Product Data Sheet

SR 9000 LH
Coiling Low-Headroom High-Performance Door
with Insulated Curtain Slats

The Steel Ranger™ high speed, low headroom doors save clearance space while offering the same quality and speed of our conventionally sized products.

- Space saving headroom design for low clearance applications. Springless operation, standard
- Decotherm® Polyurethane insulated slats for reduced energy transfer
- Fast operation, with speeds up to 45 in/sec. open, 30 in/sec. close
- Exclusive foamed anti-abrasion technology considerably reduces wear and noise
- Compact and durable extruded aluminum guide tracks
- Integral non-contact light grid entrapment protection feature
- Emergency operation via chain hoist.
- 4 ¼ in x ⅝ in insulated slats with R-8.0 U-4.1 thermal performance.
- Optional slats with double-pane Duratec® synthetic window elements.
- 5 & 2 year warranty protection plan. 5 yrs. motor/gearbox and slats. 2 yrs. other mech./elec., unlimited cycles.

Technical Data	Imperial	Metric	Remark
Application	Exterior or Interior		
Speed	Opening up to 45 in/s Closing up to 30 in/s	Opening up to 1.14 m/s Closing up to 0.76 m/s	Variable speed based on opening height
Control Panel	Smart Start™ NXT W x H x D (in) 11 ⅝ x 15 ¾ x 8 ½	W x H x D (mm) 295 x 400 x 216	Standard, NEMA Type 4X rated
Roll-up Technology	Hollow-core steel roll tube with precision-welded axles		Standard
Door Construction	High Speed - Rolling Shutter		
Size Range	Width 21 ft 4 in Height 9 ft 1in	Width 6.50 m Height 2.77 m	Width 3 ft 5 in (1.04 m) Height 5 ft 0 in (1.52 m)
Guide Track Profile	W x D (in) 3 ⅝ + (¾ light grid) x 2 ¾	W x D (mm) 92 + (19 light grid) x 70	C-T Profile Shape (W x D)
Roll Tube Diameter	6 ¼ in	159 mm	Hollow core
Solid Slat (Panel) Profile	H x D (in) 4 ¼ x ⅝	H x D (mm) 108 x 16	Concentrical shape
Visible Material Height (Window Size)	H x D (in) 4 ¼ x ⅝	H x D (mm) 108 x 16	Concentrical shape
Overall Width of Vision Area on Slat	Either 7 portals, spaced at 8 ¼ in (210 mm) on center apart, or varying number of portals spaced at 16 ½ in (419 mm) on center up to within 2 in (51 mm) of the ends of the slat.		Portal size 6 ¼ in x 2 ⅞ in (159 mm X 73 mm) Grouping is centered on width of the slat
Required Headroom	HR = 19 in minimum	HR = 483 mm minimum	With Hood Enclosure HR = 21 ¼ in (540 mm)
Drive Mechanics	Direct-drive operator		
Counterbalance System	Not required		
Braking	Control box activated 24V DC brake		Anti-fall back
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		Optional Reversing Edge Optional Photocell Eye
Resistance to Wind Load (Max per Door Width)	Up to 21 ft 4 in, Wind Load Class 2 (9.4 psf or 60 mph) Up to 18 ft 1 in, Wind Load Class 3 (14.5 psf or 75 mph) Up to 15 ft 7 in, Wind Load Class 4 (21 psf or 91 mph)	Up to 5.01 m, Wind Load Class 2 (44 kg/m2 or 27 m/s) Up to 5.52 m, Wind Load Class 3 (70 kg/m2 or 33.5 m/s) Up to 4.75 m, Wind Load Class 4 (102 kg/m2 or 40.6 m/s)	Per standard EN 12424, DASMA 108 Exposure B (Window profiles reduce the resistance to wind loads)
Fire Resistance Rating (Behavior)	Class E		Per EN 13501-1
Manufacturer Warranty	5 & 2 years. Motor / gearbox and Panels (5), all other mech. / elec. (2)		Standard

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Materials & Finishes	Description		Remark
Guide Tracks, Covers & Guards (Guides)	2 mm (avg) extruded aluminum		
Door Headers, Spiral Guides, Drive Shaft Support	Hot-dipped galvanized steel		Zinc, Class G90
Roll Tube	Hot-dipped galvanized steel		Zinc, Class G90
Weather Seals	Vinyl brush lintel		Optional vinyl brush at side frames
Solid Door Slats (Panels)	Decotherm® 0.34 mm Hot-dipped galvanized steel, with foamed-in-place polyurethane insulation core. MicroGrain™ texture. Color RAL 9006		Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 2.0 pcf (33 kg/m3)
Vision Door Slats (Panels)	Decotherm® 0.34 mm Hot-dipped galvanized steel with foamed-in-place polyurethane insulation core. MicroGrain™ texture. Color RAL 9006. Window Polycarbonate, Clear		Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 2.0 pcf (33 kg/m3)
Ventilated Door Slats (Panels)	Decotherm® 0.34 mm Hot-dipped galvanized steel, with foamed-in-place polyurethane insulation core. MicroGrain™ texture. Color RAL 9006. Slotted Portal Black ABS		Open area per Portal = 4.18 Sq. In. Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 2.0 pcf (33 kg/m3)
Electric Door Operator	Cast aluminum		
Control Panel	Baked-on polyester powder coat painted. Color RAL 7035 Light Gray		Optional Stainless Steel Enclosure
Hood and Motor Cover (Optional)	20-ga. Hot-dipped galvanized steel		Zinc, Class G90 (0.9 oz. per SF)
Energy Analysis	**Imperial**	**Metric**	**Remark**
Air Leakage	Class 0		Per EN 12426, ASTM E283 (Without Visions)
Water Penetration	Class 0		Per EN 12425 (Without Visions)
Visible Transmittance	0.86		Window elements only
Solar Heat Gain Coefficient (G-value)	0.83		Window elements only
Thermal Resistance (R-value)	8.0 (ft^2 x°F x hr)/BTU	1.41 (m^2 x K)/W	Calc. per DASMA TDS 163 (Without Visions)
Heat Transfer Coefficient (U-value)	0.13 BTU/(hr x ft^2 x°F)	0.73 W/(m^2 x K)	Test per EN 12428 (Without Visions)
Acoustic Insulation	Rw 18 dB (STC 21 dB)		Per EN ISO 717-7 (Without Visions)
LEED Credit (Potential)	MRc4, EQc5 MRc2; Environmental Product Declarations (2 pts)		USGBC® LEED v4
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 Box to Motor
Control Panel	5 KW variable frequency drive rated for operating voltage		Enclosure: NEMA Type 4X / IP66, UL/CUL Listed
Standard Power Requirement (to Control Box)	230 vAC, 1 PH or 208vAC*- 480 vAC - 600vAC*, 3 PH, 60 Hz		*Transformer may be req'd. Consult factory
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 20 Amp, Class CC		Supplied by Others

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