

A NEW GENERATION OF DOORS FOR TEMPERATURE CONTROLLED ENVIRONMENTS



QUALITY, DURABILITY & HIGH PERFORMANCE

- ✓ Wood Free Construction
- ✓ Superior Sealing
- ✓ Energy Efficient

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The **ICS** door designs incorporate the latest technology and materials available on the market today to provide years of dependable service. Our products are suitable for temperature controlled environments, including food processing, warehouses, distribution facilities and walk-in coolers and freezers.

ICS doors are ETL ANSI/UL 471 CAN/CSA C22.2 NO.120 listed and covered by a one year warranty.

Door Panels

Structural components are manufactured in aircraft grade aluminum extrusion or heavy duty corrosion resistant steel for durability and low maintenance. Door panel frames are produced in aircraft grade aluminum extrusion, reinforced with internal steel corner brackets for enhanced integrity. Door panels are clad with USDA or NSF approved white stucco embossed galvanized steel as standard and incorporate a no wood design.

Available at R-25 for coolers and R-32 for freezers in 4" panels, or R-48 for freezers in 6" panels, of foamed-in-place non-CFC polyurethane, for rigidity and excellent insulation characteristics.

Freezer doors are equipped with integral 115V door panel heaters at three sides and the bottom of the door. The heaters at the bottom of the door have the additional capacity to ensure that a warm "chamber" is formed under the door by the seals. This eliminates the need for costly in-floor heaters.

Header and Casings

All headers, casings, jambs and mirror image back frames incorporate a no wood design with the use of high density polyethylene extrusion, (HDPE). The HDPE is a maintenance free material that provides exceptional resistance to moisture, fading, insects, splintering and warping. Consistent density with no voids in the material minimizes the possibility of bacteria, molds and fungus growth and create a strong durable frame.

The HDPE has no wood fillers and has high color stability. The strength, durability and overall appearance of the HDPE mean that no additional steel cladding of the frame is required. Steel cladding of the HDPE is an option when the frame is required to match a non-white wall.



Exterior bow handles



Interior recessed handles



HDPE panel



Adjustable reinforced door seals, mounted on casings and header, correct wall irregularities for a positive seal, eliminating warm air infiltration



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Single Slide Manual and Power Doors

Our single horizontal sliding doors are the perfect solution for applications where space is only available on one side of the door opening. Single doors are suitable for personnel passage and hand cart traffic. Double doors may be specified for applications where high volume pallet truck and load handling equipment is used.

In-fitting Hinged Doors

In-fitting hinged doors provide a simple and cost effective solution for a wide range of cold storage applications. Single doors are suitable for personnel passage and hand cart traffic, whilst double doors may be specified for applications where high volume pallet truck and load handling equipment is used.

The **ICS** hinged door is a no wood design, incorporating HDPE for face frame, jambs and mirror image back frames. Doors have bulb gasket at the three opening sides for a positive seal.

Freezer doors are equipped with integral 115V heaters in three sides of the frame and the bottom of the door panel. A four sided bottom gasket on freezer doors provides a "warm" chamber under the door, eliminating the need for in floor heaters.

In-fitting hinged doors are available in standard sizes up to and including 5'0" WIC x 8'0" HIC. Please contact us for details of all other sizes.

Standard features include:



3 cam lift polished chrome hinges for even weight distribution



Interior push release, with nylon rod for freezer applications



Single point padlockable polished chrome latch



Dutch latch
For double door only



Cane bolt
For double door only



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Bi-Part Manual and Power Doors

Our bi-part horizontal sliding doors are suitable for applications where space is limited at either side of the door opening. The doors are appropriate for installations where there is high volume fork lift, pallet truck and load handling equipment traffic. Bi-part sliding doors provide single door access for personnel or double door access for load handling traffic.

Single slide and bi-part doors are available in standard sizes up to and including 12'0" WIC x 12'0" HIC. Single slide doors over 8'0" WIC will be split due to shipping regulations. Please contact us for details of all other sizes.

Single Vertical Slide Manual and Power Doors

Vertical sliding doors are used on exterior walls of refrigerated shipping and loading docks where openings are close together and there is ample ceiling height. In addition, they may be used for interior applications, where side room is not available for horizontal slide doors.

Standard features of **ICS** vertical lift doors include:

- 3" heavy duty corrosion resistant door track pre-mounted on vertical casings for easy installation
- 3" sealed nylon track rollers provide quiet, smooth operation
- Dual torsion spring counterbalance system
- Dual torsion spring with 1" solid shaft and heavy duty end bearings pre-mounted on header for easy installation
- 3/16" corrosion resistant aircraft steel cable for superior lifting strength
- Pre-wired control box on power operated doors for convenient wall mounting

Single vertical slide doors are available in standard sizes up to and including 10'0" WIC x 10'0" HIC. Doors over 8'0" WIC will be split due to shipping regulations. Please contact us for details of all other sizes.



Bi-part power doors



Single Vertical slide power door



Vertical track with roller



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Track System

Heavy duty aircraft grade extruded aluminum, together with a ultra-high molecular weight polyethylene (UHMW) triangle down and in door track system and a heavy duty "V" grooved wheel, ensure a tight and uniform seal for energy savings. This self cleaning track and floor mounted stay rollers guide the bottom of the door to a positive seal. This design eliminates early gasket wear and replacement.

Motor

- High quality brushless servo motor ensures positive positioning
- Back driveable without disconnecting from the chain
- High output torque
- Energy efficient
- Proven reliability
- NEMA 4

Controller

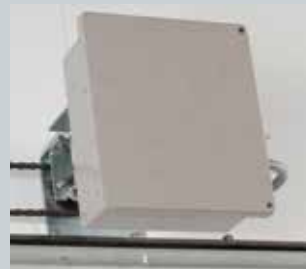
- Programmable speeds for open and close
- Electronic overload protection - no clutch required
- Electronic reversal
- Programmable acceleration and deceleration, with door opening speeds of up to 30 inches per second per panel and closing speeds of 18 inches per second per panel, contributing to energy savings
- Self sensing travel limits on open and close eliminates the need for limit switches, reducing maintenance and safety issues
- Soft start/stop, reduces wear on mechanical system
- 24V AC to power accessory options
- Optional battery back up in case of loss of AC power
- Built in cycle counter allowing you to schedule maintenance
- NEMA 4
- Pre-wired and tested at factory prior to shipping
- Voltages 115 – 575V at 50/60 cycles



"V" grooved wheel and track



Floor mounted stay rollers



Power models feature a dual speed operator with NEMA 4 control box



Chain adjustment assembly for #40 roller chain on power models

Controls

Standard 2 ceiling mounted pull switches, (1 heated for freezer applications)

Options include:

Partial open · Assist open · Time delay close
Radio control · Motion detector · Photo cell
Loop detector

Installation

All **ICS** doors are manufactured to exact customer specifications, not nominal dimensions, to meet the dedicated requirements of your application. Components are pre-wired and pre-assembled for quick and easy installation.



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Options

A comprehensive range of options is available for all **ICS** doors, allowing you to incorporate features tailored to your specific cold storage application.

Additional optional features include:

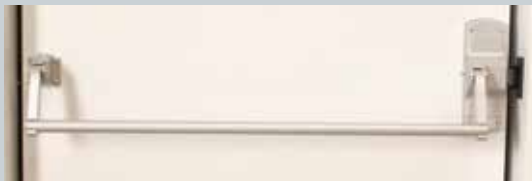
- High sill
- Keypad cylinder for hinged doors only
- Stainless steel hardware for hinged doors only
- Vision panels
- Kick plates
- Meat rail ports
- Rain hoods
- Interior jambs
- Back frames
- Locking devices
- Pedestrian pass doors for sliding doors only
- Alternative finishes
- Additional heated seals for sliding doors only



Double heat, double gasket option for extreme temperatures



Interior bump bar over inside push release with exterior padlockable latch



Panic hardware for exit only applications



Interior/exterior door closer

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