

Product Data Sheet

Speed-Guardian™ 5000 C U 42

Coiling High-Performance Door with Insulated Curtain Panels

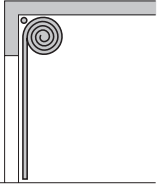


Features



The Speed-Guardian™ High speed, security line of doors provide excellent thermal insulation and fast opening speeds.

- 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.
- Compact, non-contact spiral guides eliminate wear and noise.
- Up to three (3) LED Lite-Advance™ visual traffic indicators per door (optional).
- An integrated light curtain ensures safety of equipment, pedestrians, and vehicles.
- Emergency operation via chain hoist and counterbalance springs.
- 1 5/8" thick X 10" high insulated slats with R-13.6 thermal performance.
- Enhanced 10" tall double-pane vision panels 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™ 5000 C U 42 Rigid, high performance door with non-contact spiral roll-up technology.		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 or Interior	
Speed		Hood required for exterior mounted doors	
		Opening	Closing
		60" up to 100"/sec.	Up to 20"/sec.
Control Panel		Variable speed based on opening height	
		Smart Start™ NXT (11 5/8"W x 15 3/4"H x 8 3/16"D)	
Roll-up Technology		Standard	
		Non-contact spiral guides with Non-contact lintel seal	
 Overhead Spiral	Door Construction		
	Size Range	*Width: 6'-0" up-to 24'-0" Height: 8'-0" up-to 21'-4"	
	Guide Track Profile	12" x 12 1/2", chamfered corners (interior side)	
	# of Spiral Size Configurations	Three (3)	
	Solid Slat Height & Depth	9 7/8"H, 1 5/8"D	
	Visible Material (Glazing Height)	6-1/4" H	
Mullions	None up-to 120" wide, One up-to 197" wide Two up-to 198" wide, Four if ≥ 256" wide		+15% Enhanced visible area over previous Speed-Guardian™ models
Required Headroom		Per spiral configuration size	
		36 1/4" min. if door height ≤ 14'-9" 37 5/8" min. if door height is 14'-9"- 18'-0" 41 1/2" min. if door height ≥ 18'-0"	
Drive Mechanism		Direct-drive operator with chain lift mechanism	
Counterbalance System		Belt mechanism and springs	
Braking		Control box activated 24V DC brake	
		Built-in, anti-fallback safety brake device integrated with operator worm gear	
Cycleability / Maintenance		High / inspect per ea. 50,000 cycles or 6 mo. Windows replacable independent of solid slats	
		Consult factory for details	
Safety Features		Spring compensation assist	
Resistance to Wind Load		Per standard EN 12424, DASMA 108 Exposure B	
		DW ≤ 16'-4", Class 5 max. 93mph (21psf; 115mph max.) DW >16'-4", ≤ 19'-8", Class 4 max. 83mph (15psf; 100mph max.) DW > 19'-8", Class 2 max. 64mph (7psf; 70mph max.)	
Fire Resistance Rating		Per 2012 IBC Section 1008	
		Non-rated, Non-conforming exit	
Warranty		Standard	
		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-resistive coating	Vision panel frame, extruded anodized aluminum
Ventilation Door Slats	1" Double-walled, perforated clear anodized aluminum, 1/2" square press-punched grid pattern	Ventilation panel frame, extruded anod. aluminum Open area 56.3%
Bottom Profile Door Slat	22-ga. HDG Interlocking flat-faced, insulated steel panel, with extruded black rubber weather seal loop	Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 11pcf
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	16-ga. Hot-dipped galvanized steel	Zinc, Class G90 (0.9 oz. per SF)
Energy Analysis		
Air Permeability (leakage)	0.6 cfm/ft² (12 m³h/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, RPC1	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	Enclosure: 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

The Speed-Guardian™ high speed, security line of doors are characterized by an elegant Micrograin surface finish with hot-dipped galvanized, double-skinned steel panels providing excellent thermal insulation and fast opening speeds. Thanks to non-contact roll-up technology and a standard built-in light grid the Speed-Guardian™ is a proven industry leader for both safety and longevity. The versatility expressed in its range of applications includes retail automotive, emergency services, parking structures and others. Hörmann's latest generation, the Speed-Guardian™ 5000 series has once again succeeded with what is to be expected of quality and innovation in high performance doors.



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Our products are specified in
SpecLink
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