

Product Name

Sectional Steel Doors Series 920, 924
OmniClass # 23 30 10 17 37 14

Associated Specification Section

MasterFormat # 08360 – Sectional Overhead Doors

Manufacturer's Name

Northwest Door, LLC



2016-03-24

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PRODUCT DESCRIPTION

SECTION 08360 SECTIONAL OVERHEAD DOORS

MODEL 900 PRODUCT FEATURES

- DESCRIPTION
 - Sectional steel overhead doors, industrial grade heavy duty construction.
- BASIC USES / RELATED USES
 - Sectional overhead doors.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
 - Insulated or non-insulated.
 - Shiplap Weather Joint: Door section joints with foam seal
 - Operating Hardware and Track types: Vertical lift; high lift; standard lift; low clearance
 - Windows: optional; wide variety of glass types available. Full vision sections may be substituted for one or more sections; glazed with glass to 50 mm (1/2") overall thickness or expanded aluminum.
 - Lites:
 - Security Lite, Grommet Style: (23 X 4 1/2"), non-insulated doors only.
 - Security Lite: (17 1/8" X 4 1/4"), insulated doors only.
 - Aluminum full vision glazing.
 - Pass-through doors available in 3 or 4 sections (non-insulated doors in low-usage applications), 20 ga sections only.
 - Operation: Manual, reduced drive chain hoist or electric operator.
- SELECTION CRITERIA
 - Model 920: 50 mm (2") thick, 0.95 mm (20 ga) steel.
 - Model 924: 50 mm (2") thick, 0.63 mm (24 ga) steel.
 - Types: Standard Lift, High Lift, Vertical Lift, Low Head Room.
- SUSTAINABILITY CRITERIA
 - Manufactured in Puyallup, Washington, USA.
 - Steel, glass and Polystyrene materials can be recycled.
 - Uses CFC-free, HCFC-free EPS insulation.

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- **APPLICABLE STANDARDS, RELATED REFERENCES**
 - ANSI/DASMA 102-2011 Specifications for Sectional Doors.
 - ASTM A229/A229M -12 Standard Specifications for Steel Wire, quenched and Tempered for Mechanical Springs.
 - ASTM A653/A653M – 11 Standard Specification for Steel Sheet, Zink Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- **PERFORMANCE CRITERIA**
 - Maximum deflection of door in open (horizontal) position: 1/120th of the door width.
 - Wind Loads: Comply with ANSI/DASMA 102-2011
- **QUALITY STATEMENTS**
 - Northwest Door, LLC
 - Has been in business since 1946.
 - Member of International Door Association (IDA).
 - Member of Door and Access Systems Manufacturers Association (DASMA).
 - Installer Qualifications: Minimum five years of documented experience and approved by Northwest Door, LLC
- **PACKAGING, HANDLING AND STORAGE**
 - Door sections should be carried and handled in the upright position, on edge. Carrying flat can result in damage.
 - Store in manufacturer's unopened packaging until time of installation. Protect from moisture.
 - Store in dry weather-tight location.
- **WARRANTY**
 - One year from shipment date, against defects in material and/or workmanship.

PRODUCT PROPERTIES

- **MATERIALS**
 - Steel: Roll-formed, 50 mm (2") wide, Z120 (G40) hot-dipped galvanized to ASTM A653/A653M, painted.
 - Model 920: 50 mm (2") thick, 0.95 mm (20 ga) thick.
 - Model 924: 50 mm (2") thick, 0.63 mm (24 ga) thick.
 - Insulation: Doors are non-insulated. Insulation optional.
 - Polystyrene or polyurethane type.

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- Polystyrene, steel back cover: RSI-1.4 (R-8.1).
- Polyurethane, steel back cover: RSI-2.0 (R-11.5).
- Polystyrene, HIPS back cover: RSI-1.5 (R-8.5).
- Polyurethane, HIPS back cover: RSI-2.1 (R-11.9).
- Back covers over insulation:
 - Steel: 0.4 mm (28 ga), 0.56 mm (25 ga) or 0.95 mm (20 ga) thick.
 - High Impact Polystyrene sheeting (HIPS), white colour.

● **DIMENSIONS**

■ **Standard Widths:**

Widths	2490 mm 8'-2"	2795 mm 9'-2"	3098 mm 10'-2"	3708 mm 12'-2"	4318 mm 14'-2"	4928 mm 16'-2"	5537 mm 18'-2"	6146 mm 20'-2"	6756 mm 22'-2"	7366 mm 24'-2"
# Bays	2	2	3	3	4	4	5	5	6	6

- Optional: Widths available to 7366 mm (24'-2").
- Optional: Custom stile placement for custom bay widths.

■ **Standard Heights**

Heights	2464 mm 8'-1"	2769 mm 9'-1"	3073 mm 10'-1"	3683 mm 12'-1"	4293 mm 14'-1"	4902 mm 16'-1"
# Sections	4	5	5	6	7	8

- Optional: Heights in 76 mm (3") increments
 - Section Heights
 - 610 mm (24 inches).
 - 525 mm (21 inches).
- Glazing - Standard Sizes:
 - Non Insulated Security Lite: 476 x 140 mm (23" x 4-1/2").
 - Insulated Security lite: (17 1/8" x 4 1/4")
 - Aluminum full vision sections – clear anodized
- Glazing - Types:
 - Standard Glass: 3 mm (1/8") clear annealed, single pane.
 - Optional Glass Types:
 - 4 mm (5/32") Rain
 - 4 mm (5/32") Solar Cool Bronze
 - 6 mm (1/4") Barique Wire
 - 6 mm (1/4") Clear
 - 6 mm (1/4") Mirropane
 - 6 mm (1/4") Misco Wire
 - 6 mm (1/4") Plexiglass
 - 6 mm (1/4") Polycarbonate
 - 3 mm (1/8") Bronze

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- 3 mm (1/8") Clear
- 3 mm (1/8") Gluechip
- 3 mm (1/8") Gray
- 3 mm (1/8") Greylite #31
- 3 mm (1/8") Mistlite
- 3 mm (1/8") P516 Obscure
- 3 mm (1/8") Acrylic
- 3 mm (1/8") Polycarbonate
- 3 mm (1/8") Satin Etch
- 3 mm (1/8") Seedy
- 13 mm (1/2") Insulated Clear
- 5.5 mm (7/32") White Diffused Laminated

■ Other glass types available upon request.

○ Online samples: <http://www.northwestdoor.com/commercial/steel-doors/900-series/>

● **ACCESSORIES**

○ **Operator:**

■ Manual: Push up with pull rope, manual chain hoist, direct drive or reduced drive (not available on standard lift or low headroom hardware).

■ Electric: Professional grade LiftMaster® openers; jack shaft, hoist or trolley type as required for hardware type. Operators shall meet UL325

■ Optional: Special controls for available on request

■ A) Entrapment Protection:

■ 1) Pneumatic sensing edge

■ 2) Electric sensing edge

■ 3) Photo eyes

■ B) Operator Controls:

■ 1) Push button control station w/ open, close, stop buttons

■ 2) Key operated control station

■ 3) Push-button control station with push buttons

■ C) Special Operation:

■ 1) Pull Switch

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- 2) Card Reader Control
- 3) Timer to Close
- 4) Photo Cell operation
- - Weather-stripping: Vinyl, u-shaped loop type; retains sealing properties in sub-freezing and high heat.
 - Jamb and head: Flexible cold weather vinyl; in continuous contact at perimeter of door exterior when door is in closed position.
 - Bottom weather-seal: Compressible vinyl; in continuous contact with floor when door is closed.
 - Locks:
 - Standard: end stile mounted interior slide bolt.
 - Optional: rim cylinder and lock.
 - Master-keyed cylinders supplied by others.
- SHOP FABRICATION AND ASSEMBLY
 - Door sections are fabricated with roll-formed steel, 50 mm (2") thick.
 - Horizontal meeting rails are fabricated with shiplap joint, acting as integral strut and weather joint.
 - Section faces are deep ribbed for added strength.
 - Bottom sections have a full-width aluminum reinforcing angle fitted with compressible loop-type weather seal for continuous contact at sill.
 - End stiles: U-shaped steel, painted and completely enclose the end of the door and provide a flat, smooth surface for exterior weather seal.
 - Intermediate stiles: U-shaped steel, painted and are permanently attached at each end and at mid-point.
 - Stiles and rails are joined to door skin with self-piercing steel rivets.
 - Track:
 - Standard: Steel, 1.5 mm (16 ga) thick, 50 mm (2") wide, hemmed and bracket mounted.
 - Optional: Steel, 2.8 mm (12 ga) thick, 75 mm (3") wide, or as required by weight, high cycle or door size.
 - Vertical track: Graduated providing an adjustable wedge type closing action seal with bracket or continuous angle mounting for wood jambs and continuous reverse angle mounting for steel or concrete jambs.
 - Horizontal track: Reinforced with angle of adequate length and gauge to prevent deflection. Additional field bracing added as required to prevent deflection, and establish

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rigid installation.

- Hardware: Steel.
 - Bottom corner bracket (galvanized) assembly and its method of attachment to the door, designed to support a dead load equal to the weight of the door and door hardware.
 - Rollers: 6 mm (1/4 inch) ball bearing type, with hardened inner races, 50 mm (2 inch) or 75 mm (3 inch) to match track.
 - U-shaped, galvanized struts on doors over 4928 mm (16'-2") wide or as required by weight to keep door rigid.
 - Hinges:
 - Standard: Heavy duty, 2.0 mm (14 GA) commercial grade (galvanized), graduated.
 - Optional: Double end hinges and long stem rollers included on doors starting at 4928mm (16'-2") wide (insulated doors), 4953 mm (16'-3") wide (non-insulated doors) or as required by weight.
- Counterbalance Spring Assembly:
 - Springs: designed and constructed to provide for a safe and durable conversion of spring torque to lifting power for balancing the weight of the sectional overhead door.
 - Torsion type, low stress, helical wound, oil-tempered to ASTM A229 / A229M.
 - Standard cycle life is 10,000 cycles. (Optional 25,000-50,000-100,000 cycle springs available on request and recommended for high use applications).
 - Torsion tube: 25 mm (1") diameter steel tube or solid shaft.
 - Spring fittings and cable drums: Die cast, high strength aluminum.
 - Cable: Preformed galvanized steel aircraft cable, minimum safety factor of 5:1.
- FINISHES
 - Exterior Door Finish: Galvanized Steel, Pre-painted, bonderized phosphate treated, baked-on epoxy basecoat and polyester topcoat; color white, paintable.
 - Hardware Components: Galvanized, cadmium plated or zinc coated. Powder coat finish is optional.
 - Track: Standard galvanized. Powder coat finish is optional.

PRODUCT PLACEMENT

- PREPARATION
 - Ensure door opening is of correct size, square and plumb.
- INSTALLATION
 - Install overhead doors and track in accordance with approved shop drawings and manufacturer's

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printed instructions and as specified.

- Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance after installation.
 - Anchor door assembly to wall and building using anchors for the proper weight and size of door as well as area wind load requirements.
 - Securely brace door tracks suspended from structure. Vertical lift track that breaks away from wall more than 18" to be supported with angle to wall or structural members for support.
 - Adjust hardware and moving parts to function smoothly so that doors operate easily. Adjust doors and seals to provide weather-tight fit around entire perimeter.
- WASTE RECYCLING
 - Steel and glass materials can be recycled.
 - MAINTENANCE INSTRUCTIONS AND PROCEDURES
 - Online: <http://www.northwestdoor.com/>

Corporate Identification

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