

# Product Data Sheet

## Speed-Guardian™ 4000 C HR 42

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



# HÖRMANN

### Features



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"/sec. open, 20"/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" thick X 9" 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		Remark	
<b>Speed-Guardian™ 4000 C HR 42</b>			
Rigid, high performance overhead rapid coiling door with non-contact spiral roll-up technology.			
Application		Exterior	
Speed		Interior mounted only	
		Opening	Closing
		60" up to 100"/sec.	Up to 20"/sec.
Control Panel		Variable speed based on opening height	
		Smart Start™ NXT (11 5/8" W x 15 3/4" H x 8 3/16" D)	
Roll-up Technology		Standard, NEMA Type 4X / IP66	
		Non-contact spiral guides with Non-contact lintel seal	
Door Construction		Standard	
	Size Range	Min. 6'-0" up-to 16'-0" wide Min. 8'-0" up-to 20'-0" high	
	Guide Track Profile	12" x 12 1/2", chamfered corners (interior side)	
	Spiral Size Configurations	2	
	Slat Height	9"	
	Slat Thickness	1 5/8"	
Overhead Spiral	Panel Reinforcement	Alternate placement (1) inside every-other-panel	
		Solid Aluminum C-channel Section 1 3/8" W x 3" H x 5/32" Thk. Web	
Required Headroom		Per spiral configuration size	
		35" min. if door height ≤ 16'-4" 36 3/8" min. if door height ≥ 16'-4"	
Drive Mechanism		Direct-drive operator with chain lift mechanism	
Counterbalance System		Belt mechanism and springs	
Braking		Control box activated 24V 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.	
Safety Features		Spring compensation assist	
Resistance to Wind Load		DW = Door Width Per standard EN 12424, DASMA 108 Exposure B Approved for use outside HVHZ: Yes Verified by: Interek - York (ATI)	
Fire Resistance Rating		Non-rated, Non-conforming exit	
		Per 2012 IBC Section 1008	
Warranty		Standard	
		5, 2, & 7 years. Motor/gearbox and Panels (5), all other mech./elec. (2), vision slats (7)	

# Product Data Sheet (Continued)



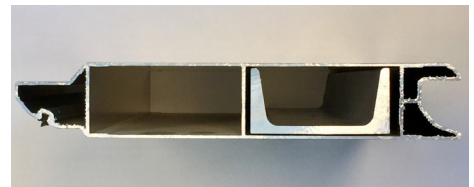
## Speed-Guardian™ 4000 C HR 42

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

Materials and Finishes		
Side Frames & Covers	11-ga. HDG steel tracks, 16-ga. HDG steel covers	Zinc, Class G90 (0.9 oz. per SF)
Door Headers, Spiral Guides, Drive Shaft Support	11-ga. Hot-dipped galvanized steel	Zinc, Class G90 (Panel Wheel 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 Panels	$\frac{5}{64}$ " 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 Panels	Not Offered on HR model	--
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 and Motor Cover	16-ga. Hot-dipped galvanized steel	Zinc, Class G90 (0.9 oz. per SF)
Energy Analysis		
Air Permeability (leakage)	0.6 cfm/ft <sup>2</sup> (12 m <sup>3</sup> /h/m <sup>2</sup> ), Class 2	Per test EN 12427, (ASTM E283, ANSI/NFRC 400)
Resistance to Water Penetration	Class 2, 15 min @ 55pa	Per test EN 12489 (ASTM E547)
Thermal Resistance (R-value)	Consult Factory	Per test EN 717-1, DASMA TDS-163
Heat Transfer Coefficient (U-value)	Consult Factory	Per test EN 12667: 199997-11, DASMA TDS-105
Acoustic Insulation	Consult Factory	Per test EN 717-2, ASTM E90
LEED Credit (Potential)	EAc2, MRc1, MRc3, IEQc2, IEQc4, INc1, RPr1	USGBC® LEED v4
Electrical		
Electric Door Operator (Motor)	2.0 HP GfA Elektromaten F18	NEMA Type 3 / IP54
Operating Voltage (Motor)	3 PH, 132v or 230v	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 - 480vAC, 3 PH, 60 Hz	Transformer may be required. Consult Factory Rep.
Full Load Amps	13.3 A	Operator
Disconnect	Fuse: 20 Amp, Class K	Supplied by Others

The Speed-Guardian™ high speed, security line of doors are characterized by an elegant surface finish with clear anodized aluminum panels with alternating reinforcement providing excellent wind deflection resistance and fast opening speeds. Thanks to non-contact roll-up technology and a standard built-in light grid the Speed-Guardian™ is a proven industry leader for both safety and longevity. The versatility expressed in its range of applications includes retail automotive, emergency services, parking structures and others.

Hörmann's latest generation, the Speed-Guardian™ series has once again succeeded with what is to be expected of quality and innovation in high performance doors.



The Speed-Guardian™ 4000 C HR 42's reinforced extruded aluminum panels and coiling roll up technology make it a natural product selection for demanding, resilient designs.



Hörmann Flexon, LLC | Starpointe Business Park | 117 Starpointe Boulevard | Burgettstown, PA 15021-9506  
1-800-365-3667 | 724-385-9150 | Fax: 724-385-9151 | www.hormann.us | Email: info2@hormann.us