



# High Performance Doors

Fabric and rigid high speed door models  
for various industries and applications

**HÖRMANN**



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SG 5000 C CV 42	42 mm complete view panel
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SG 5000 LH U 42	42 mm insulated with track application LH (low headroom)
SG 5000 H U 42	42 mm insulated with track application H (high-lift)
SG 5000 V U 42	42 mm insulated with track application V (vertical-lift)
SG 5000 H U 67	67 mm insulated with track application H (high-lift)
SG 4000 A Acoustic 42	Acoustic-rated with circular track application
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SC 1400 MP	Machine protection
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SM 1600 L Eco <sup>19</sup>	Economically priced
SM 1600 L <sup>19</sup>	Interior or exterior high cycle
SM 1600 XL <sup>19</sup>	Up to 20'0" w x 20'0" h
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# Hörmann Brand Quality

Reliable and oriented towards the future



## High-speed progress

Highly-qualified technicians are constantly working on further developing and improving our products in order to meet the demands of the market. This results in economical high-speed door designs of the highest standard.



## Precise production

Innovative production processes are a guarantee for steadily increasing product quality. An example: the automated fabric panel material carousel enables precise sizing and cutting of individual fabric door panels.





Hörmann High Performance Doors, Pittsburgh, Pennsylvania, is dedicated to innovation, quality and customer service. German engineered doors incorporate proven, state-of-the-art technology, at work every day with over 2 million doors installed worldwide. Our customers can expect an impressive value for their investment.

Carefully designed and manufactured products, quality workmanship and great attention to detail, are what separate us from the rest and make our door systems sound investments.



Our exclusive 5 & 2 Warranty is our promise as a manufacturer that you can trust our products to be there for many years to come.

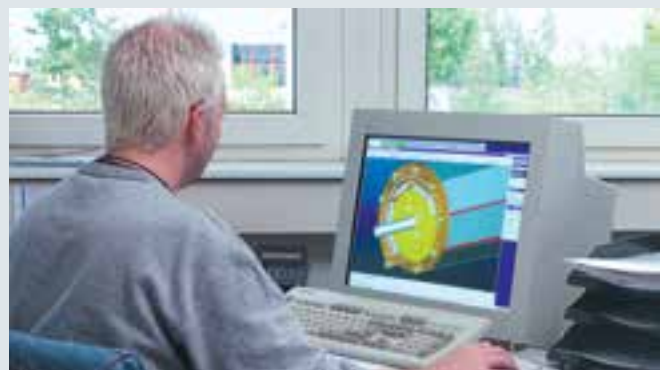


It goes without saying that spare parts for doors, operators and controls are Hörmann parts that come with a guaranteed availability of 10 years.



### Competent advice

Experienced representatives within our customer-oriented sales group assist you through every step of the project; from the planning stage, through answering technical questions, up to the project completion and beyond. Complete product documentation is not only available in printed form but is always accessible and up-to-date at [www.hormann.us](http://www.hormann.us).



### Reliable field support

Our technical and field support department is available 365 days a year, seven days a week, which means that we are never far away. This is a major advantage in terms of controlling downtime, maintenance and repairs.

# Sustainable Production

## For future-oriented construction



### **Environmental commitment**

Environmental commitment has been a part of our corporate culture for decades. From our manufacturing processes to the products we make. In everything we do, we strive to minimize energy and use of resources through efficient processes, long-lasting quality and innovative engineering.

### **Sustainably produced: Hörmann's high-speed doors**

#### **Ecological quality**

Environmentally-friendly production through a comprehensive energy management system.

#### **Economical quality**

A long service life and low maintenance costs thanks to the use of high-quality materials.

#### **Process quality**

Resource-conserving production processes through optimized material use.



# Incorporate Door Designs Into Specific Building Plans

With the Hörmann BIM with Autodesk® Revit® for architects and design professionals



## Exclusive BIM content from Hörmann Product drawings and details available for download

Planning with Hörmann High Performance Doors' products is now even easier thanks to modern, user-friendly BIM content with Autodesk® Revit®. Real-time information and design feedback is possible using our fully parametric door details. Our Autodesk® Revit® doors are graphically adjustable in width and height for added convenience to the user in a 2D plan. Render-Ready content includes properties that are visually precise and analytically correct.

BIM content with Autodesk® Revit® is available to you for download free-of-charge at [www.hormann.us](http://www.hormann.us).

## Track a building's lifecycle For sustainable planning

Hörmann's BIM design process ultimately helps building owners streamline building operations and maintenance. Design professionals create the door designs. Upon building construction, the architect hands-off the design models to the contractor. Upon building completion, the contractor hands-off the design models to the owner, who in turn is able to use the details to automate door maintenance and warranty tracking through an organized list of door models and locations.





# Speed-Guardian™ 5000 Rigid High Performance Doors

With insulating sections for a high thermal insulation



Optional RAL color shown. Optional hood shown.



### **Optimized processes**

The fast opening and closing speeds of high-speed rigid doors optimize work processes and significantly accelerate logistics processes. Depending on the door model, the hot-galvanized, double-skinned sections are guided into a circular bracket or into horizontal or vertical tracks.

### **Excellent thermal insulation**

The sturdy steel sections of the doors have thermal breaks and are PU-foamed. As a result you benefit from excellent thermal values: R-value of 13.6 and U-value of 1.04, and minimize energy loss. For the special applications that require additional energy efficiency, high-speed doors with 67 mm (2-5/8") thick sections are the first choice.

### **Reliable protection**

High speeds require special protection precautions. The solution: a standard light curtain that is built into the guide tracks. The built-in light curtain is integral with the guide tracks making it less susceptible to damage by passing loads and eliminates the need for additional protection devices such as a reversing edge and photocell. This system enhances protection of personnel and goods and drastically reduces the likelihood of damage and repair to other parts of the door, saving on maintenance costs when used in conjunction with motion or presence detectors.

# Choose the Speed-Guardian™ 5000

## Quality features of a cutting edge door system



# 1

## Protection is standard

### Non-contact protection

The standard light curtain is integral with the guide tracks making it less susceptible to damage and eliminates the need for additional protection devices such as a reversing edge and photocell. This system enhances protection of personnel and vehicles, drastically reducing the likelihood of damage, saving on maintenance costs when used in conjunction with motion or presence detectors.



# 2

## Optimized operations

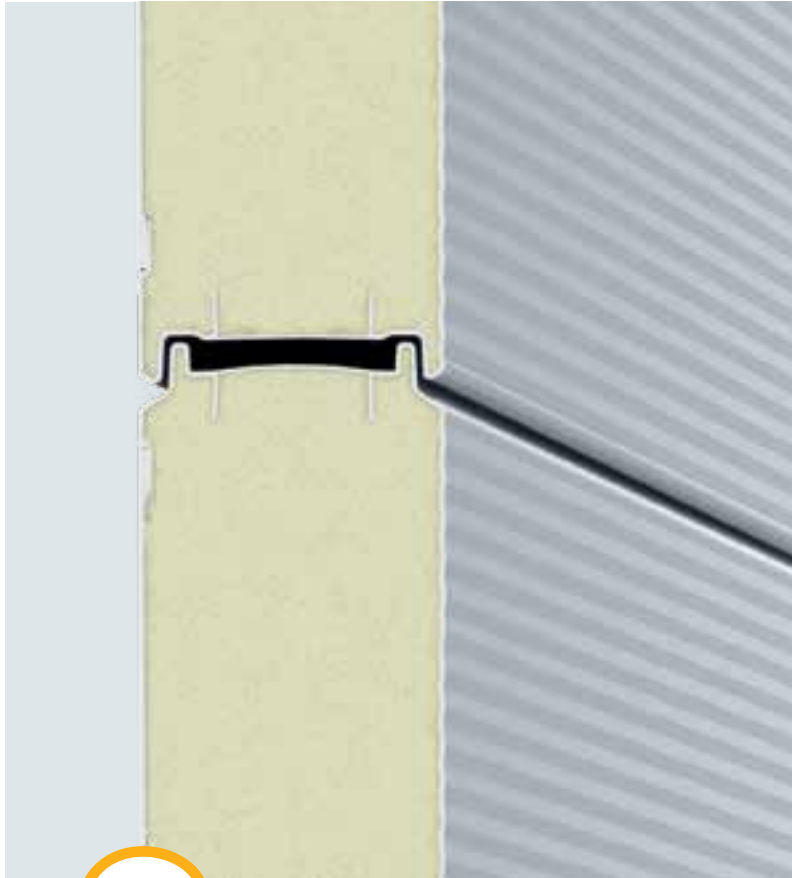
### Long service life and high efficiency as standard

The frequency converter control box takes stress off the entire door mechanism, guaranteeing nearly wear-free, quiet door travel. Fast opening and closing speeds optimize operations and reduce heating and air conditioning loss. In addition, they relieve the entire door mechanism through the smooth starting and braking action which considerably extends the service life of the door. For larger Speed-Guardian™ models, the door travel is supported by springs, and for H and V track models by wear-free counter weights.



**Individual slats may be replaced  
without disassembling the entire panel**

**Only from Hörmann**



**3**

**Efficient thermal  
insulation**

**Uniformly foamed steel sections**

The galvanized, double-skinned sections with PU rigid foam infill offer an especially high level of thermal insulation. The doors are supplied as standard in RAL 9006. The exterior is characterized by the fine Micrograin lines, on the interior the sections are Stucco-textured.

**Efficient slat replacement possible thanks to updated slat connectors**

Updated slat connectors make it possible to replace individual slats without the need to disassemble the entire panel. This added efficiency greatly reduces the amount of downtime for repairs.

**4**

**A permanently  
clear view**



**Standard Duratec® glazing**

Duratec® glazing guarantees maximum scratch resistance despite heavy use in rough industrial environments. The special surface coating protects the pane from scratches and damage caused by cleaning. In addition to clear vision slats, all 5000 models have optional tinted / privacy vision slats available: Obscured White or Smoke Gray. Perforated vision slats are also optional.

# Speed-Guardian™ 5000 Rigid High Performance Doors

With insulating sections for a high thermal insulation



## Quick and well-insulated

The fast opening and closing speeds reduce heat and air conditioning loss.

## The space-saving track application LH (low headroom)

For limited headroom above the door opening, we recommend track application LH.





**The adjustable H (high-lift) and V (vertical-lift) track applications**

These allow the door to be installed behind or above supply lines, for example. Door travel is supported by low-wear counter weights.

**Low profile model (LP) for areas with limited side room**  
This configuration requires only 8" of side room clearance for the guide tracks (Complete view CV panel shown).





# Speed-Guardian™ 5000 Rigid High Performance Doors

## Section with thermal break and effective thermal insulation

### 42 mm steel sandwich slat with thermal break

The 42 mm-thick (1-5/8") x 10" high PU-foamed steel sections are particularly robust and offer excellent thermal insulation.

### 67 mm steel sandwich slat with thermal break

For higher thermal insulation requirements we recommend the 67 mm-thick (2-5/8") x 15" high PU-foamed steel sections with a thermal insulation value of up to an R-value=17.5.

### Acoustic slat

For the special requirements of acoustic insulation, The Speed-Guardian™ 4000 A Acoustic high-speed door is equipped with aluminium hollow profiles. The hollow profiles are filled with 5 mm PVC and 30 mm PU-foam, providing acoustic insulation up to 31 dB.

### Hurricane rated Class 4 panel

The Speed-Guardian™ 4000 U Hurricane with a solid panel is approved for use in areas that require a hurricane rated door. The attractive 1-5/8" thick door panel made of uninsulated anodized aluminum construction, with internal reinforcements and provides a durable and lasting surface. Approval: Missile Level D, Wind Zone 4/Class 4.

### Surface finishes and colors

The 42 and 67 mm-thick sections are characterized with an elegant Micrograin™ surface on the exterior and Stucco surface on the interior – exterior and interior are based on RAL 9006 color as standard. An optional wet paint process is available in over 200 RAL colors. Wood grain surface imprints are optional in shades of oak, cherry or maple.

### Optional vision slats

Three styles of vision slats are available: clear, perforated or tinted. The tinted slats are a perfect choice where filtered light is required within the interior side, but privacy from the outside to inside view is desired. Perforated slats are selected for use in applications where ventilation is necessary, such as in parking garages. See photo on page 12.

### Complete view (CV) panel

The CV model is a complete panel of vision slats that allows more light into the building and more visibility from inside to outside. The attractive design is a popular choice of retail automotive facilities for its aesthetic appeal and security. See photo on page 13.



Double-skinned steel sandwich slats with thermal break in two thicknesses: 42 mm (1-5/8"), 67 mm (2-5/8"), and acoustic slat



Optional wood grain surface imprints in shades of oak, cherry or maple



Tinted vision options: Obscured White or Smoke Gray



Hurricane rated door, Missile Level D Wind Zone 4



Model 5000 CV TD HR with tandem solid shutter door meets test-protocol for Wind Zone 5

## Features

### Door slat

Design	Steel sandwich construction, PU-foamed	Steel sandwich construction, PU-foamed	Aluminium hollow 5 mm UPVC / 30 mm PU	Aluminum hollow non-insulated
Depth inches (mm)	1-5/8" (42)	2-5/8" (67)	1-5/8" (42)	1-5/8" (42)
Section height inches (mm)	10" (250)	15" (375)	9" (225)	9" (225)
Exterior / interior surface	Micrograin / Stucco	Micrograin / Stucco	Smooth	Smooth
Standard color	RAL 9006	RAL 9006	C0 anodized	C0 anodized
Duratec glazing, double-pane vision	●	–	–	–
Duratec glazing, triple-pane vision	–	●	–	–

### Operating speeds

Max. opening (in/s)	80*	80	80	80
Closing approx. (in/s)	20	20	20	20

### Resistance to wind load

In closed position	Consult factory	Consult factory	–	Missile Level D Wind Zone 4
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### Resistance to water penetration (EN 12489)

	Class 2	–	–	–
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### Air permeability (EN 12427)

	Class 2	–	–	–
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### Acoustic insulation (EN 717-2) without vision

R = dB	26	26	31	–
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### Thermal insulation (EN 717-1) without vision

U-value in W/(m <sup>2</sup> ·K)	1.04			
U-value (imperial) BTU/(h·ft <sup>2</sup> ·°F)	0.18	Consult factory	–	–

### Guide Tracks

Galvanized steel	●	●	●	●
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### Hood

Galvanized steel	○	○	○	○
Stainless steel	○	○	○	○
Light curtain built into tracks	●	●	●	●

### Control\*\*\*

Smart Start™ NXT NEMA 4X** (3-phase, 208 v to 575 v)	●	●	●	●
Step-up transformer**	○	○	○	○
HFCB NEMA 3 Smart Start™ NXT** (1-phase, 230 v only)	○	○	○	○

### Emergency opening

Chain hoist	●	●	●	●
Hand crank	○	○	○	○

\* Speed-Guardian™ 5000 LP 42: Opening speed is 60 IPS.

\*\* Speed-Guardian™ 5000 LP 42: If 230 v / 3-phase voltage required, a transformer is included. 1-phase unavailable.

\*\*\* Certain applications may require a transformer. Consult factory.

● = Standard ○ = Optional – = Unavailable

All colors based on RAL.

# Speed-Guardian™ 5000 Rigid High Performance Doors

Individual track designs for every application

## The compact circular guide track application

The sections are securely guided into a spiral bracket without any contact. With the high-performance frequency converter control box and the chain mechanism with spring compensation, the door reaches an opening speed of up to 80" / second. The Speed-Guardian™ 5000 U 42 may also be installed externally.



Track application C (coiling)



Track application V (vertical-lift)

## The space-saving low headroom LH track application

We recommend this track application for areas where there is limited clearance above the opening. A chain mechanism with spring compensation runs the sections into horizontal tracks. The LH track requires only 20" of headroom clearance.



Track application LH (low headroom)



Track application LP (low profile)

## The adjustable high lift H track application

The panel is guided in horizontal tracks and can be diverted flexibly depending on the application. Thus, the door may be installed behind or above supply lines and crane tracks. Thanks to the belt mechanism with counter weights, the door is especially low-wear and long-lasting.



Track application H (high-lift)

## The wear-free vertical lift V track application

The sections run vertically along the building wall allowing for very quiet and wear-free door movement. The belt mechanism with counter weights guarantee a long service life with constant use.

## The low profile LP track application

Requiring only 8" of clearance for the guide tracks on each side of the door opening, the LP springless track design fits into applications where there is little additional space around the opening.



## Features

Track configuration	Track application C (coiling)	Track application LH (low headroom)	Track application H (high-lift)	Track application V (vertical-lift)
<b>Counterbalance</b>				
Chain mechanism and springs	●	●	-	-
Belt mechanism and counter weights	-	-	●	●
<b>1-5/8" (42 mm) slat</b>				
Door type	<b>SG 5000 C U 42 / SG 5000 C U LP 42 / SG 5000 C CV 42</b>	<b>SG 5000 LH 42</b>	<b>SG 5000 H 42*</b>	<b>SG 5000 V 42</b>
Max. width	21'4" or 24'0" / 16'0" / 20'0"	16'0"	16'0"	16'0"
Max. height	21'4" or 20'0" / 16'0" / 14'0"	16'0"	21'4"	21'4"
Min. required headroom	36-3/8" / 34-7/8" / 36-3/8"	20"	30"	2X LDH + 23"
<b>2-5/8" (67 mm) slat</b>				
Door type	-	-	<b>SG 5000 H 67*</b>	-
Max. width			16'0"	
Max. height			21'0"	
Min. required headroom			30"	
<b>1-5/8" (42 mm) aluminium hollow profile</b>				
Door type	<b>SG 4000 A Acoustic 42</b>	-	<b>SG 4000 H Acoustic 42</b>	<b>SG 4000 V Acoustic 42</b>
Max. width	16'0"		16'0"	16'0"
Max. height	16'0"		16'0"	16'0"
Min. required headroom	36-3/8"		39"	2X LDH + 23"
<b>1-5/8" (42 mm) aluminium hollow profile with internal reinforcements to achieve hurricane rating Missile Level D, Wind Zone 4</b>				
Door type	<b>SG 4000 C HR Hurricane 42**</b>	-	-	-
Max. width	16'0"			
Max. height	20'0"			
Min. required headroom	36-3/8"			

\*Currently, the 2-5/8" (67 mm) w x 15" h slats are only with the H high-lift track configuration

\*\*SG 5000 CV TD HR Model with tandem solid shutter door meets test-protocol for Florida Wind Zone 5

● = Standard ○ = Optional - = Unavailable  
LDH = clear opening height

All colors based on RAL.



# Speed-Guardian™ 5000 LS Rigid Low Speed

## Low speed operation - High performance appearance

### Matching models without unnecessary cost

Maintain a consistent appearance 360° around the building and satisfy the requirements of everyone involved in the project: owner, architect and contractor. This is the Speed-Guardian™ model to choose for areas where looks are mandatory, but fast operating speeds are not. The Speed-Guardian™ 5000 LS (low speed) offers the same aesthetics, at a lower price, than the Speed-Guardian™ 5000 high speed models, and opens at 8" per second. Example: Peripheral service entrances and exits at retail automotive dealerships are where this door will shine, with moderate cycling speeds and all of the high performance features such as insulated panel, double-pane scratch resistant vision, security and matching RAL colors (optional) that our other high speed Speed-Guardian™ models offer.

### Model SG 5000 LS CV Complete view panel

The CV model has a complete panel of vision slats as standard. This panel allows more light into the building and more visibility from inside to outside and has solid aluminum top and bottom slats, in place of the galvanized steel slats that are standard on the base model.

### Optional vision slats - Clear or tinted

The insulated windows are coated with our exclusive Duratec® finish which prevents marks and scratches caused by cleaning, and retain clear view after many cleanings. The synthetic double panes provide excellent thermal insulation. Three styles of vision slats are available: clear, perforated or tinted. The tinted slats are a perfect choice where filtered light is required within the interior side, but privacy from the outside to inside view is desired. Individual windows may be replaced without replacing the entire vision slat.

### Thermal efficiency and attractive panel

The 42 mm-thick sections are characterized with an elegant Micrograin™ surface on the exterior and Stucco surface on the interior. Exterior and interior are based on RAL 9006 color as standard. As an option, all Speed-Guardian™ 5000 LS models are available in over 200 RAL colors. Solid slats have an R-value = 13.6.

### Trolley or jackshaft motor & spring operation

A trolley motor is standard along with 15,000 cycle springs. High cycle springs are available, 25,000, 50,000, or 100,000, as an option for locations with heavier use.

### Three track configurations available

The standard lift model with 2" guide tracks requires 15" of headroom clearance for doors up to 12'0" high, and 16-1/2" of headroom clearance for doors from 12'1" to 16'0" high. High lift and vertical lift tracks are options for applications with limited mounting space around the opening. The high lift configuration with 2" tracks requires only 8-1/4" of headroom clearance for doors up to 14'0" high, and 9-1/4" of headroom clearance for doors over 14'0" high. The vertical lift track option runs vertically along the building wall. 3" tracks and hardware are optional on all three track configurations.



Model SG 5000 LS CV low speed complete view



Model SG 5000 LSS with solid panel and select number of vision slats



Double-pane insulated windows slats with exclusive Duratec® finish



Standard lift with 2" tracks



Retail automotive applications are ideal for installing a combination of the SG 5000 high speed roll-up door and the SG 5000 low speed door

### Activation options

Included as standard: remote control with 1-button remote. Other options: 3-button remote, motion detector, traffic light package, traffic light package with induction loop detector.

Exclusive 20 year warranty: 20 years on rollers, tracks and hinges; 5 years on panel; 7 years on vision slats; 1 year on all other mechanical and electrical components.



## Features

Model	SG 5000 LSS Standard Lift  Standard Model	SG 5000 LS CV 42 Standard Lift Complete View Standard Model	SG 5000 LS H 42 High Lift  Optional Model	SG 5000 LS H CV 42 High Lift Complete View Optional Model	SG 5000 LS V 42 Vertical Lift  Optional Model	SG 5000 LS V CV 42 Vertical Lift Complete View Optional Model
<b>Suitable application</b>	Interior mount only on interior or exterior opening					
<b>Maximum opening dimensions</b>	16'0" w x 16'0" h*	16'0" w x 16'0" h*	16'0" w x 16'0" h*	16'0" w x 16'0" h*	16'0" w x 16'0" h*	16'0" w x 16'0" h*
<b>Panel</b>						
Depth inches (mm)	1-5/8" (42)	1-5/8" (42)	1-5/8" (42)	1-5/8" (42)	1-5/8" (42)	1-5/8" (42)
Section height inches (mm)	20" (600)**	20" (600)**	20" (600)**	20" (600)**	20" (600)**	20" (600)**
Exterior / interior surface	Micrograin / Stucco	Smooth	Micrograin / Stucco	Smooth	Micrograin / Stucco	Smooth
Standard color	RAL 9006	C0 anodized	RAL 9006	C0 anodized	RAL 9006	C0 anodized
Vision: Double-pane slats	○	●	○	●	○	●
<b>Operating speeds</b>						
Max. opening (in/s)	8"	8"	8"	8"	8"	8"
Closing approx. (in/s)	8"	8"	8"	8"	8"	8"
<b>Resistance to wind load in closed position</b>	Consult factory	Consult factory	Consult factory	Consult factory	Consult factory	Consult factory
<b>Resistance to water penetration (EN 12489)</b>	Class 2	—	Class 2	—	Class 2	—
<b>Air permeability (EN 12427)</b>	Class 2	—	Class 2	—	Class 2	—
<b>Acoustic insulation (EN 717-2) no vision R = dB</b>	26	—	26	—	26	—
<b>Thermal insulation (EN 717-1) no vision</b>						
U-value (metric) in W/(m <sup>2</sup> K)	1.04	4.41	1.04	4.41	1.04	4.41
U-value (imperial) in BTU/(h-ft <sup>2</sup> ·°F)	0.18	0.77	0.18	0.77	0.18	0.77
<b>R-value</b>	13.6	—	13.6	—	13.6	—
<b>Guide tracks</b>						
Galvanized steel 2"	●	●	●	●	●	●
Galvanized steel 3"	○	○	○	○	○	○
<b>Required headroom</b>						
2" guide tracks	DH ≤ 12'0"=15"	DH ≤ 12'0"=15"	DH ≤ 14'0"= 8-1/4"	DH ≤ 14'0"= 8-1/4"	DH + 9"	DH + 9"
2" guide tracks	DH > 12'0"=16-1/2"	DH > 12'0"=16-1/2"	DH > 14'0"= 9-1/4"	DH > 14'0"= 9-1/4"	(Backroom 16")	(Backroom 16")
3" guide tracks	DH ≤ 12'0"=16"	DH ≤ 12'0"=16"	DH ≤ 14'0"= 9-1/4"	DH ≤ 14'0"= 9-1/4"	DH + 9"	DH + 9"
3" guide tracks	DH > 12'0"=17-1/2"	DH > 12'0"=17-1/2"	DH > 14'0"=10-1/4"	DH > 14'0"=10-1/4"	(Backroom 16")	(Backroom 16")
<b>Springs</b>						
15,000 cycle	●	●	●	●	●	●
25,000 cycle	○	○	○	○	○	○
50,000 cycle	○	○	○	○	○	○
100,000 cycle	○	○	○	○	○	○
<b>Motor</b>						
1/2 HP trolley	●	●	—	—	—	—
Hoist with chain fall	—	—	●	●	●	●
<b>Available voltage</b>						
115 v 1-phase	●	●	●	●	●	●
230 v 1-phase	●	●	●	●	●	●
208 / 230 v or 480 v 3-phase	●	●	●	●	●	●
<b>Protection devices</b>						
Thru-beam photo eyes	●	●	●	●	●	●
Light curtain	○	○	○	○	○	○

● = Standard ○ = Optional — = Unavailable

\* Consult factory for door openings larger than 16'0" h x 16'0" w \*\* (2) 10" high slats are connected to form each 20" high section

# Steel Ranger™ 9000 L and LH Rigid High Speed Rolling Steel Doors

High performance rolling steel door ideal replacement for old fashioned rolling doors







## **Benefits**

The Steel Ranger™ 9000 L high performance rolling steel door is the perfect replacement for old fashioned rolling steel doors in areas where the doors are cycled several times per hour. The panel color matches our standard Speed-Guardian™ 5000 Series RAL 9006, which makes it easy to coordinate the two products into one building design. Optional RAL paint colors are available.

## **Fast and efficient operation**

With a rapid opening speed of 45” per second, the Steel Ranger™ 9000 L and 9000 LH models open up to 5-1/2 times faster than a traditional rolling steel door. Our faster operation will contribute to energy savings and reduced employee wait times, ultimately saving money. The NEMA 4X, Smart Start™ NXT 3-phase control box is standard. The Steel Ranger™ 9000 LS low speed model is an economical solution for low cycle locations.

## **Exclusive 500,000 cycle warranty**

The 9000 L and 9000 LH models have a direct-drive, springless design that enables us to include an exciting 500,000 cycle warranty, ensuring dependable, maintenance-free operation that progressive companies desire. Competitive models have springs with a 20,000 cycle capability as standard, and higher cycle springs are optional add-ons.

## **Individual solutions**

Various demands require individual door solutions. Based on our expert know-how, we have designed this door based upon customer-specific solutions for special applications such as parking garages, emergency service, retail automotive, warehouses and more.

# Steel Ranger™ 9000 L and LH High Speed Rolling Steel Doors

High performance rolling steel door ideal replacement for old fashioned rolling doors

## Steel Ranger™ 9000 L and LH **1**

The Steel Ranger™ 9000 L and LH are a class above traditional rolling steel doors. With direct-drive, springless operation, extremely strong panel and fast operating speeds, this revolutionary high performance rolling steel door is the model to choose as an alternative to traditional rolling steel doors in high cycle applications.

Our springless design has few moving parts, which translates into maintenance free operation. The Steel Ranger's compact footprint fits into even the most confined locations. The low headroom track design is available when applications have limited mounting space above the door opening.

## Sleek and attractive slats **2**

Extremely strong and durable, our insulated Decotherm® 29 gauge steel panel slats (Standard color: RAL 9006) are constructed of a polyurethane core, covered with a steel skin that is covered with a zinc coating, a base coating and a top / finish coating. This special layering process makes the panel especially resistant to damage. Vision slats are optional. Window positioning options: compact or full-width. Patented noise reduction pads promote quiet operation.

## Built-in light curtain **3**

A standard, built-in light curtain is integral within the low-profile, aluminum guide tracks and protects personnel and goods from contact with the door (optional on model SR 9000 LS). Light beams shine across the opening, and if a beam is interrupted, the door is automatically reversed. In addition to protecting people and goods, this system reduces the likelihood of damage to the door which saves on maintenance costs and downtime.



A 12'0" high door opens in just 3.6 seconds!



## Features

● = Standard ○ = Optional

Door type	SR 9000 L	SR 9000 LH Low Headroom
<b>Suitable application</b>	Interior or exterior	Interior or exterior
<b>Track configuration</b>		
Vertical - aluminum 4" w x 3" proj.	●	-
Low headroom - aluminum 4" w x 3" proj.	-	●
<b>Size range</b>		
Max. width x height	16'0" w x 14'0" h or 21'0" w x 10'8" h	21'0" w x 9'0" h
Min. required headroom std.	27"	18-1/2"
Min. required headroom w/hood	32"	21-1/4"
<b>Operating speeds</b>		
Max. opening (in/s)	45	45
Closing approx. (in/s)	20	20
<b>Resistance to windload in closed position</b>		
Panel in closed position	Consult factory	Consult factory
<b>Thermal insulation without vision</b>		
U-value (metric) in W/(m <sup>2</sup> ·K)	0.73	0.73
U-value (imperial) in BTU/(h·ft <sup>2</sup> ·°F)	0.13	0.13
<b>Panel</b>		
11/16" thick x 4.3" high DecoTherm® 29 ga. steel slats with polyurethane core covered with triple layered skin	●	●
Wet paint one or both sides of panel - Available for applications that require it. Painted product not recommended and manufacturer's warranty not applicable	○	○
Patented noise reduction pads on interior side	●	●
<b>Vision</b>		
5.9" wide x 2.16" high double-pane polycarbonate rectangular windows Window positioning, compact or full-width	○	○
<b>Hood - galvanized</b>	○	○
<b>Thru beam photoeye</b>	-	-
<b>Light curtain built into tracks</b>	●	●
<b>Control</b>		
Smart Start™ NXT NEMA 4X (3-phase, 208 v to 575 v)	●	●
Step-up transformer	○	○
HFCB NEMA 3 Smart Start™ NXT (1-phase, 230 v only)	○	○
NEMA 4 (1-phase, 230 v)	○	○
<b>Emergency opening</b>		
Chain hoist	●	●
Hand crank	○	○

# Steel Ranger™ 9500 LS Low Speed Rolling Steel Doors

Springless insulated rolling steel door for door openings up to 24'0" wide x 16'0" high

## Compact guide tracks fit anywhere **1**

Our springless design allows for compact aluminum guide tracks that require sideroom of only 3" for all door sizes. They are installed quickly and easily, directly to the wall structure. The operator and bearing brackets require just 11" and 7" of sideroom clearance, respectively. Competitive models have springs with a 25,000 cycle capability as standard, and higher cycle springs are optional add-ons.

## Insulated Decootherm® slats

Extremely strong and durable, our insulated Decootherm® 29 gauge steel panel slats (Standard color: RAL 9006) are constructed of a polyurethane core, covered with a steel skin that is covered with a zinc coating, a base coating and a top / finish coating. This special layering process makes the panel especially resistant to damage. Vision slats are optional. Window positioning options: compact or full-width.

## Powerful direct drive operator **2**

An effective solution for interior or exterior door openings, a powerful direct-drive, variable speed operator may be mounted either vertically or horizontally as standard. This flexible mounting configuration accommodates applications with unusual sideroom requirements. If an optional hood required, the operator mounting direction will be required at order placement.

## Minimum wear guide channel **3**

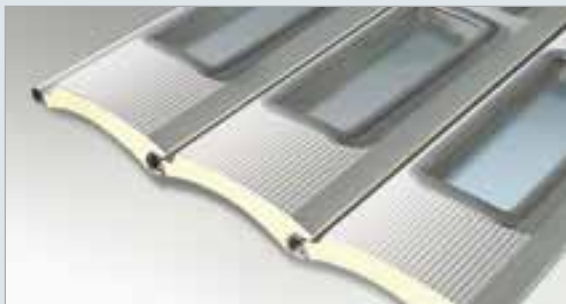
As standard, the guide tracks have a built-in, smooth vinyl guide channel which reduces wear and friction on the door panel. Track funnel guides direct the door panel into the tracks and are easily replaced after about 80,000 cycles.

## Easy installation

The door construction is a ready-to-install unit consisting of the curtain, roll tube and mounting brackets. The door components can easily be positioned on the building structure using a line and mounting hole template. Side guide markings ensure quick adjustment of the door's limit positions. Stackable packaging units also optimize transportation to the job site.

## Optional hood for weather protection

An optional steel hood covering the roll tube and operator is available for effective protection against dirt and /or exterior mounting applications.



**Aesthetically pleasing insulated Decootherm® panel**  
Sleek insulated Decootherm® panel is attractive and durable





## Features

● = Standard ○ = Optional

### SR 9500 LS

<b>Suitable application</b>	Interior or exterior
<b>Track configuration</b>	
Standard roll-up	●
<b>Size range</b>	
Max. width x height	24'0" w x 16'0" h
Min. required headroom standard track	27'
<b>Operating speeds</b>	
Max. opening (in/s)	8
Closing approx. (in/s)	8
<b>Thermal insulation no vision</b>	
U-value (metric) in W/(m <sup>2</sup> K)	0.73
U-value (imperial) in BTU/(h·ft <sup>2</sup> ·°F)	0.13
<b>Panel</b>	
11/16" thick x 4.3" high Decotherm <sup>®</sup> 29 ga. steel slats with polyurethane core covered with triple layered skin	●
Wet paint one or both sides of panel - Available for applications that require it. Painted product not recommended and manufacturer's warranty not applicable.	○
<b>Vision</b>	
5.9" wide x 2.16" high double-pane polycarbonate rectangular windows. Window positioning, compact or full-width.	○
<b>Guide Tracks</b>	
Aluminum 4" wide x 3" projection	●
<b>Hood - galvanized</b>	
	○
<b>Operation and protection devices</b>	
Constant contact push button (no reversing edge, photoeye or light curtain)	●
Automatic with UL 325 NEMA 4X thru beam photoeye	○
Automatic with wireless pneumatic reversing edge and UL 325 NEMA 4X thru beam photoeye	○
Automatic with light curtain built into tracks (no reversing edge or photoeye)	○
<b>Control</b>	
NEMA 4 relay control box (3-phase, 480 v / 60 Hz standard. If 208 v / 60 Hz required, a transformer is included )	●
<b>Emergency opening</b>	
Chain hoist	●

## Exclusive 5 & 2 warranty

The springless design enables us to include our exciting 5 & 2 Warranty (5-years on mechanical components, 2-years on electrical components), ensuring dependable operation that progressive companies desire.

# Speed-Commander™ Series Fabric High Performance Doors

Interior locations and special applications





## **Benefits**

Fabric high performance doors speed up workflow and reduce energy costs. Our doors have been designed with protection features that promote efficiency and sustainability. A standard built-in light curtain eliminates the need for additional protection mechanisms, such as a panel reversing edge, which supports easy installation and minimal maintenance.

## **Solution for interior use**

Thanks to the fast opening and closing speeds, operational efficiencies are realized and better environmental control is achieved between work areas with varying temperatures.

## **Solution for areas with minimal clearance**

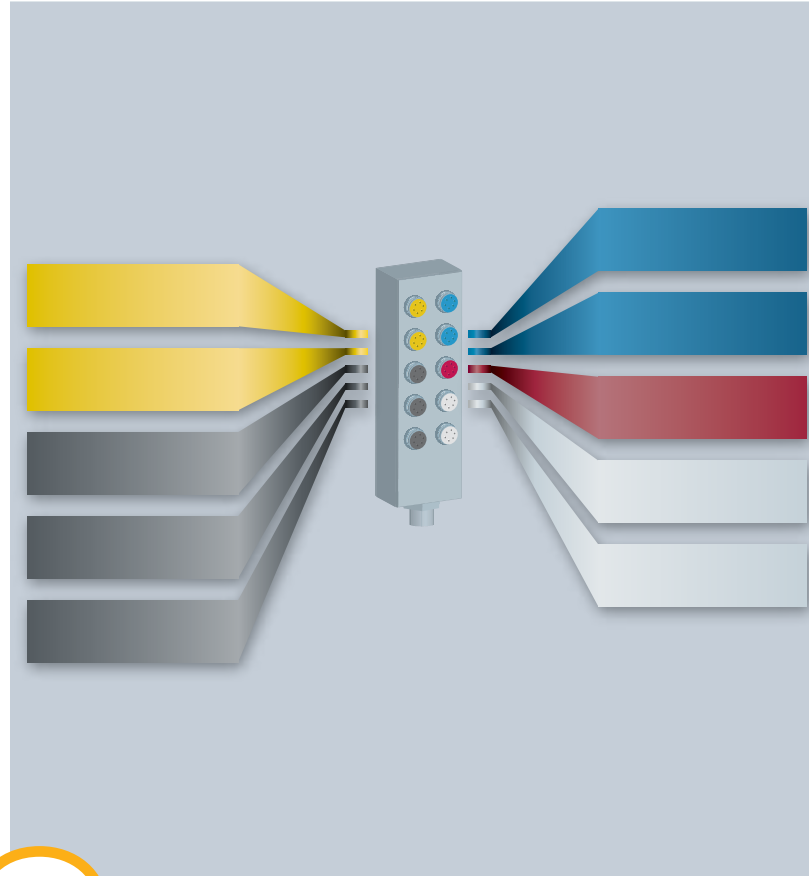
Storage shelves, wiring and cramped installation surfaces often require a door with a small footprint. Low-profile guide tracks and compact motor provide the solution.

## **Individual solutions**

Various demands require individual door solutions. Based on our expert know-how, we develop customer-specific solutions for special applications such as, the food industry, clean rooms, coolers, or for conveyer systems and machine protection.

# Good Reasons to Try Hörmann

Quality features of fabric high performance doors for interior door openings



## 1 Protection as standard

### Non-contact protection

The standard built-in light curtain monitors the closing zone of the door up to a height of 8'0". A panel reversing edge is not required, and since the light curtain is built into the guide tracks, the risk of damage from a collision is greatly minimized. These advantages are why Hörmann high performance doors are especially easy to install and maintain.

## 2 Optimized operations

### Long service life and high efficiency as standard

The next generation Smart Start™ NXT, NEMA 4X, control box has a simplified wiring configuration and is more powerful, has fewer components and cables as compared to the original Smart Start™. A color-coded distribution block accepts the activation and protection device wiring; main power cables feed through pre-drilled holes on the bottom of the box where the individual wires, with pre-wired removable terminal blocks, simply plug into the circuit board. This frequency converter control box takes stress off of the entire door mechanism, guaranteeing nearly wear-free, quiet door travel.

In addition, it relieves the entire door mechanism through the smooth starting and braking action, resulting in a considerably longer, the service life of the door.





# 3

## Practical solutions

### **No downtimes resulting from a crash thanks to the SoftEdge bottom profile**

The innovative SoftEdge door technology prevents damage and resulting downtime of the door system. Extensive repairs, such as those with rigid door profiles, become unnecessary. SoftEdge ensures trouble-free operation and production processes.

# 4

## Innovative details

### **Wireless breakaway switch**

The wireless breakaway switch is concealed in the SoftEdge bottom profile. If the bottom profile is pushed out of the side guides by a crash, the radio crash switch transmits a signal to the control and the door is stopped immediately. Thanks to this technology, the door can be operated for at least up to 3 years without the need for maintenance, regardless of the number of door cycles. (Models SEL, Cool-Master and Food-Master.)

# Speed-Commander™ Series Fabric High Performance Doors

Internal doors with SoftEdge and wireless breakaway



## SC 1400 SEL<sup>19</sup> and 1400 MP

Built-in horizontal aluminum profiles accommodate air pressure up to 15 mph with the door in static position. The machine protection (MP) model protects operating personnel thanks to a monitored partitioning of the machine and provides fast access when needed

## SC 1400 SEL<sup>19</sup> Cool-Master

Advanced 3 mm thick foam panel material maintains flexibility in areas over +33° F and helps keep condensation to a minimum in cooler to ambient areas





**SC 1400 SEL<sup>19</sup> Clean-Master 20 Pa**

Tightly seals door openings to prevent air movement, and the fast opening speed of up to 80" per second greatly increases protection from contamination between two areas

**SC 1400 SEL<sup>19</sup> Food-Master**

Choose only the stainless steel options required by the specific application. Build a door without paying for unnecessary options. (Optional welded panel shown)





# Speed-Commander™ Series Fabric High Performance Doors

Internal doors with SoftEdge and wireless breakaway

## SC 1400 SEL<sup>19</sup>

The Speed-Commander™ 1400 SEL<sup>19</sup> is equipped with built-in, horizontal aluminum profiles, designed to accommodate air pressure up to 15 mph with the door in static position. A standard, full-width vision area provides maximum visibility, and a SoftEdge bottom profile with integral wireless panel reversing edge automatically reverses the door upon accidental impact. An aluminum bottom bar with breakaway tabs is optional for applications having slightly more air pressure.



**SC 1400 SEL<sup>19</sup>**  
SoftEdge bottom easily resets after impact



**SC 1400 SEL<sup>19</sup> Clean-Master 20 Pa**  
Optional welded panel with spring steel profile (not 20 Pa rated)

## SC 1400 SEL<sup>19</sup> Clean-Master

The Clean-Master 20 Pa tightly seals door openings to prevent air movement, and the fast opening speed of up to 80" per second greatly increases protection from contamination between two areas. The standard panel has horizontal aluminum profiles. A one-piece welded panel is optional (not 20 Pa rated). Low-profile steel guide tracks are free from moving parts, promoting a pure environment. Stainless steel guide tracks are available.



**SC 1400 SEL<sup>19</sup> Cool-Master**  
Foam panel supports energy control



**SC 1400 SEL<sup>19</sup> Food-Master**  
Choose stainless options according to application requirements

## SC 1400 SEL<sup>19</sup> Cool-Master

This door is ideal for energy conscious, 24/7/365 applications in agricultural, medical and cold storage facilities. An advanced 3 mm thick gray foam panel material maintains flexibility in areas over +33° F and helps keep condensation to a minimum in cooler to ambient areas. A unique sectional panel design allows for easy panel replacement for minimal downtime.

## SC 1400 SEL<sup>19</sup> Food-Master

The Food-Master design allows the selection of the stainless steel options the application requires. Able to conform with all industry requirements, the following are available in stainless steel, making it possible to build a Food-Master door without paying for unnecessary options: Roll tube / hollow shaft, motor cover, guide tracks, control box and all hardware.



**SC 1400 MP Machine Protection**  
Thanks to the safety sensors the door can open only when the machine is idle and the machine can be operated only when the door is closed.

Panel colors  
(RAL reference close approximation of color)





# SC 1400 SEL<sup>19</sup>

## One-piece welded panel optional

### Features

Door type	SC 1400 SEL <sup>19</sup>	SC 1400 SEL <sup>19</sup> Clean-Master 20 Pa	SC 1400 SEL <sup>19</sup> Cool-Master	SC 1400 SEL <sup>19</sup> Food-Master	SC 1400 MP Machine Protection
<b>Suitable application</b>	Interior	Interior	Interior	Interior	Interior
<b>Size range</b>					
Max. width	14'0"	10'0"	14'0"	14'0"	10'0"
Max. height	16'0"	10'0"	16'0"	16'0"	10'0"
<b>Operating speeds</b>					
Max. opening (in/s)	80	80	80	80	80
Closing approx. (in/s)	30	30	30	30	30
<b>Panel</b>					
Aluminum profile	●	●	●	●	●
Welded with spring steel profile	○	○	○	○	○
<b>Resistance to wind load Panel in closed position In-plant only</b>	Consult factory	Consult factory	Consult factory	Consult factory	Consult factory
<b>Thermal insulation</b>					
U-value (metric) in W/(m <sup>2</sup> K)	4.14	4.14			4.14
U-value (imperial) in BTU/(h·ft <sup>2</sup> ·°F)	0.73	0.73	Consult factory	Consult factory	0.73
<b>Breakaway</b>	●	●	●	●	-
<b>Fabric</b>					
58 oz. / sq. yd.	●	●	-	●	●
1/8" thick (3 mm)	-	-	●	-	-
90 oz. / sq. yd. white	-	-	-	○	-
<b>Vision</b>	●	●	●	●	●
<b>Panel colors</b>					
Zinc Yellow (RAL 1018)	●	●	-	-	●
Pure Orange (RAL 2004)	●	●	-	-	●
Carmin Red (RAL 3002)	●	●	-	-	●
Gentian Blue (RAL 5010)	●	●	-	-	●
Agate Gray (RAL 7038)	●	●	●	-	●
Pure White (RAL 9010)	●	●	-	●	●
<b>Guide Tracks (7-1/4" w x 4-1/2" proj.)</b>					
12 ga. galvanized steel	●	●	●	●	●
Stainless steel	○	○	○	○	○
<b>Hood</b>					
Galvanized steel	○	○	○	○	○
Stainless steel	○	○	○	○	○
<b>Light curtain built into tracks</b>	●	●	●	●	-
<b>Control box</b>					
Smart Start™ NXT NEMA 4X (3-phase, 208 v to 575 v)	●	●	●	●	●
HFCB NEMA 3 Smart Start™ NXT (1-phase, 230 v only)	○	○	○	○	○
<b>Emergency opening</b>					
Hand crank	●	●	●	●	●
Chain hoist	○	○	○	○	○
UPS Emergency battery pack Automatic door opening in case of power failure (With HFCB control box only)	○	○	○	○	○

● = Standard ○ = Optional - = Unavailable

# Speed-Commander™ 1500 Compact

## Interior door with innovative tubular drive and aluminum guide tracks

### Compact modern solution for retail, grocery and more

Thanks to anodized aluminum guide tracks and hood, integrated wiring and few visible screws, the SC 1500 Compact has a refined appearance that is well-suited for areas with customer traffic including grocery, retail and hospitals.

Elegant and compact aluminum guide tracks only require 5-1/2" of clearance on either side of the door opening and a powerful UL rated tubular motor requires very little headroom clearance, enabling the 1500 Compact to fit into even the tightest spaces. The result is streamline and modern-looking.

The door seals extremely well due to the narrow insertion area on the guide tracks where the panel runs inside and guide track draft seals assist with forming a tight seal around the door panel. A fast opening speed of up to 100" per second greatly reduces the amount of air flow between two areas.

A standard, full-width vision area provides maximum visibility, and a SoftEdge bottom profile with integral wireless panel reversing edge automatically reverses the door upon accidental impact. An aluminum bottom bar with breakaway tabs is optional for applications having slightly more air pressure.

As standard, a light curtain is built into the guide tracks and monitors the closing zone of the door up to a height of 8'0", reversing the door if a light beam is interrupted. The risk of damage from a collision is greatly minimized.

More and more installations are requiring that the door control box is installed out of the reach of passersby or completely away from the door in a central location. For these types of applications, our remote keypad is the ideal accessory; it allows for the actual door control box to be remotely installed while still having the ability to operate all control functions through a compact, 3" x 5-1/2" keypad. The same functions performable on the door control box may also be performed on the remote keypad. Initial installation set-up, opening and closing, as well as service and troubleshooting are all done through the remote keypad.



**Stable panel**  
Welded panel with spring steel stiffener



**Tight sealing**  
Narrow guide track panel insertion area and draft seals



**Convenient remote keypad**  
Access control box functions when the control box is remotely installed



**Powerful and compact UL tubular motor**  
Dependable operation for high cycle areas

### Exclusive 2 year - 1 Million cycle warranty

The motor / drive are warranted for 1 million cycles. All other components including the panel and control box are warranted for two years.



## Features

<b>Door type</b>	<b>SC 1500 SEL Compact</b>
<b>Suitable application</b>	<b>Interior</b>
<b>Size range</b>	
Max. width x height with rubber edge	13'0" x 13'0"
Max. width x height with aluminum edge	16'0" x 16'0"
<b>Operating speeds</b>	
Max. opening (in/s)	100
Closing approx. (in/s)	30
<b>Panel</b>	
Welded with spring steel profile	●
<b>Breakaway</b>	●
<b>Vision</b>	●
<b>Panel colors</b>	
Zinc Yellow (RAL 1018)	●
Pure Orange (RAL 2004)	●
Carmin Red (RAL 3002)	●
Gentian Blue (RAL 5010)	●
Agate Gray (RAL 7038)	●
Pure White (RAL 9010)	●
<b>Guide Tracks (5-1/2" w x 4-1/2" proj.)</b>	
6060 anodized aluminum	●
<b>Hood</b>	
Anodized aluminum	●
<b>Light curtain built into tracks</b>	●
<b>Control box</b>	
Smart Start™ NXT NEMA 4X (3-phase, 208 v to 575 v)	●
HFCB NEMA 3 Smart Start™ NXT (1-phase, 230 v only)	○
<b>Emergency opening</b>	
UPS Emergency battery pack - Automatic door opening in case of power failure (With HFCB control box only)	○
● = Standard   ○ = Optional   - = Unavailable	

# Speed-Master® Series Fabric High Performance Doors

Interior and exterior applications







## **Benefits**

The legendary Speed-Master® Series by Hörmann High Performance Doors has been installed in demanding manufacturing and industrial applications for over 30 years. The rugged sectional panel, compact footprint and direct-drive motor contribute to the operational simplicity and reliable performance for which the Speed-Master® is known.

## **Solution for interior use**

Thanks to the fast opening and closing speeds, operational efficiencies are realized and better environmental control is achieved between work areas with varying temperatures.

## **Solution for external use**

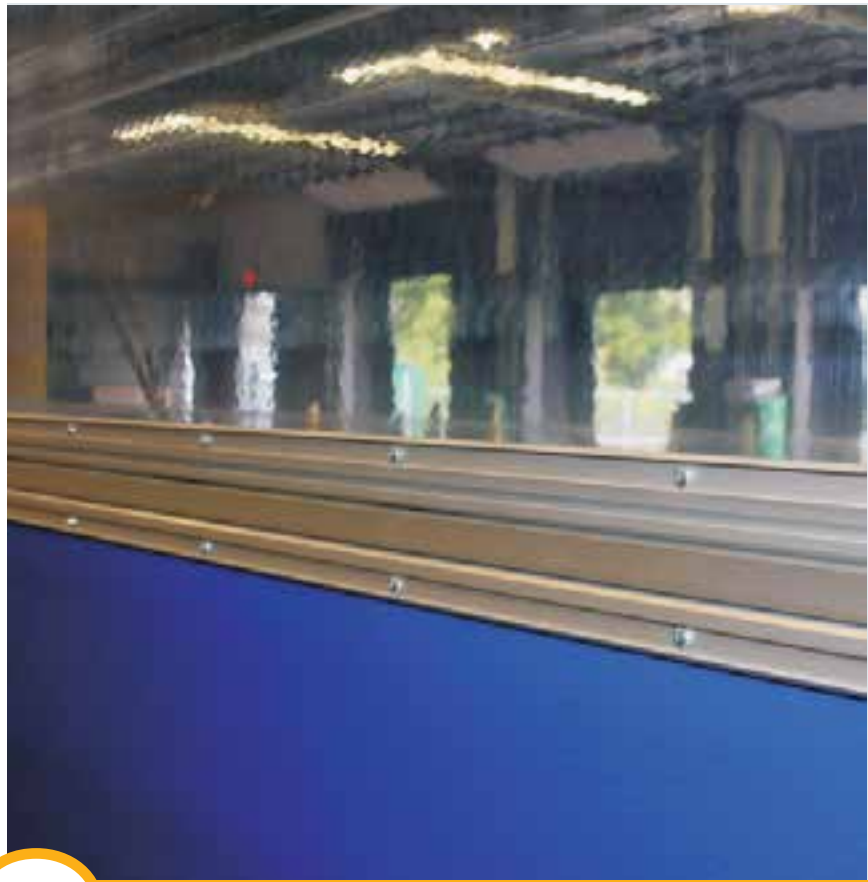
Speed-Master® high performance doors help effectively reduce energy losses even for external door openings. For exterior mounting doors, options like a roll and motor cover along with motor / gearbox heater make it possible to accommodate high traffic exterior door applications during cold weather, for added energy savings as compared to use of conventional roll-up doors.

## **Individual solutions**

Various demands require individual door solutions. We have a Speed-Master® high performance fabric door solution for special applications such as, manufacturing, transit, waste management and parking garages.

# Good Reasons to Try Hörmann

Quality features of fabric high performance doors for interior and exterior door openings



## 1 Protection as standard

### Non-contact protection

The standard built-in light curtain monitors the closing zone of the door up to a height of 8'0". A panel reversing edge is not required, and since the light curtain is built into the guide tracks, the risk of damage from a collision is greatly minimized. These advantages are why Hörmann high performance doors are especially easy to install and maintain.

## 2 Dependable operations

### Long service life and high efficiency as standard

All Speed-Master® models are cable and spring free. The absence of moving parts within the guide tracks means that there is no complicated re-set procedure if the door is hit, and maintenance costs are drastically reduced. Patented, interlocking aluminum hinges act as integral windbars creating a sectional panel design. Sliding apart the panels without removing the entire roll assembly allows for inexpensive replacement, and a full-width vision area provides unobstructed viewing. The ultra tough, reinforced 1/8" thick (90 oz. / sq. yd.) Bulldog XT panel material is puncture resistant and warranted against defects in workmanship for five years.



# 3

## **Practical solutions**

**// EXCLUSIVE Summer / winter panel accommodates warm and cold weather requirements**

The summer / winter panel is an option when insect control is desired without compromising ventilation and traffic flow. Our Screen-Master® mesh material can be interchanged with the solid Bulldog XT panels during warmer months and vice versa during cooler times of the year.

# 4

## **Innovative options**

**Custom panel prints make a big impression**

Customize your door with custom panel prints. Logos, pictures and text may be digitally printed onto our door panels. The images are durable, UV treated and waterproof. Maximum image size is 7'0" wide x 3'0" high.

# Speed-Master® Series Fabric High Performance Doors

Interior and exterior applications



## SM 1600<sup>19</sup> L Eco

The SM 1600 L<sup>19</sup> Eco is perfect for high use interior or exterior door openings up to 12'0" x 12'0"

## SM 1600 L<sup>19</sup>

Low-profile design enables the SM 1600 L<sup>19</sup> to fit into most areas and may be installed in both interior and exterior applications







**SM 1600 XL<sup>19</sup>**

Choose the 1600 XL<sup>19</sup> for use on door openings that are over 14'0" w x 16'0" h, too large for our Speed-Master 1600 L, and located in an application that is unable to justify the higher cost of the SM 2600 L

**SM 2600 L and 4600 L**

The rugged and dependable design are what make these models ideal for demanding applications



# Speed-Master® Series Fabric High Performance Doors

## Interior and exterior applications

### SM 1600 L<sup>19</sup> Eco

Speed-Master® 1600 L<sup>19</sup> Eco is perfect for high use interior or exterior door openings up to 12'0" x 12'0" and is equipped with heavy duty 12 gauge hot-dipped galvanized steel guide tracks and a standard built-in light curtain. The Eco's panel is constructed of 58 oz./ sq. yd., anti-static, puncture resistant, reinforced PVC material, a full-width PVC vision area, and two panel stiffeners located above and below the vision area to provide stability.

### SM 1600 L<sup>19</sup>

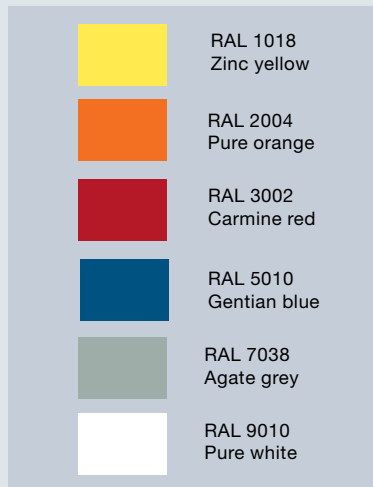
The Speed-Master® 1600 L<sup>19</sup> includes our Smart Start™ NXT, next generation, NEMA 4X, control box as standard. The updated control box has a simplified wiring configuration, is more powerful, and has fewer components and cables as compared to the original Smart Start™. For doors up to 10'0" w x 10'0" h, the NEMA 3 HFCB 1-phase control box is an option.

### SM 1600 XL<sup>19</sup>

The 1600 XL<sup>19</sup> is uniquely designed for large exterior or interior door openings. 58 oz. PVC panels are connected with aluminum windbars to provide stability against wind pressure. An aluminum bottom bar with breakaway tabs breaks out of the guide tracks if accidental impact occurs. Panel windlocks are optional for added wind pressure resistance. (Windlocks disable the breakaway function.)

### SM 2600 L and 4600 L

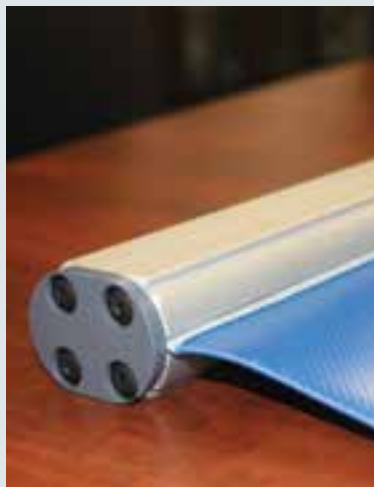
Design advantages such as zero moving parts within the guide tracks and direct-drive motor, support minimized maintenance and the walk-away dependability busy operations need.



**SM 1600 L<sup>19</sup> Eco**  
58 oz. panel material available in a variety of colors



**SM 1600 L<sup>19</sup>**  
For openings up to 14'0" w x 16'0" h interior or exterior



**SM 1600 XL<sup>19</sup>**  
Windbars provide additional wind resistance



**SM 2600 L**  
Options on exterior applications: roll / motor cover and gearbox heater



**SM 4600 L**  
Demanding industrial applications

**For external doors with high wind pressure  
we recommend using panel windlocks**

## Features

Door type	SM 1600 L <sup>19</sup> Eco	SM 1600 L <sup>19</sup>	SM 1600 XL <sup>19</sup>	SM 2600 L	SM 4600 L
<b>Suitable application</b>	Interior or exterior				
<b>Size range</b>					
Max. width	12'0"	14'0"	20'0"	24'0"	33'0"
Max. height	12'0"	16'0"	20'0"	24'0" Max. 400 sq. ft.	30'0" Max. 690 sq. ft.
<b>Operating speeds</b>					
Max. opening (in/s)	60	60	48	36	24
Closing approx. (in/s)	30	30	30	30	24
<b>Panel</b>					
Windlocks	○	○	○	○	●
<b>Resistance to wind load Panel in closed position</b>	Consult factory				
<b>Thermal insulation</b>					
U-value (metric) in W/(m <sup>2</sup> K)	4.14	2.66	4.14	2.66	2.66
U-value (imperial) in BTU/(h-ft <sup>2</sup> -°F)	0.73	0.47	0.73	0.47	0.47
<b>Breakaway</b>	●	●	●	●	●
<b>Fabric</b>					
90 oz. / sq. yd.	-	●	-	●	●
58 oz. / sq. yd.	●	-	●	-	-
<b>Vision</b>	●	●	●	●	●
<b>Panel colors</b>					
Yellow	●	-	●	-	-
Orange	●	●	●	●	●
Red	●	-	●	-	-
Blue	●	●	●	●	●
Gray	●	●	●	●	●
White	●	-	●	-	-
Black	-	●	-	●	●
<b>Guide Tracks</b>					
11 ga. galvanized steel hinged to open 9-1/4" w x 7-1/8" proj.	-	-	-	●	●
12 gal galvanized steel two-piece with removable front covers 7-3/8" w x 4-3/8" proj.	●	●	●	-	-
<b>Hood</b>					
Galvanized steel	○	○	○	○	○
Stainless steel	○	○	○	○	○
<b>Safety</b>					
Light curtain built into tracks	●	●	●	●	●
<b>Control box</b>					
Smart Start™ NXT NEMA 4X (3-phase, 208 v to 575 v)	-	●	●	●	●
Step-up transformer	-	-	○	●	●
HFCB NEMA 3 Smart Start™ NXT (1-phase, 230 v only)	●	○ Up to 10' w x 10' h	-	-	-
<b>Emergency opening</b>					
Chain hoist	●	●	●	●	●
Hand crank	○	○	○	○	○
UPS Emergency battery pack Automatic door opening in case of power failure (With HFCB control box only)	○	○	-	-	-
● = Standard ○ = Optional - = Unavailable					

# Solutions Made Easy With Exclusive Hörmann Accessories

Tools for enhancing protection and promoting proactive technical support

1



## LED Lite-Advance door monitoring

### Red and green lights promote safety

The LED Lite-Advance is a visual indicator, signaling approaching traffic that the door is open, closed or in motion. The Lites comes in 5 or 10 ft. lengths of bright LED light strips which attach to the guide tracks or hood. Lites are solid red when the door is down, flashing red when in motion, and solid green when completely open, increasing awareness which will reduce the likelihood of impact to the door, and minimize downtime.

2



## SmartControl M2M remote technical support

### Remote diagnostics for fast technical support anytime, anywhere

Using a web browser such as Internet Explorer, Chrome or Firefox as an interface, SmartControl M2M (mobile to mobile) is a remote communication device, built into your Hörmann control box (optional feature) and allows a Hörmann technical service professional to remotely diagnose door issues by accessing activity and codes directly from specific Hörmann high performance doors in the field. In many cases, resolution of an error can be made over the phone, saving an unnecessary service call.

3



## Scanprotect opening sensor and area surveillance

### 3D laser is the ideal solution for activation or safety

The Scanprotect sensor uses laser technology, based on analysis of time of flight. It creates a volumetric area in front of the door by generating 7 angled laser curtains. One device alone carries out 3 functions: opening the door, area surveillance and safety. More than just a sensor, it becomes a protective mechanism for the door and the user.

4



## Wireless Crash Alert System 24-7-365 monitoring

### Wireless impact detector prompts real-time alerts

With the Hörmann wireless crash alert system, door downtime will be a thing of the past! This system can monitor up to 500 doors on a single network. When a door is hit, the wireless impact detector transfers data through the wireless cellular Gateway to a specified phone number as a call, a text or to an email, providing real-time alerts 24-7-365.



# Intelligent Operator and Control Technology

## Standard at Hörmann

### ✓ Frequency converter control

High performance frequency converter controls (FU) feature higher speeds and relieve the complete door mechanism which, in turn, extends the service life of the door considerably. The next generation Smart Start™ NXT, NEMA 4X, control box has a simplified wiring configuration and is more powerful, has fewer components and cables as compared to the original Smart Start™.

### ✓ Door cycle counter

### ✓ Operation time monitoring

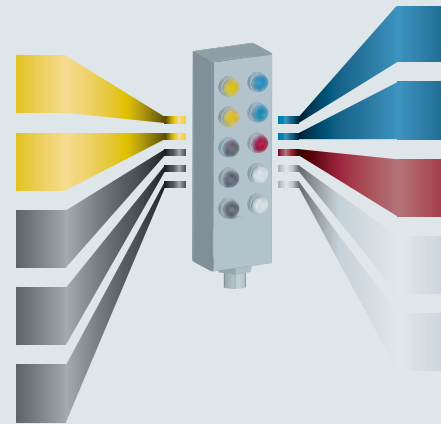
### ✓ Automatic timer (adjustable hold-open phase)

### ✓ Error display / diagnosis via a 4 x 7-segment display

### ✓ Service operation setting

### ✓ Color-coded plug-in control wiring

Connection of accessory components and safety devices is made easy with colour-coded plug-in connections and connection cables. This makes installation of initial electrical start-up quick and easy.



- Protection device
- Protection device
- Activation 1
- Activation 2
- Activation 3
- Protection device
- Protection device
- Crash receiver
- Light curtain transmitter
- Light curtain receiver

## Remote keypad

### Performs control box functions from ground level

More and more installations require that the door control box is installed out of the reach of passersby or completely away from the door in a central location. For these types of applications, our remote keypad is the ideal accessory; it allows for the actual door control box to be remotely installed while still having the ability to operate all control functions through a compact, 3" x 5-1/2" keypad. For Speed-Guardian™ and Steel Ranger™ models, surface mount is available.



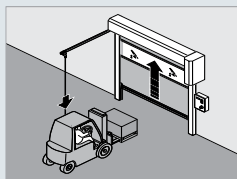
## Energy Analysis Report

### Calculate ROI when installing a new Hörmann door

Analyze energy consumption at a specific location and what impact a new Hörmann high performance door can have on energy savings and ROI. Your Hörmann door professional can complete a customized energy report. Based on application-specifics such as average temperatures on each side of the door opening, heating source, type of door currently installed and more, the report will show current monthly and yearly energy costs based on the existing door, and projected ROI for purchasing a new Hörmann door.

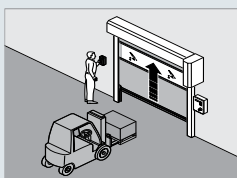
# Activation

## Options for operation



### Pull Cord

- Nylon cord lanyard & raintight housing. NEMA 4 rated and suitable for heavy duty use.



### Push Button

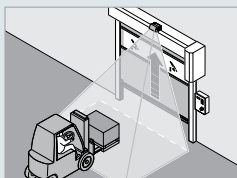
- Single, double or triple button.
- NEMA 4 rated.

### Mushroom Push Button

- NEMA 4 rated.

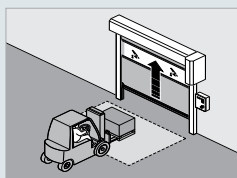
### Finger-Scan

- Your fingerprint is enough.
- Model FL 12 for 12 fingerprints or the FL 100 for 100 fingerprints.



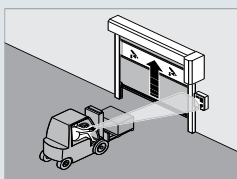
### Radar / Motion Detector

- Activates when equipment or personnel enter the detection area.
- Weather-resistant enclosure, protection category IP65 (NEMA 4X).



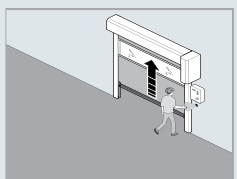
### Induction Loop Detector

- A loop wire field is installed below the floor's surface and generates a magnetic field sensitive to metal objects.



### Remote Control

- Effective at a range of up to 60 feet.
- Transmitters are available to activate up to 27 doors with one transmitter.



### Touchless Activation Switch

- Sterile alternative to manual activation devices.
- Surface or flush mountable. Water resistant. Detection zone adjustable from 4 - 24 inches.

# Protection devices

## Options for safety equipment



### Light Curtain

Continuous light beams shine across the door opening, from the floor up to 8'0" high, providing added protection of personnel and goods. Built-in light curtains are standard on the Speed-Commander™ 1400 SEL<sup>19</sup> (shown above), Speed-Master® Series, Speed-Guardian™ Series, and Steel Ranger™ 9000 L. Consult the factory when considering the use of a light curtain on the other high performance door models.



### Radar Motion Detector and Infrared Presence Detector (Activation and Protection Device)

The model HF-MP detects both motion and presence. The HF-MP covers a wide range of applications where pedestrian and motorized traffic patterns co-exist.



### Laser Scanprotect Sensor

- Detection mode: motion and presence.
- Insensitive to rough weather conditions. Reliable non-detection of varying floor surfaces.
- Installation height: 6'5" to 19'6". Maximum detection zone 20 sq. ft. Housing protection category IP 65.



### Warning Light

Highly visible warning light has a lightweight plastic housing and turns on three seconds prior to closing until the door is closed. (Pre-warning time is up to 60 seconds).



### Warning Light With Horn

The warning light with horn may be used when an audible indicator along with a warning light is required.

Photos are representative of current designs and are subject to change.

# Control Boxes

## Standard at Hörmann



**HFCB Smart Start™ NXT**  
Control box  
in plastic housing  
single-phase, 230 V

**Operation**

Open / Stop / Close membrane push button, 4 × 7-segment display for information on door functions

**Function**

Automatic timer, hold-open phase adjustable by up to 120 sec., built-in light curtain, stop / reopen

**Activation**

Push button, pull cord, radar presence detector, induction loop detector and remote control

**Extension options**

Main switch, amber warning light, horn, interlocking, stainless steel enclosure

**Wiring**

Connecting lead 1~230 V, N, PE, fuse 16 A, slow-acting, plug-in connection between door operator and control cabinet, CEE plug, 3-pin with 36" cable for on-site CEE socket, 16 A

**Housing dimensions**

8" wide × 16" high × 7" deep

**Compatible door types**

Standard on:  
Speed-Master® 1600 L<sup>19</sup> Eco

Optional on:  
SC 1400 SEL<sup>19</sup>  
SC 1400 MP  
SC 1400<sup>19</sup> Clean-Master 20 Pa  
SC 1400<sup>19</sup> Cool-Master  
SC 1400<sup>19</sup> Food-Master  
SC 1500 Compact  
SM 1600 L<sup>19</sup> (up to 10 x 10)  
SG 5000  
SR 9000 L

**UPS Emergency Battery Pack**  
Control box  
in plastic housing  
single-phase, 230 V

**Operation**

Automatic upon loss of power  
Only available with HFCB Smart Start™ NXT control box

**Function**

Upon loss of power, automatically opens the door once. When battery is low, an alarm sounds signaling time for replacement

**Wiring**

Connecting lead 1~230 V, N, PE, fuse 16 A, slow-acting, plug-in connection between door operator and control cabinet, CEE plug, 3-pin with 36" cable for on-site CEE socket, 16 A

**Housing dimensions**

8" wide × 16" high × 7" deep

**Compatible door types**

Optional on:  
SC 1400 SEL<sup>19</sup>  
SC 1400 MP  
SC 1400<sup>19</sup> Clean-Master 20 Pa  
SC 1400<sup>19</sup> Cool-Master  
SC 1400<sup>19</sup> Food-Master  
SM 1600 L<sup>19</sup> (up to 10 x 10)  
SG 5000  
SR 9000 L

**Smart Start™ NXT NEMA 4X**  
Control box  
in steel housing  
three-phase, 208 to 575 V

**Operation**

Open-Stop-Close membrane push button, emergency-off button, 4 × 7-segment display for information on door functions, lockable main switch

**Function**

Automatic timer, hold-open phase adjustable by up to 120 sec., built-in light curtain, stop / reopen

**Activation**

Push button, pull cord, radar presence detector, induction loop detector and remote control

**Extension options**

Amber warning light, horn, interlocking

**Wiring**

Connecting lead color-coded via distribution box

**Housing dimensions**

11.5" wide × 15.5" high × 8" deep

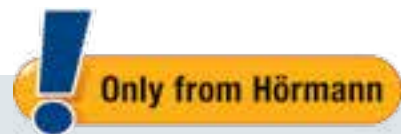
**Compatible door types**

Standard on:  
SC 1400 SEL<sup>19</sup>  
SC 1400<sup>19</sup> Clean-Master 20 Pa  
SC 1400<sup>19</sup> Cool-Master  
SC 1400<sup>19</sup> Food-Master  
SC 1500 Compact  
SM 1600 L<sup>19</sup>  
SM 1600 XL<sup>19</sup>  
SM 2600 L  
SM 4600 L  
SG 5000



# Service Made Easy With Exclusive Hörmann Service Support APP

Technical support at your fingertips

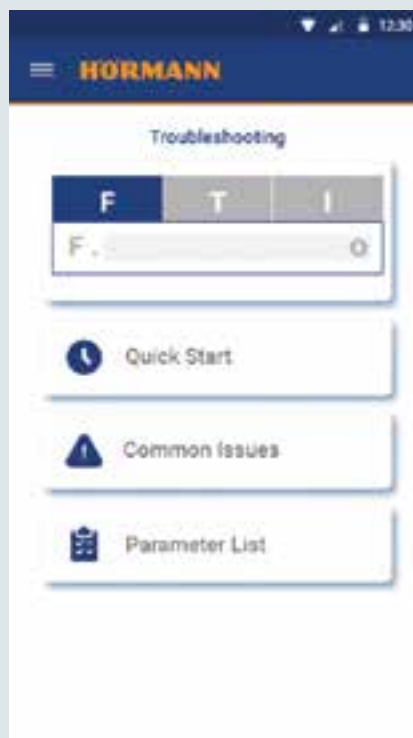


Download our service support APP  
for iOS and Android  
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## Save time

For installers servicing our doors, our Service Support APP is available as a free download from the App Store or Google Play.

Everything from a Quick Start guide, to troubleshooting common issues and resolving fault codes that appear on the control box LED display, may be addressed using our APP. Service technicians have the answers they need at their fingertips, eliminating a call to our technical support department while having immediate access to the answers they need.



# TNR Brand Rubber Doors and ChillFast Freezer Door

## Incredibly efficient and reliable

Hörmann's TNR brand rubber doors are known to be incredibly efficient and dependable. Our rubber roll-up doors are designed and built with a proprietary rubber curtain, Newgen® aluminum guide tracks and CurtainLok™ system. This unique design enables a TNR rubber door to withstand vehicle impact, be reset and continue running within minutes.

Streamline everyday processes in freezer areas with the ChillFast high speed freezer door, which incorporates well into fast-paced food, beverage and cold storage applications.

Visit [www.TNRdoors.com](http://www.TNRdoors.com) for details.



ChillFast High Speed Freezer Door

### Several Heavy Duty TNR Rubber Door Models to Choose From



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Sophisticated engineering and state-of-the-art manufacturing provide the basis for durable, reliable and long-lasting quality products.

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Our promise to you.

As one of the world's leading manufacturers of doors, we're committed to providing the best quality, value, and selection. Whether industrial or commercial, retail automotive, parking garages, transit,

waste management, fire stations or food processing, we have the door you're looking for. The Hörmann product line has a door for any application, from one manufacturer.



Hörmann High Performance Doors, Burgettstown, PA  
High Performance Doors



TNR Doors, Barrie, Ontario, Canada  
High Performance Doors

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Environmental commitment has been part of our corporate culture for decades. From our manufacturing processes to the products we make.

In everything we do we strive to minimize energy and use of resources through efficient processes, long-lasting quality and innovative engineering.

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