

# Product Data Sheet

## Speed-Master® 1600 L<sup>19</sup>

Roll-Up High-Performance Door with Flexible Curtain Panels



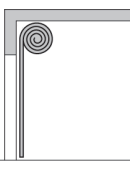
# HÖRMANN

### Features



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"/sec. open, 30"/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		Remark	
<b>Speed-Master® 1600 L<sup>19</sup></b> Flexible, overhead rapid coiling door.		<b>Specify High Performance Doors in Section 08 33 30.13 'Overhead Rapid Coiling Doors'</b> Find CSI format documents available at MasterSpec®, SpecLink, and Hormann.us®	
Application		Exterior or Interior	
Speed		Hood required for exterior mounted doors	
		Opening	Closing
		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)	
Roll-up Technology		Standard NEMA 4X rated, Single Phase Optional	
Roll-up Technology		Hollow-core steel roll tube with precision-welded axles	
 Overhead Coiling	Door Construction	Standard	
	Size Range	Wide 14'-0" x 16'-0" High Wide 16'-0" x 13'-6" High Wide 17'-0" x 13'-0" High	
	Guide Track Profile	7 3/8" x 4 3/8"	
	Roll Tube Diameter	6 1/4"	
	Solid Panel(s) Height	30 1/2"H, 1/8"D	
	Vision Panel(s) Height	30 1/2"H, 1/8"D	
Required Headroom	21 1/4" min.		
Drive Mechanism		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	
Safety Features		Consult factory for details	
Safety Features		Built-in light grid, chain hoist open/close	
Resistance to Wind Load		Standard	
Resistance to Wind Load		Door Width ≤ 14'-0", 9.3 psf; Class 2; 61 mph Door Width ≤ 16'-0", 6.3 psf; Class 1; 50 mph Door Width ≤ 17'-0", 4.0 psf; Class 0; 40 mph	
Fire Resistance Rating		Windlocks recommended for heavy pressure applications Per standard EN 12424, DASMA 108 Exposure B	
Fire Resistance Rating		Non-rated, Non-conforming exit	
Warranty		Per 2012 IBC Section 1008	
Warranty		5 & 2 years. Motor/gearbox and Panels (5), all other mech./elec. (2)	
<b>Materials and Finishes</b>		<b>Standard</b>	
Guide Tracks & Covers		Zinc, Class G90 (0.9 oz. per SF)	
Support Brackets, Roll Tube		Zinc, Class G90	
Weather Seals		Twin vinyl brush, jambs and lintel	
Panel Hinges		--	
Solid Door Panels		Clear Anodized Extruded Aluminum Profiles	
Solid Door Panels		Abrasion resistant, 2-ply polyester reinforced "Bulldog XT" PVC sheet, 3.0 mm Thick, 90 oz./yd <sup>2</sup>	
Solid Door Panels		Color Availability: Blue, Orange, Gray, Black	

# Product Data Sheet (Continued)

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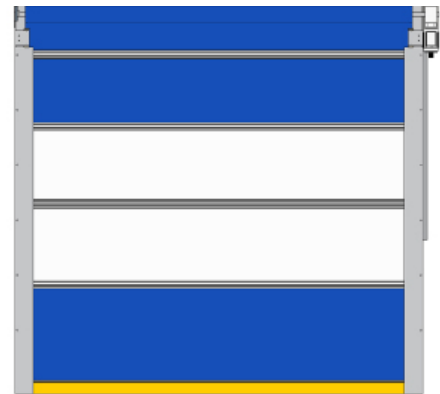
Roll-Up High-Performance Door with Flexible Curtain Panels



Materials and Finishes (Continued)		Remark
Vision Door Panels	Abrasion resistant, transparent PVC sheet, 3.0 mm Thick, 45 oz./yd <sup>2</sup>	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 <sup>2</sup>	Ventilation panel frame, extruded anod. aluminum Fabric Openness 46.9%
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	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)	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)	3.30 W/(m <sup>2</sup> x K), 0.58 BTU/(hr x ft <sup>2</sup> x°F)	Per test EN 12667: 199997-11, DASMA TDS-105
Acoustic Insulation	STC 24, R <sub>w</sub> 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 (Motor)	1 PH or 3 PH, 132v or 230v	From Control Box to Motor
Control Box	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

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 7-3/8" wide x 4-3/8" projection enable the 1600 L<sup>19</sup> 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 flexible doors provide excellent reliability and fast opening speeds.

Find us in  
**MasterSpec**<sup>®</sup>  
a product of The American Institute of Architects

Our products are specified in  
**SpecLink**  
www.bsdspeclink.com



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