

**Product Name**

Sectional Insulated Doors Therma Series 650, 308, 308TM  
OmniClass # 23-30 10 17 37 14

**Associated Specification Section**

MasterFormat # 08 36 13 – Sectional Overhead Doors

**Manufacturer's Name**

Northwest Door, Inc.



2013-08-28

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## **PRODUCT DESCRIPTION**

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### **PRODUCT FEATURES**

- **DESCRIPTION**
  - Sectional insulated steel overhead doors, industrial grade heavy duty construction.
- **BASIC USES / RELATED USES**
  - Sectional overhead doors.
- **PRODUCT ATTRIBUTES AND CHARACTERISTICS**
  - All models: Insulated thermal break, joint seal, and sandwich construction.
  - 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:
    - Vision Lites: 844 x 362 mm (33-1/4" x 14-1/4").
    - Standard Lite: 438 x 286 mm (17-1/4" x 11-1/4").
    - Security Lite: 476 x 140 mm (18-3/4" x 5-1/2").
    - Aluminum full vision glazing available on Model 308/308TM.
  - Operation: Manual, chain hoist or electric.
  - Online Brochure:  
[http://www.northwestdoor.com/assets/brochures/commercial/Therma\\_Series\\_Commercial\\_Brochure.pdf](http://www.northwestdoor.com/assets/brochures/commercial/Therma_Series_Commercial_Brochure.pdf)
- **SELECTION CRITERIA**
  - Model 650: 75 mm (3") thick, high density EPS insulation (R-16).
  - Model 308TM: 50 mm (2") thick, high density EPS insulation, (R-12).
  - Model 308: 50 mm (2") thick EPS insulation, (R-10.4).
  - Types: Standard Lift, High Lift, Vertical Lift, Low Head Room.
- **SUSTAINABILITY CRITERIA**
  - Manufactured in Puyallup, Washington, USA.

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- Steel, glass and Polystyrene materials can be recycled.
- Uses CFC-free, HCFC-free EPS insulation.
- **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.

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- AVAILABILITY

- Available in USA and Canada, and select global markets through dealers.
- 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

- Steel: Roll-formed, Z120 (G40) hot-dipped galvanized to ASTM A653/A653M, painted.
- Insulation: CFC free, expanded polystyrene (EPS).
  - Model 650: High density EPS, 75 mm (3") thick, RSI-2.8 (R-16).
  - Model 308TM: High density EPS, 50 mm (2") thick, RSI-2.1 (R-12).
  - Model 308: EPS, 50 mm (2") thick, RSI-1.8 (R-10.4).
- 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

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- ☐ 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/>.

- **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").

- **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:
    - Vision Lites: 844 x 362 mm (33-1/4" x 14-1/4").
    - Standard Lite: 438 x 286 mm (17-1/4" x 11-1/4").
    - Security Lite: 476 x 140 mm (18-3/4" x 5-1/2").
    - Aluminum full vision glazing available on Model 308/308TM.

- **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: Steel, 0.4 mm (28 ga) thick, embossed.
    - Sandwich construction with steel, insulation, steel layers, roll-formed to a full thickness.
    - Tongue and groove, thermally broken, weather sealed joints.
    - Sections: Continuous 0.9 mm (20 ga) backer plate runs vertically the full width of the section at all hinge locations.
    - Bottom section: Full width aluminum reinforcing angle/retainer fitted with compressible loop-type weather seal designed for continuous contact at seal.
  - 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 as required preventing deflection, and establishing 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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## PRODUCT DESCRIPTION

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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. Double end hinges and long stem rollers included on doors starting at 4877 mm (16'-0") wide 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 primer; color white, ready for finish paint.
  - 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 printed instructions and as specified.
  - Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance after installation.

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- 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 305mm (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

OmniClass:  
23-30 10 17 37 14 – Sectional Overhead Doors

UniFormat:  
B2050 – Exterior Oversize Doors

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