

Product Data Sheet

SG 5000 CLP U 42

Coiling Low-Profile High-Performance Door with Insulated Curtain Panels



The Speed-Guardian™ Low-Profile high speed, security line of doors provide energy efficient, attractive design, with springless side frames.

- Smart Start™ NXT, NEMA 4X programmable control box
- Thermally isolated design for reduced heat transfer and optimal energy efficiency
- Speed: Up to 60 in /sec. open, 20 in /sec. close
- Exclusive non-contact guide technology reducing wear and noise
- Space saving, springless low-profile galvanized steel guide tracks fit anywhere
- Integral, non-contact light curtain entrapment protection feature ensures safety of equipment, people, and vehicles
- Emergency operation via chain hoist
- Light-weight and strong full aluminum curtain construction
- Enhanced 10 in high double-pane vision slats with Duratec® synthetic glazing
- Optional tinted vision slats, Obscured White, Smoke Gray
- Optional perforated metal slats for ventilation requirements
- 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
Application	Exterior or Interior		Hood required for exterior mounted doors
Speed	Opening 60 in/s Closing 20 in/s	Opening 1.52 m/s Closing 0.5 m/s	Variable based on opening height
Control Panel	Smart Start™ NXT W x H x D (in) 11 ½ x 15 ¾ x 8 ¾	W x H x D (mm) 295 x 400 x 208	Standard, NEMA Type 4X / IP66
Roll-up Technology	Non-contact coiling guides with Non-contact lintel seal		Standard
Door Construction	Overhead coiling		
Size Range	Width 16 ft 0 in Height 16 ft 0 in	Width 4.88 m Height 4.88 m	Standard
Guide Track Profile	Chamfered Corners (Interior Side) W x D (in) 8 x 10 ¾		W x D (mm) 203 x 264 Ideal for limited side room applications
Spiral Configurations	Two (2)		Selected per door height
Solid Slat (Panel) Profile	W x H (in) 9 ⅞ x 1 ⅞	W x H (mm) 251 x 41	
Visible Material Height (Window Size)	6 ¼"		159 mm
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	Door Height < 14 ft 9 in = 36 ¼ in > 14 ft 9 in = 37 ⅞ in	Door Height < 4.50 m = 921 mm > 4.50 m = 956 mm	Per coiling configuration size
Drive Mechanics	Direct-drive Operator with Chain Lift Mechanism		
Counterbalance System	Not offered		
Braking	Control box activated 24 V DC brake		Built-in, anti-fallback safety brake device integrated with operator worm gear
Cycleability / Maintenance	Rated > 1 million Cycles Inspect at 6 mo. Intervals		Consult factory for details
Safety Features	Built-in light grid, chain hoist open / close		
Resistance to Wind Load (Max per Door Width)	Door Width ≤ 16 ft 0 in = 21 psf (93 mph)	Door Width ≤ 4.88 m, 102.5 kg/m ² ; (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	5, 2, 7 years. Motor / Gearbox & Panels (5), all other mech. / electrical (2), 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)
Door Headers, Spiral Guides, Drive Shaft Support	11-ga. Hot Dipped Galvanized Steel		Zinc, Class G90 Panel Guide Wheels guides, Aluminum
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		Vision panel frame, extruded anodized aluminum
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		Ventilation panel frame, extruded anod. aluminum Open area 56.3%
Bottom Profile (Bar) Door Slat	30-ga. Interlocking flat-faced, hollow extruded aluminum 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
Hood & Motor Cover (Optional)	16-ga Hot-dipped galvanized steel		Zinc, Class G90 (0.9 oz/ft2)
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	2.40 (m² x K)/W	Per test EN 717-1, DASMA TDS-163 (vision Slat)
Heat Transfer Coefficient (U-value)	0.18 BTU/(hr x ft² x°F)	1.04 W/(m² x K)	Per test EN 12667; 199997-11, DASMA TDS-105 (vision Slat)
Acoustic Insulation	STC 30, R 26 dB		Per test EN 12667; 199997-11, DASMA TDS-105 (vision Slat)
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	5.0 HP GfA Elektromaten F35		NEMA Type 3, IP54
Operating Voltage (Motor)	3 PH, 272 vAC		From Control Panel to Motor only
Control Panel	5 kW Variable Frequency Drive rated for Spec Operating Voltage		NEMA Type 4X / IP66, UL/CUL Listed
Standard Power Requirement (to Control Box)	*208 vAC - 480 vAC , 3 PH, 60 Hz		Transformer required for supply volt. < 460 vAC
Full Load Amps	12.4 A		Operator
Disconnect	Fuse: 20 A, Class K		Supplied by Others



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