

Sectional SteelDoor Systems



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INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS

Extra-Heavy-Duty and Heavy-Duty Insulated Sectional Steel Door Systems

SERIES 418/422

Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	32'2" (9804 mm) (418 Series) 29'2" (8890 mm) (422 Series)
Maximum standard height	21'1" (6426 mm) (418 Series) 24'1" (7341 mm) (422 Series)
Exterior steel	16-gauge galvanized steel (418 Series) 20-gauge galvanized steel (422 Series)
Back cover	26-gauge galvanized steel
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 (418 Series) Ribbed (422 Series)
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
- Pull-rope automatic release
- SnapBack™ breakaway door section
- Full sash section with 1/8" (3 mm) DSB; 1/2" (12 mm) insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/2" (12 mm) 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, including Sup-UR-Seal silicon rubber bulb seal, 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
- Five-pin tumbler keyed lock

The 418 and 422 Series. True H

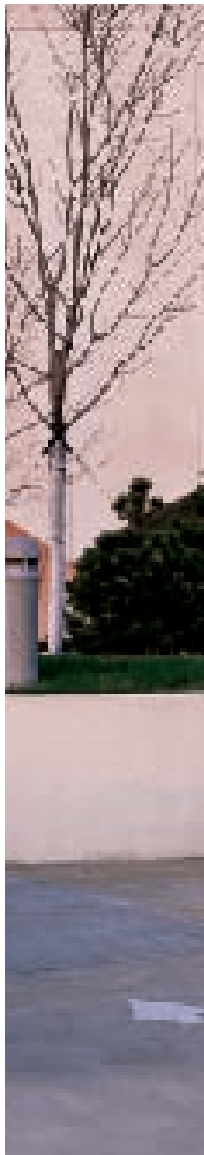
When your project requires a solid sectional steel door system that will hold up to heavy use, rough handling and extreme conditions, look to Overhead Door Corporation's 418 and 422 Series to pack an extra measure of toughness. Fabricated of 16- or 20-gauge galvanized steel for strength and durability, these doors feature an attractive flush (418) or ribbed exterior (422) finish as well as a tough 26-gauge back cover for rugged good looks in any environment. The doors' many available options allow customization to your specific application and aesthetic requirements. A choice of polystyrene or isocyanurate insulation means improved efficiency in thermal applications.

Extra-Heavy-Duty Design for Extra-Heavy-Duty Applications.

The 418 and 422 Series doors are built for exceptional strength and maximum life. The doors feature heavy-gauge, hot-dipped galvanized steel exteriors, and 16-gauge steel center and end stiles. Superior panel strength and a heavy-duty, tight-fitting 2" (51 mm) track combine to meet windloading requirements. Rabbeted meeting rails ensure weathertight joints and provide full-width interlocking structural rigidity. Precision-manufactured galvanized steel track, hinges and fixtures ensure long life and low maintenance. A baked-on polyester paint finish eliminates job-site painting and provides added protection against the elements.

The Choice of Insulated Steel for Thermal Efficiency.

The 418 and 422 Series offer the benefit of insulation for applications where enhanced thermal efficiency is desired. The standard expanded polystyrene provides R-values of 7.35 (1.29 W/Msq), while optional isocyanurate insulation increases R-value efficiency to 11.69 (2.06 W/Msq). The 418 and 422 Series also feature a back cover of 26-gauge galvanized steel for added protection against thermal transfer.



Heavyweights by the Toughest Standards.



SnapBack® Breakaway Sections Add Unequaled Versatility.

For extended door life, consider Overhead Door Corporation's SnapBack™ Breakaway door sections. SnapBack™ is an ideal option for high-traffic areas where forklifts or other industrial equipment cause damage to sectional doors through frequent collisions. The innovative SnapBack™ features unique internal swivel hinge points and collapsible side seals that allow 90° flexibility in either direction. This allows the impact to be absorbed without damage to the breakaway section, other door sections or the track. The section also releases completely and resets easily without special tools. SnapBack™ is available in three options: as a retrofitted section (570 Series), as an insulated breakaway door (571/575 Series), or as a full breakaway door (577 Series), and is insulated to provide a minimum R-value of 10 (1.29 W/MSq.).

Installation and Service: Overhead Door Company of Madison

Comprehensive Options for Customized Solutions.

The 418 and 422 Series offer plenty of options to meet your aesthetic and functional requirements. You'll have the choice of full-sash section or individual-panel glazing to control the amount of light infiltration and permit visitor identification. Bracket mounting is available (except on full vertical doors). A variety of bottom strips and jamb weatherseals minimize air infiltration and accommodate any number of field conditions, including sloping grades.

High-Usage Package for High-Traffic Environments.

The 418 and 422 Series offer an optional package that improves door performance and durability for doors with high-usage cycles. This special application package has three key components for added strength and durability: high-cycle torsion springs in 25K, 50K, 75K or 100K cycles, a solid-steel shaft to reduce fatigue and deflection, and a heavy-duty 3" track. Also available is an integrated line of electric operators designed specifically for these heavy-duty doors, which enhances reliable performance for years to come.

PART 1 GENERAL**1.01 Work Included**

The doors will be 418 and 422 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****418 Series**

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 weather-tight joints and provide full-width interlocking structural rigidity.

422 Series

Section profile will be ribbed. Sections will be 20-gauge galvanized, roll-formed steel exterior for the 422 Series. 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.

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 (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 5-pin 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.

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

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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.

To talk with the Overhead Door Distributor nearest you, call 1-800-887-DOOR.

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