



SERIES

416  
420



INDUSTRY LEADING  
COMMERCIAL & INDUSTRIAL SOLUTIONS

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

## SERIES 416/420

### Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	32'2" (9804 mm) (416 Series) 31'2" (9500 mm) (420 Series)
Maximum standard height	21'1" (6426 mm) (416 Series) 24'1" (7341 mm) (420 Series)
Exterior steel	16-gauge galvanized steel (416 Series) 20-gauge galvanized steel (420 Series)
Exterior surface	Flush (416 Series) Ribbed (420 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	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
- Pull-rope automatic release
- SnapBack™ breakaway door section
- Full sash section with 1/8" (3 mm) DSB; 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 doors)
- 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 carry away or roll away, with automatic safety catches that prevent door closure when posts are removed
- Five-pin tumbler keyed lock

## The 416 and 420 Series. Our Best

Overhead Door Corporation's 416 and 420 Series Door Systems are strong, durable and versatile — and our best-selling sectional steel doors. Designed for heavy-duty commercial and industrial applications, these doors are available in 16- or 20-gauge galvanized steel, and in widths up to 32'2" (9804 mm) and heights up to 24'1" (7341 mm). In addition to many advanced standard features, the 416 and 420 Series doors offer many optional features that allow you to make a bold design statement without compromising functionality.

### Built to Perform and Last

Quality and durability are built into the 416 and 420 Series doors, from their 16- or 20-gauge hot-dipped galvanized steel exteriors to 16-gauge steel center- and end stiles. These doors combine outstanding panel strength, heavy-duty, precision-engineered galvanized hinges and fixtures, and a 2" (51 mm) track to meet stringent building codes and windloading requirements. The doors' rabbeted meeting rails enhance structural rigidity along the full width of the door and form weathertight joints. A baked-on polyester paint finish eliminates field painting and lends added protection against the elements.

### More Options for Versatile Functionality

A long list of options expands the versatility of the 416 and 420 Series to meet most any project requirement. Full-sash section or individual-panel glazing permits complete design freedom in the amount of visual access and light infiltration. Operation by chain hoist or electric motor simplifies opening and closing, especially for larger doors. Exhaust ports accommodate any number of industrial applications. Bracket mounting is an option on all but full-vertical doors, and a variety of bottom strips and jamb weatherseals accommodate nearly any field condition, including sloping grades, while also minimizing air infiltration.





## Best-Selling Sectional Steel Doors.



Installation and Service: Overhead Door Company of Waco

### High-Usage Package for Demanding Conditions

For high-usage applications, a special package improves door performance and life. The package features high-cycle torsion springs in 25k, 50k, 75k or 100k cycles, as well as a solid-steel shaft to reduce fatigue and deflection, and a heavy-duty 3" track for added durability. An integrated line of electric operators designed specifically for these heavy-duty doors further ensures smooth, efficient operation and minimizes maintenance costs for the long term.

### SnapBack<sup>®</sup> Breakaway Sections

SnapBack<sup>™</sup> Breakaway door sections are available as an option for doors to be installed in high-traffic areas, where sectional doors are damaged by frequent collisions with fork-

lifts or other industrial equipment. Adaptable to most any of Overhead Door Corporation's sectional doors, the SnapBack's quick release/quick reset design minimizes repair costs and facility downtime. 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.).



**PART 1 GENERAL****1.01 Work Included**

The doors will be 416 or 420 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****Series 416**

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.

**Series 420**

Section profile will be ribbed. Sections will be 20-gauge galvanized, roll-formed steel exterior for the 420 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.

**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 an interior-mounted slide lock. (Optional five-pin 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 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 1-800-929-DOOR.**

**Overhead Door Corporation**

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