

Product Data Sheet

SM 1600 XL

Roll-Up High-Performance Door with Flexible Curtain Panels



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 48 in/sec. open, 30 in/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, Blue, Gray, Black, White
- Panels joined with continuous, heavy-duty aluminum hinges, available with optional Windlocks for greater wind pressures
- 5 & 2 year warranty protection plan. 5 yrs. motor/gearbox and panels. 2 yrs. other mech./elec.

Technical Data	Imperial	Metric	Remark
Application	Exterior or Interior		Hood required for exterior mounted doors
Speed	Opening up to 48 in/s Closing up to 30 in/s	Opening up to 1.22 m/s Closing up to 0.76 m/s	Variable speed based on opening height
Control Panel	Smart Start™ NXT W x H x D (in) 11 ½ 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 4 ft 0 in up to 20 ft 0 in Height 4 ft 0 in up to 20 ft 0 in	Width 1.22 m up to 6.10 m Height 1.22 m up to 6.10 m	Standard
Guide Track Profile	- W x D (in) 7 ¾ x 4 ¾	W x D (mm) 187 X 111	(W x D)
Roll Tube Diameter	6 ½ in	165 mm	Hollow core
Solid Slat (Panel) Profile	W x D (in) 30 ½ X ¼	W x D (mm) 775 X 3	
Visible Material Height (Window Size)	W x D (in) 30 ½ X ¼	W x D (mm) 775 X 3	2nd or 3rd panels only
Required Headroom	21 ¼ in min.	540 mm min.	
Drive Mechanics	Direct-drive operator with chain lift mechanism		
Counterbalance System	Not Required		
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 (Max per Door Width)	DW ≤ 14'-0", 9.2 psf; 60 mph max. Windlocks recommended for heavy pressure apps.	DW ≤ 4.27 m, 43kg/m ² ; 27 m/s max. Windlocks recommended for heavy pressure apps.	DW = Door Width Per standard EN 12424, DASMA 108 Exposure B
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 (Panel Wheel Guides, Aluminum)
Weather Seals	Twin vinyl brush, jambs and lintel		
Solid Door Slats (Panels)	Abrasion resistant, 2-ply polyester reinforced "Commander" PVC sheet, 2.8mm Thick, 58 oz./yd2		Color Availability: Yellow, Orange, Red, Blue, or Gray
Vision Door Slats (Panels)	Abrasion resistant, transparent PVC sheet, 2.8mm Thick, 45 oz./yd2		Color Availability: Clear
Ventilated Door Slats (Panels) (Screen)	Abrasion resistant, vinyl coated 1000 density polyester core yarn in warp and fill. 0.6mm Thick, 10.4 oz./yd2		Ventilation panel frame, extruded anod. aluminum Fabric Openness 46.9%
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)	1.73 (ft ² x°F x hr)/BTU,	0.3 (m ² x K)/W	Per test EN 717-1, DASMA TDS-163 (Without Visions)
Heat Transfer Coefficient (U-value)	0.58 BTU/(hr x ft ² x°F)	3.30 W/(m ² x K)	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 F18		NEMA Type 3 / IP54
Operating Voltage (Motor)	3 PH, 132 v or 230 v		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)	208 vAC - 600 vAC, 3 PH, 60 Hz		
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 20 Amp, Class K		Supplied by Others



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