

# Product Data Sheet

SM 1600 L

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 60 in/sec. open, 30 in/sec. close
- Patented, sectional design, able to self realign displaced panels into guide tracks
- Durable hot-dipped galvanized steel guide tracks
- Integral non-contact light grid protection feature
- 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, Gray, Black
- 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
<b>Application</b>	Exterior or Interior		Hood required for exterior mounted doors
<b>Speed</b>	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
<b>Control Panel</b>	Smart Start™ NXT W x H x D (in) 11 1/4 x 15 3/4 x 8 1/2	W x H x D (mm) 295 x 400 x 216	Standard NEMA 4X rated, Single Phase Optional
<b>Roll-up Technology</b>	Hollow-core steel roll tube with precision-welded axles		Standard
<b>Door Construction</b>	Overhead Coiling		
<b>Size Range</b>	W x H 14 ft 0 in x 16 ft 0 in 16 ft 0 in x 13 ft 6 in 17 ft 0 in x 13 ft 0 in	W x H 4.27 m x 4.88 m 4.88 m x 4.11 m 5.18 m x 3.96 m	Standard
<b>Guide Track Profile</b>	W x D (in) 7 3/8 x 4 3/8	W x D (mm) 187 X 111	(W x D)
<b>Roll Tube Diameter</b>	6 1/4 in	159 mm	Hollow core
<b>Solid Slat (Panel) Profile</b>	W x D (in) 30 1/2 X 1 1/2	W x D (mm) 775 X 3	
<b>Visible Material Height (Window Size)</b>	W x D (in) 30 1/2 X 1 1/2	W x D (mm) 775 X 3	2nd or 3rd panels only
<b>Required Headroom</b>	21 1/4 in min.	540 mm min.	
<b>Drive Mechanics</b>	Direct-drive operator with chain lift mechanism		
<b>Counterbalance System</b>	Not Required		
<b>Braking</b>	Control box activated 24V DC brake		
<b>Cycleability / Maintenance</b>	High / inspect per ea. 50,000 cycles or 6 mo. Individual curtain panels replaceable		Consult factory for details
<b>Safety Features</b>	Built-in light grid, chain hoist open / close		Standard
<b>Resistance to Wind Load (Max per Door Width)</b>	Door Width ≤ 14 ft 0 in, 9.3 psf; Class 2; 61 mph Door Width ≤ 16 ft 0 in, 6.3 psf; Class 1; 50 mph Door Width ≤ 17 ft 0 in, 4.0 psf; Class 0; 40 mph	Door Width ≤ 4.27 m 43kg/m2; Class 2; 27 m/s Door Width ≤ 4.88 m, 29kg/m2; Class 1; 22 m/s Door Width ≤ 5.18 m 19.5kg/m2; Class 0; 18 m/s	Windlocks recommended for heavy pressure applications Per standard EN 12424, DASMA 108 Exposure B
<b>Fire Resistance Rating (Behavior)</b>	Non-rated, Non-conforming exit		Per 2012 IBC Section 1008
<b>Manufacturer Warranty</b>	5 & 2 years. Motor / gearbox and Panels (5), all other mech. / elec. (2)		Standard

# Product Data Sheet

SM 1600 L

Roll-Up High-Performance Door with Flexible Curtain Panels



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, 3.0 mm Thick, 90 oz./yd2		Color Availability: Blue, Orange, Gray, Black
Vision Door Slats (Panels)	Abrasion resistant, transparent PVC sheet, 3.0 mm 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 anodized aluminum Fabric Openness 46.9%
Panel Connectors (Bar) Door Slat	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 <sup>2</sup> x °F x hr)/BTU,	0.3 (m <sup>2</sup> x K)/W	Per test EN 717-1, DASMA TDS-163 (Without Visions)
Heat Transfer Coefficient (U-value)	0.58 BTU/(hr x ft <sup>2</sup> x °F)	3.30 W/(m <sup>2</sup> 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	5 KW variable frequency drive rated for operating voltage		NEMA Type 4X / IP66, UL/CUL Listed
Standard Power Requirement (to Control Box)	Three Phase: 208 vAC* - 480 vAC; 60 Hz Single Phase: 230 vAC; 60 Hz		*Transformer may be req'd. Consult Factory
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 20 Amp, Class CC		Supplied by Others



Hörmann High Performance Doors | 117 Starpointe Blvd. | Burgettstown, PA 15021-9506  
1-800-365-3667 | info2@hormann.us | hormann.us