

**Product Name**

Sectional Aluminum Doors Model 800  
OmniClass # 23-30 10 17 37 14

**Associated Specification Section**

MasterFormat # 08 36 14 - Sectional Overhead Doors

**Manufacturer's Name**

Northwest Door, Inc.



2013-05-09

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## PRODUCT DESCRIPTION

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### PRODUCT FEATURES

- DESCRIPTION
  - Sectional aluminum overhead doors, full height windows, industrial grade heavy duty construction.
- BASIC USES / RELATED USES
  - Sectional overhead doors, maximum visibility.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
  - Full height windows for maximum visibility.
  - Panel Types: Smooth, embossed or insulated panels.
  - Door Frame: Enclosed box style extruded aluminum alloy stiles and rails with optional insulation.
  - Tongue and Groove Weather Joint: Door section joints with gasket seal
  - 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.
  - Operators: Manual, chain hoist or electric.
  - Online Brochure:  
[http://www.northwestdoor.com/assets/brochures/commercial/800\\_Series\\_Industrial\\_Aluminum\\_Brochure.pdf](http://www.northwestdoor.com/assets/brochures/commercial/800_Series_Industrial_Aluminum_Brochure.pdf)
- SELECTION CRITERIA
  - Model 800: 50 mm (2") thick, 6063-T5 Extruded Aluminum Alloy Frame
  - Types: Standard Lift, High Lift, Vertical Lift, Low Head Room.
- SUSTAINABILITY CRITERIA
  - Manufactured in Puyallup, Washington, USA.
  - Aluminum, 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, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- **PERFORMANCE CRITERIA**
  - Maximum deflection of door in open (horizontal) position: 1/120<sup>th</sup> of the door width.
  - Wind Loads: Comply with ANSI/DASMA 102-2011
- **QUALITY STATEMENTS**
  - Northwest Door, Inc.
    - 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, Inc.
- **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.
- **LIMITATIONS**
  - Chain hoist or jackshaft type operators are not recommended on standard lift track applications.
  - Do not use as an emergency exit.
- **WARRANTY**
  - One year from shipment date, against defects in material and/or workmanship
- **AVAILABILITY**
  - Available in USA, Canada and select global markets.

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- Dealers: <http://www.northwestdoor.com/where-to-buy/find-a-dealer.php>
- COST
  - Consult manufacturer national or regional offices for specific product costs or relative costs.

## PRODUCT PROPERTIES

- MATERIALS
  - Aluminum:
    - Frame, Stiles and Rails: Commercial grade, 6063-T5 extruded aluminum alloy, box-type construction.
      - Insulation, Optional: 44mm (1-3/4")
    - Door Panels:
      - Aluminum 1.3 mm (0.05 inch) thick (smooth),
      - Aluminum 1.0 mm (0.04 inch) thick (stucco embossed),
      - Aluminum with 13 mm (1/2 inch) polystyrene insulation sandwiched between two 1.3 mm (0.05 inch) thick (smooth) panels.

- DIMENSIONS

- Standard Widths

<b>Widths</b>	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"
<b>Bays</b>	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.

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

- Optional: Heights available to 4902 mm (16'-1")
  - Section Heights
    - 525 mm to 610 mm (21" to 24")
  - Optional: Section heights

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- 254 mm to 813 mm (10" to 32")
  - Glazing:
    - Standard: 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
      - 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.
    - On line samples: <http://www.northwestdoor.com/commercial/aluminum-doors/800-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.
    - Optional: Special controls designed for each application; recommended for high usage applications greater than 6.0 x 4.3 m (20' x 14').

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- 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 constructed of 6063-T5 extruded aluminum stiles and rails
    - Completely enclose panels and glazing with rigid vinyl molding sealed by closed-cell foam tape on exterior side of glass.
    - Extruded stiles and rails. Joined with self-tapping screws. Mechanical fasteners that connect the stile and rails are visually undetectable.
    - Insulated Panels: Fabricate insulated panels of polystyrene insulation sandwiched between two aluminum panels.
  - 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 supplied as required to prevent deflection and establish 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.

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- 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 over 4928 mm (16'-2") wide 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
  - Standard: Mill finish
  - Optional:
    - Colors: White, Clear Anodized, Dark Bronze Anodized, Black Anodized.
    - Special powder coat colors available.
  - Hardware Components: Galvanized, cadmium plated or zinc coated. Powder coat finish is optional.
  - Track: Standard galvanized. Powder coat finish is optional.

## PRODUCT PLACEMENT

- PREPARATION
  - Insure 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.

- 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 305 mm (12") 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.
- Refer to installation procedures published online: <http://www.northwestdoor.com/where-to-buy/instructions.php>
- WASTE RECYCLING
  - Steel and glass materials can be recycled.
- MAINTENANCE INSTRUCTIONS AND PROCEDURES
  - Online: <http://www.northwestdoor.com/where-to-buy/instructions.php>.

**Corporate Identification**

Northwest Door, Inc.  
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Information Requests: <http://www.northwestdoor.com/where-to-buy/information-request.php>

**Classification and Filing**

MasterFormat:  
08 36 13 – Sectional Overhead Doors

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UniFormat:

B2050 – Exterior Oversize Doors

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