

# Sectional SteelDoor Systems



Product Line	STEEL DOORS	SERIES	4 1 6	4 2 0	4 2 4	4 3 0
	INSULATED STEEL DOORS		4 1 8	4 2 2	4 2 6	4 3 2



INDUSTRY LEADING  
COMMERCIAL & INDUSTRIAL SOLUTIONS

# Sectional Steel Door Selection – A Solid Choice for Reliability and Durability

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## THE TURNKEY SOURCE FOR COMMERCIAL AND INDUSTRIAL SOLUTIONS AND SERVICE

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Selection of Overhead Door products automatically includes the unequaled expertise and experience of Overhead Door Ribbon Distributors. Nationwide coverage by our 400+ Ribbon Distributors is unique in our industry – providing a single source for design and application consulting, installation, service and ongoing maintenance. Turnkey services to maximize the lasting value of your product choice. Your Overhead Door Distributor is also your only source for a full line of commercial and industrial door and operator systems specifically designed for integrated applications. For over four generations, our 400+ Ribbon Distributors have been committed to providing commercial and industrial door solutions. Combined with Overhead Door product design and manufacturing superiority, our distributors are a proud part of the Overhead Door family, sharing our name, our Ribbon logo and our commitment to industry leading innovation and excellence.



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Overhead Door Corporation's comprehensive line of sectional steel and insulated steel doors encompasses one of the industry's most complete selection of panel profiles, gauges, track styles and hardware for commercial sectional door systems. Our sectional steel door systems are designed to satisfy the spectrum of opening sizes, field conditions and aesthetic requirements for a host of commercial and industrial applications, including applications requiring thermal performance. The insulated steel doors provide R-values up to 11.69 (2.06 W/Msq) to meet various insulating requirements. Engineered and manufactured for excellence, and backed by the best service company and dedicated distributor network in the industry, Overhead Door Corporation's sectional steel doors are an outstanding choice for durability, serviceability and long-lived performance.

*Installation and Service: Overhead Door Company of Madison*



# Sectional Steel and Insulated Steel Doors

Overhead Door Corporation offers a wide selection of sectional steel and insulated steel doors to satisfy applications where durability, reliability and economy are top priorities. An array of door panel profiles, tracks and hardware, and specialized options allows you to further customize these doors to your specific project requirements.

## GENERAL FEATURES AND BENEFITS

### Solidly Constructed for Reliable Performance

- 16, 20, or 24-gauge steel door panels results in a solidly constructed door for years of dependable service
- Standard steel doors available in sizes up to 32'2" (9804 mm) in width and 24'1" (7336 mm) in height
- Insulated steel doors available in up to 32'2" (9804 mm) in width and 24'1" (7336 mm) in height
- Heavy-duty track and hardware are fabricated of high-quality galvanized steel and engineered for precise, trouble-free performance
- Flexible PVC bottom weatherseal with retainer lessens conductivity of heat and cold, minimizes air and water penetration, and accommodates irregular floor conditions

- Option of insulated steel doors provides enhanced thermal efficiency and R-values up to 11.69 (2.06 W/Msq)\*
- Baked-on, polyester paint finish eliminates field painting and provides long-lasting protection against the elements
- Superior panel strength and well-engineered track design meets windload requirements and codes

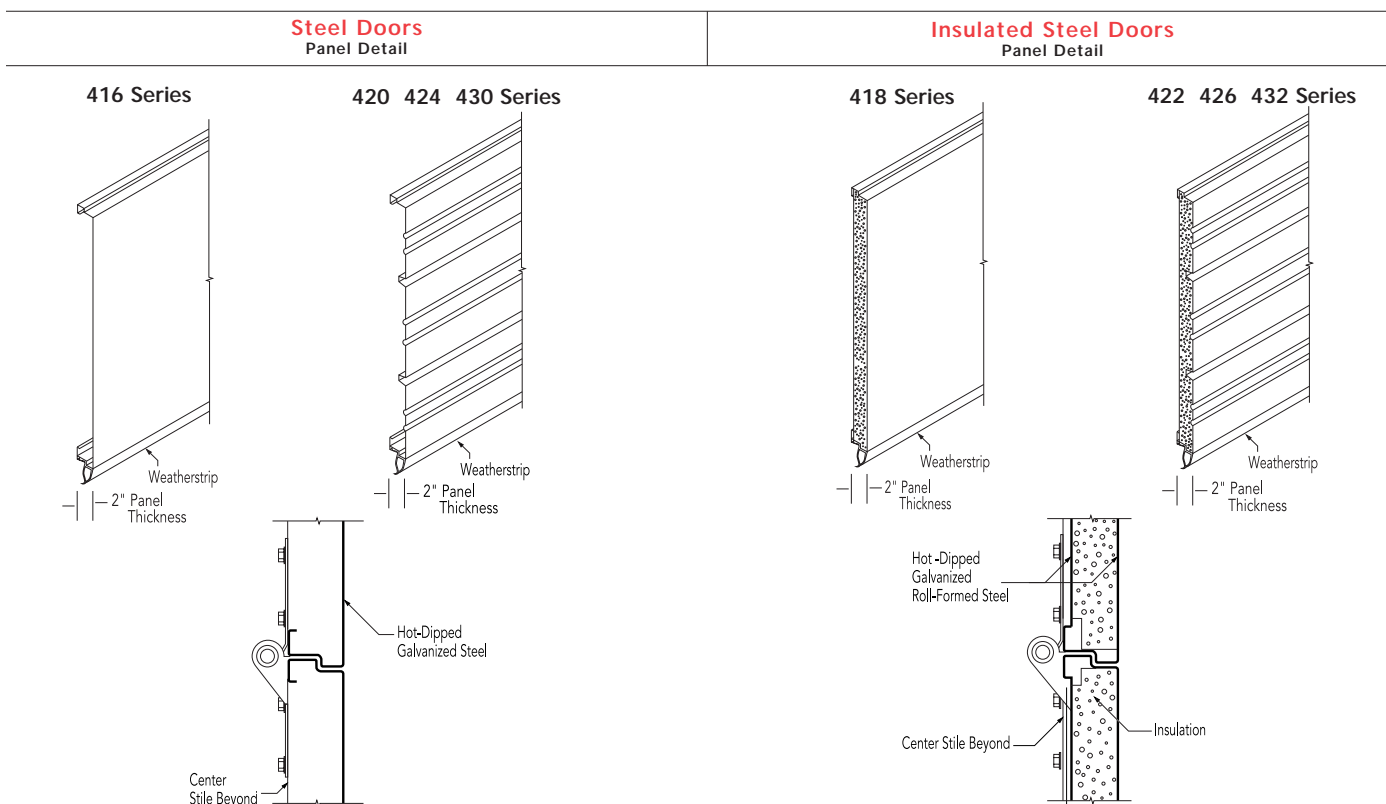
### Specialized Options for Customized Solutions

- Full-section or individual-panel glazing satisfies requirements for external light and visitor identification
- Higher-cycle springs in optional 25k, 50k, 75k or 100k-cycles promote long-life in high-usage applications
- Optional steel strutting provides reinforcement for structural integrity on wider doors
- Other options include: electric and chain hoist operation, aluminum sash sections with choice of DSB, plexiglas, polycarbonate, tempered, or wire glazing, as well as movable center posts, 3" (76 mm) track, Sup-UR-Seal jamb seals

### Built to Last

- Top-quality materials, excellent field service and optional maintenance program contribute to extended door life, low maintenance costs and maximum productivity

\* If a higher R-value is required, ask your Overhead Door Distributor about the Thermacore® Door System.









Installation and Service: Overhead Door Company of Dallas-Commercial



# Sectional Steel Door Selection Chart

Sectional Steel		GENERAL SPECIFICATIONS								
	SERIES	Nominal Thickness	Maximum Standard Width	Maximum Standard Height	Exterior	Exterior Surface	Exterior Finish	End Stiles	Intermediate Stiles	Lock
Extra Heavy Duty (Pg. 6 – 7)	<b>416</b>	2" (51 mm)	32'2" (9804 mm)	21'1" (6426 mm)	16 ga galv. steel	Flush	White Baked-on polyester	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock
Heavy Duty (Pg. 8 – 9)	<b>420</b>	2" (51 mm)	31'2" (9500 mm)	24'1" (7341 mm)	20 ga galv. steel	Ribbed	White Baked-on polyester	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock
	<b>424</b>	2" (51 mm)	30'2" (9195 mm)	24'1" (7341 mm)	24 ga galv. steel	Ribbed	White Baked-on polyester	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock
Medium Duty (Pg. 10 – 11)	<b>430</b>	2" (51 mm)	20'2" (6147 mm)	16'1" (4902 mm)	Nominal 24 ga galv. steel	Ribbed	White Baked-on polyester	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock

Sectional Steel		GENERAL SPECIFICATIONS											
	SERIES	Nominal Thickness	Maximum Standard Width	Maximum Standard Height	Exterior Steel	Back Cover	Exterior Surface	Exterior Finish Color	Insulation/R-Value Polystyrene	Isocyanurate (Optional)	End Stiles	Intermediate End Stiles	Lock
Extra Heavy Duty (Pg. 12 – 13)	<b>418</b>	2" (51 mm)	32'2" (9804 mm)	21'1" (6426 mm)	16 ga galv. steel	26 ga galv. steel	Flush	White Baked-on polyester	7.35 (1.29 W/Msq)	11.69 (2.06W/Msq)	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock
Heavy Duty (Pg. 14 – 15)	<b>422</b>	2" (51 mm)	29'2" (8890 mm)	24'1" (7341 mm)	20 ga galv. steel	26 ga galv. steel	Ribbed	White Baked-on polyester	7.35 (1.29 W/Msq)	11.69 (2.06W/Msq)	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock
	<b>426</b>	2" (51 mm)	28'2" (8585 mm)	24'1" (7341 mm)	24 ga galv. steel	26 ga galv. steel	Ribbed	White Baked-on polyester	7.35 (1.29 W/Msq)	11.69 (2.06W/Msq)	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock
Medium Duty (Pg. 16 – 17)	<b>432</b>	2" (51 mm)	20'2" (6147 mm)	16'1" (4902 mm)	Nominal 24 ga galv. steel	Polybonded laminate	Ribbed	White Baked-on polyester	7.35 (1.29 W/Msq)	11.69 (2.06W/Msq)	16 ga galv. steel	16 ga galv. steel	Interior-mounted slide lock

Information is subject to change. Please call your local Overhead Door distributor for special applications or if your application is not listed.



AVAILABLE OPTIONS															
Electric Operator	Bottom Sensing Edge	Chain Hoist	Pull-Rope Auto Release	Full Sash Section (Glazing Options) 1/8" (3mm) DSB, Insulated	1/8" (3mm) and 1/4" (6mm) plexiglass	Individual Lites (Glazing Options) 1/8" (3mm) DSB	1/8" (3mm) and 1/4" (6mm) plexiglass	1/8" (3mm) and 1/4" (6mm) Lexan	1/8" (3mm) and 1/4" (6mm) Tempered	1/4" (6mm) wired	3" (76 mm) Track	Higher-cycle Springs 25K, 50K, 75K and 100K	Exhaust Ports	Industrial brown Paint Finish	Five-Pin Tumbler Keyed Lock
•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

AVAILABLE OPTIONS													
Electric Operator	Bottom Sensing Edge	Chain Hoist	Pull-Rope Auto Release	Full Sash Section (Glazing Options) 1/8" (3mm) DSB	1/8" (3mm) Insulated	1/8" (3mm) or 1/4" (6 mm) plexiglass	Individual Lite (Glazing Options) 1/2" Insulated DSB	3" (76 mm) Track	Bracket Mounting	Higher-cycle Springs 25K, 50K, 75K and 100K	Exhaust Ports	Industrial brown Paint Finish	Five-Pin Tumbler Keyed Lock
●	●	●	●	●	●	●	●	●	●	●	●		●
●	●	●	●	●	●	●	●	●	●	●	●		●
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●

# Extra Heavy-Duty Sectional Steel Doors

## SERIES 416

### Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	32'2" (9804 mm)
Maximum standard height	21'1" (6426 mm)
Exterior steel	16-gauge hot-dipped galvanized steel
Exterior surface	Flush
End stiles	16-gauge steel
Center stiles	16-gauge steel
Standard mounting	Angle mount
Standard track	2" (51 mm)
Standard springs	10,000 cycle
Weatherstripping	Flexible PVC bottom with retainer
Operation	Manual pull rope
Finish	White baked-on polyester
Lock	Interior-mounted slide lock

### Options

- Electric operator or chain hoist
- Bottom sensing edge
- Full sash section with 1/8" (3 mm) DSB, insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/8" (3 mm) DSB; 1/8" (3 mm) and 1/4" (6 mm) plexiglass; 1/8" (3 mm) and 1/4" (6 mm) Lexan; 1/8" (3 mm) and 1/4" (6 mm) Tempered; 1/4" (6 mm) wired
- 3" (76 mm) track
- Bracket mounting (not available on full vertical door tracks)
- Bottom sensing edge
- Higher-cycle springs in 25k, 50k, 75k, 100k cycles
- Exhaust ports
- Jamb weatherseals, Saverseal pliable blade seal and Therma-Flex seal
- Bottom strips, including looped PVC weatherstrips, flexible PVC astragal weatherstrips and double-contact weatherstrips
- Reinforcing struts of roll-formed steel hat sections
- Movable center posts for 2" (51 mm) or 3" (76 mm) tracks that roll away, with automatic safety catches that prevent door closure when posts are removed
- Tumbler keyed lock

The 416 Series is manufactured of 16-gauge, flush, galvanized steel exterior for enhanced strength and durability. These 2" (51 mm) thick doors are available in sizes up to 32'2" in width and 21'1" in height (9804 mm and 6426 mm). Available with an array of options, the 416 Series can be easily customized to meet any project requirement where an extra-heavy-duty door is required.

### ARCHITECTURAL SPECIFICATIONS\*

416

#### PART 1 GENERAL

##### 1.01 Work Included

The doors will be 416 Series as manufactured by Overhead Door Corporation.

##### 1.02 Related Work

Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

##### 1.03 Quality Assurance

In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator (optional) shall be manufactured by a single-source producer of door systems; as by Overhead Door Corporation.

#### PART 2 PRODUCT

##### 2.01 Sections

Section profile will be flush. Sections will be 16-gauge, roll-formed galvanized steel exterior. Sections will have a nominal thickness of 2" (51 mm). Doors will have rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity.

##### 2.02 Center and End Stiles

Center and end stiles will be 16-gauge steel, formed and fastened as integral structures with the rolled sections. End stiles will be channel-shaped to 2" (51 mm) deep.

##### 2.03 Springs

Standard springs will be 10,000 cycles. (Optional higher-cycle 25,000, 50,000, 75,000, or 100,000-cycle springs).



#### 2.04 Hardware

Hinges and fixtures will be galvanized steel. Full-floating ball-bearing rollers will have hardened steel races. Roller sizes will be adequate for design requirements and limitations.

#### 2.05 Track

Track is 2" (51 mm) standard (3" (76 mm) optional) angle-mounted. (Bracket-mounted track is an option, but not available on full vertical doors).

#### 2.06 Lock

Lock will be interior-mounted slide lock. (Optional tumbler keyed lock is available.)

#### 2.07 Weatherstrip

Bottom weatherstrip will be flexible PVC and held in place by a retainer that also provides additional reinforcement.

#### 2.08 Finish

Finish will be factory baked-on white polyester coating.

#### 2.09 Operation

Operation will be by manual pull rope. (Optional chain hoist and electric operator are available.)

### PART 3 EXECUTION

#### 3.01 Execution

Install the doors in accordance with Overhead Door Corporation instructions and standards, using an authorized Overhead Door Corporation distributor.

*\*Note to specifier: This specification is a suggested guide. Available options are shown in parentheses.*

Panel Schedule		Section Schedule	
Door Width	Number of Panels	Door Height	Number of Sections
to 10'2" (3099 mm)	2	6'1" to 7'1" (1854 mm to 3937 mm)	4
10'3" to 12'2" (3124 mm to 3708 mm)	3	7'2" to 8'10" (2184 mm to 2692 mm)	5
12'3" to 16'2" (3734 mm to 4928 mm)	4	8'11" to 10'7" (2718 mm to 3226 mm)	6
16'3" to 19'2" (4953 mm to 5842 mm)	5	10'8" to 12'4" (3251 mm to 3759 mm)	7
19'3" to 22'2" (5867 mm to 6756 mm)	6	12'5" to 14'1" (3785 mm to 4293 mm)	8
22'3" to 26'2" (6782 mm to 7976 mm)	8	14'2" to 15'10" (3438 mm to 4826 mm)	9
26'3" to 32'2" (8001 mm to 9804 mm)	10	15'11" to 17'7" (4851 mm to 5359 mm)	10
		17'8" to 21'1" (5385 mm to 6426 mm)	11



# Heavy-Duty Sectional Steel Doors

## SERIES 420 424

### Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	31'2" (9500 mm) (420 Series) 30'2" (9195 mm) (424 Series)
Maximum standard height	24'1" (7341 mm)
Exterior steel	20-gauge galvanized steel (420 Series) 24-gauge galvanized steel (424 Series)
Exterior surface	Ribbed
End stiles	16-gauge steel
Center stiles	16-gauge steel
Standard mounting	Angle mount
Standard track	2" (51 mm)
Standard springs	10,000 cycle
Weatherstripping	Flexible PVC bottom with retainer
Operation	Manual pull rope
Finish	White baked-on polyester
Lock	Interior-mounted slide lock

### Options

- Electric operator or chain hoist
- Bottom sensing edge
- Full sash section with 1/8" (3 mm) DSB, insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/8" (3 mm) DSB; 1/8" (3 mm) and 1/4" (6 mm) plexiglass; 1/8" (3 mm) and 1/4" (6 mm) Lexan; 1/8" (3 mm) and 1/4" (6 mm) Tempered; 1/4" (6 mm) wired
- 3" (76 mm) track
- Bracket mounting (not available on full vertical)
- Higher-cycle springs in 25k, 50k, 75k, 100k cycles
- Exhaust ports
- Jamb weatherseals, Saverseal pliable blade seal and Therma-Flex seal
- Bottom strips, including looped PVC weatherstrips, flexible PVC astragal weatherstrips and double-contact weatherstrips
- Reinforcing struts of roll-formed steel slat sections
- Industrial brown polyester (424 Series only)
- Movable center posts for 2" (51 mm) or 3" (76 mm) tracks that roll away, with automatic safety catches that prevent door closure when posts are removed
- Tumbler keyed lock

The 420 and 424 Series doors are designed for heavy-duty use in a variety of commercial and industrial applications. Both series feature a 2" (51 mm) panel thickness, 16-gauge steel intermediate and end stiles, ribbed steel exterior and a white paint finish. The 420 Series is a 20-gauge steel door available in sizes up to 31'2" in width and 24'1" in height (9500 mm and 7341 mm). The 424 Series is available in sizes up to 30'2" in width and 24'1" in height (9195 mm and 7341 mm), and is also available in Industrial brown. Numerous options — including weatherstripping, reinforcing struts, movable center posts, and motor operation — allow these heavy-duty doors to meet nearly any project requirement.

### ARCHITECTURAL SPECIFICATIONS\*

420 424

#### PART 1 GENERAL

##### 1.01 Work Included

The doors will be 420 or 424 Series as manufactured by Overhead Door Corporation.

##### 1.02 Related Work

Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

##### 1.03 Quality Assurance

In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator (optional) shall be manufactured by a single-source producer of door systems; as by Overhead Door Corporation.

#### PART 2 PRODUCT

##### 2.01 Sections

Section profile will be ribbed. Sections will be 20-gauge for 420 Series or 24-gauge for the 424 Series, roll-formed galvanized steel exterior. Sections will have a nominal thickness of 2" (51 mm). Doors will have rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity.

### 2.02 Center and End Stiles

Center and end stiles will be 16-gauge steel, formed and fastened as integral structures with the rolled sections. End stiles will be channel-shaped to 2" (51 mm) deep.

### 2.03 Springs

Standard springs will be 10,000 cycles. (Optional higher-cycle 25,000, 50,000, 75,000, or 100,000-cycle springs).

### 2.04 Hardware

Hinges and fixtures will be galvanized steel. Full-floating ball-bearing rollers will have hardened steel races. Roller sizes will be adequate for design requirements and limitations.

### 2.05 Track

Track is 2" (51 mm) standard (3" (76 mm) optional) angle-mounted. (Bracket-mounted track is an option, but not available on full vertical doors).

### 2.06 Lock

Lock will be interior-mounted slide lock. (Optional tumbler keyed lock is available.)

### 2.07 Weatherstrip

Bottom weatherstrip will be flexible PVC and held in place by a retainer that also provides additional reinforcement.

### 2.08 Finish

Finish will be factory baked-on white (Industrial brown optional on 424 Series) polyester coating.

### 2.09 Operation

Operation will be by manual pull rope. (Optional chain hoist and electric operator are available.)

## PART 3 EXECUTION

### 3.01 Execution

Install the doors in accordance with Overhead Door Corporation instructions and standards, using an authorized Overhead Door Corporation distributor.

*\*Note to specifier: This specification is a suggested guide. Available options are shown in parentheses.*

Panel Schedule		Section Schedule	
Door Width	Number of Panels	Door Height	Number of Sections
to 10'2" (3099 mm)	2	to 8'1" (2464 mm)	4
10'3" to 12'2" (3124 mm to 3708 mm)	3	8'2" to 10'1" (2489 mm to 3073 mm)	5
12'3" to 16'2" (3734 mm to 4928 mm)	4	10'2" to 12'1" (3099 mm to 3683 mm)	6
16'3" to 19'2" (4953 mm to 5842 mm)	5	12'2" to 14'1" (3708 mm to 4293 mm)	7
19'3" to 22'2" (5867 mm to 6756 mm)	6	14'2" to 16'1" (4318 mm to 4902 mm)	8
22'3" to 26'2" (6782 mm to 7976 mm)	8	16'2" to 18'1" (4928 mm to 5512 mm)	9
26'3" to 31'2"* (8001 mm to 9804 mm)	10	18'2" to 20'1" (5537 mm to 6121 mm)	10
26'3" to 30'2"* (8001 mm to 9195 mm)	10	20'2" to 22'1" (6147 mm to 6731 mm)	11
		22'2" to 24'1"* (6756 mm to 7341 mm)	12

\*420 Series \*\*424Series



# Medium-Duty Sectional Steel Doors

## SERIES 430

### Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	20'2" (6147 mm)
Maximum standard height	16'1" (4902 mm)
Exterior steel	Nominal 24-gauge galvanized steel
Exterior surface	Ribbed
End stiles	16-gauge steel
Center stiles	16-gauge steel
Standard mounting	Angle mount
Standard track	2" (51 mm)
Standard springs	10,000 cycle
Weatherstripping	Standard on bottom
Operation	Manual pull rope
Finish	White baked-on polyester
Lock	Interior-mounted slide lock

### Options

- Electric operator or chain hoist
- Full sash section with 1/8" (3 mm) DSB, insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/8" (3 mm) DSB; 1/8" (3 mm) and 1/4" (6 mm) plexiglass; 1/8" (3 mm) and 1/4" (6 mm) Lexan; 1/8" (3 mm) and 1/4" (6 mm) Tempered; 1/4" (6 mm) wired
- Industrial brown polyester
- 3" (76 mm) track
- Bracket mounting (not available on full vertical)
- Bottom sensing edge
- Higher-cycle springs in 25k, 50k, 75k, 100k cycles
- Exhaust ports
- Jamb weatherseals, Saverseal pliable blade seal and Therma-Flex seal
- Bottom strips, including looped PVC weatherstrips, flexible PVC astragal weatherstrips and double-contact weatherstrips
- Reinforcing struts of roll-formed steel hat sections
- Movable center posts for 2" (51 mm) or 3" (76 mm) tracks that roll away, with automatic safety catches that prevent door closure when posts are removed
- Tumbler keyed lock

The 430 Series sectional steel door is available in sizes up to 20'2" in width and 16'1" in height (6147 mm and 4902 mm) for a variety of medium-duty applications. These doors features a 2" (51 mm) panel thickness and a nominal 24-gauge, ribbed, white galvanized steel exterior with 16-gauge steel intermediate and end stiles. (Industrial brown is available) The 430 Series is customizable to any project specification with a variety of additionally available options.

### ARCHITECTURAL SPECIFICATIONS\*

430

#### PART 1 GENERAL

##### 1.01 Work Included

The doors will be 430 Series as manufactured by Overhead Door Corporation.

##### 1.02 Related Work

Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

##### 1.03 Quality Assurance

In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator (optional) shall be manufactured by a single-source producer of door systems; as by Overhead Door Corporation.

#### PART 2 PRODUCT

##### 2.01 Sections

Section profile will be ribbed. Sections will be nominal 24-gauge, roll-formed galvanized steel exterior. Sections will have a nominal thickness of 2" (51 mm). Doors will have rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity.

##### 2.02 Center and End Stiles

Center and end stiles will be 16-gauge steel, formed and fastened as integral structures with the rolled sections. End stiles will be channel-shaped to 2" (51 mm) deep.

##### 2.03 Springs

Standard springs will be 10,000 cycles. (Optional higher-cycle 25,000, 50,000, 75,000, or 100,000-cycle springs).





#### 2.04 Hardware

Hinges and fixtures will be galvanized steel. Full-floating ball-bearing rollers will have hardened steel races. Roller sizes will be adequate for design requirements and limitations.

#### 2.05 Track

Track is 2" (51 mm) standard (3" (76 mm) optional) angle-mounted. (Bracket-mounted track is an option, but not available on full vertical doors).

#### 2.06 Lock

Lock will be interior-mounted slide lock. (Optional tumbler keyed lock is available.)

#### 2.07 Weatherstrip

Bottom weatherstrip will be flexible PVC and held in place by a retainer that also provides additional reinforcement.

#### 2.08 Finish

Finish will be factory baked-on white (Industrial brown option) polyester.

#### 2.09 Operation

Operation will be by manual pull rope. (Optional chain hoist and electric operator are available.)

### PART 3 EXECUTION

#### 3.01 Execution

Install the doors in accordance with Overhead Door Corporation instructions and standards, using an authorized Overhead Door Corporation distributor.

*\*Note to specifier: This specification is a suggested guide. Available options are shown in parentheses.*

Panel Schedule		Section Schedule	
Door Width	Number of Panels	Door Height	Number of Sections
8'0" to 10'2" (2438 mm to 3099 mm)	2	to 8'1" (2464 mm)	4
10'3" to 12'2" (3124 mm to 3708 mm)	3	8'2" to 10'1" (2489 mm to 3073 mm)	5
12'3" to 16'2" (3734 mm to 4928 mm)	4	10'2" to 12'1" (3099 mm to 3683 mm)	6
16'3" to 19'2" (4953 mm to 5842 mm)	5	12'2" to 14'1" (3708 mm to 4293 mm)	7
19'3" to 20'2" (5867 mm to 6147 mm)	6	14'2" to 16'1" (4318 mm to 4902 mm)	8



# Extra Heavy-Duty Insulated Sectional Steel Doors

## SERIES 418

### Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	32'2" (9804 mm)
Maximum standard height	21'1" (6426 mm)
Exterior steel	16-gauge galvanized steel
Back cover	26-gauge galvanized steel (poly-backed, HIPS-backed optional)
Insulation	Expanded polystyrene (standard) Isocyanurate (optional)
R-value	
Polystyrene	7.35 (1.29 W/Msq)
Isocyanurate	11.69 (2.06 W/Msq)
Exterior surface	Flush
End stiles	16-gauge steel
Center stiles	16-gauge steel
Standard mounting	Angle mount
Standard track	2" (51 mm)
Standard springs	10,000 cycle
Weatherstripping	Standard on bottom
Operation	Manual pull rope
Finish	White baked-on polyester
Lock	Interior-mounted slide lock

### Options

- Electric operator or chain hoist
- Bottom sensing edge
- Full sash section with 1/8" (3 mm) DSB; 1/8" (3 mm) insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/2" insulated DSB
- 3" (76 mm) track
- Bracket mounting (not available on full vertical (door tracks)
- Higher-cycle springs in 25k, 50k, 75k, 100k cycles
- Exhaust ports
- Jamb weatherseals, Saverseal pliable blade seal and Therma-Flex seal
- Bottom strips, including looped PVC weatherstrips, flexible PVC astragal weatherstrips and double-contact weatherstrips
- Reinforcing struts of roll-formed steel hat sections
- Movable center posts for 2" (51 mm) or 3" (76 mm) tracks that roll away, with automatic safety catches that prevent door closure when posts are removed
- Tumbler keyed lock

The 418 Series is a high-quality, heavy-duty insulated door that provides protection against heat and cold environments. Fabricated of 16-gauge, flush galvanized steel exterior and 26-gauge steel back cover, these 2" (51 mm) thick doors offer the choice of expanded polystyrene or isocyanurate insulation for R-value's up to 11.69 (2.06 W/Msq). A wide array of options allows these doors to meet the most stringent project requirements that call for a degree of thermal efficiency.

### ARCHITECTURAL SPECIFICATIONS\*

418

#### PART 1 GENERAL

##### 1.01 Work Included

The doors will be 418 Series as manufactured by Overhead Door Corporation.

##### 1.02 Related Work

Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

##### 1.03 Quality Assurance

In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator (optional) shall be manufactured by a single-source producer of door systems; as by Overhead Door Corporation.

#### PART 2 PRODUCT

##### 2.01 Sections

Section profile will be flush. Sections will be 16-gauge, roll-formed galvanized steel exterior. Sections will have a nominal thickness of 2" (51 mm). Doors will have rabbetted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity. Back cover will be 26-gauge steel. (poly-backed, HIPS-backed optional)

##### 2.02 Insulation

Insulation will be polystyrene with an R-value of 7.35 (1.29 W/Msq) (Optional isocyanurate insulation with an R value of

11.69 or 2.06 W/Msq).

### 2.03 Center and End Stiles

Center and end stiles will be 16-gauge steel, formed and fastened as integral structures with the rolled sections. End stiles will be channel-shaped to 2" (51 mm) deep.

### 2.04 Springs

Standard springs will be 10,000 cycles. (Optional higher-cycle 25,000, 50,000, 75,000, or 100,000-cycle springs).

### 2.05 Hardware

Hinges and fixtures will be galvanized steel. Full-floating ball-bearing rollers will have hardened steel races. Roller sizes will be adequate for design requirements and limitations.

### 2.06 Track

Track is 2" (51 mm) standard (3" (76 mm) optional) angle-mounted. (Bracket-mounted track is an option, but not available on full vertical doors).

### 2.07 Lock

Lock will be interior-mounted slide lock. (Optional tumbler keyed lock is available.)

### 2.08 Weatherstrip

Bottom weatherstrip will be flexible PVC and held in place by a retainer that also provides additional reinforcement.

### 2.09 Finish

Finish will be factory baked-on white polyester coating.

### 2.10 Operation

Operation will be by manual pull rope. (Optional chain hoist and electric operator are available.)

## PART 3 EXECUTION

### 3.01 Execution

Install the doors in accordance with Overhead Door Corporation instructions and standards, using an authorized Overhead Door Corporation distributor.

Panel Schedule		Section Schedule	
Door Width	Number of Panels	Door Height	Number of Sections
to 10'2" (3099 mm)	2	6'1" to 7'1" (2591 mm)	4
10'3" to 12'2" (3124 mm to 3708 mm)	3	7'2" to 8'10" (2616 mm to 3073 mm)	5
12'3" to 16'2" (3734 mm to 4928 mm)	4	8'11" to 10'7" (3099 mm to 3683 mm)	6
16'3" to 19'2" (4953 mm to 5842 mm)	5	10'8" to 12'4" (3708 mm to 4293 mm)	7
19'3" to 22'2" (5867 mm to 6756 mm)	6	12'5" to 14'1" (3099 mm to 3683 mm)	8
22'3" to 26'2" (6782 mm to 7976 mm)	8	14'2" to 15'10" (3099 mm to 3683 mm)	9
26'3" to 32'2" (7925 mm to 9195 mm)	10	15'11" to 17'7" (3099 mm to 3683 mm)	10
		17'8" to 21'1" (3099 mm to 3683 mm)	11

Installation and Service: Overhead Door Company of Madison





# Heavy-Duty Insulated Sectional Steel Doors

## SERIES 422 426

### Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	29'2" (8890 mm) (422 Series) 28'2" (8585 mm) (426 Series)
Maximum standard height	24'1" (7341 mm)
Exterior steel	20-gauge galvanized steel (422 Series) 24-gauge galvanized steel (426 Series)
Back cover	26-gauge galvanized steel (poly-backed, HIPS-backed optional)
Insulation	Expanded polystyrene (standard) Isocyanurate (optional)
R-value	
Polystyrene	7.35 (1.29 W/Msq)
Isocyanurate	11.69 (2.06 W/Msq)
Exterior surface	Ribbed
End stiles	16-gauge steel
Center stiles	16-gauge steel
Standard mounting	Angle mount
Standard track	2" (51 mm)
Standard springs	10,000 cycle
Weatherstripping	Standard on bottom
Operation	Manual pull rope
Finish	White baked-on polyester
Lock	Interior-mounted slide lock

### Options

- Electric operator or chain hoist
- Bottom sensing edge
- Full sash section with 1/8" (3 mm) DSB; 1/8" (3 mm) insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/2" insulated DSB
- Industrial brown polyester (426 Series only)
- 3" (76 mm) track
- Bracket mounting (not available on full vertical)
- Higher-cycle springs in 25k, 50k, 75k, 100k cycles
- Exhaust ports
- Jamb weatherseals, Saverseal pliable blade seal and Therma-Flex seal
- Bottom strips, including looped PVC weatherstrips, flexible PVC astragal weatherstrips and double-contact weatherstrips
- Reinforcing struts of roll-formed steel hat sections
- Movable center posts for 2" (51 mm) or 3" (76 mm) tracks that roll away, with automatic safety catches that prevent door closure when posts are removed
- Tumbler keyed lock

The 422 and 426 Series doors are ideal for heavy-duty applications requiring protection against the elements. These doors feature a 2" (51 mm) panel thickness, 16-gauge steel intermediate and end stiles, ribbed steel exterior and 26-gauge steel back cover in a white finish. Polystyrene insulation (R-value of 7.35 or 1.29 W/Msq) is standard, and isocyanurate insulation, with an R-value of 11.69 (2.06 W/Msq) is an option. The 422 Series is a 20-gauge steel door available in sizes up to 29'2" in width and 24'1" in height (8890 mm and 7341 mm). The 426 Series is available in sizes up to 28'2" in width and 24'1" in height (8585 mm and 7341 mm), and is also offered in Industrial brown. A multitude of options — including reinforcing struts, movable center posts, and motor operation — allow these insulated heavy-duty doors to be used in a variety of commercial and industrial environments.

### ARCHITECTURAL SPECIFICATIONS\*

422 426

#### PART 1 GENERAL

##### 1.01 Work Included

The doors will be 422 or 426 Series as manufactured by Overhead Door Corporation.

##### 1.02 Related Work

Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

##### 1.03 Quality Assurance

In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator (optional) shall be manufactured by a single-source producer of door systems; as by Overhead Door Corporation.

#### PART 2 PRODUCT

##### 2.01 Sections

Section profile will be ribbed. Sections will be 20-gauge for the 422 Series or 24-gauge for the 426 Series





roll-formed galvanized steel exterior. Sections will have a nominal thickness of 2" (51 mm). Doors will have rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity. Back cover will be 26-gauge steel. (poly-backed, HIPS-backed optional)

### 2.02 Insulation

Insulation will be polystyrene with an R-value of 7.35 (1.29 W/Msq) (Optional isocyanurate insulation with an R value of 11.69 or 2.06 W/Msq).

### 2.03 Center and End Stiles

Center and end stiles will be 16-gauge steel, formed and fastened as integral structures with the rolled sections. End stiles will be channel-shaped to 2" (51 mm) deep.

### 2.04 Springs

Standard springs will be 10,000 cycles. (Optional higher-cycle 25,000, 50,000, 75,000, or 100,000-cycle springs).

### 2.05 Hardware

Hinges and fixtures will be galvanized steel. Full-floating ball-bearing rollers will have hardened steel races. Roller sizes will be adequate for design requirements and limitations.

### 2.06 Track

Track is 2" (51 mm) standard (3" (76 mm) optional) angle-mounted. (Bracket-mounted track is an option, but not available on full vertical doors).

### 2.07 Lock

Lock will be interior-mounted slide lock. (Optional tumbler keyed lock is available.)

### 2.08 Weatherstrip

Bottom weatherstrip will be flexible PVC and held in place by a retainer that also provides additional reinforcement.

### 2.09 Finish

Finish will be factory baked-on white (Industrial brown – 426 Series) polyester.

### 2.10 Operation

Operation will be by manual pull rope. (Optional chain hoist and electric operator are available.)

## PART 3 EXECUTION

### 3.01 Execution

Install the doors in accordance with Overhead Door Corporation instructions and standards, using an authorized Overhead Door Corporation distributor.

*\*Note to specifier: This specification is a suggested guide. Available options are shown in parentheses.*

Panel Schedule		Section Schedule	
Door Width	Number of Panels	Door Height	Number of Sections
to 10'2" (3099 mm)	2	to 8'1" (2464 mm)	4
10'3" to 12'2" (3124 mm to 3708 mm)	3	8'2" to 10'1" (2489 mm to 3073 mm)	5
12'3" to 16'2" (3734 mm to 4928 mm)	4	10'2" to 12'1" (3099 mm to 3683 mm)	6
16'3" to 19'2" (4953 mm to 5842 mm)	5	12'2" to 14'1" (3708 mm to 4293 mm)	7
19'3" to 22'2" (5867 mm to 6756 mm)	6	14'2" to 16'1" (4318 mm to 4902 mm)	8
22'3" to 26'2" (6782 mm to 7976 mm)	8	16'2" to 18'1" (4928 mm to 5512 mm)	9
26'3" to 29'2" (8001 mm to 8890 mm)	10	18'2" to 20'1" (5537 mm to 6121 mm)	10
26'3" to 28'2" (8001 mm to 8534 mm)	10	20'2" to 22'1" (6147 mm to 6731 mm)	11
		22'2" to 24'1" (6756 mm to 7341 mm)	12

\*422 Series \*\*426 Series



# Medium-Duty Sectional Insulated Steel Doors

## SERIES 432

### Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	20'2" (6147 mm)
Maximum standard height	16'1" (4902 mm)
Exterior steel	nominal 24-gauge galvanized steel
Back cover	polybonded laminate (26-gauge galvanized steel, HIPS-backed optional)
Insulation	Expanded polystyrene (standard) Isocyanurate (optional)
R-value	
Polystyrene	7.35 (1.29 W/Msq)
Isocyanurate	11.69 (2.06 W/Msq)
Exterior surface	Ribbed
End stiles	16-gauge steel
Center stiles	16-gauge steel
Standard mounting	Angle mount
Standard track	2" (51 mm)
Standard springs	10,000 cycle
Weatherstripping	Standard on bottom
Operation	Manual pull rope
Finish	White baked-on polyester
Lock	Interior-mounted slide lock

### Options

- Electric operator or chain hoist
- Full sash section with 1/8" (3 mm) DSB; 1/8" (3 mm) insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/2" insulated DSB
- Industrial brown polyester paint
- 3" (76 mm) track
- Bracket mounting (not available on full vertical door tracks)
- Bottom sensing edge
- Higher-cycle springs in 25k, 50k, 75k, 100k cycles
- Exhaust ports
- Jamb weatherseals, Saverseal pliable blade seal and Therma-Flex seal
- Bottom strips, including looped PVC weatherstrips, flexible PVC astragal weatherstrips and double-contact weatherstrips
- Reinforcing struts of roll-formed steel hat sections
- Movable center posts for 2" (51 mm) or 3" (76 mm) tracks that roll away, with automatic safety catches that prevent door closure when posts are removed
- Tumbler keyed lock

The 432 Series doors offer a 2" (51 mm) panel thickness, a nominal 24-gauge ribbed galvanized steel exterior, and a polybonded back cover. Polystyrene insulation provides an R-value of 7.35 (1.29 W/Msq) and optional isocyanurate provides an R-value of 11.69 (2.06 W/Msq). A variety of options makes this door an economical solution for applications requiring a medium-duty insulated steel door.

### ARCHITECTURAL SPECIFICATIONS\*

432

#### PART 1 GENERAL

##### 1.01 Work Included

The doors will be 432 Series as manufactured by Overhead Door Corporation.

##### 1.02 Related Work

Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

##### 1.03 Quality Assurance

In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator (optional) shall be manufactured by a single-source producer of door systems; as by Overhead Door Corporation.

#### PART 2 PRODUCT

##### 2.01 Sections

Section profile will be ribbed. Sections will be nominal, 24-gauge, roll-formed galvanized steel exterior. Sections will have a nominal thickness of 2" (51 mm). Doors will have rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity. Back cover will be polybonded laminate. (26-gauge galvanized steel, HIPS-backed optional)

##### 2.02 Insulation

Insulation will be polystyrene with an R-value of 7.35 (1.29 W/Msq). (Isocyanurate insulation with an R-value of 11.69 or 2.06 W/Msq).

##### 2.03 Center and End Stiles

Center and end stiles will be 16-gauge steel, formed and fastened as integral structures with the rolled sections. End stiles will be channel-shaped to 2" (51 mm) deep.



#### 2.04 Springs

Standard springs will be 10,000 cycles. (Optional higher-cycle 25,000, 50,000, 75,000, or 100,000-cycle springs).

#### 2.05 Hardware

Hinges and fixtures will be galvanized steel. Full-floating ball-bearing rollers will have hardened steel races. Roller sizes will be adequate for design requirements and limitations.

#### 2.06 Track

Track is 2" (51 mm) standard (3" (76 mm) optional) angle-mounted. (Bracket-mounted track is an option, but not available on full vertical doors).

#### 2.07 Lock

Lock will be interior-mounted slide lock. (Optional tumbler keyed lock is available.)

#### 2.08 Weatherstrip

Bottom weatherstrip will be flexible PVC and held in place by a retainer that also provides additional reinforcement.

#### 2.09 Finish

Finish will be factory baked-on white (Industrial brown option) polyester coating.

#### 2.10 Operation

Operation will be by manual pull rope. (Optional chain hoist and electric operator are available.)

### PART 3 EXECUTION

#### 3.01 Execution

Install the doors in accordance with Overhead Door Corporation instructions and standards, using an authorized Overhead Door Corporation distributor.

*\*Note to specifier: This specification is a suggested guide. Available options are shown in parentheses.*

Panel Schedule		Section Schedule	
Door Width	Number of Panels	Door Height	Number of Sections
to 10'2" (3099 mm)	2	6'1" to 7'1" (2591 mm)	4
10'3" to 12'2" (3124 mm to 3708 mm)	3	7'2" to 8'10" (2616 mm to 3073 mm)	5
12'3" to 16'2" (3734 mm to 4928 mm)	4	8'11" to 10'7" (3099 mm to 3683 mm)	6
16'3" to 19'2" (4953 mm to 5842 mm)	5	10'8" to 12'4" (3708 mm to 4293 mm)	7
19'3" to 20'2" (5867 mm to 6147 mm)	6	12'5" to 16'1" (3099 mm to 4902 mm)	8

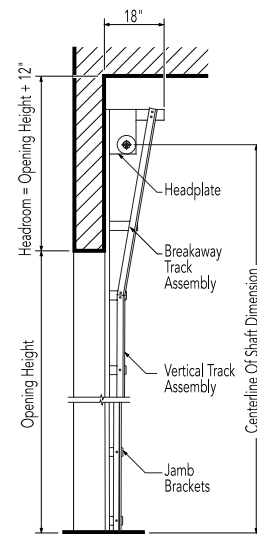
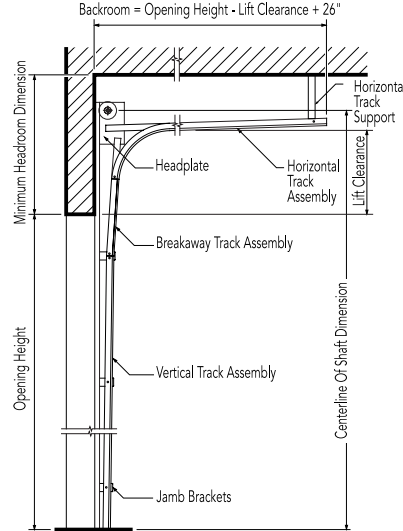
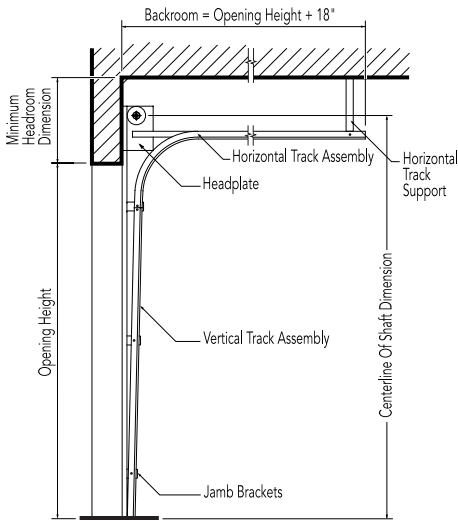


# Track Detail

Any of the following track configurations can be selected for all Sectional Steel Models.

O.H.=Opening Height L.C.=Lift Clearance D.H.=Door Height

Standard Lift Track	Lift Clearance Track Standard	Full Vertical Track
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**2" (51 mm) Track** [15" (381 mm) Radius]

Door Height	Centerline of Shaft	Minimum Headroom
Thru 12'0" (3658 mm)	O.H. + 11 5/8" (295 mm)	14 1/4" (362 mm)
Thru 16'0" (4877 mm)	O.H. + 12 5/8" (321 mm)	20 1/2" (521 mm)

**3" (76 mm) Track** [15" (381 mm) Radius]

Thru 18'0" (5486 mm)	O.H. + 14 5/8" (372 mm)	18" (457 mm)
Thru 32'0" (9754 mm)	O.H. + 16 7/8" (429 mm)	21 1/2" (546 mm)

**2" (51 mm) Track** [15" (381 mm) Radius]

Door Height	Centerline of Shaft	Minimum Headroom
Thru 12'0" (3658 mm)	O.H.+L.C.+5 5/8" (143 mm)	L.C.+ 8 3/4" (222 mm)
Thru 16'0" (4877 mm)	O.H.+L.C.+5 5/8" (143 mm)	L.C.+11 1/4" (286 mm)

**3" (76 mm) Track** [15" (381 mm) Radius]

Thru 22'0" (6706 mm)	O.H.+L.C.+6 5/8" (168 mm)	L.C.+11 1/2" (292 mm)
Thru 32'0" (9754 mm)	O.H.+L.C.+6 5/8" (168 mm)	L.C.+12 1/4" (311 mm)

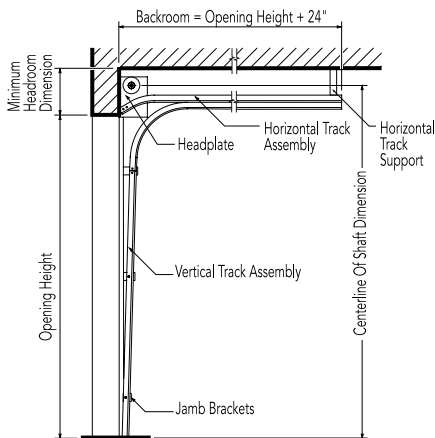
**2" (51 mm) Track**

Door Height	Centerline of Shaft	Minimum Headroom
Thru 11'0" (3353 mm)	O.H.+O.H.+3/8" (10 mm)	O.H.+10 1/4" (260 mm)
Thru 16'0" (4877 mm)	O.H.+O.H.+3/8" (10 mm)	O.H.+10 1/4" (260 mm)

**3" (76 mm) Track**

Thru 18'0" (5486 mm)	O.H.+O.H.+3/8" (10 mm)	O.H.+10 1/4" (260 mm)
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**Low Headroom Track**  
Springs to Front



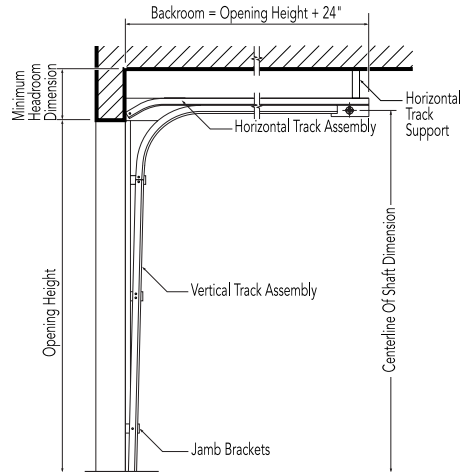
**2" (51 mm) Track** [15" (381 mm) Radius]

Door Height	Centerline of Shaft	Minimum Headroom
Thru 12'0" (3658 mm)	D.H. + 8" (203 mm)	11 3/4" (299 mm)
Thru 16'0" (4877 mm)	D.H. + 8" (203 mm)	12 1/2" (318 mm)

**3" (76 mm) Track** [15" (381 mm) Radius]

Thru 12'0" (3658 mm)	D.H. + 9" (229 mm)	13" (330 mm)
Thru 18'0" (5486 mm)	D.H. + 9" (229 mm)	13 3/4" (349 mm)

**Low Headroom Track**  
Springs to Rear



**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) Track** [15" (381 mm) Radius]

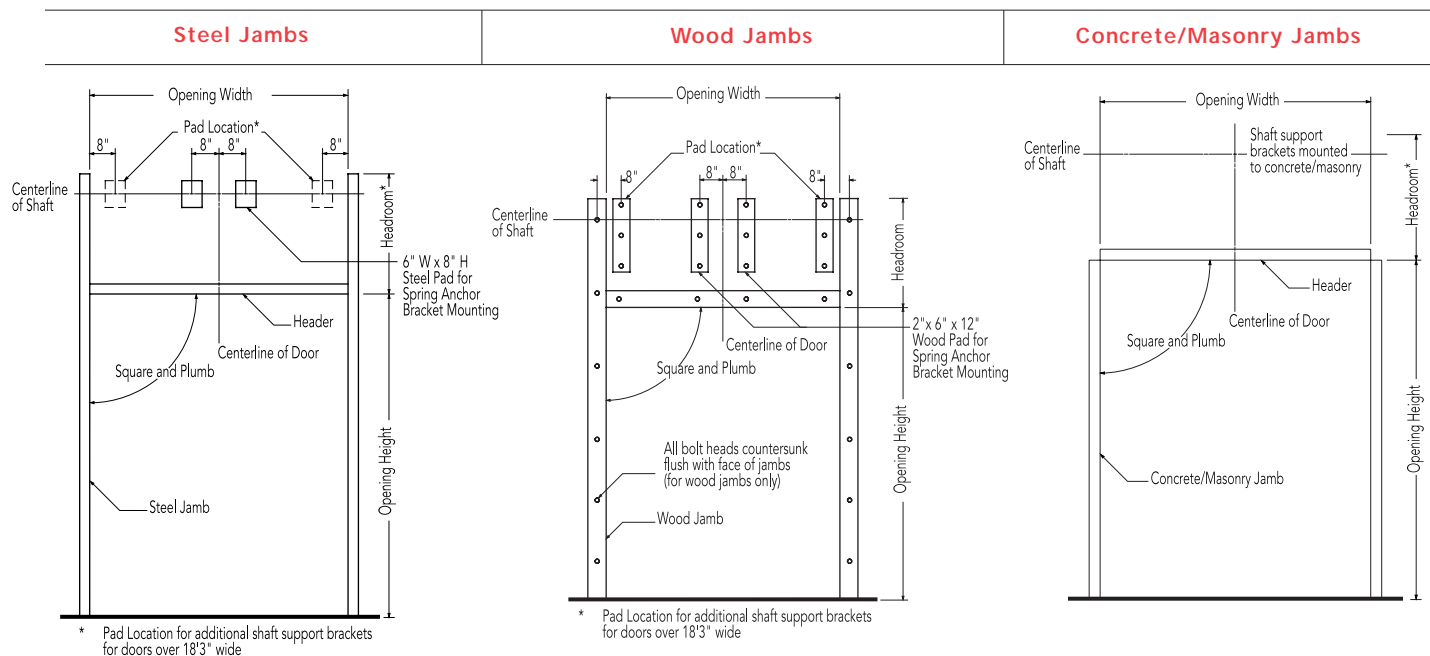
Thru 18'0" (5486 mm)	O.H.+6 3/4" (171 mm)	9 3/4" (248 mm)
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Additional headroom required for drawbar operation.  
Consult your local Overhead Door Distributor.





Framing and pad details for common installation of Sectional Steel and Insulated Steel Doors in steel, wood, concrete and masonry jambs are provided here. If you require additional information or have special project requirements, refer to the Overhead Door Architectural Design Manual, or consult with the Overhead Door Applications Engineering Group or your local Overhead Door distributor.



2" (51 mm) Track			2" (51 mm) Track			2" (51 mm) Track		
3" (76 mm)* Track			3" (76 mm)* Track			3" (76 mm)* Track		
Minimum Required Sideroom			Minimum Required Sideroom			Minimum Required Sideroom		
Track Type	2" Track (51 mm)	3" Track (76 mm)*	Track Type	2" Track (51 mm)	3" Track (76 mm)*	Track Type	2" Track (51 mm)	3" Track (76 mm)*
Standard Lift	4 1/2" (114 mm)	6 1/2" (165 mm)	Standard Lift	3 1/2" (89 mm)	5 1/2" (140 mm)	Standard Lift	4 1/2" (114 mm)	6 1/2" (165 mm)
Low Headroom	9" (229 mm)	10" (254 mm)	Low Headroom	8" (203 mm)	9" (229 mm)	Low Headroom	9" (229 mm)	10" (254 mm)
Lift Clearance	4 1/2" (114 mm)	6 1/2" (165 mm)	Lift Clearance	3 1/2" (89 mm)	5 1/2" (140 mm)	Lift Clearance	4 1/2" (114 mm)	5 1/2" (140 mm)
Full Vertical	4 1/2" (114 mm)	6 1/2" (165 mm)	Full Vertical	3 1/2" (89 mm)	5 1/2" (140 mm)	Full Vertical	4 1/2" (114 mm)	5 1/2" (140 mm)

## Operator Control Options

- Entrapment protection: electric sensing edge, pneumatic sensing edge, or photoelectric sensors
- 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
- Commercial light package
- Radio control systems (24 VAC or 120 VAC )
- Explosion and dust ignition-proof systems

## Electric Operator Selection Guide

	Horsepower	Max. height of door	Max. weight of door	V-belt	6-rib poly J-belt	Worm gear	Planetary Gears	Adjustable clutch	Totally enclosed	Continuous duty	Explosion proof	Mounting type
<b>Armor Drive</b>	1/2, 1 HP	32' (9753 mm)	3000 (1360 kg)				•			•		T,S,C
<b>Model SDB+</b>	1, 2 HP	28' (8534 mm)	3080 (1397 kg)			•		•	•	•	•	S,C
<b>Model L+</b>	1/3, 1/2, 3/4 HP	28' (8534 mm)	1650 (748 kg)			•		•	•	•	•	T,S,C
<b>Model JST+</b>	1/3, 1/2, 3/4 HP	24' (7315 mm)	1450 (657 kg)		•			•	•	•		T,S,C
<b>Model SEL+</b>	1/3, 1/2 HP	18' (5486 mm)	940 (426 kg)	•					•	•		T,S
<b>Model MD</b>	1/2 HP	14' (4267mm)	620 (281 kg)	•								T,S

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

## Entrapment Protection

The installation of an external reversing device for all electrically operated commercial doors is recommended. If a sensing edge or other reversing device is not installed, a constant-contact control switch must be used to close the door. We recommend a four-wire, fail-safe electric sensing edge that will not allow the door to close if the sensing edge is damaged or not working properly.

## NEW Operator Model

### ArmorDrive™

The ArmorDrive comes available with a 1/2 hp or 1 hp motor and can open doors up to 3000 lbs. This full-featured, modular door control system lifts every door in our commercial and industrial lines – from sectional doors and security grilles to the largest rolling steel service door. Customized mounting kits accommodating your specific door type, configuration and installation scenario.



Overhead Door Corporation offers the broadest line of electric operators to suit new construction and retrofit applications, as well as unusual or special requirements. Manufactured by Overhead Door Corporation to meet the exacting performance requirements of Overhead Door's upward-acting doors, our ribbon branded operators afford precise control of door action for years of trouble-free operation. 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. Overhead Door Corporation is the only national manufacturer of a full line of commercial and industrial doors and operators specifically designed for integral applications.

## Operator Models

### Model SDB+

Model SDB+ is an extra-heavy-duty commercial operator designed to operate doors up to 25' (7620 mm) in height and 3080 pounds (1397 kg). It is available as either a side-mounted or center-mounted unit.



### Model L+

Model L+ is a heavy-duty commercial operator designed to operate doors up to 25' (7620 mm) in height and 1650 pounds (748 kg). It is available as a trolley-type (20:1 gear ratio), or side-mounted or center-mounted unit (40:1 gear ratios).



### Model JST+

Model JST+ is a heavy-duty operator designed to operate doors up to 21' (6401 mm) in height and 1450 pounds (657 kg). It is available as a trolley-type, side-mounted, or center-mounted unit.





## Model SEL+

Model SEL+ is a heavy-duty operator designed to operate doors up to 18' (5486 mm) in height and 940 pounds (426 kg). It is available as a trolley-type or side-mounted unit.



## Model MD

Model MD operates doors up to 14' (4267 mm) in height and 620 pounds (281 kg). It has a built-in safety system that automatically reverses during the closing cycle. It is available as a trolley-type or side-mounted unit.



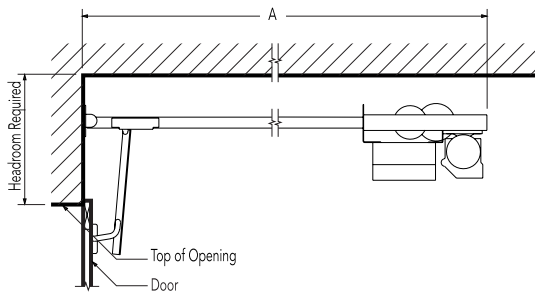
## Mounting Details

**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. Available on Models JST+, SEL+, L+, and MD.

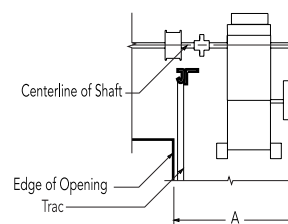
**Side-mounted (jackshaft)** operators feature a power unit mounted on the inside front wall and connected to the crosshead shaft, with an adjustable coupling or drive chain and sprockets. Available on models MD, SEL+, JST+, SDB+, and L+.

**Center-mounted (jackshaft)** operators feature a power unit on the front wall above the door opening. No additional backroom is required. Available on models JST+, L+, and SDB+.

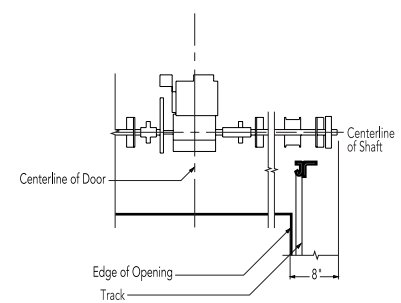
### Trolley-type (Drawbar) JST+, SEL+, L+, MD



### Side Mount Type MD, SEL+, JST+, SDB+, L+



### Center Mount/Jackshaft Type JST+, L+, SDB+



Maximum Headroom Requirements	
ArmorDrive	Track Requirements + 6 3/8" (162 mm)
JST+	Track Requirements + 5 1/2" (140 mm)
SEL+	Track Requirements + 4" (102 mm)
L+	Track Requirements + 3" (76 mm)
MD	Track Requirements + 3 3/4" (95 mm)

See page 18 for track details

"A" Dimension - Minimum (Sideroom)		
	2" (51mm) Track	3" (76mm) Track
ArmorDrive	22" (571 mm)	23 1/2" (597 mm)
MD	20 1/4" (514 mm)	
SEL+	20" (508 mm)	21" (533 mm)
JST+	20" (508 mm)	21" (533 mm)
SDB+	26" (660 mm)	26" (660 mm)
L+	23" (584 mm)	24" (610 mm)

Maximum Headroom Requirements	
ArmorDrive	Track Requirements + 14 3/4" (375 mm)
JST+	Track Requirements + 14" (356 mm)
L+	Track Requirements + 9" (229 mm)
SDB+	Track Requirements + 23" (584 mm)

See page 18 for track details

### Depth Requirements - "A" Dimension (Backroom)

ArmorDrive	Door Height + 4' 10" (1473 mm)
JST+	Door Height + 4' 2" (1295 mm)
SEL+	Door Height + 4' 0" (1219 mm)
L+	Door Height + 6' 0" (1829 mm)
MD	Door Height + 3' 10" (1168 mm)

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