

Product Data Sheet

SM 1600 L Eco

Roll-Up High-Performance Door with Flexible Curtain Panels



The Speed-Master® 1600 L19 Eco high speed door provides a fast opening, economical design.

- Smart Start™ NXT, NEMA 4X programmable control box for single and three phase supplied power
- Speed: Up to 60 in/sec. open, 30 in/sec. close
- Durable 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 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 60 in/s Closing up to 30 in/s	Opening up to 1.52 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, Single Phase Optional
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 12 ft 0 in Height 4 ft 0 in up to 12 ft 0 in	Width 1.22 m up to 3.66 m Height 1.22 m up to 3.66 m	Standard
Guide Track Profile	- W x D (in) 7 ¼ x 4 ½	W x D (mm) 184 x 114	(W x D)
Roll Tube Diameter	6 ¼ in	159 mm	Hollow core
Visible Material Height (Window Size)	Approx. 2 ft 10 in average	Approx. 864 mm average	Varied configuration
Required Headroom	21 ¼ in min.	540 mm min.	Consult factory for details
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. Rated 1 million cycles normal wear		Consult factory for details
Safety Features	Built-in light grid, chain hoist open / close		Standard
Resistance to Wind Load (Max per Door Width)	DW ≤ 12 ft 0 in, 9.2 psf; 60 mph max. Windlocks recommended for heavy pressure apps	DW ≤ 3.66 m, 44kg/m²; 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
Weather Seals	Twin vinyl brush, jambs and linte		
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, Gray or White
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	Baked-on polyester powder coat painted. Color RAL 7035 Light Gray		Standard
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)	0.73 BTU/(hr x ft ² x°F)	4.14 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)	1 PH or 3 PH, 132v or 230v		From Control Box to Motor
Control Panel	1.5 KW variable frequency drive rated for operating voltage		Enclosure: NEMA Type 4X / IP66, Non-UL
Standard Power Requirement (to Control Box)	230 vAC 1 PH, 60 Hz		*Transformer may be req'd. Consult Factory
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 20 Amp		Supplied by Others