

Product Data Sheet

Speed-Guardian™ 5000 LH U 42

Overhead Low-Headroom High-Performance Door with Insulated Curtain Panels



Features



Speed-Guardian™ Low Headroom, high-speed doors provide excellent capability in low-clearance areas.

- Smart Start™ NXT, NEMA 4X programmable control box.
- Thermally isolated design for reduced energy transfer and optimal efficiency.
- Speed: Up to 100"/sec. open, 20"/sec. close.
- 1 5/8" thick X 10" high insulated slats with R-13.6 thermal performance.
- Up to three (3) LED Lite-Advance™ visual traffic indicators per door (optional).
- Integral, non-contact light grid entrapment protection feature. Ensures safety of equipment, people, and vehicles.
- Emergency operation via chain hoist and counterbalance springs.
- Space-saving low headroom LH track application for limited clearance.
- Enhanced 10" high double-pane vision slats with Duratec® synthetic glazing.
- Optional tinted vision slats, Obscured White, Smoke Gray.
- Optional perforated metal slats with a 56.3% ventilation cross-section.
- 5, 2, & 7 year warranty protection plan. 5 yrs. motor/gearbox and panels. 2 yrs. other mech./elec., 7 yrs. vision slats.

Technical Data		Remark	
Speed-Guardian™ Low Headroom 5000 LH U 42 Rigid, high performance door with headroom clearance saving design.		Specify High Performance Doors in Section 08 33 30.13 'Overhead Rapid Coiling Doors' Find CSI format documents available at MasterSpec®, SpecLink, and Hormann.us®	
Application		Exterior	
Speed		Opening 60" up to 100"/sec.	Closing Up to 20"/sec.
Control Panel		Smart Start™ NXT (11 5/8"W x 15 3/4"H x 8 3/16"D)	
Roll-up Technology		Non-contact overhead guides with Non-contact lintel seal	
Door Construction 	Size Range	18'-0" wide, up-to 21'-4" high Maximum	
	Guide Track Profile	12" x 12 1/2", chamfered corners (interior side)	
	Distance Back Formula	DB = ((2 x DH) - (DH + HR)) + 39 1/2"	
	Solid Slat Height & Depth	9 7/8"H, 1 5/8"D	
	Visible Material (Glazing Height)	6-1/4" H	
Overhead Rolling	Mullions	None up-to 120" wide One up-to 197" wide Two if ≥ 198" wide	
Required Headroom		19" Min., 29-1/2" Max.	
Drive Mechanism		Direct-drive operator with chain lift mechanism	
Counterbalance System		Belt mechanism and springs	
Braking		Control box activated 24V DC brake	
Cycleability / Maintenance		High / inspect per ea. 50,000 cycles or 6 mo. Windows replaceable independent of solid slats	
Actuators		Manually Operated Push Button Stations Touchless Motion/Presence Sensors	
Safety Features		Built-in light grid, chain hoist open/close	
Resistance to Wind Load		DW ≤ 18'-0", Class 5 max. 93mph (21psf; 115mph max.)	
Fire Resistance Rating		Non-rated, Non-conforming exit	
Warranty		5, 2, & 7 years. Motor/gearbox and Panels (5), all other mech./elec. (2), vision slats (7)	

Product Data Sheet (Continued)



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Materials and Finishes		
Guide Tracks & Covers	11-ga. HDG steel tracks, 16-ga. HDG steel covers	Zinc, Class G90 (0.9 oz. per SF)
Door Headers, Spiral Guides, Drive Shaft Support	11-ga. Hot-dipped galvanized steel	Zinc, Class G90 (Panel Wheel Guides, Aluminum)
Counterbalance Assemblies	Oil temp. Steel helical extension springs	Available up-to 8 springs per door
Weather Seals	Twin rubber, non-contact lintel	--
Solid Door Slats	22-ga. Hot-dipped galvanized steel, with foamed-in-place polyurethane insulation core. MicroGrain™ texture exterior, Stucco texture interior. Color RAL 9006	Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 11pcf
Vision Door Slats	1" Double-pane, acrylic, clear or tinted (Obscured White, Smoke Gray) and Duratec® abrasion-resistant coating	1 5/8" Thick Vision Panel frame, extruded anodized aluminum
Ventilation Door Slats	1" Double-walled, perforated clear anodized aluminum, 1/2" square press-punched grid pattern	1 5/8" Thick Ventilation Panel frame, extruded anodized aluminum Open area 56.3%
Bottom Profile Door Slat	22-ga. Interlocking flat-faced, insulated steel panel, with weather seal loop	--
Electric Door Operator	Cast aluminum	--
Control Panel	Stainless steel, or baked-on polyester powder coat painted. Color RAL 7035 Light Gray	Powder Coat Painted, Standard
Hood and Motor Cover	Not Available	--
Energy Analysis		
Air Permeability (leakage)	0.6 cfm/ft² (12 m³/h/m²), Class 2	Per test EN 12427, (ASTM E283, ANSI/NFRC 400)
Resistance to Water Penetration	Class 2, 15 min @ 55pa	Per test EN 12489 (ASTM E547)
Visible Transmittance (Tvis)	0.91%	Per calc ANSI/NFRC 200-2014 (Clear Vision Slats)
Solar Heat Gain Coefficient (SHGC)	0.75%	Per calc ANSI/NFRC 200-2014 (Clear Vision Slats)
Thermal Resistance (R-value)	13.6 (ft² x°F x hr)/BTU, 2.40 (m² x K)/W	Per test EN 717-1, DASMA TDS-163 (Insulated Slat)
Heat Transfer Coefficient (U-value)	1.04 W/(m² x K), 0.18 BTU/(hr x ft² x°F)	Per test EN 12667: 199997-11, DASMA TDS-105
Acoustic Insulation	STC 30, R _w 26 dB	Per test EN 717-2, ASTM E90 (Without Visions)
LEED Credit (Potential)	EAc2, MRc1, MRc3, IEQc2, IEQc4, INc1, RPr1	USGBC® LEED v4
Electrical		
Electric Door Operator (Motor)	2.0 HP GfA Elektromaten F18	NEMA Type 3 / IP54
Operating Voltage (Motor)	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)	208vAC* - 230 vAC - 480 vAC - 600vAC*, 3 PH, 60 Hz	*Transformer may be req'd. Consult Factory
Full Load Amps	13.3 A	Operator
Disconnect	Fuse: 20 Amp, Class K	Supplied by Others

Hörmann's Speed-Guardian™ Low Headroom, high speed, security line of doors is characterized by an attractive, elegant design with excellent low clearance capability. Double-pane vision panels provide daylighting and open views with fast operating speeds. Thanks to non-contact roll-up technology along with a standard built-in light grid, the Speed-Guardian™ is a proven industry leader for both safety and longevity with versatility expressed in its range of applications in minimal headroom spaces.



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

The Speed-Guardian™ Low Headroom, High speed, security line of doors provide excellent low clearance capabilities with pleasing aesthetic appeal.

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