complement your building design. Clopay's durable factory finish has been thoroughly tested and is backed by a five-year warranty. To view color offering visit [sherwin-williams.com/architects-specifiers-designers](http://sherwin-williams.com/architects-specifiers-designers).

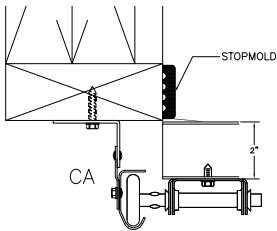
- High-quality durable two-part Polane® paint system meets American Architectural Manufacturing Association 2604 standards.
- Touch-up paint available at local Sherwin-Williams stores.
- Solar reflective paint technology results in lower surface temperatures compared with standard paints.
- Provide the Sherwin-Williams 4-digit color code to get your perfect match.

Due to solar reflective formulation to meet greater than a 38 LRV some colors may not be available.

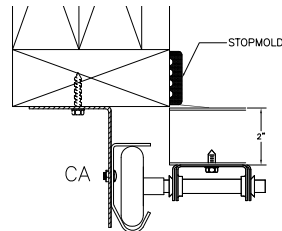


# FRAMING AND TRACK OPTIONS

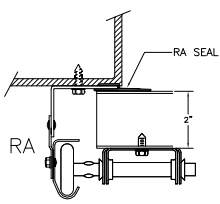
## JAMB TYPES *(shown from above)*



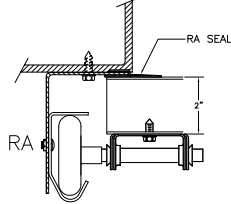
**2" WOOD JAMB**



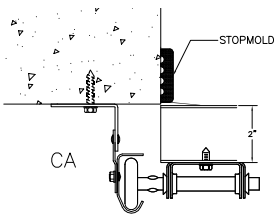
**3" WOOD JAMB**



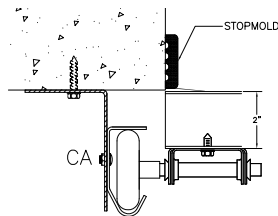
**2" STEEL JAMB**



**3" STEEL JAMB**

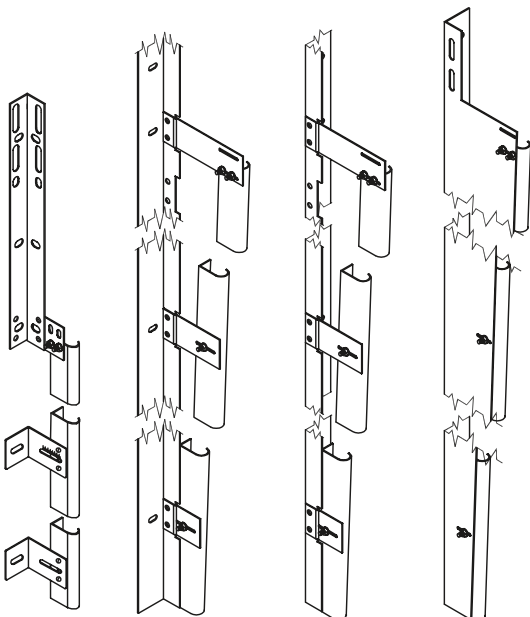


**2" MASONRY JAMB**



**3" MASONRY JAMB**

## VERTICAL TRACK MOUNTING OPTIONS



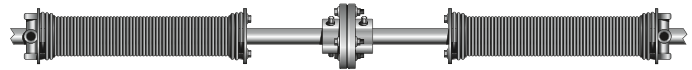
**BRACKET MOUNT**

**CONTINUOUS ANGLE MOUNT**

**REVERSE ANGLE MOUNT**

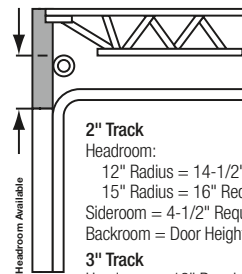
**TAPERED REVERSE ANGLE MOUNT**

## HIGH CYCLE SPRINGS



25,000, 50,000 or 100,000 cycle springs available.

## STANDARD RADIUS



### 2" Track

Headroom:

12" Radius = 14-1/2" Required

15" Radius = 16" Required

Sideroom = 4-1/2" Required

Backroom = Door Height + 23" Required

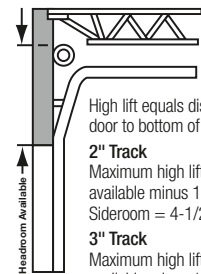
### 3" Track

Headroom = 18" Required

Sideroom = 5-1/2" Required

Backroom = Door Height + 25" Required

## HIGH LIFT



High lift equals distance from top of door to bottom of horizontal track.

### 2" Track

Maximum high lift equals headroom available minus 14"

Sideroom = 4-1/2" Required

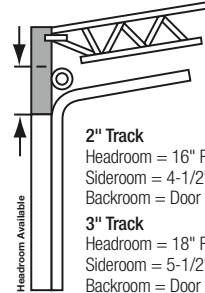
### 3" Track

Maximum high lift equals headroom available minus 15"

Sideroom = 5-1/2" Required

(Minimum high lift = 12" Required)

## ROOF PITCH



### 2" Track

Headroom = 16" Required

Sideroom = 4-1/2" Required

Backroom = Door Height + 23" Required

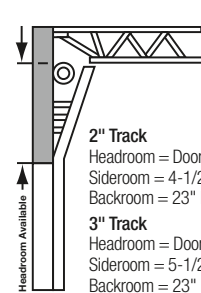
### 3" Track

Headroom = 18" Required

Sideroom = 5-1/2" Required

Backroom = Door Height + 25" Required

## VERTICAL LIFT



### 2" Track

Headroom = Door Height + 12" Required

Sideroom = 4-1/2" Required

Backroom = 23" Required

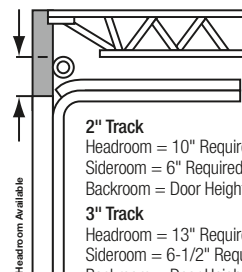
### 3" Track

Headroom = Door Height + 12" Required

Sideroom = 5-1/2" Required

Backroom = 23" Required

## LOW HEADROOM FRONT MOUNT



### 2" Track

Headroom = 10" Required

Sideroom = 6" Required

Backroom = Door Height + 23" Required

### 3" Track

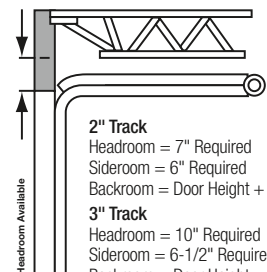
Headroom = 13" Required

Sideroom = 6-1/2" Required

Backroom = Door Height + 25" Required

(1,200 lb. limit on door weight)

## LOW HEADROOM REAR MOUNT



### 2" Track

Headroom = 7" Required

Sideroom = 6" Required

Backroom = Door Height + 30" Required

### 3" Track

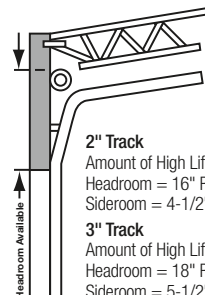
Headroom = 10" Required

Sideroom = 6-1/2" Required

Backroom = Door Height + 32" Required

(800 lb. limit on door weight)

## HIGH LIFT WITH ROOF PITCH



### 2" Track

Amount of High Lift + 16"

Headroom = 16" Required

Sideroom = 4-1/2" Required

### 3" Track

Amount of High Lift + 18"

Headroom = 18" Required

Sideroom = 5-1/2" Required

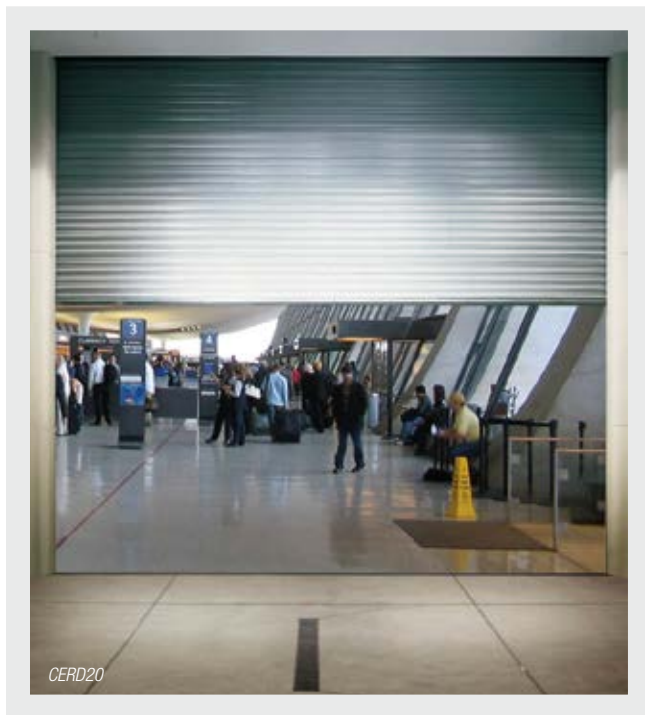
Headroom = Top of door to nearest obstruction (truss)

**Note:** Up to 4" of additional headroom may be required for a trolley door opener.

# rolling steel series

## ROLLING SERVICE DOORS

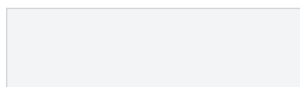
- Constructed of a high percentage of recycled material and designed with ease of maintenance and longevity in mind, increasing the sustainability of most applications.
- Curtains are available in prefinished galvanized steel, stainless steel or anodized aluminum finishes. Guides, bottom bars and headplates are powder-coat finished for aesthetics and increased durability.
- Practical innovations enhanced by the aesthetic appeal ensure that a Clopay door adds value to any building exterior, combining maximum security with modest operating costs.
- Doors can be operated manually with standard chain hoist, or they can be motor operated. Optional manual crank operation is also available.



## FIRE-RATED DOORS

- Manufactured to the stringent qualities of full-duty service doors, yet easily meet the most current fire protection standards.
- Operational choices include fail-safe motor-operated systems, hand crank (manual) and standard chain hoist operated systems.
- UL, FM and ULC labeled for fire protection up to four hours to meet today's fire protection demands.
- Clopay fire doors may be easily and repeatedly drop tested and reset from the floor with no tool or equipment requirements.
- The service durability, simplicity of ownership and proven fire protection with E-Z reset option [standard on doors larger than 9' x 9' (2.7 m x 2.7 m)] make Clopay fire doors a logical choice for informed design professionals.

## COLOR OPTIONS—ROLLING DOORS



White



Tan



Gray

Custom powder coat  
RAL colors available.

*Due to the printing process, colors may vary.*



# rolling steel series

## ROLL-UP SHEET DOORS

- 26 gauge hot-dipped galvanized steel curtain with a baked-on silicone polyester top coat.
- Roll-formed guides of hot-dipped galvanized steel (18 gauge 150C, 16 gauge 157C and 12 gauge 160C).
- Self-lubricating wearstrips on curtain prevent metal-to-metal contact and muffle door noise.
- Curtains are prepainted inside and out to inhibit rust. Hot-dipped, galvanized steel is painted with primer and given a tough oven-baked silicone polyester top coat to provide the most rust-resistant steel door available.
- Heavy-duty bottom bar withstands the external elements.
- Full bulb-type bottom weatherstrip ensures proper fit along irregular floors.
- WindCode® doors are available in many sizes and pressure ratings. See your Clopay Dealer for details.



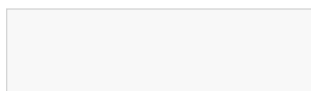
### CORRUGATED PANEL DESIGN

26 gauge sheets, roll formed from ASTM A653 grade 80 full hard steel, interlocked and seamed together to make a continuous curtain for full height of door. *Model 157C shown.*

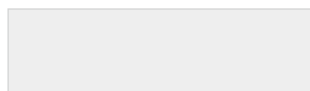


*Model 157C, Roll-Up Sheet Door*

## COLOR OPTIONS – ROLL-UP DOORS



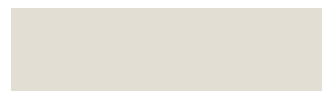
Glossy White



White



Silhouette Gray



Light Stone



Desert Tan



Sandstone



Bronze



Continental Brown



Cedar Red



Valentine Red



Tangerine



Sunset Orange



Marine Green



Teal



Dark Teal



Fern Green



Evergreen



Forest Green



Royal Blue



Polar Blue

*Due to the printing process, colors may vary.*

*All colors are backed by a film integrity warranty for 40 years guaranteed to hold up against cracking, checking or peeling. In addition, these colors are guaranteed not to chalk or fade for 25 years.*

## COMMERCIAL OPERATORS

**LiftMaster**  
GARAGE DOOR OPENERS



Clopay offers a full line of commercial openers designed to fit most applications.

- Jackshaft and trolley-driven openers to meet design and power requirements.
- Latest technology including MyQ® Technology to monitor or control the operator with Wi-Fi and smart phone capabilities.
- Available for single or three-phase power.
- Belt driven or gear driven to meet your specification requirements.
- Solenoid brakes are available on most models.
- Full line of safety equipment and accessories.



## OPERATOR ACCESSORIES

- Sensing edges.
- Red/green traffic lights.
- Loop detectors.
- Car wash/corrosion resistant modification.
- Many other modifications and accessories to meet your project requirements.



# PRODUCT SELECTION CHART

ARCHITECTURAL SERIES (ALUMINUM FULL-VIEW DOORS)								
Model	Steel Emboss	Exterior Skin Pattern	Gauge	Section Thickness	Insulation	Max. Width*	Max. Height*	R-value
902	–	Aluminum/Glass	–	2"	–	24'2"	18'0"	–
903	–	Aluminum/Glass	–	2"	–	24'2"	18'0"	–
ARCHITECTURAL SERIES (STEEL FULL-VIEW DOORS)								
Model	Steel Emboss	Exterior Skin Pattern	Gauge	Section Thickness	Insulation	Max. Width*	Max. Height*	R-value
3728†	Stucco	Flush	27	2"	Intellicore® Polyurethane	16'2"	18'0"	18.4‡
3729†	Stucco	Minor Ribbed	27	2"	Intellicore® Polyurethane	16'2"	18'0"	18.4‡
ENERGY SERIES WITH INTELICORE®								
Model	Steel Emboss	Exterior Skin Pattern	Gauge	Section Thickness	Insulation	Max. Width*	Max. Height*	R-value
3722†	Stucco	Flush	20	2"	Intellicore® Polyurethane	24'2"	18'0"	18.4
3724†	Stucco	Minor Ribbed	24	2"	Intellicore® Polyurethane	22'2"	18'0"	18.4
3723†	Woodgrain	Raised Panel	27	2"	Intellicore® Polyurethane	16'2"	18'0"	18.4
3720†	Stucco	Minor Ribbed	27	2"	Intellicore® Polyurethane	24'2"	18'0"	18.4
3717†	Stucco	Minor Ribbed	27	1-3/4"	Intellicore® Polyurethane	24'2"	18'0"	16.2
3718†	Stucco	Flush	27	1-3/4"	Intellicore® Polyurethane	24'2"	18'0"	16.2
ENERGY SERIES								
Model	Steel Emboss	Exterior Skin Pattern	Gauge	Section Thickness	Insulation	Max. Width*	Max. Height*	R-value
3220†	Stucco	Flush	20	2"	Polystyrene	24'2"	18'0"	9.1
3200†	Stucco	Minor Ribbed	24	2"	Polystyrene	24'2"	18'0"	9.1
3203†	Woodgrain	Raised Panel	24	2"	Polystyrene	16'0"	14'0"	9.1
INDUSTRIAL SERIES								
Model	Steel Emboss	Exterior Skin Pattern	Gauge	Section Thickness	Insulation	Max. Width*	Max. Height*	R-value
520 (S)	Smooth	Minor+Deep Ribs	20	2"	Polystyrene or Non-insulated	24'2"	18'0"	6.6**
524 (S,V)	Smooth	Minor+Deep Ribs	24	2"	Polystyrene or Non-insulated	24'2"	18'0"	6.6**
525 (S,V)	Smooth	Minor+Deep Ribs	25	2"	Polystyrene or Non-insulated	14'2"	16'0"	6.6**
664 (V)	Woodgrain	Raised Panel	24	2"	Polystyrene or Non-insulated	16'2"	14'0"	6.3**
4F	Woodgrain	Flush	24	2"	Non-insulated	18'2"	16'0"	–
ROLLING STEEL DOORS								
Service Doors								
Model	Description			Insulation	Gauge	R-value	Slat Material	
CESD10	Heavy Duty Service Door			Non-insulated	18 to 24	–	Aluminum, Galvanized or Stainless Steel	
CESD20	Heavy Duty Service Door			Insulated	18 to 24	8.1	Aluminum, Galvanized or Stainless Steel	
CERD10	Heavy Duty Fire Rated Service Door			Non-insulated	18 to 22	–	Galvanized Steel or Stainless Steel	
CERD20	Heavy Duty Fire Rated Service Door			Insulated	18 to 22	8.1	Galvanized Steel or Stainless Steel	
CERD11	Heavy Duty Fire and Smoke Rated Service Door			Non-insulated	18 to 22	–	Galvanized Steel or Stainless Steel	
CERD21	Heavy Duty Fire and Smoke Rated Service Door			Insulated	18 to 22	8.1	–	
Rolling Sheet Doors								
Model	Description			Insulation	Curtain Gauge	Coil	Material	
160C	Heavy Duty			Available	26	12"	Galvanized Steel	
157C	Medium Duty			Available	26	12"	Galvanized Steel	
150C	Light Duty			Available	26	9"	Galvanized Steel	

\*Consult CIA for large sizes. All widths may not be available in all heights. \*\*For insulated models (S, V) only.

†Clopay complies with the 2015 IECC (International Energy Conservation Code) with an air infiltration rating of .40 cfm/ft² or less (IECC, Section 402.5.2), and also meets the U-factor requirement of .37 or less (IECC, Section C402.4, for Climate Zones 1 through 8).

‡R-value is impacted by the number of windows and window type per section.

Calculated R-values for doors featuring a full row of 3/4" (19.1 mm) insulated windows is available on our website.

Depending on wind load requirements, some sizes may not be available.



*Model 903, 16'2" x 20' clear anodized doors;  
shown with tempered insulated glass*

# finding the right solution

## Find Your Solution With Clopay



Our team of Clopay commercial door experts is always ready to assist. To find the Clopay commercial door that's right for your application, call **1-800-526-4301**, visit [clopaycommercial.com](http://clopaycommercial.com) or email [CIA@clopay.com](mailto:CIA@clopay.com). To locate a dealer go to [clopaydoor.com/where-to-buy/commercial](http://clopaydoor.com/where-to-buy/commercial) or call **1-800-2CLOPAY (225-6729)**.



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