515/525

THERMACORE® WIND LOAD

INSULATED SECTIONAL STEEL DOORS

STRENGTH.
INSULATION.
AESTHETIC APPEAL.

OVERHEAD DOOR®

INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS

Standard features at a glance

Thermal efficiency	
R-value*	Model 515 – 12.12 Model 525 – 16.22
Thermal break	Yes
Air infiltration	Model 515 – 0.23 cfm/ft² at 15 mph Model 525 – 0.07 cfm/ft² at 15 mph
Construction	
Panel thickness	Model 515 – 1 3/8" Model 525 – 1 7/8"
Max height	20'1"
Max width	Model 515 – 20'2" Model 525 – 22'2"
Exterior steel	0.015" (0.35mm)
Exterior surface	Embossed wood grain finish or microgroove textured
Standard springs	10,000 cycles
Sound transmission	Class 20
Wind load	Minimum standard - see chart on back page for details
Color options	
Interior colors	White
Exterior colors	Model 515: White, Almond, Taupe, Brown, Black, Golden Oak, Walnut Model 525: White, Almond, Taupe, Brown
Limited warranty	10 years against cracking, spliting or deterioration due to rust-through. 10 years delamination.

Options

Factory glazed windows

Jamb seal

High cycle springs (25K, 50K, 100K)

3" track

The Cover image:

Model 525, Flush panel, White paint finish, Thermolite windows

The image above:

Model 515, V5 panel, Golden Oak finish

***R-value:** R-value is a measure of thermal efficiency. The higher the R-value the greater the insulating properties of the door. Overhead Door Corporation uses a calculated door section R-value for our insulated doors.

Door construction

Best Better

Model number	515	525
Polyurethane insulation	Yes	Yes
Insulation R-value*	12.12	16.22
Construction	3 Layer (Steel/Insulation/Steel) 1 3/8" thick steel panels	3 Layer (Steel/Insulation/Steel) 1 7/8" thick steel panels
Tongue & groove section	Yes	Yes
Joints to seal out weather	Yes	Yes
Thermal break	Yes	Yes
10 year limited warranty	Yes	Yes

General operating clearances

Operation options

- Chain hoist operation
- Motor operation

Safety options

- Broken cable devices
- Sensing edges
- Photo eyes

Special application options

- Special track designs

Type	Headroom***		Sideroom**		Depth into room	Center line of springs	
	2" track	3" track	2" track	3" track	2" & 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			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"				Opening height -lift +30"	Opening height +lift +6.5"	Opening height +lift +7.5"
High Lift Motor Oper.			24" One side				
Vertical Lift Manual	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"		

Panel/section selection guide

Door Section and Lite Selection			Door Height and Section Selection	
Door width	Number of panels	Maximum number of windows	Door height	Number of sections
Up to 9'2"	2	2 or 3	Up to 8'1"	4 or 5
9'3" to 12'2"	3	3 or 4	8'8" to 10'1"	5
12'3" to 16'2"	4	4 or 5	10'5" to 12'1"	6
16'3" to 19'2"	5	6	12'-2" to 14'-1"	7
19'3" to 24'2"	6	7	14'-2" to 16'-1"	8
			16'2" thru 20'1"	9
			18'2" thru 20'1"	10

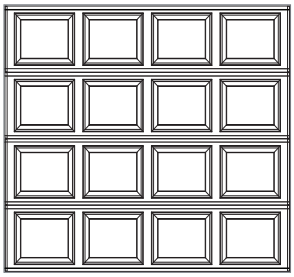
* R-value is a measure of thermal efficiency. The higher the R-value the greater the insulating properties of the door. Overhead Door Corporation uses a calculated door section R-value for our insulated doors.

† Springs must be rear mount to achieve minimum headroom listed. Front mount torsion headroom depends on drum size, and varies over the range listed.

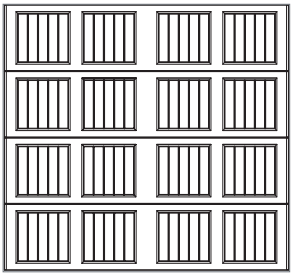
** 8" side-room required, one side, for doors with chain hoist.

*** Headroom for standard lift depends on drum size, and varies over the range listed.

Standard panel



V5 panel



Window options


Clear I


Stockton 1


Cathedral 1


Waterton 1


Cascade 1


Williamsburg 1


Sherwood 1


Clear 1


Stockton 1


Clear 3


Stockton 3


Cathedral 1


Stockbridge 3


Cascade 1


Waterton 1


Cascade 3


Waterton 3

Color options

Standard paint finishes
Standard, V5, Long and Flush panels


White


Almond

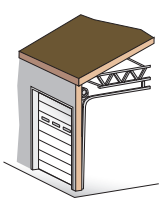

Taupe

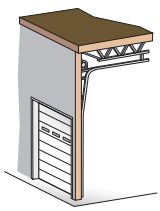

Brown

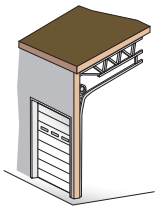

Black (515 only)

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

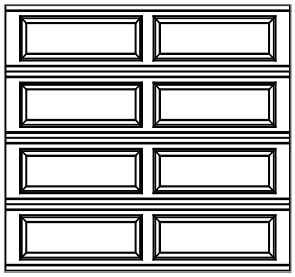
Track selection guide


Standard Lift

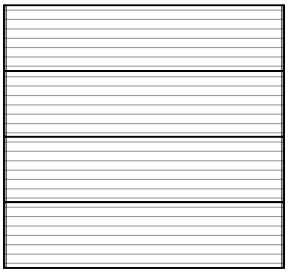

High Lift (break-away is standard, straight incline is available)


Roof Pitch (standard or high lift)

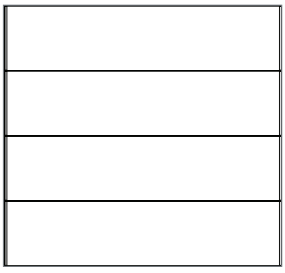
Long panel



Microgroove



Flush panel




Clear 2


Stockton 2


Cascade 2


Arched Stockton


Cathedral 2


Waterton 2


Stockbridge 2


Williamsburg 2


Sherwood 2


Clear 1


Stockton 1


Clear 3


Stockton 3


Cathedral 1


Waterton 1


Cascade 1

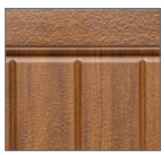

Waterton 3


Cascade 3


Williamsburg 1


Thermolite

Textured wood grain finishes
V5 panel, Model 515 only


Golden Oak


Walnut

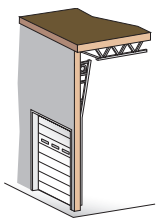
Microgroove textured finishes
Microgroove panel only

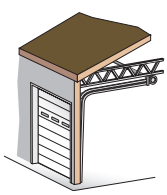

White

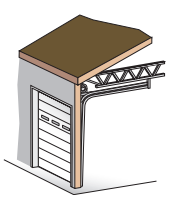

Almond


Taupe


Brown


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


Low Headroom
(rear mount torsion)


Low Headroom
(front mount torsion)

Building code/agency requirements

Exposure B	Door width up to	Wind speeds/Design pressures MPH[1]/MPH[2]/PSF design pressure	Impact resistant	Glass available Standard	Glass available Impact
Model 515	9′2″	90 - 200 mph[1] / 115 - 255 mph[2] (+12.80/-14.80) - (+64.00/-72.00)	Yes[3]	SP/LP[3]	SP/LP[3]
	16′2″	90 - 170 mph[1] / 115 - 220 mph[2] (+12.40/-13.80) - (+46.00/-52.00)	Yes[3]	SP/LP[3]	SP/LP[3]
	18′2″	90 - 170 mph[1] / 115 - 225 mph[2] (+12.40/-13.80) - (+46.00/-52.00)	Yes[3]	SP/LP[3]	SP/LP[3]
	20′2″	90 - 115 mph[1] / 130 - 150 mph[2] (+15.45/-16.79) - (+20.15/-22.50)	No	SP/LP[3]	No
Model 525	9′2″	90 - 200 mph[1] / 115 - 225 mph[2] (+12.80/-14.80) - (+64.00/-72.00)	Yes[3]	SP/LP[3]	No
	16′2″	90 - 170 mph[1]/ 115 - 220 mph[2] (+12.40/-13.80) - (+46.00/-52.00)	Yes[3]	SP/LP[3]	No
	18′2″	90 - 170 mph[1]/ 115 - 225mph[2] (+12.40/-13.80) - (+46.00/-52.00)	Yes[3]	SP/LP[3]	No
	22′2″	90 - 150 mph[1]/130 - 150 mph[2] (+15.45/-16.79) - (+20.15/-22.50)	No	SP/LP[3]	No

[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 30', 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 30' 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.

[3] Options available on select styles. • Wind load drawings available upon request. SP - Short panel windows LP - Long panel windows

Architects Corner

A resource for commercial and residential architects, contains comprehensive technical and resource materials to support your project, including drawings for installing garage and overhead 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 Corporation products more often than any other brand. Our family of over 400 Overhead Door Distributors across the country not only share our name and logo, but also our commitment to excellence.

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