

# Product Data Sheet



SR 9000 L

High-Performance 'Rolling Steel-Style' Door  
with Insulated Curtain Panels



The Steel Ranger™ high speed, secure line of doors provide strong and durable Decotherm® insulated steel slats with an attractive surface finish.

- Superior performance and reliability over traditional class rolling steel products with springless design
- 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. 5yrs. motor/gearbox and slats. 2 yrs. other mech./elec., unlimited cycles.

Technical Data	Imperial	Metric	Remark
<b>Application</b>	Exterior or Interior		
<b>Speed</b>	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
<b>Control Panel</b>	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
<b>Roll-up Technology</b>	Hollow-core steel roll tube with precision-welded axles		
<b>Door Construction</b>	High Speed - Rolling Shutter		
<b>Size Range</b>	Width = 21 ft 4 in(max), avail. up-to 10 ft 8 in High Width = 20 ft 7 in, avail. up-to 11 ft 6 in High Width = 18 ft 11 in, avail. up-to 12 ft 4 in High Width = 18 ft 1 in, avail. up-to 13 ft 2 in High Width = 16 ft 5 in & below, avail. up-to 14 ft 0 in (max) High	Width = 6.50 m (max), avail. up-to 3.23 m High Width = 6.28 m, avail. up-to 3.5 m High Width = 5.77 m, avail. up-to 3.76 m High Width = 5.52 m, avail. up-to 3.01 m High Width = 5.01 m & below, avail. up-to 4.27 m (max) High	Min. Width 3 ft 5 in (1.04 m)  Min. Height 5 ft 0 in (1.52 m)
<b>Guide Track Profile</b>	W x D (in) 3 ⅝ + (¾ light grid) x 2 ⅝	W x D (mm) 92 + (19 light grid) x 70	C-T Profile Shape (W x D)
<b>Roll Tube Diameter</b>	6 ¼ in	159 mm	Hollow core
<b>Solid Slat (Panel) Profile</b>	H x D (in) 4 ¼ x ⅝	H x D (mm) 108 x	Concentrical shape
<b>Visible Material Height (Window Size)</b>	H x D (in) 4 ¼ x ⅝	H x D (mm) 108 x	Concentrical shape
<b>Overall Width of Vision Area on Slat</b>	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 ⅝ in (159 mm X 73 mm) Grouping is centered on width of the slat
<b>Required Headroom</b>	HR = 24 ½ in minimum	HR = 622 mm minimum	With Hood Enclosure HR = 27 ¼ in (692 mm)
<b>Drive Mechanics</b>	Direct-drive operator		
<b>Counterbalance System</b>	Not required		
<b>Braking</b>	Control box activated 24V DC brake		Anti-fall back
<b>Cycleability / Maintenance</b>	High Cycleability, inspect at 6 mo. intervals. Windows replaceable independent of solid slats.		Consult factory for details
<b>Safety Features</b>	Built-in light grid, chain hoist open / close		Optional Reversing Edge Optional Photocell Eye
<b>Resistance to Wind Load (Max per Door Width)</b>	Up-to 21 ft 4 in, Wind Load Class 2 (9.4 psf or 60 mph) Up-to 19 ft 9 in, Wind Load Class 3 (14.5 psf or 75 mph) Up-to 16 ft 5 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 6.02 m, Wind Load Class 3 (70 kg/m2 or 33.5 m/s) Up-to 5.01 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)
<b>Fire Resistance Rating (Behavior)</b>	Class E		Per EN 13501-1
<b>Manufacturer Warranty</b>	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 (ft² x °F x hr)/BTU	1.41 (m² x K)/W	Calc. per DASMA TDS 163 (Without Visions)
Heat Transfer Coefficient (U-value)	0.13 BTU/(hr x ft² x °F)	0.73 W/(m² 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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