

Product Data Sheet

SG 5000 CLP CV 42

Coiling Low-Profile High-Performance Door with Double-Pane Vision 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 3/4 x 15 3/4 x 8 3/16	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 14 ft 0 in	Width 4.88 m Height 4.26 m	Standard
Guide Track Profile	Chamfered Corners (Interior Side) W x D (in) 8 x 10 3/8		W x D (mm) 203 x 264 Ideal for limited side room applications
Spiral Configurations	One (1)		
Solid Slat (Panel) Profile	W x H (in) 9 7/8 x 1 3/8	W x H (mm) 251 x 41	
Visible Material Height (Window Size)	6 1/4 in		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 1/4 in < 14 ft 9 in = 37 3/8 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	High / Inspect per ea. 50,000 cycles or 6 mo. Windows replaceable independent of solid slats		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)	Interlocking flat-face, hollow extruded aluminum panel, including neoprene rubber thermal break at panel top. Finish: Clear anodized.		Finishes to coordinate with primary curtain finishes unless spec. otherwise
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
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	30-ga. Interlocking flat-faced, hollow extruded aluminum panel, with weather seal loop		Only non-vision panel in door curtain
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)	1.30 Btu/(hr x ft² x °F)	0.23 W/(m² x K)	Per test EN 717-1, DASMA TDS-163 (vision Slat)
Heat Transfer Coefficient (U-value)	0.77 Btu/(hr x ft² x °F)	4.41 W/(m² x K)	Per test EN 12667; 199997-11, DASMA TDS-105 (vision Slat)
Acoustic Insulation	STC 34, Rw 31 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		Enclosure: 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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