Data sheet

Sliding cold storage door

KAVIDOORS USA

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Kavidoors refrigerated sliding doors are specially designed for use in **refrigerated spaces for chiller (+32 °F), freezer (-4 °F) rooms and freezer tunnels (- 40 °F)**. Ideal for negative temperature controlled environments such as laboratories, restaurants, meat industry or fishing industry, among others. It is recommended for installation in **cold rooms and access areas requiring large doors or overhead passages.**

The refrigerated sliding door has an **anti-fall-anti-tip safety system patented by Kavidoors** outstanding.

Maximum beam width	13 ft
Maximum passage height	20 ft
Maximum total area	40 ft

Leaf

MADE WITHOUT WOOD. Kavileaf is superimposed on the frame. Composed of an anodized aluminum inner frame. Lift filled with 4´´ of PIR foam, nominal density 40-45 kg/m^3.

The panel has a double flexible EPDM gasket that ensures a perfect seal. White lacquer trim with stainless steel finish. Perimeter gasket stripping around the leaf optimally sealing the door when it is closed.

For temperatures below 32 F, 50 w U.L listed heaters cables will be placed around the entire perimeter of the sheet.

Base material: Prelacquered galvanised steel sheet S220/ S250 steel from Z140 to Z275, 0.4 - 0.7 mm thick EN 10346 for galvanised coating EN 10169 for organic coatings.

Thickness (mm) Weight (kg/m^2) of panel with 0.5/0.5 mm sheet.

Thermal conductivity coefficient λ of Kavipanel + = 0.0205 W/mK, Initial value λ = 0.019 W/mK (Applus). Thermal transmittance determined according to Standard UNE-EN 14509, considering the effect of ageing of the insulating core. New "KAVIPANEL" PIR formula available with thermal efficiency of 0.0169 W/mK, best lambda in the market.

Temperature	+ 32 °F	0 °F	-40 °F
Panel thickness	4 "	5 "	6 "

Wall frame

Self-supporting refrigerated kaviframe built with L-shaped extruded aluminum profiles treated in 20 micronanodized polished silver, with white lacquer option.

This profile has a double thermal break bridge and aluminum trim that adjust to any thickness in panel chambers.

Guide

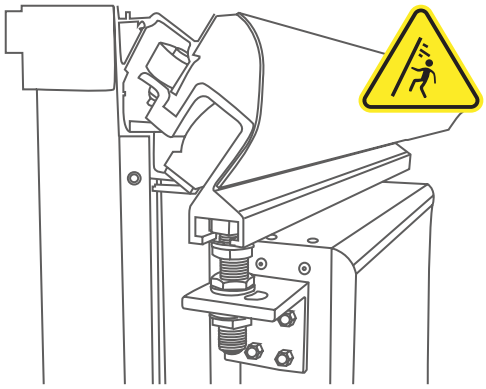
Guide on self-supporting refrigeration frame. The panel is clamped and **slides in one piece** through the **bearing carriage system**. It also has the anti-fall safety **system of the panel thanks to its double guide patented by Kavidoors**, thus complying with the CE marking, which establishes the minimum requirements related to the safety of the product regarding the prevention of occupational risks of accidents.

Lower guide formed by an aluminum guide profile on the panel, guide runner on the ground and pressure skid for the panel with the frame.

It has an **upper guide** formed by an aluminum profile with a polyethylene tread with a **double dip of 45°**.

Forklift passage embedded in the ground with housing for resistance.

The **hygienically designed aluminum track** cover **makes cleaning and maintenance easy.**



Safety anti-fall guidance system

At **Kavidoors we have patented an exceptional anti-fall safety system** for sliding doors on the market. This system consists of a **double safety guide** that allows the opening and closing of sliding elements. It is capable of **supporting large structural loads**, providing closure security by having technical characteristics and a design adequate „ which prevents it from being easily disassembled or released while moving or stationary.

Handles for sliding doors

Upper and Lower Rail and Handles in. Stainless steel and aluminium created by Kavidoors.

External handle Efficiency, adaptability and mechanical strength are the major advantages of the lever handles, suitable for positive and negative temperature doors up to 450 LB external for system with stainless steel track.

Power operation

Technical data:

- UL listed. Control box.
- Adjustable supply voltages: 230/460/575 V.
- Operating frequency: 50/60 Hz.
- Max output power of the door drive unit: 5.5 kW.
- Max rated motor current: 20 A.
- External mains supply: 24 V DC / 0.5 A.
- Inputs: 24 V DC / 0.1 A.
- Relay contacts: 24 V DC / 1 A each.
- Permissible temperature range: 15-105 F°.
- Humidity during operation: max 93% (non-condensing).

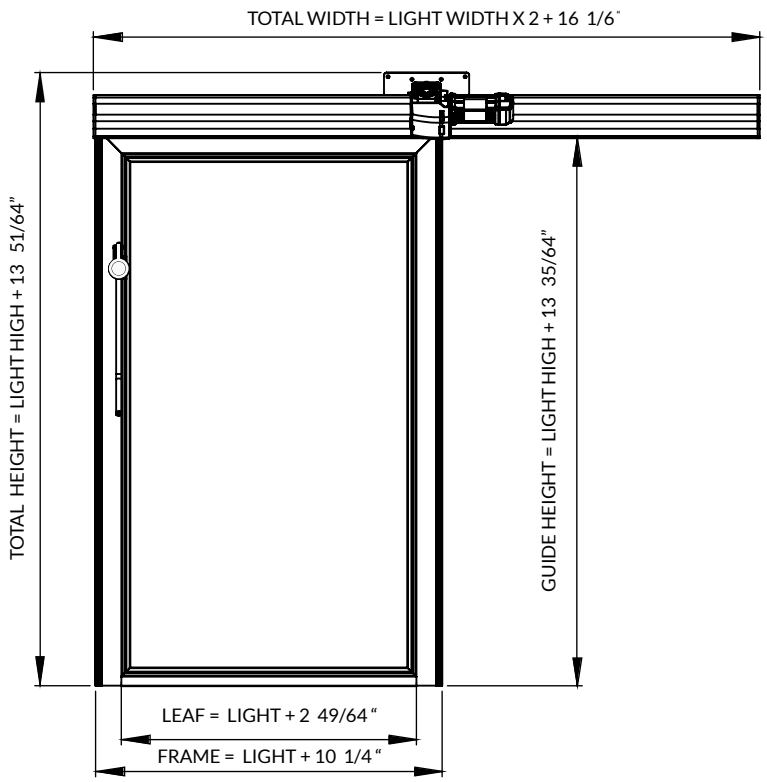
Certifications

FM APPROVED FM APPROVED FM 4880 · FM APPROVED FM APPROVED FM 4881 · FM APPROVED FM APPROVED FM 4882 · FIRE RESISTANCE E 120/EI 60* · FIRE RESISTANCE E 120/EI 60* · UL LISTED

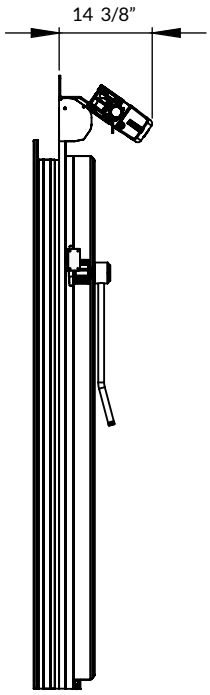
Options

- Custom panels.
- Automation.
- Choice of frame model.
- Hood system for overhead rail passage.
- Door designed entirely out of stainless steel.
- Industrial refrigerated sliding double door.
- Anodized trim.
- Pull handle.
- White lacquer frame.
- Double pane ISO-sight glass for chiller doors (+32°F).
- Lock for manual or automatic door.

Exterior view



Side view



Easy assembly
Quick and easy installation with low maintenance. Pre-assembled door.

Flexibility
Customizable to any thickness and frame.

Adjustable
Precision adjustment with 4 points. PE bearings.

Auxiliary structure
Does not require auxiliary structure.

Installation guide
Convenient access to the guide during installation, adjustment or repair.

Mechanical elements
Strong and durable mechanical elements.

Functional features
Optimal climatic, hygienic and sanitary functional qualities.

Frame
Self-supporting frame customizable to any thickness.

Food industry
Suitable for contact with food.

Airtightness
High level of airtightness and durability.

KAVIDOORS

info@kavidoors.us
+5790 NW 35TH AVE Miami,
FL 33142
kavidoors.us