

COILING THERMAL DOOR—MODEL T45PS

08330/ATL
Buyline 0371

SPECIFICATIONS

PART 1 GENERAL

1.01 Section Includes

A. Type: Insulated Coiling Service Doors are to be Atlas Door™ Model T45PS as manufactured by Clopay Building Products Company, Inc.

B. Operation: To be motor operated using high starting torque motor, reduction gearing, solenoid brake, limit switches for upper and lower limits of door travel, emergency hand chain with electrical interlock to break motor circuit when hand chain is engaged, magnetic relay contactor, overload protection, pre-wiring to terminal block, and 3-button operating station. Motor is to be removable for repair without affecting emergency operation or limit switches. Manufacturer is to furnish wiring diagram.

NOTE: For additional motor operator components and controls refer to the coiling motor operators tab.

C. Mounting: To be exterior face mounted on a prepared opening. Motor cover for exterior mounting to be provided.

1.02 Related Work

A. Opening preparation, miscellaneous or structural steel, access panels, finish or field painting, electrical wires, wiring, disconnect switches, conduit are in the scope of the work of other sections or trades.

B. Submit manufacturer's product data and installation instructions for each type of coiling door. Include both published data and any specific data prepared for this project.

1.03 Single-Source Responsibility

A. Provide doors, guides, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

PART 2 PRODUCT

2.01 Curtain

A. Slats: Assembled of interlocking galvanized steel slats front and back cold roll-formed. Slats to be Type T3, no less than 2 1/2" (63.5 mm) high.

B. Insulation: Polyurethane foam-injected and to fill all voids providing continuous insulation protection the full height of the slat. Insulation is to be self-bonding to the two interior galvanized steel surfaces. U-Value = 0.16 (0.91 W/m² °K). R-Value = 6.25.

C. Endlocks: Each end of alternate slats to be fitted with endlocks to act as a wearing surface in the guides and to maintain slat alignment.

D. Windload: Door construction designed to satisfy windload of 20 PSF (0.96 kPa) or 87 M.P.H. (140 KPH).

E. Gauge: Thickness of slat material to be as required by width of opening and windloading conditions.

F. Galvanizing: Zinc-coated in accordance with ASTM A653.

G. Bottom Bar: Curtain to be reinforced with a bottom bar consisting of two steel angles.

H. Weather Seal: Provide interwoven neoprene astragal at the bottom bar to act as a weather seal at the floor.

2.02 Spring Counterbalance

A. Counterbalance: Housed in a steel pipe of diameter and wall thickness to restrict maximum deflection to .03" per foot (2.5 mm/m) of door width.

B. Springs: To be helical torsion type designed to include an overload factor of 25% and for optimum ease of operation. Springs are to be grease-packed and are to be mounted on a cold rolled steel inner shaft.

C. Emergency Hand Chain: Pull not to exceed 35 lbs. (156 N).

D. Spring Tension: Adjustable from outside of end bracket plate.

E. Ball Bearing: Sealed, to minimize wear of pipe shaft rotation around inner shaft.

2.03 Bracket Plates

A. Bracket Plates: Carrying pipe counterbalancing shaft are to be no less than 1/4" (6.35 mm) thickness and to house ends of door coil. Shape of plates to be square.

B. Drive End Bracket Plate: Fitted with a sealed ball bearing.

2.04 Guide and Wall Angle Assembly

A. Guides/Wall Angles: Structural steel angles of 1/2" (4.76 mm) minimum thickness.

B. Depth of Guide: To provide adequate slat penetration to satisfy specified windloading.

C. Guide Weather Seal: Furnish guide weatherstripping to seal against T3 slat.

2.05 Hoops

A. Hoops: To house coil are to be fabricated of #24 U.S. Gauge galvanized steel.

B. Reinforcing: To be laterally reinforced to prevent sag.

C. Intermediate Hoop Supports: Furnish where door width exceeds 16'-0" (4877 mm).

D. Hood Baffle: Furnish neoprene hood baffle in hood to prevent air infiltration.

E. Top Bead of Hood: To be suitable for fastening to header and to receive caulking for weather protection.

F. Motor Cover: To house wall mounted motor operator; to be fabricated of #24 U.S. Gauge galvanized steel.

2.06 Locking

A. Integral Gearing: Of motor operator to provide locking for door.

2.07 Finish

A. Galvanized Surfaces: Slats and hood (etc.) galvanized. Baked-on gray or tan coat of epoxy-modified polyester on slats and hood. Shop coat of rust-inhibiting metallic primer on all remaining ungalvanized surfaces, except bearings.

B. Ungalvanized Surfaces: Shall consist of a shop coat of rust-inhibiting metallic primer (gray) (brown) on exposed ferrous surfaces, except bearings.

PART 3 EXECUTION

3.01 Examination

A. Verify that dimensions are correct and project conditions are suitable for installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 Installation

A. Installation: To be by Atlas Door authorized representative and in accordance with Atlas Door standards and instructions.

B. Submit manufacturer's product data and installation instructions for each type of coiling door. Include both published data and any specific data prepared for this project. See end of section for details.

Note to Specifiers... Please see end of this section for frequently specified Optional Features.

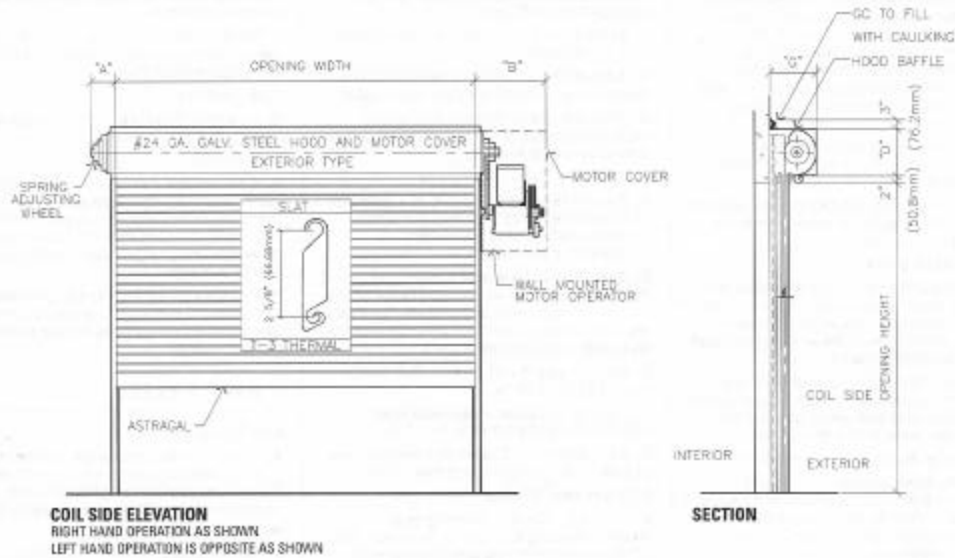
Opening Height	Without Windlocks				With Windlocks				Opening Width	Without Windlocks		With Windlocks	
	"0"	"6"	"8"	"9"	"0"	"6"	"8"	"9"		"A"	"B"	"A"	"B"
to 9'-1" (2769 mm)	17"	17 1/2"	3"	3 1/2"	18"	18 1/2"	3 1/2"	5 1/2"	to 12'-6" (3781 mm)	8 1/2"	22 1/2"	9"	23"
9'-1 1/2" to 11'-1" (2772 mm) (3378 mm)	(432 mm)	(445 mm)	(76.2 mm)	(65.3 mm)	(457 mm)	(470 mm)	(96.4 mm)	(130.2 mm)	(275.9 mm)	(571.5 mm)	(228.6 mm)	(584.2 mm)	(584.2 mm)
11'-1 1/2" to 13'-1" (3381 mm) (3986 mm)	(457 mm)	(470 mm)	(76.2 mm)	(65.3 mm)	(483 mm)	(496 mm)	(96.4 mm)	(130.2 mm)	12'-6" to 18'-4 1/2" (3785 mm) (5623 mm)	9"	23"	9"	23"
13'-1 1/2" to 15'-1" (3991 mm) (4597 mm)	(482 mm)	(495 mm)	(76.2 mm)	(65.3 mm)	(508 mm)	(521 mm)	(96.4 mm)	(130.2 mm)	(238.6 mm)	(584.2 mm)	(238.6 mm)	(584.2 mm)	(584.2 mm)
15'-1 1/2" to 17'-1" (4601 mm) (5207 mm)	(507 mm)	(520 mm)	(76.2 mm)	(65.3 mm)	(533 mm)	(546 mm)	(96.4 mm)	(130.2 mm)	18'-5" to 24'-4 1/2" (5633 mm) (7429 mm)	Not Applicable	9 1/2"	23 1/2"	24 1/2"
17'-1 1/2" to 20'-1" (5211 mm) (6121 mm)	(532 mm)	(545 mm)	(76.2 mm)	(65.3 mm)	(558 mm)	(571 mm)	(96.4 mm)	(130.2 mm)	over 24'-4 1/2" (7439 mm)	Not Applicable	Consult Technical Services	Consult Technical Services	Consult Technical Services
over 20'-1" (6121 mm)	(557 mm)	(570 mm)	(76.2 mm)	(65.3 mm)	(583 mm)	(596 mm)	(96.4 mm)	(130.2 mm)					

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- Motor operated, exterior wall mounted
- Exterior face mounted
- Fully weatherstripped
- R-Value = 6.25
- U-Value = 0.16
- (U = 0.91 W/m² °K)

- *Suffix letters indicate material and/or finish of curtain.
For alternate material or finish of curtain see Optional Features.
- GS Galvanized, without baked-on finish coat
 - PS Galvanized with baked-on finish coat
 - MA Mill finish aluminum
 - AA Clear anodized aluminum
 - DA Bronze aluminum
 - ST Stainless steel

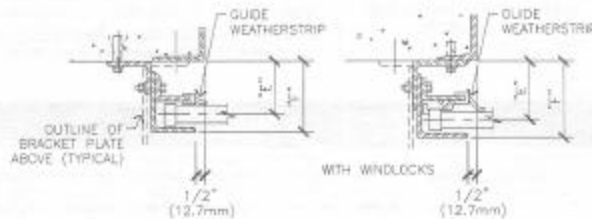


3" (76.2 mm) is dimension of top hood bead. Where headroom is limited, 3" (76.2 mm) requirement can be eliminated by turning bead down.

Windlocks are standard on doors over 22'-4 1/4" (6829 mm) wide and optional for doors under 22'-4 1/4" (6829 mm) wide.

Where clearances are critical, dimensions shown can be reduced. Consult Technical Services.

GUIDE DETAILS



atlas door™