

Product Data Sheet

Speed-Guardian™ 5000 LH U 42

Overhead Low-Headroom High-Performance Door with Insulated Curtain Panels



Features



Speed-Guardian™ Low Headroom, high-speed doors provide excellent capability in low-clearance areas.

- Smart Start™ NXT, NEMA 4X programmable control box.
- Thermally isolated design for reduced heat transfer and optimal energy efficiency.
- Speed: Up to 100"/sec. open, 20"/sec. close.
- Exclusive non-contact guide technology reducing wear and noise.
- Self-supporting hot-dipped galvanized steel guide tracks.
- Integral, non-contact light grid entrapment protection feature. Ensures safety of equipment, people, and vehicles.
- Emergency operation via chain hoist and counterbalance springs.
- Space-saving low headroom LH track application for limited clearance.
- Enhanced 10" 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 | | Remark | |
|--|------------------------------|---|---------------------------|
| Speed-Guardian™ Low Headroom 5000 LH U 42 | | | |
| Rigid, high performance overhead rapid rolling door with headroom clearance saving technology. | | | |
| Application | | Exterior | |
| Speed | | Opening 60" up to 100"/sec. | Closing Up to 20"/sec. |
| Control Panel | | Smart Start™ NXT (11 5/8"W x 15 3/4"H x 8 3/16"D) | |
| Roll-up Technology | | Non-contact overhead guides with Non-contact lintel seal | |
| | Size Range | 18'-0" wide, up-to 16'-0" high Maximum | |
| | Guide Track Profile | 12" x 12 1/2", chamfered corners (interior side) | |
| | Distance Back Formula | DB = 2(DH + 20") + 39 1/2" | |
| | Solid Slat Height & Depth | 9 7/8"H, 1 5/8"D | |
| | Vision Slat Height (Glazing) | 7" | |
| Overhead Rolling | Mullions | None up-to 120" wide One up-to 197" wide Two if ≥ 198" wide | |
| Required Headroom | | 20" Minimum | |
| Drive Mechanism | | Direct-drive operator with chain lift mechanism | |
| Counterbalance System | | Belt mechanism and springs | |
| Braking | | Control box activated 24V DC brake | |
| Cycleability / Maintenance | | High / inspect per ea. 50,000 cycles or 6 mo. Windows replaceable independent of solid slats | |
| Actuators | | Manually Operated Push Button Stations Touchless Motion/Presence Sensors | |
| Safety Features | | Built-in light grid, chain hoist open/close | |
| Resistance to Wind Load | | DW ≤ 18'-0", Class 5 max. 93mph (21psf; 115mph max.) | |
| Fire Resistance Rating | | Non-rated, Non-conforming exit | |
| Warranty | | 5, 2, & 7 years. Motor/gearbox and Panels (5), all other mech./elec. (2), vision slats (7) | |

Product Data Sheet (Continued)

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| Materials and Finishes | | |
|--|--|---|
| Guide Tracks & 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 Slats | 22-ga. Hot-dipped galvanized steel, with foamed-in-place polyurethane insulation core. MicroGrain™ texture exterior, Stucco texture interior. Color RAL 9006 | Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 11pcf |
| Vision Door Slats | 1" Double-pane, acrylic, clear or tinted (Obscured White, Smoke Gray) and Duratec® abrasion-resistant coating | 1 5/8" Thick Vision Panel frame, extruded anodized aluminum |
| Ventilation Door Slats | 1" Double-walled, perforated clear anodized aluminum, 1/2" square press-punched grid pattern | 1 5/8" Thick Ventilation Panel frame, extruded anodized aluminum Open area 56.3% |
| Bottom Profile Door Slat | 22-ga. Interlocking flat-faced, insulated steel panel, with weather seal loop | -- |
| 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 | Not Available | -- |
| Energy Analysis | | |
| Air Permeability (leakage) | 0.6 cfm/ft² (12 m³h/m²), 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) |
| Visible Transmittance (Tvis) | 0.91% | Per calc ANSI/NFRC 200-2014 (Clear Vision Slats) |
| Solar Heat Gain Coefficient (SHGC) | 0.75% | Per calc ANSI/NFRC 200-2014 (Clear Vision Slats) |
| Thermal Resistance (R-value) | Solid: R 13.6, Vision: R 0.23 | Per test EN 717-1, DASMA TDS-163 (Without Visions) |
| Heat Transfer Coefficient (U-value) | Solid: U 1.04, Vision: U 4.41 | Per test EN 12667: 199997-11, DASMA TDS-105 |
| Acoustic Insulation | Solid: STC 30, R _w 26 dB, Vision: STC 34, R _w 31 dB | Per test EN 717-2, ASTM E90 (Without Visions) |
| LEED Credit (Potential) | EAc2, MRc1, MRc3, IEQc2, IEQc4, INc1, RPc1 | USGBC® LEED v4 |
| Electrical | | |
| Electric Door Operator (Motor) | 2.0 HP GfA Elektromaten F18 | NEMA Type 3 / IP54 |
| Operating Voltage | 3 PH, 132v or 230v | -- |
| Control Panel | 5 kW variable frequency drive rated for operating voltage | NEMA Type 4X / IP66, UL/CUL Listed |
| Standard Power Requirement | 208vAC - 600vAC, 3 PH, 60 Hz | -- |
| Full Load Amps | 13.3 A | Operator |
| Disconnect | Fuse: 20 Amp, Class K | Supplied by Others |

Hörmann's Speed-Guardian™ Low Headroom, high speed, security line of doors is characterized by an attractive, elegant design with excellent low clearance capability. Double-pane vision panels provide daylighting and open views with fast operating speeds. Thanks to non-contact roll-up technology along with a standard built-in light grid, the Speed-Guardian™ is a proven industry leader for both safety and longevity with versatility expressed in its range of applications in minimal headroom spaces.

The Speed-Guardian™ Low Headroom, High speed, security line of doors provide excellent low clearance capabilities with pleasing aesthetic appeal.



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