

Product Data Sheet

Speed-Master® 1600 L Eco



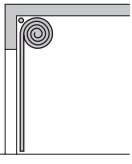
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Features



The Speed-Master® 1600 L Eco High speed door provides a fast opening, economical design.

- Smart Start™ NXT, NEMA 4X programmable control box for single phase power.
- Speed: Up to 60"/sec. open, 30"/sec. close.
- Patented, sectional design, able to self-realign displaced panels into guide tracks.
- Self-supporting hot-dipped galvanized steel guide tracks.
- Integral non-contact light grid protection feature.
- Emergency operation via chain hoist.
- Anti-Static, 2-ply reinforced puncture resistant 'Commander' fabric panels.
- Available Clear PVC window panels.
- Panel Colors: Yellow, Orange, Red, Blue, or Gray.
- Panels joined with continuous, heavy-duty aluminum hinges, available with optional Windlocks for greater wind pressures.
- 5, 2, & 7 year warranty protection plan. 5 yrs. motor/gearbox and panels. 2 yrs. other mech./elec., 7 yrs. vision slats.

Technical Data		Remark	
Speed-Master® 1600 L Eco Fabric, high speed overhead rapid coiling door.			
Application	Exterior or Interior		Hood required for exterior mounted doors
Speed	Opening	Closing	Variable speed based on opening height
	Up to 60"/sec.	Up to 30"/sec.	
Control Box	Smart Start™ NXT (11 5/8"W x 15 3/4"H x 8 1/2"D)		Standard, NEMA 3 rated, Single Phase Only
Roll-up Technology	Hollow-core steel roll tube with precision-welded axles		Standard
 Overhead Coiling	Size Range	Min. 4'-0" up-to 12'-0" wide Min. 4'-0" up-to 12'-0" high	Standard
	Guide Track Profile	7 1/4" x 4 1/2"	(W x D)
	Roll Tube Diameter	6 1/2"	Hollow core
	Solid Panel(s) Height	Approx. 2'-10" average	Varied configuration
	Vision Panel(s) Height	Approx. 2'-10" average	Varied configuration
	Required Headroom	21 1/4" min.	--
Drive Mechanism	Direct-drive operator with chain lift mechanism		--
Counterbalance System	Belt mechanism and springs		--
Braking	Control box activated 24V DC brake		--
Cycleability / Maintenance	High / inspect per ea. 50,000 cycles or 6 mo. Individual curtain panels replaceable		Consult factory for details
Safety Features	Built-in light grid, chain hoist open/close		Standard
Resistance to Wind Load	DW ≤ 14'-0", 9.2 psf; 60 mph max. Windlocks recommended for heavy pressure apps.		DW = Door Width Per standard EN 12424, DASMA 108 Exposure B
Fire Resistance Rating	Non-rated, Non-conforming exit		Per 2012 IBC Section 1008
Warranty	5, 2, & 7 years. Motor/gearbox and Panels (5), all other mech./elec. (2), vision slats (7)		Standard
Materials and Finishes			
Guide Tracks & Covers	12-ga. HDG steel tracks, 16-ga. HDG steel covers		Zinc, Class G90 (0.9 oz. per SF)
Door Header Assembly, Roll Tube	12-ga. Hot-dipped galvanized steel		Zinc, Class G90 (Panel Wheel Guides, Aluminum)
Weather Seals	Twin vinyl brush, jambs and lintel		--
Panel Hinges	30-ga. Clear Anodized Extruded Aluminum Profiles		--
Solid Door Panels	Abrasion resistant, 2-ply polyseter reinforced "Commander" PVC sheet, 2.8mm Thick, 58 oz./yd ²		Color Availability: Yellow, Orange, Red, Blue, or Gray

Product Data Sheet (Continued)

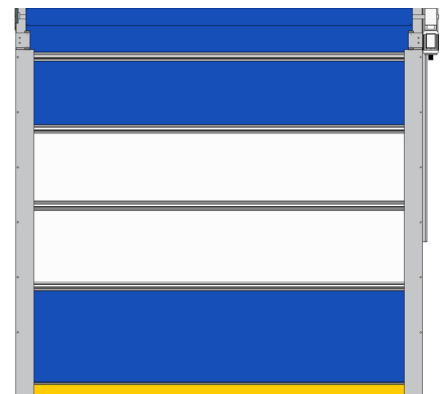


Speed-Master® 1600 L Eco

Materials and Finishes (Continued)		Remark
Vision Door Panels	Abrasion resistant, transparent PVC sheet, 2.8mm Thick, 45 oz./yd ²	Color Availability: Clear
Ventilation Door Panels (Screen)	Abrasion resistant, vinyl coated 1000 density polyester core yarn in warp and fill. 0.6mm Thick, 10.4 oz./yd ²	Ventilation panel frame, extruded anod. aluminum Fabric Openness 46.9%
Electric Door Operator	Cast aluminum	--
Control Panel	Baked-on polyester powder coat painted. Color RAL 7035 Light Gray	Standard, (Single Phase)
Hood and Motor Cover	16-ga. Hot-dipped galvanized steel	Zinc, Class G90 (0.9 oz. per SF)
Energy Analysis		
Visible Transmittance (Tvis)	0.83%	Per calc ANSI/NFRC 200-2014 (Clear Vision Panels)
Solar Heat Gain Coefficient (SHGC)	0.81%	Per calc ANSI/NFRC 200-2014 (Clear Vision Panels)
Thermal Resistance (R-value)	R 1.73	Per test EN 717-1, DASMA TDS-163 (Without Visions)
Heat Transfer Coefficient (U-value)	U 0.73	Per test EN 12667: 199997-11, DASMA TDS-105
Acoustic Insulation	STC 24, R _w 21 dB	Per test EN 717-2, ASTM E90 (Without Visions)
LEED Credit	MRC2, MRC4, EQc5	USGBC® LEED v4
Electrical		
Electric Door Operator (Motor)	2.0 HP GfA Elektromaten F18	NEMA Type 3 / IP54
Operating Voltage	1 PH, 132v or 230v	--
Control Box	1.5 KW variable frequency drive rated for operating voltage	NEMA Type 3 / IP54, Non-UL Listed
Standard Power Requirement	230vAC - 600vAC, 1 PH, 60 Hz	--
Full Load Amps	13.3 A	Operator
Disconnect	Fuse: 20 Amp, Class K	Supplied by Others

The Speed-Master® high speed, high cycle line of doors are widely installed in market applications ranging from automotive retail, breweries, transit & airports, parking and general industry. The standard 8'-0" high light grid is built into the guide tracks and provides a wall of protection for personnel and equipment at the doorway, as compared to other doors that use photocells. The heavy duty 12-gauge hot-dip galvanized steel guide tracks open for ease in re-setting the door when required. Low-profile track dimensions of 7-1/4" wide x 4-1/2" projection enable the 1600 L Eco to fit into most areas.

Our Smart Start™ NXT Control Panel is designed NEMA 4X compliant. Updates include simplified wiring configuration, more powerful processing with fewer circuitry components as compared to HFCB control boxes. Plug-n-Play wiring improves accuracy and timeliness of installation on site.



Speed-Master® High speed fabric doors provide excellent reliability and fast opening speeds.



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