

## What is a high performance door?

High performance doors are fast moving and commonly used in commercial and industrial applications. They assist in reducing energy costs, minimizing operating costs, and accommodating high cycles with minimal maintenance.

High performance doors include safety features and activations which make the doors safer for people, equipment, and products to pass through. They are designed with breakaway and self-repairing features for minimal maintenance. Many companies integrate high performance doors for a progressive growth-oriented corporate image.

### **Designed to Cycle...**

#### *High Performance Door –*

A power-operated rolling, folding or sliding non-residential door, generally characterized by either 100 or more cycles per day or 40 or more inches per second opening speed, and typically made-to-order and/or designed for higher durability, and/or designed to break away due to equipment impact.

## Why use a high performance door?

### The Benefits:

- Increased energy efficiency of operations due to a reduction in energy costs (heating and cooling).
- Features and actuators enhance protection of people, equipment and products around the door opening.
- Workflow enhanced because of fast openings/closing speeds – Opening speeds up to 100” per second.
- Minimize operational costs.
- Minimize transmission of contaminants.
- High cycle abilities, 1 million plus cycles with minimal maintenance.
- Added security because of fast opening/closing speeds.
- Ability to take abuse, breakaway bottom and self- repairing features.
- Indicates commitment to corporate image of progress and growth.
- Attractive and clean looking.
- Separate one work area from another.
- Aid in protection against harsh conditions, wind, snow, and rain.
- Reduction in sound transfer

High Performance Doors provide a fast return on investment and a lower life cycle cost.

- Improved Worker Throughput Productivity = *Increased Productivity*
- Fast Opening/Closing Speeds, Seal (U-Value), Secondary Air Curtain Barrier, Insulation, etc. = *Energy Savings*
- Variable Frequency Drive, No Springs, Minimal Wear Points, Fewer Parts, 24/7 Service Support, etc. = *Maintenance Savings*
- Laser Motion + Presence Sensors, LED Traffic Sequencing, Soft Edge, Self Reinserting, Manual Chain Hoist, etc. = *Enhanced Safety*
- Energy Efficiency Rebates = *\$1,000.00 to \$3,000.00 per door*
- Provides A Lower Life Cycle Cost = *Reliability and Durability*
- The period of time that the manufacturer covers the material and labor supporting the door from defects = *Product Warranty*



**High Performance Doors save energy by efficiently reducing convection, conduction and infiltration energy loss.**

*Our CHILLFAST cold storage door system is a Unique Energy Saver that has been 3<sup>rd</sup> Party Tested / Certified for Performance.*

When considering a door for Cold Storage / Food & Beverage applications, it is important to evaluate the complete door system required for the opening. A comprehensive door system solution will address several areas of energy loss / consumption, including the following:

**R-Value: Thermal Resistance of Curtain Material**

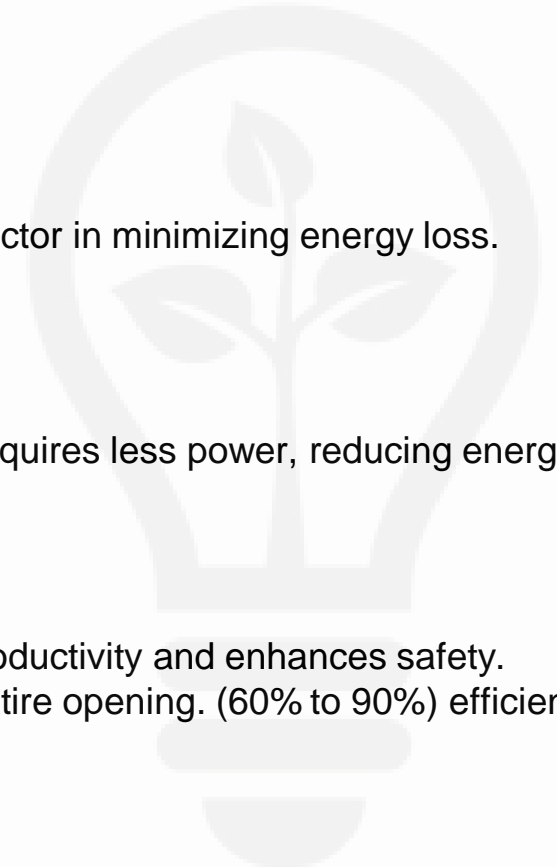
**U-Value: Thermal Resistance of the Entire Door System**

**Opening and Closing Speeds (Total Cycle Time):** Minimizing the time delay before closing is an important factor in minimizing energy loss.

**Tight Perimeter Seal:** Preventing airflow around the perimeter of the door helps reduce energy loss.

**Electric Operator Efficiency:** Electric operators consume electric energy. A smaller, more efficient operator requires less power, reducing energy costs compared to larger less efficient operators.

**Secondary Aire Curtain Barrier:** Combats against frost, ice, fog and other condensation issues. Improves productivity and enhances safety. Two speed – Heavy duty direct drive motors with unique plenum design insures a uniform air flow across the entire opening. (60% to 90%) efficient stopping infiltration while the door cycles open and closed.



## Freezers:

- For door openings up to 13'0" w X 18'6" h.
- Fast operating speeds reduce cooling costs.
- Insulated reinforced vinyl panel endures cold temperatures.
- Soft bottom with safety edge releases upon impact and resets automatically.
- Aluminum guide tracks with integrated photoeyes.
- Standard aluminum roll tube cover / Optional operator hood both with white finish.
- Standard Smart Start™ NXT plug-and-play control.
- Optional air curtain system, heated or non-heated.



## Application: Coolers – High-Speed Cool-Master Door

Proven Performance: Foam Curtain and Fast Speeds Help Maintain Environment

**HÖRMANN**

### Coolers:

- For energy conscious, 24/7/365 applications in agricultural, medical and cold storage.
- 3mm thick gray foam panel material flexible in areas over +33° F, keeping condensation to a minimum.
- Sectional panel design allows for easy panel replacement for minimal downtime.



## Food Processing:

- For energy conscious, 24/7/365 applications in agricultural, medical and cold storage.
- Choose only the stainless steel options required by the application saving money.
- Sectional panel design – available with aluminum profiles or optional welded stiffener .



## Application: Blast Freezers – HDT Rubber Door

Proven performance: Tough-N-Reliable

**HÖRMANN**

### Blast Freezers:

- Durable, flexible ¼" thick EPDM rubber curtain material is resistant to harsh environments and impacts in temperatures from -55° F to 180° F.
- Patented NEWGEN® Guide and Curtain Lok™ System withstands repeated impacts and is quick to repair and reset.
- Knock-away bottom bar is easy to reset after impact with standard fasteners. Large rubber loop seals to uneven floors.





### Safety Is No Accident

*The average workmen's compensation claim can cost a company almost \$50,000.00 per occurrence.*

*It is absolutely paramount for the installer, the manufacturer and the end user to work together by assuring employees a safe operating door system.*

- *Factory Technical Training is available by request for everyone before, during and after an installation. (Video's, Webinar's)*
- *Factory Site Visits are available by request for optimal product recommendations and text book installation verification.*

#### **Activation:**

- Choosing the right activation for your specific application is critical in order to protect personnel from injury, product and the door system from damage.

#### **Safety Systems:**

- Safety Feature: Light curtains provide the ultimate protection inside the pathway of the door curtain vs. the use of photo eyes.
- Safety Feature: A soft bottom edge enhances safety by protecting against injury and damage.
- Safety Feature: Adjustable time delay before closing can be set to maximize throughput productivity yet minimize the chance of an impact.
- Safety Feature: Manual chain hoist provides the ability to open the door if the power goes out or to service the door.

#### **Smart Start NXT – Intelligent operator and control technology**

