

Product Data Sheet

SG 5000 LSS U 42

Overhead Low-Speed Sectional Door with Insulated Curtain Panels



Speed-Guardian™ Low Speed insulated sectional overhead doors provide a matching look to our High Speed Doors to balance your building design.

- Thermally isolated panel design for reduced heat transfer and optimal energy efficiency
- Speed: Up to 8 in/sec. open, 8 in/sec. close
- Heavy duty 3 in galvanized steel guide tracks ideal for commercial applications
- Optional non-contact light grid entrapment protection feature. Ensures safety of equipment, people, and vehicles
- Emergency operation via chain hoist and counterbalance springs
- Three guide track configurations to choose from, Standard OH, High-Lift, & Vertical
- Double stacked 10 in high vision panels with dual synthetic glazing panes. Overall section height = 20 in
- Optional tinted vision slats, Obscured White, Smoke Gray
- Optional perforated metal slats for ventilation requirements
- 20 year warranty protection plan. 20 years on rollers, tracks, hinges. 5 years on panels. 7 years on vision panels. 1 year on mech./ electrical components, standard

Technical Data	Imperial	Metric	Remark
Application	Exterior		Interior mounting only
Speed	Opening 8 in/s Closing 8 in/s	Opening 0.20 m/s Closing 0.20 m/s	Conventional operation speeds
Roll-up Technology	Standard Overhead Track Configuration		LSS Model
Door Construction	Overhead Rolling		
Size Range	Width 16 ft 0 in Height 16 ft 0 in	Width 4.88 m Height 4.88 m	Standard
Guide Track Profile	Channel Profile 3 in	76 mm	Standard
Distance Back Formula	DB = 2(DH + 20 in) + 39 - ½ in	DB = 2(DH + 0.51 m) + 1 m	From interior host wall to end of OH tracks
Solid Slat (Panel) Profile	W x H (in) 1 ¾ x 20	W x H (mm) 41 x 508	Standard
Visible Material Height (Window Size)	14 in	356 mm	Vision Material Height Only
Mullions	Door Width < 10 ft = None ≥ 10 ft ≤ 16 ft 5 in = 1 Centered > 16 ft 5 in = 2 Eq Thirds	Door Width < 3.1 m = None ≥ 3.1 m ≤ 5 m = 1 Centered > 5 m = 2 Eq Thirds	15% Enhanced visibility than SG 4000 U
Required Headroom	20 in maximum	508 mm maximum	Standard
Drive Mechanics	½ HP Trolley or Jackshaft Operator		Trolley (Standard)
Counterbalance System	None		
Cycleability / Maintenance	15 k Springs, Standard Windows replaceable independent of solid slats		Optional 25 k, 50 k, or 100 k Springs available
Actuators	Manually Operated Push Button Stations Touchless Motion / Presence Sensors		NEMA Type 4, 4X Rated
Safety Features	Thru-beam photo eye, Standard		Optional Light Curtain Available
Resistance to Wind Load (Max per Door Width)	Door Width ≤ 16 ft 0 in (93mph)	Door Width ≤ 4.88 m (41.5 m/s)	Per standard EN 12424, DASMA 108 Exposure B
Fire Resistance Rating (Behavior)	Non-rated, Non-conforming exit		Per 2012 IBC Section 1008
Manufacturer Warranty	20, 1, & 7 years. Motor / gearbox and Panels (20), all other mech. / elec. (1), vision slats (7)		Standard

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Materials & Finishes	Description		Remark
Guide Tracks, Covers & Guards (Guides)	11-ga. HDG steel tracks, 16-ga HDG steel covers		Zinc, Class G90 (0.9 oz/ft2)
Springs	Steel torsion springs		
Weather Seals	Twin rubber, non-contact lintel		
Solid Door Slats (Panels)	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 (Panels)	1 in (25.4 mm) Double-pane, acrylic, clear or tinted (Obscured White, Smoke Gray) and Duratec® abrasion-resistive coating		1 ½ in Thick Vision Panel frame, extruded anodized aluminum Open area 56.3%
Ventilated Door Slats (Panels) (Screen)	1 in (25.4 mm) Double-walled, perforated clear anodized aluminum, ½ in (12.7 mm) square press-punched grid pattern		1 ½ in Thick Ventilation Panel frame, extruded anodized aluminum Open area 56.3%
Bottom Profile (Bar) Door Slat	22-ga. Interlocking flat-faced, insulated steel panel, with weather seal loop		Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 11pcf
Electric Door Operator	Cast Aluminum with Baked-on Enamel Finish		Trolley and Jackshaft types
Energy Analysis	Imperial	Metric	Remark
Air Leakage	0.6 cfm/ft2 , Class 2	12 m3h/m2 , Class 2	Per test EN 12427, (ASTM E283, ANSI / NFRC 400)
Water Penetration	Class 2, 15 min at 55 Pa		Per test EN 12489, (ASTM E547)
Visible Transmittance	0.91		Per calc ANSI / NFRC 200-2014 (Clear Vision Slats)
Solar Heat Gain Coefficient (G-value)	0.75		Per calc ANSI / NFRC 200-2014 (Clear Vision Slats)
Thermal Resistance (R-value)	Solid: R 13.6, Vision: R 0.23		Per test EN 717-1, DASMA TDS-163 (vision Slat)
Heat Transfer Coefficient (U-value)	Solid: U 1.04, Vision: U 4.41		Per test EN 12667; 199997-11, DASMA TDS-105 (vision Slat)
Acoustic Insulation	Solid: STC 30, Rw 26 dB, Vision: STC 34, Rw 31 dB		Per test EN 717-2, ASTM E90 (Without Visions)
LEED Credit (Potential)	EAc2; Optimize Energy Performance (20 pts) MRc2; Environmental Product Declarations (2 pts) IEQc2; Low-Emitting Materials (3 pts) IEQc4; Thermal Comfort (1 pt) INc1; Innovation (5 pts) RPC1; Regional Priority Specific Credit (1 pt)		USGBC® LEED v4.1
Electrical	Description		Remark
Electric Door Operator	Trolley (Standard)	Jackshaft (Optional)	NEMA Type 1 Standard (4x Optional)
Operating Voltage (Motor)	½ HP Manaras Opera-OTH low headroom ½ HP Manaras Opera-H with chain hoist		Supply to motor
Full Load Amps	1 PH, 120 - 240 vAC, or 3 PH 208 - 480 vAC, 60 Hz		Operator
Disconnect	Fuse: 20 Amp, Class K		Supplied by Others



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