

## Rapidor® Freeze 2 High Speed Doors

Minimize condensation and lower energy costs with dual-curtain engineered high speed doors — combines roll-up self-repairing fabric doors and steel guides and components

- Operating speeds of up to 50" per second (1.3 m/sec) minimize door open time
- Self-repairing breakaway door
- Soft bottom edges
- Inverter and encoder standard
- Minimal maintenance
- Quiet operation
- Wireless safety edge or unroll sensor
- Photo eyes mounted inside side columns

### Tight-Sealing Freeze Door Technology

Rapidor® Freeze 2 fabric roll up doors combine fast cycling with high-energy insulation and sealing. The result is improved efficiency, lower energy cost and increased safety. Freeze 2 has two curtains that roll simultaneously creating a controlled air space when closed, the side frames are heated and minimize condensation on the door. Ideal for temperatures down to -20 °F (-28.9 °C) with no more than a 70 °F (21°C) temperature difference across the door. For use in indoor applications.

The door curtains are fabricated of reinforced PVC, with flexible weighted soft-bottom edges. The edge of the curtain has injection-molded teeth that move up and down in a self-lubricating polyethylene track attached to structural galvanized side frames. The drum and shafts are made of galvanized steel. Both the drum and the motor have galvanized covers. The standard motor is IP 54 2HP, with an incremental encoder mounted to the drum shaft to provide precision motor and door opening feedback.



The dual-curtain design reduces frost build up — when closed, the two curtains create a dead air space which is treated with a small amount of heated air.

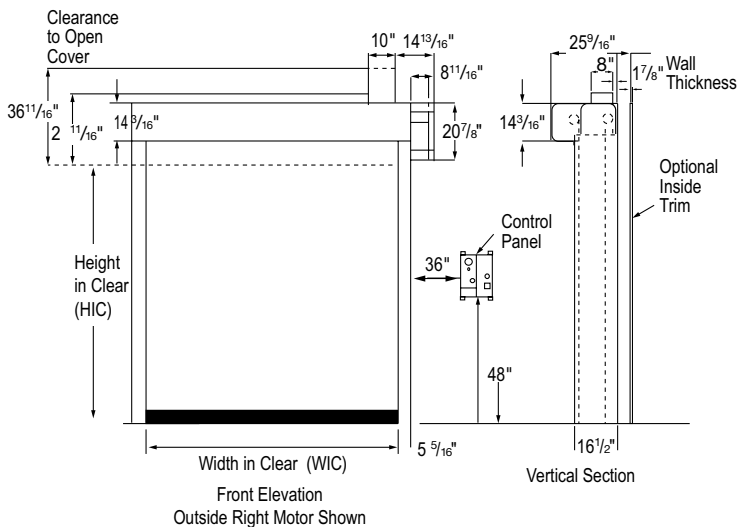
An infrared photocell NPN, IP67 is installed on the inside of the side guide and detects the presence of a pedestrian or vehicle. A bottom edge detector reverses the door when it hits an obstacle during the closing cycle. This detector can be either a wireless safety edge or a sensor that determines if the fabric can unroll properly. All hardware has protective coating against corrosion.

## Safety


The curtain can withstand forklift impact, which minimizes maintenance and downtime while maintaining a tight seal over the life of the door. Additionally, the reduction in frost build up improves safety on the floors for maintenance and production workers. The use of vision panels provides added safety in high production environments.

A bottom edge detector reverses the door when it hits an obstacle during the closing cycle.

## ► Technical Drawing



## ► Technical Specifications

Maximum sizes	16' W (4877 mm) 16' H (4877 mm)
Opening speed	Up to 50"/sec (1.3 m/s)* *Depending on door size
Closing speed	32"/sec (0.8 m/s)
Operating temperatures	Min temp -20 °F (-28.8 °C) with no more than a 70 °F (21.1 °C) temperature difference across the door. Use caution with high humidity applications.
Wind load	EN 124-24, Class 1
Side frame	U-shaped, galvanized steel standard, stainless steel optional
Track system	Self lubricating polyethylene
Door operation	Direct drive motor
Control panel	Galvanized steel painted RAL 7035, AC drive with integrated logic controller: <ul style="list-style-type: none"> <li>• Smooth acceleration and deceleration</li> <li>• Digital display of status and errors</li> <li>• LED gives status of all external inputs</li> </ul>
Distance between curtains	10" (254 mm)
Curtain color	7 standard colors: white, yellow, orange, red, dark blue, light gray and dark gray 
Power supply	208, 230, 460 VAC 3PH 60 Hz Fusible disconnect to be provided by the customer for 2HP motor Typical fusing is 7.5A/460VAC 15A/208, 230VAC Power for heat supply: 120V, 30 amp
Heat transfer	0.444 BTU / hr ÷ Ft² °F
Power unit mounting options	Motor can be mounted outside left or right. See drawing for details.
Safety devices	Anti-crash safety sensor, EN 13241, installed inside the side guide detects the presence of a pedestrian or a vehicle
<b>Options</b>	
Frame options	Stainless steel, powder coated (any color)
Window panel options	Round, oval, rectangular or full-vision
Emergency opening	Hand crank, counterweight, UPS battery, T-cut emergency exit in the curtain
Controls	Interlock system Digital programmer with display
Visual safety	Flashing warning light, LED traffic lights