THERMOMARK™ 5155/5255

SECTIONAL DOOR SYSTEMS

WAYNE DALTON COMMERCIAL DOOR SYSTEMS

INSULATED FLUSH DOORS THAT PROVIDE EXCELLENT VALUE

ThermoMark™ Insulated Doors combine strength, insulation, and aesthetic appeal for commercial projects requiring all three of these features.

Wayne Dalton ThermoMark insulated doors help minimize energy costs and provide year-round comfort to the building's occupants. Hot-dipped galvanized steel and rugged construction will give years of solid performance for the most demanding conditions.

- EXCELLENT THERMAL QUALITIES
  5155: R-VALUE = 10.96
  U-VALUE = .091
  5255: R-VALUE = 14.80
  U-VALUE = .07
- STANDARD SIZES UP TO 26'2" WIDE AND 25'1" HIGH
- RUGGED AND DURABLE

Beaton Industrial, Inc. | 800-724-4052 | Support@BeatonIndustrial.com

THERMOMARK™ 5155/5255

ThermoMark Insulated Flush Doors are designed to deliver rugged durability combined with energy efficiency. These insulated flush doors, featuring CFC free polyurethane foam insulation, are available with two different R-values. The ThermoMark 5255 is rated with an R-value of 14.80, while the ThermoMark 5155 features an R-value of 10.96.

These doors are available in white, almond, taupe or brown and feature shallow pinstriping on a stucco embossed exterior.

Materials & Construction

The ThermoMark 5255 and 5155 both feature hot-dipped galvanized steel construction that is pre-painted prior to manufacturing with a two-coat system of polyester paint with a finished coat (includes primer). The inside and outside skins are roll-formed and separated with a thermal break to eliminate thermal conductance. Hinge locations have 20-gauge continuous back up plates for fastening. The bottom astragal is a two-piece "bulb" type astragal to be attached to the interior skin. Section ends have end caps of 18 gauge hot-dipped galvanized steel, and a between-section joint seal is standard.

Contact Wayne Dalton for additional sizes and colors.

CFC free polyurethane foam with an R-value of 10.96.

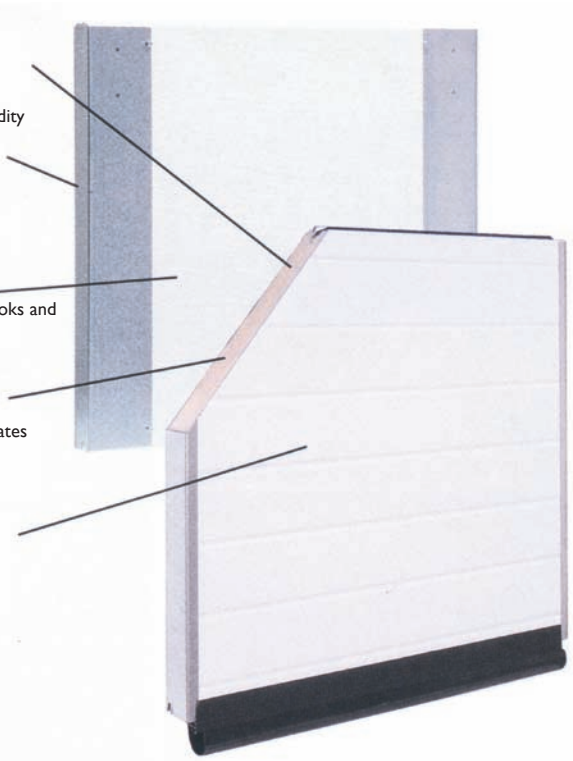
Hot-dipped, galvanized steel wrap-around end caps add strength, rigidity and long life.

Stucco steel back panels for good looks and easy cleaning.

Sound absorbing insulation makes door quieter in operation; eliminates wind rattling.

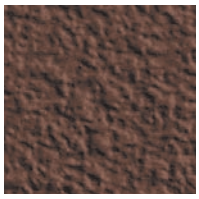
Two-coat, baked-on polyester finish makes surface virtually maintenance free.

Bulb-shaped bottom seal remains flexible even in extreme cold to help keep the bad weather outside.



Color Options

White Embossed Stucco Finish



Brown Embossed Stucco Finish

Almond Embossed Stucco Finish

Taupe Embossed Stucco Finish

Operation Options

- Chain Hoist Operation
- Motor Operation

Performance Options

- High Cycle Spring (25K, 50K, 100K)
- 3" Track Option
- Solid Shafts
- Perimeter Weatherseal
- Windload

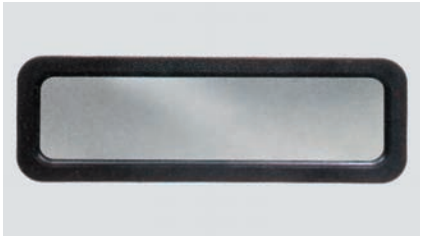
Safety Options

- Broken Cable Devices
- Safety Edges
- Safety Photo Eyes

Special Application Options

- Special Track Designs
- Pass Doors
- Mullions

Window Options



For flush doors, Thermolite double insulated SSB set in a 2-piece high impact polymer frame. Optional DSB ¼" acrylic also available.

STANDARD SIZES UP TO:
26' 0" WIDE & 20' 0" HIGH
CALL FOR ADDITIONAL SIZES

ENERGY EFFICIENCY VALUES:
5155: U = .091 R = 10.96
5255: U = .07 R = 14.80

WINDLOAD OPTIONS AVAILABLE:
Wayne Dalton Certified windSAFE

MEET OR EXCEED
ANSI/DASMA 102-2003
IN ACCORDANCE WITH
ASTM E-330-70.

BEST APPLICATIONS:
Where thermal performance and rugged durability are key.

U.S. Patent Nos. 4238544 and 4339487

General Operating Clearances

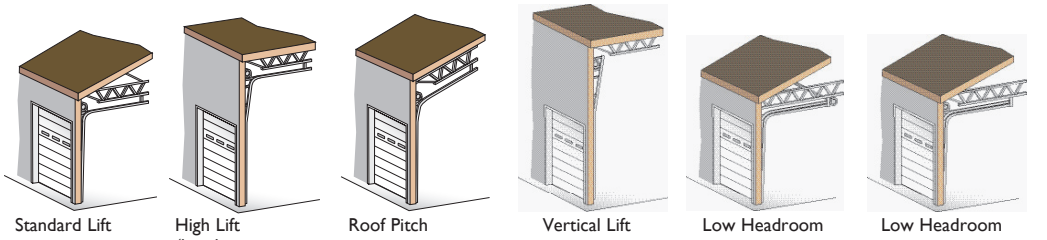
Type	Headroom		Sideroom		Depth Into Room	Center Line of Springs	
	2" track	3" track	2" track	3" track	2" & 3" track	2" track	3" track
Standard Lift Manual 12"R	13-17"	NA	4½"	5½"	Opening Height +18"	Opening Height +12"	NA
Standard Lift Manual 15"R	15-20"	16-21"				Opening Height +13"	Opening Height +14"
Standard Lift Motor Oper. 12"R	15-20"	NA			Opening Height +66"	Opening Height +12"	NA
Standard Lift Motor Oper. 15"R	15-20"	18-24"				Opening Height +13"	Opening Height +14"
High Lift Manual	Door Height +12"				Opening Height – Lift +30"	Opening Height +Lift +6½"	Opening Height +Lift +7½"
High Lift Motor Oper.			24" One Side				
Vertical Lift Manual 12"R	Door Height +20"		4½"	5½"	Opening Height +18"	Double Door Height +13"	
Vertical Lift Motor Oper. 12"R			24" One Side				
Low Headroom Manual	6-15"	6-15"	6"	9"	Opening Height +20" - 26"	Does Not Apply	
Low Headroom Motor Oper.	9-17"	9-17"			Opening Height +66"		

Panel/Section Selection Guide

Door Section and Lite Selection			Door Height and Section Selection	
Door Width	No. Panels	Max. No. Windows	Door Height	No. Sections
8'2" to 9'2"	2	2	Up thru 8'1"	4
9'3" to 12'2"	3	3	8'2" thru 10'1"	5
12'3" to 16'2"	4	4	10'2" thru 12'1"	6
16'3" to 19'2"	5	5	12'2" thru 14'1"	7
19'3" to 24'2"	6	6	14'2" thru 16'1"	8
24'3" to 26'2"	7	7	16'2" thru 20'1"	9
			18'2" thru 20'1"	10

NOTES:
1. For low headroom, springs must be rear mount to achieve minimum headroom listed. For mount torsion headroom depends on drum size, and varies over the range listed. See approval drawing.
2. Side-room of 8" required, one side, for doors with chain hoist.
3. Headroom depends on drum size, and varies over the range listed. See approval drawing.

Track Selection Guide



Standard Lift

High Lift (break-away is standard, straight incline is available)

Roof Pitch (standard or high lift)

Vertical Lift

Low Headroom (rear mount torsion)

Low Headroom (front mount torsion)

THERMOMARK™ 5155/5255

Note to specifiers: Words in brackets indicate frequently specified and highly recommended options.

PART I – GENERAL

1.01 Section Includes

A. Sectional overhead doors [manually] [motor]operated with accessories and components.

1.02 Related Work

A. Opening preparation, miscellaneous or structural steel work, access panels finish or field painting are in the scope of work of other trades and divisions of these specifications.

1.03 Reference Standards

A. ANSI/DASMA 102 – American National Standards Institute [A216.1] Specifications for sectional overhead doors published by Door & Access Systems Manufacturers Association International in bulletin Standard 102-2004.

B. ASTM A123 – Zinc [hot-dipped galvanized] coatings on iron and steel products.

C. ASTM A216 – Specifications for sectional overhead type doors.

D. ASTM A229 – Steel wire, oil-tempered for mechanical springs.

E. ASTM A-653-94 – Steel sheet, zinc-coated [galvanized] by the hot-dipped process, commercial quality.

F. ASTM D1929 – Ignition temperature test to determine flash and ignition temperature of foamed plastics.

G. ASTM E84-91A – Tunnel test for flame spread and smoke developed index.

H. ASTM E330 – Structural performance of exterior windows, curtain walls, and doors by uniform static air pressure difference.

I. ASTM E413-87 – Sound transmission class. Acoustical performance value = 20
ASTM E1332-90 – Outdoor-indoor transmission class. Acoustical performance value = 20.

K. ASTM E283-91 – (Air infiltration = .07 CFM/FT^2, 15 MPH., 5200)(.23 CFM/FT^2, 15 MPH., 5150)

1.04 Quality Assurance

A. Sectional overhead doors and all accessories and components required for complete and secure installations shall be manufactured as a system from one manufacturer.

B. Sectional overhead doors shall be tested and labeled certifying compliance with ASTM D1929 and ASTM E84-91A standards.

1.05 Systems Description

A. Sectional Overhead Door:Type: Thermomark 5150/5200

B. Mounting: Continuous angle mounting for [steel] [wood] jambs [bracket mounting for wood jambs]

C. Operation: [manual push-up] [chain hoist] [motor] [motor with chain hoist]

D. Material: Galvanized steel with polyester finish paint

E. Insulation: Polyurethane

1.06 Submittals

A. Shop Drawings: Clearly indicate the following:
1. Design and installation details to withstand standard windload.
2. All details required for complete operation and installation.
3. Hardware locations.
4. Type of metal and finish for door sections.
5. Finish for miscellaneous components and accessories.

B. Product Data: Indicating manufacturer's product data, and installation instructions.

1.07 Delivery, Handling, Storage

A. Deliver products in manufacturer's original containers, dry, undamaged, seals and labels intact.

B. Store and protect products in accordance with manufacturer's recommendations.

1.08 Warranty

A. Provide manufacturer's standard SEVEN YEAR warranty against separation/degradation of the polyurethane foam from the steel skin of the panel. Standard manufacturer's TEN YEAR warranty against cracking, splitting or deterioration due to rust-through. TEN YEARS on insulation value.

PART II – PRODUCTS

2.01 Manufacturer

A. Wayne-Dalton or approved equal Thermospan 5150/5200 insulated sectional overhead doors of steel construction complete as specified in this section and as manufactured by Wayne-Dalton., Mt. Hope, Ohio.

2.02 Materials

A. Door Sections: Shall be of steel/polyurethane/steel sandwich type construction with thermal break and calculated materials "R"- value of [10.96 on 5155] [14.80 on 5255], in accordance with industry guidelines.
1. Exterior Skin: Structural quality, hot-dipped galvanized steel, .022" minimum embossing, factory finished with baked-on polyester primer and [white] [brown] [almond] [taupe] polyester finish coats with[non-repeating wood grain texture].
2. Interior Skin: Structural quality, hot-dipped, galvanized steel, factory finished with a polyester primer and white finish coat.
3. Ends of section shall be sealed with 18 or 16 gauge hot-dipped galvanized steel full-height end caps. 16 gauge end caps are only available with double end caps
4. Insulation: Cavity shall be filled with foamed-in-place CFC free polyurethane core. Sections include an integral thermal break.
5. Insulated sections shall be tested by an I.C.B.O. certified laboratory in accordance with ASTM E-84-91A and shall achieve a Flamespread Index of 75 or less, and a Smoke Developed Index of 450 or less.
6. Insulation material shall be tested by an I.C.B.O. certified laboratory in accordance with ASTM D-1929 and shall achieve a minimum Flash Ignition temperature of 600 degrees F, and a minimum Self Ignition temperature of 800 degrees F.
7. Insulated sections shall be tested and meet all requirements of the UBC 17-5 corner burn.

B. Track: Track design shall be [standard lift] [high lift] [vertical lift] [low headroom]. Vertical mounting angles shall be hot-dipped galvanized. Track size shall be [2"] [3"].Vertical track shall be graduated to provide wedge type weathertight closing with continuous angle mounting for [steel] [wood] jambs, and shall be fully adjustable to seal door at jambs [bracket mounting for wood jambs]. Horizontal track shall be reinforced with continuous angle of adequate length and gauge to minimize deflection.

Note: Horizontal track applies to standard lift, high lift, low headroom and follow-the-roof designs only.

C. Hardware: Hinge and Roller Assembly:
1. Hinges and brackets shall be made from hot-dipped, galvanized steel.
2. Track rollers shall be case-hardened inner steel races with 10-ball [2"] [3"] rollers.
3. All factory authorized attachments shall be made at locations indicated and reinforced with backup plates.

D. Counterbalance:
1. Springs shall be torsion type, low-stress, helical wound, oil-tempered spring wire to provide minimum [10,000 standard] [25,000] [50,000] [100,000] cycles of use, on continuous steel [solid].
2. Spring fittings and drums made of die cast, high strength aluminum.
3. Pre-formed galvanized steel aircraft cable shall provide a minimum of a 5:1 safety factor.

2.03 Operation

A. Operation shall be [manual push-up] [chain hoist] [motor] [motor with chain hoist].

Note: Manufacturer does not recommend chain hoist or jackshaft operation with the following track systems:
- 12" or 15" radius standard lift with roof pitch < 2:12
- 32" radius standard lift with no roof pitch, unless vertical track is extended 5"
- Low headroom track
- High lift < 24" with no roof pitch

Special chain hoist assemblies (using a trolley rail) are available for the above track systems

2.04 Locks

A. Locks shall engage the right-hand vertical track and utilize [an interior side lock] [standard size rim cylinder].

2.05 Weatherstripping

A. Doors shall be equipped with field installed, top seal [5200, optional on 5150] to seal against header, co-polymer joint seals between sections and vinyl "bulb" shaped astragal provided on the bottom section. Optional jamb seals are available.

2.06 Glazing

A. Optional.

2.07 Windload

A. Windload – per DASMA 102-2003 and as required by local codes.

PART III – EXECUTION

3.01 Installation

A. General:
1. Install doors in accordance with manufacturer's instructions and standards. Installation shall be by an authorized Wayne-Dalton representative.
2. Verify that existing conditions are ready to receive sectional overhead door work.
3. Beginning of sectional overhead door work means acceptance of existing conditions.

B. Install door complete with necessary hardware, jamb and head mold strips, anchors, inserts, hangers, and equipment supports in accordance with final shop drawings, manufacturer's instructions, and as specified herein.

C. Fit, align and adjust sectional overhead door assemblies level and plumb for smooth operation.

D. Upon completion of final installation, lubricate, test and adjust doors to operate easily, free from warp, twist or distortion and fitting for entire perimeter.

Note: Architect may consider providing a schedule when more than one sectional overhead door or opening type is required.

3.02 Materials (See note above.)

Specifications and technical information also available at www.arcat.com, SpecWizard™, and Sweets.com®.

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