

# Product Data Sheet

SG 5000 V U 42

Vertical-Opening High-Performance Door with Insulated Curtain Panels



The Speed-Guardian™ Vertical Complete View high speed doors provide fast and quiet opening speeds.

- Vertical guide application reduces wear and noise
- Smart Start™ NXT, plug & play, programmable control box
- Speeds: Up to 100 in/sec. open, 20 in/sec. close
- Optional LED Lite-Advance™ visual traffic indicators for improved safety
- An integrated light curtain ensures safety of equipment, pedestrians, and vehicles
- Light-weight and strong, insulated curtain construction
- Optional 10 in 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	Imperial	Metric	Remark
<b>Application</b>	Interior and Exterior		Hood Enclosure not provided on Vertical Doors
<b>Speed</b>	Opening 60 in/s up to 100 in/s Closing 20 in/s	Opening 1.52 m/s up to 2.54 m/s Closing 0.51 m/s	Variable based on opening height
<b>Control Panel</b>	Smart Start™ NXT W x H x D (in) 11 ½ x 15 ¾ x 8 ⅜	W x H x D (mm) 295 x 400 x 208	Standard, NEMA Type 4X / IP66
<b>Roll-up Technology</b>	Full Vertical Guides with Panel Rollers		
<b>Door Construction</b>	Vertical Opening		
<b>Size Range</b>	Width 21 ft 4 in Height 21 ft 4 in	Width 6.50 m Height 6.50 m	Standard
<b>Guide Track Profile</b>	W x D (in) 13 x 12	W x D (mm) 330 x 305	
<b>Solid Slat (Panel) Profile</b>	W x H (in) 9 ⅞ x 1 ⅞	W x H (mm) 251 x 41	
<b>Visible Material Height (Window Size)</b>	6 ¼ in	159 mm	42 mm panel, 67 mm panel
<b>Mullions</b>	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
<b>Drive Mechanism</b>	Direct Drive Operator		
<b>Required Headroom</b>	Door Opening Height + 23 in		
<b>Counterbalance System</b>	Counter Weights		Springless - Low maintenance
<b>Braking</b>	Control box activated 24V DC brake		Built-in, anti-fallback safety brake device integrated with operator worm gear
<b>Cycleability / Maintenance</b>	High Cycleability - Inspect at 6 mo. intervals Windows replacable independent of solid slats		Consult factory for details
<b>Safety Features</b>	Built-in Light grid, Chain hoist open/close		Counter weight compensation assist
<b>Resistance to Wind Load (Max per Door Width)</b>	Door Width ≤ 16 ft - 4 in, Class 5 max. 93mph (21psf; 115mph max.) Door Width > 16 ft - 4 in, ≤ 20 ft -0 in, Class 4 max. 83mph (15 psf; 100 mph max.)		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, & 7 years. Motor/gearbox and Panels (5), all other mech./elec. (2), vision slats (7)		Standrd

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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)
Door Headers, Spiral Guides, Drive Shaft Support	11-ga. Hot-dipped galvanized steel		Zinc, Class G90 (Panel Wheel Guides, Aluminum)
Counterbalance Assemblies	Steel Counter Weight Assembly		
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 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
Ventilated Door Slats (Panels) (Screen)	1 in Double-walled, perforated clear anodized aluminum, ½ in 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		-
Control Panel	Stainless steel, or baked on polyester powder coat painted. Color RAL 7035 Light Gray		Powder Coat Painted, Standard
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)	13.6 (ft² x°F x hr)/BTU, or 2.40 (m² x K)/W		Per test EN 717-1, DASMA TDS-163 (Without Visions)
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, Rw 26 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	2.0 HP GfA Elektromaten F18		NEMA Type 3 / IP54
Operating Voltage (Motor)	3 PH. 132v		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* - 230vAC - 480vAC - 600vAC*, 3 PH, 60Hz		*Transformer may be required. Consult Factory
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 20 Amp, Class CC		Supplied by Others



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