

# Product Data Sheet

SG 4000 C HR 42

Coiling High-Performance Door with Panels for High Velocity Wind Resistance



Hörmann Speed-Guardian™ Hurricane-Rated doors provide excellent wind resistance capabilities and fast opening speeds.

- Smart Start™ NXT, NEMA type 4X programmable control box
- Wind Zone 4, Class 4 rated single door solution with Florida Building Code product approval, 'FL #17220.1'
- Speed: Up to 100 in /sec. open, 20 in /sec. close
- Exclusive non-contact guide technology reducing wear and noise
- Hot-dipped galvanized steel side frames
- Integral non-contact light grid protection
- A convenient single door solution
- Emergency operation via chain hoist and counterbalance springs
- 1 5/8 in thick X 9 in high reinforced panels for superior wind load resistance
- Tough, impact resistance: 'Missile Level D'
- Design Pressure rated for +50 /-50 psf
- 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>	Exterior		Interior mounted only
<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 0.5 m/s	Variable based on opening height
<b>Control Panel</b>	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
<b>Roll-up Technology</b>	Non-contact coiling guides with Non-contact lintel seal		Standard
<b>Door Construction</b>	Overhead coiling		
<b>Size Range</b>	Width 6 ft 0 in up to 16 ft 0 in Height 8 ft 0 in up to 20 ft 0 in	Width 1.83 m up to 4.88 m Height 2.44 m up to 6.10 m	Standard
<b>Guide Track Profile</b>	Chamfered Corners (Interior Side) W x D (in) 12 x 12 1/2		Standard
<b>Spiral Configurations</b>	Two (2)		Selected per door height
<b>Solid Slat (Panel) Profile</b>	W x H (in) 1 3/8 x 9	W x H (mm) 42 mm x 229 mm	
<b>Panel Reinforcement</b>	Solid Aluminum C-channel Section (W x h x Thk.Web) 1 3/8 in x 3 in x 5/32 in	Solid Aluminum C-channel Section (W x h x Thk.Web) 35 mm x 76 mm x 4 mm	Alternate placement (1) inside every other-panel
<b>Required Headroom</b>	Door Height < 16 ft 4 in = 35 in > 16 ft 4 in = 36 3/8 in	Door Height < 4.89 m = 889 mm > 4.89 m = 924 mm	Per coiling configuration size
<b>Drive Mechanics</b>	Direct-drive Operator with Chain Lift Mechanism		
<b>Counterbalance System</b>	Belt mechanism and Springs		
<b>Braking</b>	Control box activated 24 V DC brake		Built-in, anti-fallback safety brake device integrated with operator worm gear
<b>Cycleability / Maintenance</b>	High / Inspect per ea. 50,000 cycles or 6 mo.		Consult factory for details
<b>Safety Features</b>	Built-in light grid, chain hoist open / close		Spring compensation assist
<b>Resistance to Wind Load (Max per Door Width)</b>	Door Width ≤ 20 ft 0 in, Wind Zone 4, Class 4 max. Missile Level D, Impact Resistant: Yes Design Pressure: +50 /-50 psf Approved for use inside HVHZ: No	Door Width ≤ 6.10 m, Wind Zone 4, Class 4 max. Missile Level D, Impact Resistant: Yes Design Pressure: +50 /-50 psf Approved for use inside HVHZ: No	Per standard EN 12424, DASMA 108 Exposure B Approved for use outside HVHZ: Yes Verified by: Interek - York (ATI)
<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 & 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
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 (Panels)	5/8 in Thick hollow-core extruded anodized Aluminum profile. EURAS color E6 / C0 (Nature) Silver		Optional powder-coating paint Finishes available in RAL color system
Vision Door Slats (Panels)	Vision Door Panels Not Offered on HR model		
Ventilated Door Slats (Panels) (Screen)	Ventilation Door Panels Not Offered on HR model		
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)
Thermal Resistance (R-value)	Consult Factory		Per test EN 717-1, DASMA TDS-163 (vision Slat)
Heat Transfer Coefficient (U-value)	Consult Factory		Per test EN 12667; 199997-11, DASMA TDS-105 (vision Slat)
Acoustic Insulation	Consult Factory		Per test EN 717-2, ASTM E90
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) RPr1; 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 or 230v		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 may be required. Consult Factory
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 20 A, Class K		Supplied by Others



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