

Sectional SteelDoor Systems



SERIES

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INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS

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

SERIES 426/432

Standard Features At a Glance

Nominal thickness	2" (51 mm)
Maximum standard width	28'2" (8585 mm) (426 Series) 20'2" (6147 mm) (432 Series)
Maximum standard height	24'1" (7341 mm) (426 Series) 16'1" (4902 mm) (432 Series)
Exterior steel	24-gauge galvanized steel (426 Series) Nominal 24-gauge galvanized steel (432 Series)
Back cover	26-gauge galvanized steel (426 Series) High impact polystyrene (HIPS) (optional – 426, 432 Series) 26-gauge galvanized steel (optional – 432 Series) Polybonded laminate (432 Series)
Insulation	Expanded polystyrene (standard) Isocyanurate (optional)
R-value	
Polystyrene	7.35 (1.29 W/Msq K)
Isocyanurate (optional)	11.69 (2.06 W/Msq K)
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; 1/2" (12 mm) insulated; 1/8" (3 mm) and 1/4" (6 mm) plexiglass
- Individual lites with 1/2" (13 mm) insulated DSB
- Industrial Brown polyester
- 3" (76 mm) track
- Bracket mounting (not available on full vertical door tracks)
- Higher-cycle springs in 25k, 50k, 75k, 100k cycles
- Exhaust ports
- Overhead Door utilizes both parallel shaft and duplex spring assemblies to allow better and more flexible solutions to special door sizes and high cycle packages
- Jamb weatherseals
- 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

The 426 and 432 Series. Doors

The 426 and 432 Series door systems are tough, attractive, thermally efficient and economical — which makes them the best-selling insulated sectional steel doors of the line. Fabricated of 24-gauge or nominal 24-gauge galvanized steel with handsome ribbed exteriors, these doors offer R-values up to 11.69 (2.06 W/Msq).

The 426 Series is available to fit openings up to 28'2" (8585 mm) wide by 24'1" high (7341 mm). The 430 Series fits openings up to 20'2" (6147 mm) wide, 432 Series are available to fit openings 16'1" (4902 mm) wide. A host of additional options — from glazing and paint finishes to bracket mounting and electric operation — give you design flexibility with added functionality for any number of industrial and commercial applications.

A Well-Built Door for Life.

Quality is built into the 426 and 432 Series doors, which ensures smooth operation for years to come. Outstanding panel strength, heavy-duty steel hinges and fixtures, and a 2" (51 mm) track enable the 426 and 432 Series to meet strict building codes and windloading requirements. These doors feature 24-gauge or nominal 24-gauge hot-dipped galvanized steel exteriors with 26-gauge back covers. The doors' rabbetted meeting rails further enhance door strength and thermal efficiency by bolstering structural rigidity along the full width of the door. This feature also forms weathertight seals that protect against air infiltration.

Insulated Steel Doors for Thermal Efficiency

The 426 and 432 Series are manufactured with expanded polystyrene (standard) or isocyanurate (optional) insulation. With R-values available up to 11.69 (2.06 W/Msq), and a galvanized steel back cover — these doors are ideal for applications where a higher level of thermal efficiency is required.

Customization Through a Variety of Options

A variety of options allow you to customize the 426/432 Series to most any application. For added light infiltration and increased visual access, the choice of full-sash section or individual-panel glazing is available. A baked-on, polyester paint finish in white or Industrial Brown simplifies installation and minimizes maintenance costs. The addition of exhaust ports lends functionality without loss of thermal efficiency. A variety of bottom strips further protects against the elements and accommodates sloping grades. Bracket mounting is an option on all but full vertical doors, and the choice of manual, chain hoist or electric motor facilitates door operation, particularly for larger doors.



That Stand Up to Demanding Environments — and the Elements.



High-Usage Package for Heavy-Usage Applications

The 426/432 Series is available with a special high-usage package to improve door performance and life in high-traffic applications. The package includes 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" (76 mm) track for increased durability. An integrated line of electric operators is also available. Designed specifically for high-usage doors, these heavy-duty electric operators help to minimize maintenance costs by promoting smooth and efficient operation throughout the life of the door.

PART 1 GENERAL**1.01 Work Included**

The doors will be 426 or 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 24-gauge galvanized, roll-formed steel exterior for the 426 Series or nominal 24-gauge galvanized, roll formed steel exterior for the 432 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. On 432 Series, back cover will be polybonded laminate. (Optional high-impact polystyrene on 426 Series and 432 Series. Optional 26-gauge galvanized steel back cover on 432 Series).

2.02 Insulation

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

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 an interior-mounted slide lock. (Optional 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 (optional Industrial Brown) polyester.

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

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