

421/423
427/429
434/436

WINDSTORM™ **COMMERCIAL SECTIONAL**



SECTIONAL STEEL DOORS



STRENGTH.
IMPACT RESISTANCE.
PROTECTION.



INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS



Standard features at a glance

Thermal efficiency

R-value* 7.6 (Models 423/429/436)

Construction

Max width 24'2" (7,341 mm) (Models 421/423/427/429)

20'2" (6,706 mm) (Models 434/436)

Max height 22'1" (7,924 mm) (Models 421/423/427/429)

16'1" (5,181 mm) (Models 434/436)

Section thickness 2"

Exterior steel 20-gauge (Models 421/423)

24-gauge (Models 427/429)

Nominal 24-gauge (Models 434/436)

Exterior surface Ribbed

Standard springs 10,000 cycle

Joint profile Tongue-and-groove

Wind load approvals

Models 421/423/427/429 (FBC, TDI, Miami-Dade)

Models 434/436 (FBC, TDI)

Color options

Exterior colors White

Brown (Models 427/429/434/436 only)

Interior colors 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.

Model Comparison

Model	421	423	427	429	434	436
Exterior Surface	Ribbed	Ribbed	Smooth, Ribbed	Smooth, Ribbed	Smooth or Stucco Embossed, Ribbed	Smooth or Stucco Embossed, Ribbed
Exterior Steel Gauge	20-ga.	20-ga.	24-ga.	24-ga.	Nominal 24-ga.	Nominal 24-ga.
Section Thickness	2"	2"	2"	2"	2"	2"
Section Heights	19", 21", 24"	19", 21", 24"	19", 21", 24"	19", 21", 24"	19", 21", 24"	19", 21", 24"
Joint Profile	T & G	T & G	T & G	T & G	T & G	T & G
Insulation - Optional	N/A	Polystyrene	N/A	Polystyrene	N/A	Polystyrene
Max. Width	24'2"	24'2"	24'2"	24'2"	20'2"	20'2"
Max. Height	22'1"	22'1"	22'1"	22'1"	16'1"	16'1"
Color	White	White	White, Brown	White, Brown	White, Brown	White, Brown
R-Value	N/A	7.64	N/A	7.64	N/A	7.64



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 lite available
421/423 427/429 434/436	24'2"	120 mph ¹ / 225 mph ² (+11.4) - (-50)	155 mph ¹ / 195 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.

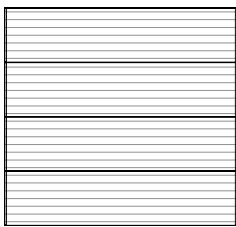
² Above wind speeds based on ASCE 7-10 Category II structure with a mean roof height of ≤25' and a maximum of 2' of the door is located within the end zone of a structure. The above wind speeds listed as a guide only. Wind speed is only one of many factors that determine the design pressure for a structure. 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.

Panel/Section Selection Guide

Door Width	Number of Panels	Number of Center Stiles
Up to 10'4"	2	2
10'5" to 12'3"	3	3
12'4" to 16'3"	4	4
16'4" to 20'3"	5	5
20'4" to 23'7"	6	6
23'8" to 24'2"	7	7

Door Height	Number of Sections
Up to 8'1"	4
8'4" to 10'1"	5
10'4" to 12'1"	6
12'4" to 14'1"	7
14'4" to 16'1"	8
16'3" to 18'1"	9
18'2" to 20'1"	10
20'2" to 22'1"	11
22'2" to 24'1"	12

Panel Style



Ribbed panel

Glazing Options

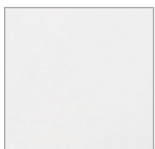


Vision Lites



Full-view Lites

Finish Options



White



Brown
(Models 427/429/434/436 only)

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

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			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	4.5"	5.5"	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.

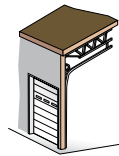
Track Selection Guide



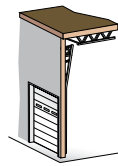
Standard lift



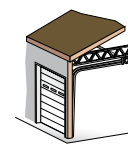
High lift
(break-away is standard,
straight incline is available)



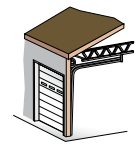
Roof pitch
(standard or high lift)



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



Low headroom
(rear mount torsion)



Low headroom
(front mount torsion)



Tools to help you
get the job done.

Architect's Corner

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

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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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