

421/423
427/429

SECTIONAL WIND LOAD



SECTIONAL STEEL DOORS



STRENGTH.
IMPACT RESISTANCE.
VERSATILE.



INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS



Standard features at a glance

Thermal efficiency

R-value* 7.6 (Models 423/429)

U-value .13 (Models 423/429)

Construction

Max height 24'1" (7,341 mm)

Max width 14'2" (4,318 mm)

Section thickness 2"

Exterior steel 20-gauge (Models 421/423)
24-gauge (Models 427/429)

Exterior surface Ribbed

Standard springs 10,000 cycle

Joint profile Tongue-and-groove

Struts 4" horizontal strut (doors over
10'2" wide)

Wind load Certified to meet Miami-Dade
wind load requirements

Color options

Exterior colors White
Brown (Models 427/429 only)

Interior color White

Warranty 1-year limited

Options

- Chain hoist operation
- Motor operation
- High cycle spring (25k, 50k, 100k)
- 3" track option
- Solid shafts
- Perimeter weatherseal
- Broken cable devices
- Safety edges
- Safety photo eyes
- Special track designs
- Impact glazing 12" x 10"
- Security locks
- Exhaust ports

Cover image: Model 421, White finish

Image above: Model 427, White finish

* Overhead Door Corporation uses a calculated door section R-value for our insulated doors.



General operating clearances

Type	Headroom		Sideroom		Depth into room	Center line of springs	
	2" track	3" track	2" track	3" track	2" and 3" track	2" track	3" track
Standard lift manual 12" R	13"-17"	NA	4.5"	5.5"	Opening height +18"	Opening height +12"	N/A
Standard lift manual 15" R	15"-20"	16"-21"				Opening height +13"	Opening height +14"
Standard lift motor oper. 12" R	15"-20"	NA	24" one side	24" one side	Opening height +66"	Opening height +12"	N/A
Standard lift motor oper. 15" R	15"-20"	18"-24"				Opening height +13"	Opening height +14"
High lift manual	High lift +12"		24" one side		Opening height -Lift +30"	Opening height +lift +6.5"	Opening height +lift +7.5"
High lift motor oper.							
Vertical lift manual 12" R	Door height +20"		4.5"	5.5"	18"	Double door height +13"	
Vertical lift motor oper.			24" one side				
Low headroom manual	6"-15"	6"-15"	6"	9"	Opening height +20" to -26"	N/A	
Low headroom motor oper.	9"-17"	9"-17"			Opening height +66"		

Notes:

- For low headroom, springs must be rear mount to achieve minimum headroom listed. Front mount torsion headroom depends on drum size and varies over the range listed. See approval drawings.
- Side-room of 8" required, one side, for doors with chain hoist.
- Headroom depends on drum size and varies over the range listed. See approval drawings.

Panel/section selection guide

Door width	Number of panels	Number of center stiles
8'2" to 12'2" (2,489 mm to 3,708 mm)	3	2
12'3" to 14'2" (3,734 mm to 4,318 mm)	6	5

Door height	Number of sections
Up to 8'1" (2,464 mm)	4
8'2" to 10'1" (2,489 mm to 3,073 mm)	5
10'2" to 12'1" (3,099 mm to 3,683 mm)	6
12'2" to 14'1" (3,708 mm to 4,293 mm)	7
14'2" to 16'1" (4,318 mm to 4,902 mm)	8
16'2" to 18'1" (4,928 mm to 5,512 mm)	9
18'2" to 20'1" (5,537 mm to 6,121 mm)	10
20'2" to 22'1" (6,147 mm to 6,731 mm)	11
22'2" to 24'1" (6,756 mm to 7,341 mm)	12

Panel options



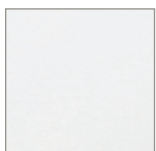
Ribbed panel

Glazing options



Impact (12"w x 10"h)

Finish options



White



Brown (Models 427/429 only)

Actual colors may vary slightly from these shown due to fluctuations in the printing process. Ask your Overhead Door™ Distributor for color samples.

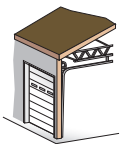
Building code/agency requirements

Models	Door width up to	Exposure B Wind speeds/Design pressures MPH ¹ /MPH ² /PSF design pressure	Exposure C Wind speeds/Design pressures MPH ¹ /MPH ² /PSF design pressure	Impact resistant	Impact glass available
421/423 427/429	10'2"	180 mph ¹ / 225 mph ² (+50.0) - (-56.0)	155 mph ¹ / 195 mph ² (+50.0) - (-56.0)	Yes	Yes
	14'2"	180 mph ¹ / 230 mph ² (+50.0) - (-56.0)	155 mph ¹ / 200 mph ² (+50.0) - (-56.0)	Yes	Yes

¹ Above wind speeds based on ASCE 7-05 are applicable for enclosed structures with an importance factor of 1.0, mean roof height of ≤25', and assume a maximum of 2' of the door is located within the end zone of a structure. The above wind speeds listed as a guide only. Wind speed is only one of many factors that determine the design pressure for a structure. The design and location of the structure can have a great effect on the loads placed on the garage door. Consult a registered architect or structural engineer to determine what design pressure is appropriate for your application.

² Above wind speeds based on ASCE 7-10 Category II structure with a mean roof height of ≤25' and a maximum of 2' of the door is located within the end zone of a structure. The above wind speeds listed as a guide only. Wind speed is only one of many factors that determine the design pressure for a structure. The design and location of the structure can have a great effect on the loads placed on the garage door. Consult a registered architect or structural engineer to determine what design pressure is appropriate for your application.

Track selection guide

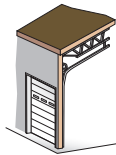


Standard lift



High lift

(break-away is standard, straight incline is available)



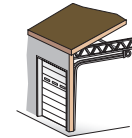
Roof pitch

(standard or high lift)



Vertical lift

(break-away is standard, straight incline is available)



Low headroom
(rear mount torsion)



Low headroom
(front mount torsion)



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.overhaddoor.com

The original, innovative choice for unequalled quality and service.

Overhead Door Corporation pioneered the upward-acting door industry, inventing the first upward-acting 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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