511/521/522

ALUMINUM DOOR SYSTEMS



ALUMINUM SECTIONAL DOORS



VISUAL ACCESS.
LIGHT INFILTRATION.
CONTEMPORARY LOOK.



INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS



General Features and Benefits - Models 511/521

- 1 3/4" (45 mm) thick, corrosion-resistant 6063-T6 aluminum sections with galvanized fixtures and hinges promotes durability and trouble-free operation
- 1/4" (6 mm) diameter through-rods on all stiles and rails enhances strength and sturdiness
- Top-quality materials, excellent field service and optional maintenance program contribute to extended door life, low maintenance costs and maximum productivity
- Glazing choices include DSB glass, acrylic, tempered glass, clear polycarbonate, multi-wall polycarbonate, wire glass, Low E, Lexan and laminate
- Standard clear anodized finish for low-maintenance and corrosion-resistance
- Optional finishes include a wide range of powder coat colors offering an attractive and durable finish
- Manual pull rope operation with optional chain hoist or electric motor operator
- Available in approximately 200 RAL powder coat colors to match the aesthetic and design of your project. This color optional upgrade includes a hardening additive that provides an attractive and durable finish and easy-to-clean surface.

DASMA
Dorá Acces Systems
Hamafactures Asociation
THERMAL PERFORMANCE
VERIFICATION
PROGRAM
www.dasma.com/thermal

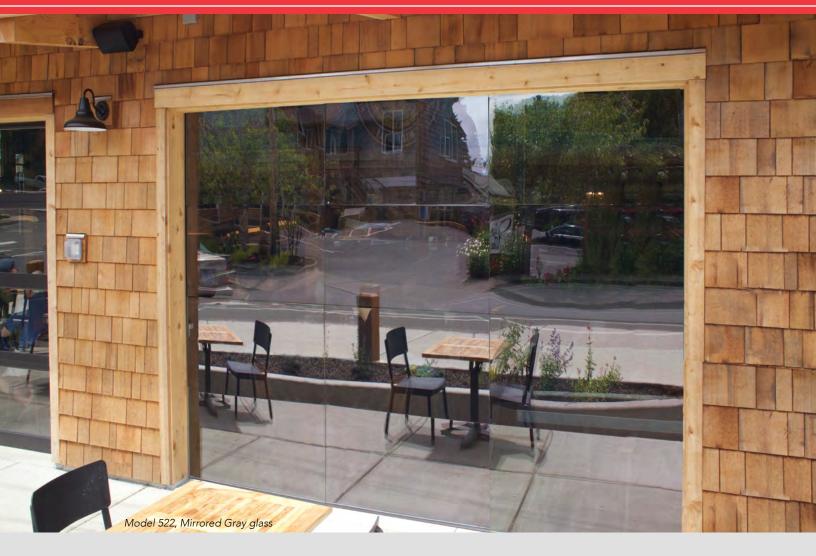
Overhead Door™ Brand participates in the DASMA Thermal Performance Verification Program. The program verifies the thermal performance of sectional doors. The lower the U-factor rating, the better the thermal performance.

%

Symbol indicates verified U-factor rating in accordance with the DASMA Thermal Performance Verification Program.

MODELS **511/521/522**





General Features and Benefits - Model 522

- Frameless design the ultimate sleek and modern aluminum full-view door
- Vinyl seals between the sections and the flexible bottom seal help to minimize air flow
- Large glass panels, mounted to the front of the door, allow maximum light and visibility
- 13/8" thick aluminum section with patent pending design for long life and durability
- 2 1/4" integrated reinforcing rib on upper intermediate rail for doors 10'3" wide and over
- Meets ASHRAE 90.1 and IECC® air infiltration requirements with a third-party tested value of less than 0.4 cfm/ft²
- Meets California Code of Regulation, Title 24 air infiltration requirements with a third-party tested value of less than 0.3 cfm/ft²



infiltration and aesthetics are key design considerations.



Glass Options for Models 511/521

Specialty Glass

- Laminated White privacy
- Low E Glass** thermal efficiency
- Tempered Glass enhanced safety
- Tinted Glass** color options: Green, Gray, Bronze

Glass Alternatives

- Clear Lexan® Polycarbonate** shatter resistant
- Multi Wall Polycarbonate superior strength with UV protection; color options: Clear, White, Bronze
- Plexiglas® Acrylic** shatter resistant
- Impact Clear and Frosted Polycarbonate 0.250" minimum















Double Strength DSB** (Standard)

Obscure

Satin Etched

Gray Tint

Green Tint

Bronze Tint

Impact Frosted Polycarbonate

Actual glass may vary from brochure photos due to fluctuations in the printing process. Check with your Overhead Door™ Distributor to view a glass sample.

** Insulated options available.







Standard Features at a Glance

Panel Thickness	1 ¾" (45 mm)
Maximum Standard Height	16'1" (4902 mm)
Maximum Standard Width	16'2" (6147 mm)
Material	6063-T6 aluminum
Standard Finish	204R-1 clear anodized
Center Stile Width	²¹ / ₃₂ " (17 mm)
End Stile Width	2 ¾" (70 mm)
Top Rail Width	2 3/8" (60 mm) or 33/4" (95 mm)
Top Intermediate Rail Width	¾" (19 mm)
Bottom Intermediate Rail Width	⁵ / ₈ " (16 mm)
Bottom Rail Width	2 3/8" (60 mm) or 3 3/4" (95 mm) or 4 1/2" (114 mm)
Weatherseals	Bottom, flexible PVC
Standard Springs	10,000 cycle
Track	2" (51 mm)
Mounting	Angle
Operation	Manual pull rope
Hinges and Fixtures	Galvanized steel
Lock	Galvanized, interior-mounted single unit
Warranty	1-Year Limited; 3-Year Limited powder coat finish

Options

Glazing Options*:

1/8" (3 mm) DSB;

1/8" (3 mm) or 1/4" (6 mm) acrylic; 1/8" (3 mm) or 1/4" (6 mm) tempered; 1/8" (3 mm) or 1/4" (6 mm) clear polycarbonate; 1/4" (6mm) and 3/8" twin-wall polycarbonate, 5/8"

triple-wall polycarbonate;

1/4" (6 mm) 3/8" (10 mm) and 5/8" (16 mm) twin-wall polycarbonate, triple-wall polycarbonate 1/4" (6 mm) wire glass;

1/2" (12 mm) insulated glass

Electric operator or chain hoist

Bottom sensing edge

3" track

Bracket mounting (not available on full vertical door

Higher-cycle springs in 25k, 50k, 75k, 100k cycles

Chain hoist

Posi-tension drums

*Contact your local Overhead Door™ Distributor for special glazing requirements. Verify 1/4" (6 mm) glass applications with factory.

Structure Options

Anodized Finishes









Clear (standard)

Medium Bronze

Dark Bronze

Powder Coat Finishes

Select from approximately 200 RAL powder coat color options to best match your home.

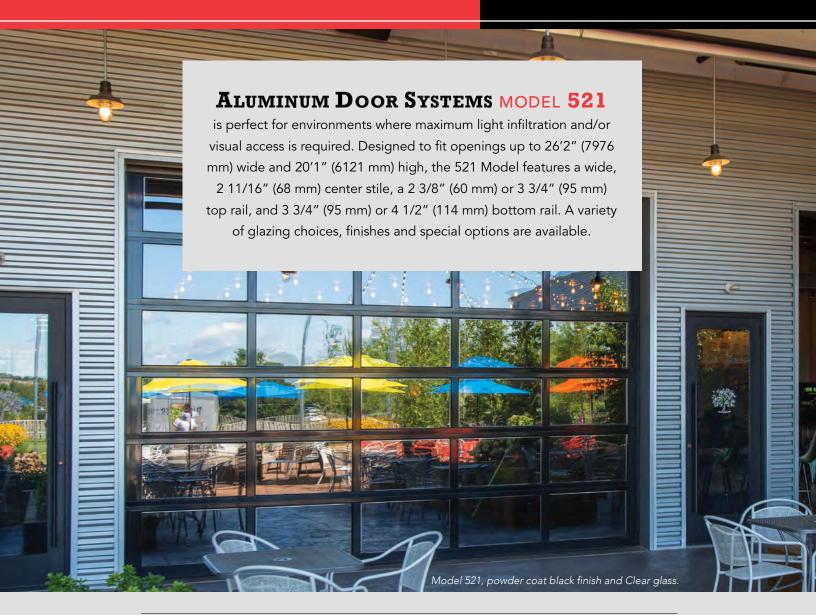
Light Bronze



Actual door colors may vary from brochure photos due to fluctuations in the printing process. Always request a color sample from your Overhead Door™ Distributor for accurate color matching.

Panel Layout				
Door Width	Number of Panels			
to 11'11" (3632 mm)	3			
12'0" to 14'11" (3658 mm to 4547 mm)	4			
15'0" to 16'2" (4572 mm to 4928 mm)	5			

Section Stack			
Door Height	Number of Sections		
to 8'6" (2591 mm)	4		
8'7" to 10'1" (2616 mm to 3073 mm)	5		
10'2" to 12'1" (3099 mm to 3683 mm)	6		
12'2" to 14'1" (3708 mm to 4293 mm)	7		
14'2" to 16'1" (4318 mm to 4902 mm)	8		



Optional Polyurethane Insulation for Stiles and Rails up to 18'2" Wide

1/2" Insulated Glazing Unit	Door U-factor¹ 😻	Door R-value ²
DSB- Clear, Tempered, Obscure	0.30	2.87
Clear Polycarbonate		2.93
DSB - Solar Bronze		3.17
DSB - Low E coating	0.28	3.43
SolarBan 70XL Argon Filled		4.09
Multi-wall Polycarbonate	Door U-factor	Door R-value
Multi-wall Polycarbonate 1/4" Thick Unit	Door U-factor	Door R-value 2.75
·	Door U-factor	
1/4" Thick Unit	Door U-factor	2.75
1/4" Thick Unit 3/8" Thick Unit	Door U-factor Door U-factor	2.75 3.21



Polyurethane filled rails and stiles

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

^{1 -} U-factor is independently tested and verified per ANSI/DASMA 105 using solid doors and specific product sizes.



Standard Features at a Glance

Options

Glazing Options†: 1/8" (3 mm) DSB;

1/8" (3 mm) or 1/4"

(6 mm) acrylic; 1/8" (3 mm) or 1/4" (6 mm) tempered; 1/8" (3 mm) or 1/4" (6 mm) clear polycarbonate;

1/4" (6mm) and 3/8" twin-wall polycarbonate, 5/8" triple-

wall polycarbonate;

1/4" (6 mm) 3/8" (10 mm) and 5/8" (16 mm) twin-wall polycarbonate, triple-wall polycarbonate 1/4" (6 mm) wire glass;

1/2" (12 mm) insulated glass

Electric operator or chain hoist

Bottom sensing edge

3" track

Bracket mounting (not available on full vertical door tracks)

Higher-cycle springs in 25k, 50k, 75k, 100k cycles

Exhaust ports

Four-section pass door

Wind load and impact rated door available

Posi-tension drums

Bronze anodization

Powder coat finish

Pass door

[†]Contact your local Overhead Door™ Distributor for special glazing requirements. Verify 1/4" (6 mm) glass applications with factory.

Structure Options

Anodized Finishes





Light Bronze



Medium Bronze







Black

Actual door colors may vary from brochure photos due to fluctuations in the printing process. Always request a color sample from your Overhead Door $^{\text{M}}$ Distributor for accurate color matching.

Powder Coat Finishes

Select from approximately 200 RAL powder coat color options to best match your home.

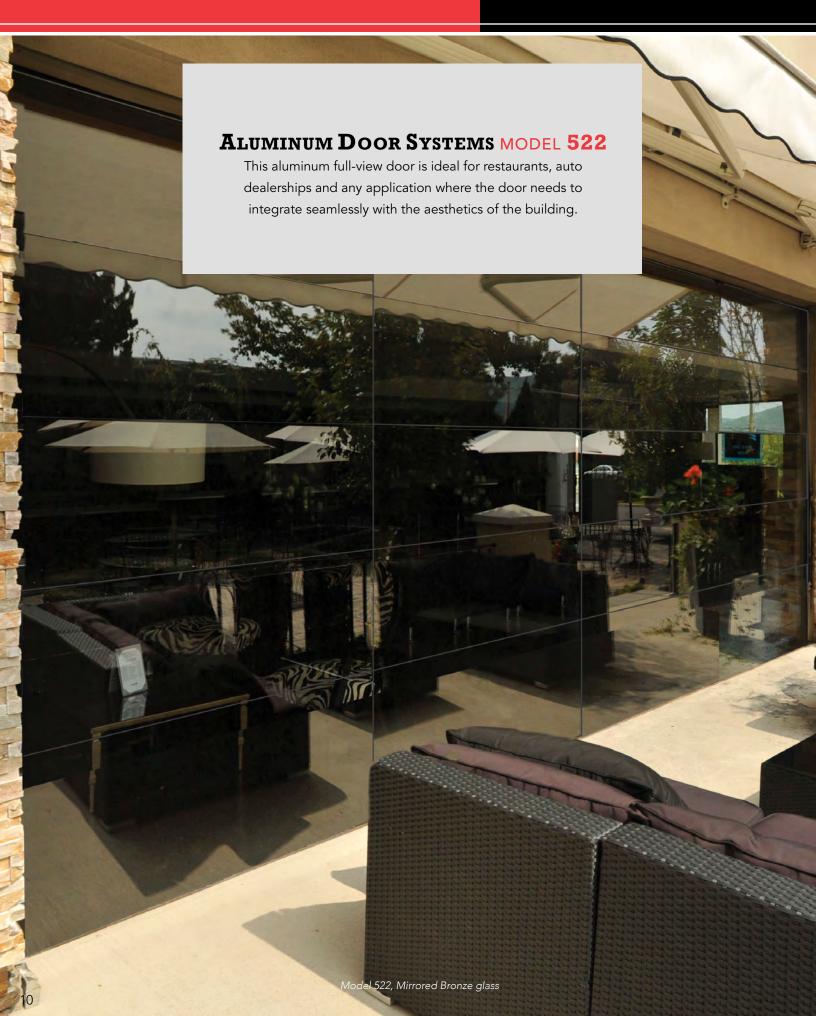


*Wood grain availability dependent upon location.

Panel Layout				
Door Width	Number of Panels			
to 9'2" (to 2794 mm)	2 or 3 (standard)			
9'3" to 12'2" (2819 mm to 3708 mm)	3			
12'3" to 16'2" (3734 mm to 4953 mm)	4			
16'3" to 18'2" (4978 mm to 5537 mm)	4 or 5 (standard)			
18'3" to 19'2" (5562 mm to 5842 mm)	5			
19'3" to 20'11" (5867 mm to 6375 mm)	6**			
21'0" to 23'11" (6401 mm to 7290 mm)	8**			
24'0" to 26'2" (7315 mm to 7976 mm)	10**			

Section Stack			
Door Height	Number of Sections		
to 8'6" (2591 mm)	4		
8'7" to 10'1" (2616 mm to 3073 mm)	5		
10'2" to 12'1" (3099 mm to 3683 mm)	6		
12'2" to 14'1" (3708 mm to 4293 mm)	7		
14'2" to 16'1" (4318 mm to 4902 mm)	8		
16'2" to 18'1" (4928 mm to 5512 mm)	9		
18'2" to 20'1" (5537 mm to 6121 mm)	10		

^{**}Special construction. Consult your local Overhead™ Door Distributor for additional information.





Standard Features at a Glance

Section Thickness	1 3/8" (35 mm)
Maximum Standard Height	14'1" (4318 mm)
Maximum Standard Width	18'2" (5486 mm)
Material	6063-T6 aluminum
Standard Finish	White, Black or Bronze Powder Coat
Center Stile Width	3" (76 mm)
End Stile Width	3 ½" (89 mm)
Top Rail Width	3 ½" (89 mm)
Top Intermediate Rail Width	1 5/8" (41 mm)
Bottom Intermediate Rail Width	1 3/ ₈ " (35 mm)
Bottom Rail Width	3 ½" (89 mm)
Standard Springs	10,000 cycle
Track	Provide track as recommended by manufacturer to suit loading required and clearances available
Mounting	Angle
Operation	Manual pull rope
Hinges and Fixtures	Galvanized steel
Lock	Galvanized, interior-mounted single unit
Warranty	1-Year Limited

Options

Springs: 25,000, 50,000, 75,000 or 100,000 cycles
Weather stripping: jamb and header seals
White or Black powder coat track

Glass Options







Mirrored Gray





Translucent Black

Structure Options

Powder Coat Finishes











Actual colors may vary from brochure due to fluctuations in the printing process. Always request a color sample from your Overhead Door^T Distributor for accurate color matching.

Aluminum and Glass Pairing

Aluminum Options White Powder Coat Black Powder Coat / Bronze Powder Coat / Black Anodized / Bronze Anodized

Glass Color

Opaque White

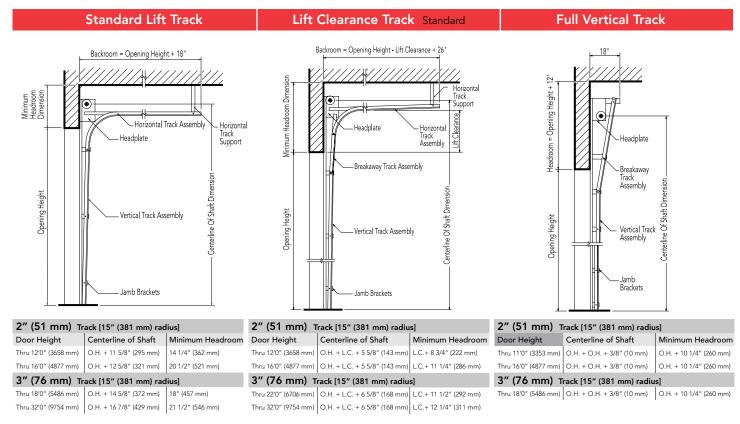
Opaque Black / Mirrored Gray / Mirrored Bronze / Translucent Black

Each door is unique and built to order, therefore a slight deviation in glass alignment is possible. These doors may become hot to the touch in sustained hot weather. See website for door sizes, section selection and other details.

Track Detail

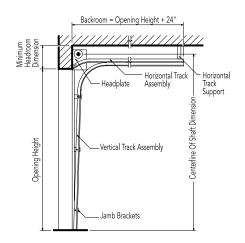
Any of the following track configurations can be selected for 511, 521 and 522 Aluminum door models.

O.H.=Opening height L.C.=Lift clearance D.H.=Door height

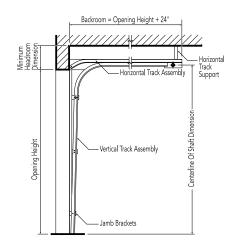


Low Headroom Track Springs to Front

Low Headroom Track Springs to Rear



2" (51 mm) Track [15" (381 mm) radius]					
-		Minimum headroom			
Thru 12'0" (3658 mm)					
Thru 16'0" (4877 mm)	D.H. + 8" (203 mm)	12 1/2" (318 mm)			
3" (76 mm) Trac					
Thru 12'0" (3658 mm)	D.H. + 9" (229 mm)	13" (330 mm)			
Thru 32'0" (5486 mm)	D.H. + 9" (229 mm)	13 3/4" (349 mm)			

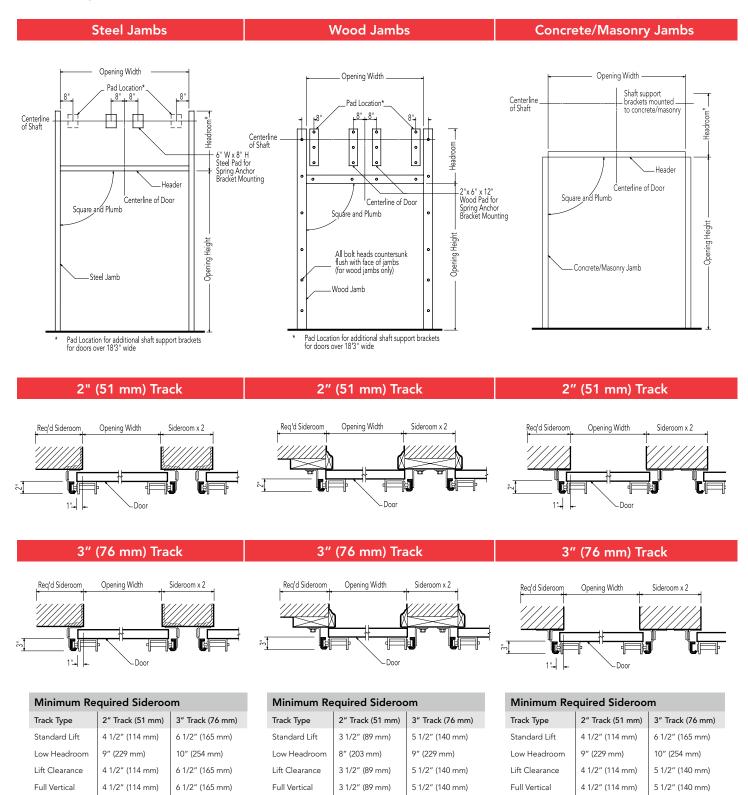


2" (51 mm) Track [15" (381 mm) radius]				
Door height	Centerline of shaft	Minimum headroom		
Thru 12'0" (3658 mm)	O.H. + 2" (51 mm)	7 1/2" (191 mm)		
Thru 16'0" (4866 mm)	O.H. 2" (51 mm)	8" (203 mm)		
3" (76 mm) Trac	k [15" (381 mm) radiu	ıs]		
Thru 18'0" (5486 mm)	O.H. 6 3/4" (171 mm)	9 3/4" (248 mm)		



Framing and Pad Detail

Framing and pad details for common installation of Aluminum doors in steel, wood, concrete and masonry jambs are provided here. If you require additional information or have special project requirements, refer to the Architectural Design Manual, (www.overheaddoor.com/ADM/base.html) or consult with the Applications Engineering Group or your local Overhead Door™ Distributor.



Electric Operators

We offer a broad line of electric operators to suit 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.

We are one of the only national manufacturers to offer a full line of commercial and industrial doors and operators specifically designed for integral applications.

Model RHX®

Model RHX® is a heavy duty commercial operator designed to operate doors up to 24' (7315 mm) in height and 3696 pounds (1676 kg). Available as either a trolley, sidemount or centermount.

Model RMZ®

Model RMZ® is our most advanced medium-duty operator. It is designed for quicker installation and hassle-free operation and operates doors up to 14' (4267 mm) in height and 620 pounds (282 kg). It is available as a trolley-type or side-mounted unit.

Model RSX®

Model RSX® is a standard duty commercial operator designed to operate doors up to 24' (7315 mm) in height and 1620 pounds (735 kg). It offers unique features like LimitLock®, SuperBelt™ and 16 digit menu setup.



Operator Control Options

- Push-button, key or combination stations; surface- or flush-mounted for interior and/or exterior locations
- Vehicle detectors, key card reader, photocell and door timer controls
- Treadle or pull switch stations
- Telephone entry and coded keyboard stations
- Universal programmable door timer
- Radio control systems (24 VAC or 120 VAC)
- Explosion and dust ignition-proof systems

Electric operator selection guide										
	Horsepower/ Newtons	Max. Height of Door	Max. Weight of Door	Super Belt"/ Polybelt	Worm Gear	Adjustable Clutch	Totally Enclosed	Continuous Duty	Explosion Proof	Mounting Type
RHX [®]	1/2 HP, 3/4 HP 1 HP, 3 HP	24' (7315 mm)	3696 lbs (1676 kg)		•	•		•	•	T, S, C
RSX [®]	1/2 HP, 3/4 HP 1 HP	24' (7315 mm)	1620 (735 kg)	•		•	•	•		T, S, C
RMZ [®]	1/2 HP	14' (4267 mm)	620 (281 kg)	•						T, S

Mounting options: T=Trolley S=Side mount C= Center mount

Safety Recommendations

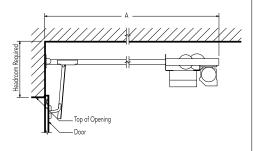
We strongly recommend the use of a primary safety device as defined by UL325 2010. A primary safety device can be approved monitored photo-eyes or an approved monitored sensing edge. If a primary safety device is not installed, a constant contact control switch must be used to close the door. Contact your Overhead Door™ Distributor for more information.



Mounting Details

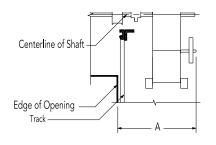
Trolley Type (Drawbar) RMZ[®], RSX[®],RHX[®]

Trolley-type (Drawbar) operators feature a power unit mounted between, above and to the rear of the horizontal tracks. The drawbar drive provides positive control of the door at all times, making this operator the preferred choice whenever possible. Maximum door width is 20' per drawbar. Door width over 20' requires dual drawbar installation. Available on Models RMX®, RSX® and RHX®.



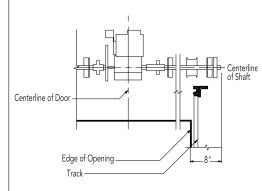
Side Mount Type (Jackshaft) RMZ[®], RSX[®], RHX[®]

Side-mounted (Jackshaft) RMX®, RSX®, and RHX® operators feature a power unit mounted on the inside front wall and connected to the crosshead shaft, with an adjustable coupling or drive chain and sprockets.



Center Mount Type/Jackshaft RSX®, RHX®

Center-mounted (Jackshaft) operators feature a power unit on the front wall above the door opening. No additional backroom is required. Available on models RSX® and RHX®.



nimum Headroom Requirements
Track requirements +4 1/2" (114 mm)
Track requirements +5" (127 mm)
Track requirements +5" (127 mm)

Depth Requirements - "A" Dimension (Backroom)		
RMZ [®]	Door height +4' 0" (1219 mm)	
RSX [®]	Door height +4' 0" (1219 mm)	
RHX [®]	Door height +4′ 10″ (1219 mm)	

	A Difficusion - Will	iiiiiiiii (Sideroom)
	2" Track (51 mm)	3" Track (76 mm)
RMZ®	18 1/2" (470 mm)	19 1/2" (495 mm)
RSX®	21" (533 mm)	22" (559 mm)
RHX®	21" (533 mm)	22" (559 mm)

Millimum rieauroom kequirements		
RSX®	Track requirements +14" (356 mm)	
RHX®	Track requirements +23 5/8" (600 mm)	





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 sectional garage 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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