



Hercules[®]
COLD STORAGE DOORS

A Tough Door For A Tough Job

Performance and Quality
for more than 50 years

www.alumashield.com

 **meTECNO**
alumashield



GLOBAL SCALE PERFORMANCE

From the ice caps of the South Pole to the desert of Saudi Arabia and at food manufacturing facilities all across America, Hercules Insulated Doors have been controlling temperature-sensitive environments under the most demanding

circumstances. Regardless of the space restraints or the application, Hercules has the right door for the job, backed up by the best engineering and customer support services in the industry.

LEGENDARY HERCULES® QUALITY

Since 1952, Hercules has been the door of choice for food manufacturers and distributors in the dairy, meat, produce, beverage, pharmaceutical and food processing industries.

Applications include Blast Freezers, Coolers, Ripening Rooms, Automotive Test Cells, Research Facilities, and countless other applications where extreme temperatures must be kept inside or outside.

THE BEST JUST GOT BETTER

Hercules is proud to introduce the next generation of insulated door technology. Space-age plastics and metals are now available to provide a new level of durability and protection. While retaining the current designs and performance features, the new Hercules doors offer improved resistance to rot, mildew, insect infestation, water intrusion and warping.

SOME THINGS NEVER CHANGE

Hercules now makes better doors, but we still maintain the popular features that make us the best in the industry:

- Engineering
- Reliability
- Performance
- Customer Service
- Technical Support

BUILDING FOR THE FUTURE

Metecno-AlumaShield is a recognized industry leader in sustainable building design. Our closed-cell, foamed-in-place insulation delivers the industry's highest R-values.

Our products help buildings last longer and save energy. We have years of expertise in designing for sustainability and have specifications and LEED credit information available.

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Hercules® COLD STORAGE DOORS



7
YEAR
WARRANTY

THE INDUSTRY'S BEST DOORS GET THE INDUSTRY'S BEST WARRANTY

After 50 years, we know how to make a dependable door. That's why we can offer the cold storage industry's best warranty. Every door that leaves the Hercules plant comes with a full seven-year written warranty against defects in both material and workmanship from the date of shipment. Simply stated, it's the best warranty in the business!

1. All heavy duty hardware and tracks coated for corrosion resistance
2. All standard Hercules power operators incorporate watertight NEMA-4 enclosure (UL Listed)
3. All electronic components are factory assembled and pre-wired for fast, simple installation
4. Foamed-in-place polyurethane insulation available in thicknesses from 2" (R-16) to 6" (R-50)

IMPROVED PERFORMANCE FROM HERCULES ELECTRIC OPERATORS

With energy costs always a concern, cold storage warehouse and food processing plant owners and operators realize the importance of the opening/ closing speeds delivered by their power operated doors. When Hercules power operators are combined with motion control devices such as a floor loop detector with time delay closing, energy loss is minimized. Hercules power operators are matched to specific operational requirements in order to ensure safe, dependable operation and maximum performance efficiency.

High Speed Electric Operator

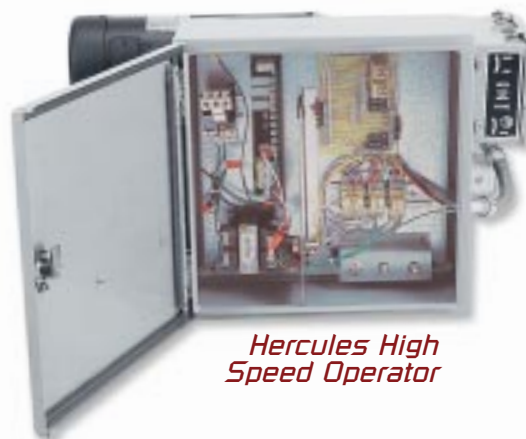
The Hercules High Speed Electric Operator is available for applications requiring very fast opening speeds. This operator features a 1 1/2 HP, 1725 RPM, 180 volt totally enclosed permanent magnet DC motor, 5:1 heavy duty gear reducer, adjustable torque limiter, and 230 volt AC single phase DC drive (460 volt AC single phase application requires external transformer). These features provide smooth operation with fully adjustable opening speeds from 12" up to 40" per second per leaf, and adjustable closing speeds up to 20" per second per leaf (factory set @ 12" per second, standard).

Dual Speed Electric Operator

The Hercules Dual Speed Operator (U.L. listed) was developed for applications which require fast opening. Continually updated and improved, it is designed with a 1 HP instant reversing electric motor with a 1725/1140 RPM and 5:1 gear drive. This combination results in an opening speed of 24" per second per door panel and a closing speed of 12" per second per door panel.

Standard Single Speed Electric Operator

Our standard electric operator (U.L. listed) incorporates features that most other door companies charge extra for, such as our totally enclosed fan cooled 1/2 HP motor and NEMA-4 control box with printed circuit board. The standard operating speed of this roller chain drive operator with 1725 RPM motor and 10:1 ratio gear drive, is 12" per second per door panel. To increase the opening or closing speed the following optional operators are available.



Hercules High Speed Operator



Hercules Standard Operator

OPTIONAL EQUIPMENT



After 50 years in the insulated door business, the professionals at Hercules have designed and built about every type of door imaginable. If you require something special to fit your specific application, we will either already have it, we'll find it, or we will design and build it. Our goal at Hercules is total customer satisfaction, so we're happy to work with you to build doors that deliver exactly what you need, when you need it.

The following optional equipment is available for your specification. If by chance you don't see what you need listed here, please contact your Hercules Door representative or call our home office. We'll be happy to discuss how we can satisfy your requirements.

DESIGNED FOR NON-STANDARD APPLICATIONS



Hercules has a worldwide reputation as the supplier of choice for specialty doors designed for non-standard applications. When you need an insulated door built for custom applications—and to a precise specification—you can be confident no one has more experience in the design and manufacture of special purpose doors than Hercules. Our sales, engineering and R&D team work with customers from the outset of a project, to custom design a new door, or adapt an existing design. Our job is to meet your performance requirements in the most efficient and economical way possible.

A few of our specialty doors are detailed here, but keep in mind that we will work with you to develop any custom insulated door.

Overhead Door for Gas Tight Applications

- Specially designed overhead door for use in ripening room facilities
- Sealing gaskets allow for the efficient containment of gases necessary for the ripening of produce
- Manual or power operation — available in 2" and 3" thickness
- Built in custom sizes for one, two and three-tier rooms



Pneumatic Door for Gas Tight Application

- Used in combination with ripening rooms, these doors help to conserve space and retain temperature, humidity and ethylene gas in the rooms
- Ideal for use where wide access is necessary, where there is minimum side room, or where several door openings are close together
- Suitable for ripening rooms, coolers, freezers and industrial buildings — available for interior or exterior application
- Equipped with automatic controls and a device to compress door gaskets
- Available in widths from 9 to 16 feet, and heights from 8 to 16 feet
- Interior or exterior application



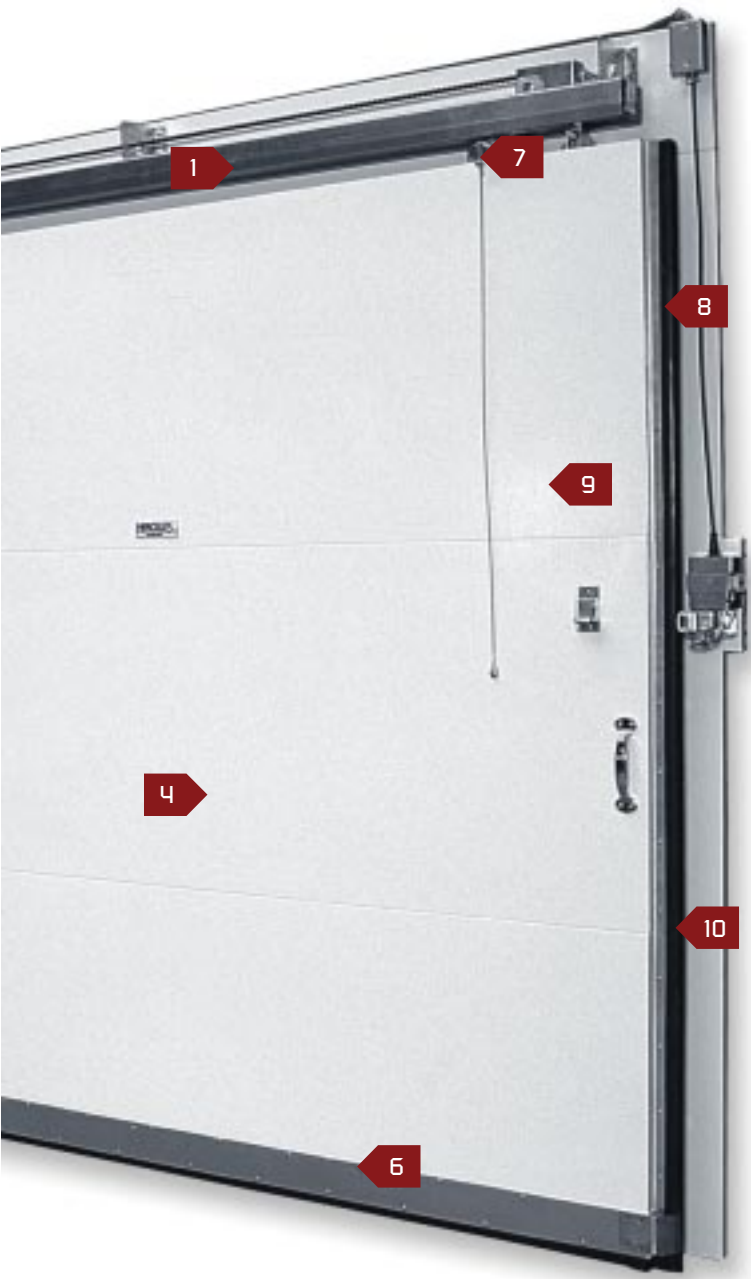
Banana Room Door

- Designed for special ripening room applications where temperature and humidity must be precisely controlled
- Provides gas tight sealing and total resistance to the corrosive nature of the humid environments created within the rooms
- Long noted for our expertise with this door, they are available in two standard size widths, 4'6" and 9' (single or double leaf) or in custom built sizes
- Multi-point latch for seal tight closings included

Controlled Atmosphere Door

- Designed to ensure maintenance of the strict environmental factors required for the dormant storage process often utilized with onions, apples, avocados, and other hard fruits
- Optional features include eccentric wheel clamps for vertical lift doors, perimeter lug clamps for horizontal sliders, special trolleys, gasketed floor angle, operable portholes and wicket doors





- 5. 120-volt perimeter cables keep gaskets frost-free
- 6. All seams sealed
- 7. Double "J" door track with 4-wheel adjustable trolleys
- 8. Perimeter neoprene seals
- 9. Standard finish - pre-painted white stucco embossed 26-gauge G-90 galvanized steel
- 10. Pneumatically actuated instant reversing edge

SUPERIOR STANDARD FEATURES DELIVER PERFORMANCE RELIABILITY

All Hercules motorized Insulated Doors include:

- Concealed inside manual release
- Totally enclosed fan cooled instant reversing motor.
- Pneumatically actuated instant reversing edge.
- Heavy duty enclosed gear drive with adjustable torque limiter.
- NEMA-4 control box with trouble free printed circuit board.
- External wiring enclosed in flexible waterproof conduit.
- Travel limit switch enclosure with convenient external adjustment.
- Smooth roller drive chains incorporating a special link for manual disconnect.
- Installers may conveniently shop for replacement parts online



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INFINITE DESIGN POSSIBILITIES



We only refer to these door models as “standard” because they happen to be our most popular designs. Yet, the only thing standard about them are their basic operating designs, because every Hercules Door is custom built. For example, we

build very large power operated bi-fold doors which incorporate a small walk-through access door for pedestrian traffic, yet we still call the door a bi-fold. Adding custom features to suit specific applications or difficult locations is part of the individualized service we are proud to offer at Hercules Doors. Our manufacturing professionals are noted for their ability to turn design challenges into routine jobs by adding unique features that don't complicate the door's operation.



Bi-Parting Horizontal Sliding Door

- Ideal for applications where fast opening and closing is important, especially in areas where material handling equipment such as forklifts and pallet jacks operate
- Suitable for coolers, freezers, warehouses and industrial buildings
- Available with electric or manual operation

Infitting Hinged Door

- Designed for use in environmentally controlled buildings such as freezers and coolers where only hand truck and personnel movement is necessary
- Suitable for both interior and exterior applications
- Available as a two-panel or “double” hinged door for larger openings



Sectional Overhead Door

- Designed for operation in tight spaces where side room and head room are limited
- Most efficient for use in coolers, freezers and industrial/commercial buildings



Vertical Lift Door

- Ideal for applications where there is minimum side room, or when several door openings are close together
- Suitable for drive-thru traffic in conjunction with forklifts and other freight transfer vehicles
- Available with electric or manual operation
- Double vertical lift door is also available if head room is limited to slightly more than half the door height
- Available with electric or manual operation

Bi-Folding Door

- Electric bi-folding door operates at a quicker clear opening speed and provides access for all types of material handling traffic
- Ideally suited for door openings where side room on both sides of the door opening is limited to twelve inches or less
- Especially well-suited for renovation or retrofit uses, it is available with manual or power operation for coolers, freezers and industrial/commercial buildings



Horizontal Sliding Door

- Utilized for both pedestrian and material handling traffic, this design is perfectly suited for applications where space limitations restrict the use of swinging doors, or when installation space is available only on one side of the door opening
- Most suitable when opening speed is not of great importance
- Available with electric or manual operation



CORROSIVE-RESISTANT PRODUCTS

Stainless Steel Doors

Bi-Parting Horizontal Stainless Steel Door

- Ideal for applications where fast opening and closing is important, especially in areas where material handling equipment such as forklifts and pallet jacks operate
- Suitable for coolers, freezers, warehouses and industrial buildings
- Available with electric or manual operation



Overlap Freezer Stainless Steel Door

- Ideal door for blast freezer and extreme low temp applications
- Most often used as a pedestrian traffic door for extreme low temperature



Vertical Lift Stainless Steel Door

- Ideal for applications where there is minimum side room, or when several door openings are close together such as with warehouse loading docks
- Suitable for drive-thru traffic in conjunction with forklifts and other freight transfer vehicles
- Available with electric or manual operation
- Double vertical lift door is also available if head room is limited to slightly more than half the door height
- Available with electric or manual operation



Thermal Break Stainless Steel Door

- Full thermal break of jambs, header/threshold and panel
- 16 ga. x 3 1/2" stainless steel jambs
- 24 ga. 304 or 316 stainless steel door panel
- Full perimeter weatherstripping
- 3'-0" x 6'-8" and 3'-0" x 7'-0" standard sizes
- Nylon lockset insert
- Stainless steel hinges
- Adjustable strike plate
- Excellent energy savings
- Attractive seamless appearance



Finish

1. Door panels and frames are available in these metal claddings:
 - 22, 24 gauge galvanized steel
 - .032 gauge stucco aluminum
 - stainless steel
2. Door panels may also be constructed of white fiberglass reinforced polyester (FRP), Plastisol, or Kydex, and trimmed in stainless steel with all stainless steel clad frame (casings and header).

Power Operation

Standard Electric, Dual Speed Electric and High Speed Electric are available

View Windows

12" x 12" acrylic vision panels are standard on industrial doors and gas tight overhead doors. Other specified glazings are also available. Insulated vision panels are available as an option on all cold storage doors.

Controls

1. Radio control - this device allows operators to remotely open and close doors set to different frequencies
2. Photoelectric cell open/close - available in single or multiple combinations to control one-way or two-way traffic flow
3. Time delay relay - when a set time elapses, this relay device activates the door's closing circuitry in order to save energy costs
4. Closing signal warning - signals when a door is closing to warn any approaching traffic
5. Motion detector - ultrasonic scanning device senses movement of any approaching vehicle

6. Partial opening pedestrian control - allows for minimum opening distance for pedestrian egress
7. Proximity wire loop - allows for "hands free" operation of the door by position of forklift traffic when used in conjunction with the time delay close option
8. Electric interlock - allows for linking operation of one door to another, or to the operation of any other controllable equipment such as conveyors, air curtains, etc.

Hardware

Corrosion resistant finish is standard. Chrome and stainless steel hardware are available as options.

Locking Devices

1. Padlocks
2. Cylinder locks
3. Solenoid locks

Kick Plates

For doors with metal cladding, steel kick plates may be added to protect against traffic abuse. Ask for specifications.

Rail Construction

Meat rail and monorail construction are available

Other Options

- Bumpers
- Pedestrian Pass Doors
- Heated Control Panel
- Inside Casings
- Escape Personnel Door with Panic Bar Release

THE COMPANY WE KEEP



These are some of the satisfied customers who depend on the quality and durability of Hercules Insulated Doors.

| | | | |
|-----------|-----------|-----------|---------|
| Kraft | Ford | Tropicana | Tyson |
| Coca-Cola | Motor Co. | Millard | Kroger |
| Anheuser | Wal-Mart | Sysco | Dreyers |
| Busch | U.S. Food | Publix | Conagra |
| Sunkist | Service | | |

Other Metecno-Aluma Shield Insulated Products

- Insulated Wall Panels – AW-200 (ribbed); AW-300 (shadowline); AW-400 (striated); AW-500 (azteco); HR-900 (hi-rib)
- Insulated Roof Panels – HR-900 (hi-rib), MR-100 (one piece membrane adhered)
- Sectional Insulated Panels for Overhead Garage Doors – Residential: Raised Panel, Long Raised Panel, Flush Commercial: Striated Shadowline



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Hercules Insulated Doors are manufactured by Metecno/Aluma Shield, a part of the growing Metecno family with 27 companies worldwide. Visit Metecno-Aluma Shield's website at www.alumashield.com or call 1-877 METECNO.