

Product Data Sheet

SM 4600 L

Flexible High-Speed Overhead Coiling Door Suited for XL Openings



The Speed-Master® High speed line of doors provide advanced controls and fast opening speeds.

- Smart Start™ NXT, NEMA 4X programmable control box.
- Speed: Up to 24 in./sec. open, 24 in./sec. close.
- Patented, sectional design, able to self-realign displaced panels into guide tracks.
- Hot-dipped galvanized steel guide tracks.
- Integral non-contact light grid entrapment protection.
- Emergency operation via chain hoist.
- Ultra tough, 2-ply reinforced puncture resistant 'Bulldog XT' fabric panels.
- Available Clear PVC window panels.
- Panel Colors: Orange, Blue, Black, Gray.
- Panels joined with continuous, heavy-duty aluminum hinges with Windlock panel retention for greater wind pressures.
- 5 & 2 year warranty protection plan. 5 yrs. motor/gearbox and panels. 2 yrs. other mechanical /electrical.

Technical Data	Imperial	Metric	Remark
Application	Exterior or Interior		Hood required for exterior mounted doors
Speed	Opening up to 24/s Closing up to 24 in/s	Opening up to 0.61 m/s Closing up to 0.61 m/s	Variable speed based on opening height
Control Panel	Smart Start™ NXT W x H x D (in) 11 ¼ x 15 ¾ x 8 ½	W x H x D (mm) 295 x 400 x 216	Standard NEMA 4X rated,
Roll-up Technology	Hollow-core steel roll tube with precision-welded axles		Standard
Door Construction	Overhead Coiling		
Size Range	Width 14 ft 0 in up to 33 ft 0 in Height 16 ft 0 in up to 33 ft 0 in	Width 4.27 m up to 10.06 m Height 4.88 m up to 10.06 m	Max. Opening Area: 690 sqft. Standard
Guide Track Profile	- W x D (in) 9 ¼ x 7 ½	W x D (mm) 235 x 181	(W x D) Footprint
Roll Tube Diameter	9 ⅝ in	244 mm	Hollow core
Solid Slat (Panel) Profile	W x D (in) 30 x ⅝	W x D (mm) 762 X 3	
Visible Material Height (Window Size)	W x D (in) 30 x ⅝	W x D (mm) 762 mm X 3 mm	2nd or 3rd panels only
Required Headroom	32 in min.	813 mm	
Drive Mechanics	Direct-drive operator with chain lift mechanism		
Counterbalance System	Not Required		
Braking	Control box activated 24V DC brake		
Cycleability / Maintenance	High Cycleability Inspect at 6 mo. intervals		Consult factory for details
Safety Features	Built-in light grid, chain hoist open / close		Standard
Resistance to Wind Load (Max per Door Width)	Consult factory for details.		Windlocks recommended for heavy pressure apps.
Fire Resistance Rating (Behavior)	Non-rated, Non-conforming exit		Per 2012 IBC Section 1008
Manufacturer Warranty	5 & 2 years. Motor / gearbox and Panels (5), all other mech. / elec. (2)		Standard

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Materials & Finishes	Description		Remark
Guide Tracks, Covers & Guards (Guides)	12-ga. HDG steel tracks, 16-ga. HDG steel covers		Zinc, Class G90 (0.9 oz. per SF)
Door Headers, Spiral Guides, Drive Shaft Support	12-ga. Hot-dipped galvanized steel		Zinc, Class G90
Weather Seals	Twin vinyl brush, jambs and lintel		-
Solid Door Slats (Panels)	Abrasion resistant, 2-ply polyester reinforced "Bulldog XT" PVC sheet, 2.8mm Thick, 90 oz./yd2		Color Availability: Blue, Orange, Gray, Black 90 Oz. "Bulldog XT" Fabric, Aluminum Panel Connectors
Vision Door Slats (Panels)	Abrasion resistant, transparent PVC sheet, 2.8mm Thick, 45 oz./yd2		Color Availability: Clear Full-Width Continuous
Ventilated Door Slats (Panels) (Screen)	Vinyl coated 1000 density polyester core yarn in warp and fill. 0.6 mm Thick, 10.4 oz./yd2		Ventilation panel frame, extruded anod. aluminum Fabric Openness 46.9% Full-Width Continuous Removable Screen Panel
Panel Connectors (Bar) Door Slat	30-ga. Clear Anodized Extruded Aluminum Profiles		
Electric Door Operator	Cast aluminum		
Control Panel	Stainless steel, or baked-on polyester powder coat painted. Color RAL 7035 Light Gray		
Hood and Motor Cover (Optional)	16-ga. Hot-dipped galvanized steel		Zinc, Class G90 (0.9 oz. per SF)
Energy Analysis	Imperial	Metric	Remark
Visible Transmittance	0.83		Per calc ANSI / NFRC 200-2014 (Clear Vision Panels)
Solar Heat Gain Coefficient (G-value)	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, Rw 21 dB		Per test EN 717-2, ASTM E90 (Without Visions)
LEED Credit (Potential)	MRc2; Environmental Product Declarations (2 pts) MRc4 EQc5;		USGBC® LEED v4
Electrical	Description		Remark
Electric Door Operator	2.0 HP GfA Elektromaten F50		NEMA Type 3 / IP54
Operating Voltage (Motor)	3 PH, 400vAC to 480vAC		From Control Box to Motor
Control Panel	5 KW variable frequency drive rated for operating voltage		NEMA Type 4X / IP66, UL/CUL Listed
Standard Power Requirement (to Control Box)	208vAC - 575vAC, 3 PH, 60 Hz		Step-up Transformer req. for supply volts \geq 460vAC
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 20 Amp, Class K		Supplied by Others