Total Cost of Ownership (TCO) & Return On Investment (ROI) of refrigeration and freezer doors

Total cost Metaflex door system

Energy costs
25% to **30%** of total operating costs of cold stores are energy costs.

Construction investment
Doors cover **5%** to **10%** of the total construction investment.

Energy loss
In **50%** to **70%** of the cases, energy loss is due to poor operation of doors.

Dynamic energy loss by a refrigeration door

Below the results from a test of several doors with various dynamic data (opening time, size, temperature, etc). (case study: fish processing plant)

- **70** Automatic doors.
- **10** Open/closing cycles per day, 24/7, 365 days.
- **€0,183** **Per opening** (calculated by using Metaflex energy loss tool on different parameters such as size, open/closing time and temperature).

Annual cost: €8.760 per door

Insulation value

The higher the insulation value, the lower the static energy loss

Sliding door	Hinged door
Rc-value m2K/W: 4,13 t/m 8,87	Rc-value m2K/W: 1,72 t/m 8,34
Foodcare: 4,13	BDM: 3,08
Pollux Chiller: 4,13	BDM RF60: 1,72
MAK Chiller: 4,13	KDM Chiller: 4,13
Polaris Chiller: 4,13	VDM: 6,24
Polaris Chiller RF: 6,6	VDM Blast Freezer: 8,34
Polaris Freezer: 6,24	
Orion Freezer: 6,24	
Orion Blast Freezer: 8,87	

Efficiency: customized door that is tailored to every business process

Speed of opening
Max speed of a Metaflex door is 800mm/s

Maximum door sizes
Consider maximizing entrance (save time by acces of a truck or pallets) versus energy loss

Sliding doors
Width: 2000 t/m 3500 mm
Height: 2700 t/m 4000 mm

Hinged doors
Width: 1200 t/m 1300 mm
Height: 2400 t/m 3800 mm

Properties

Sliding or Hinged · Hygienic · Airtight · Insulation value · Water resistant · Fire-resistant

Options

- Double leaf
- Hatch version
- Automatic/manual (with door closer)
- Kickplate
- Window
- Protective bumper
- Panic bar
- Rail passage

Sustainable quality

A Metaflex door lasts for an average of 25 years

Maintenance/replacement
- Engine ± 15 years
- Rubber ± 10-15 years
- Door leaf not

Plenty of opportunities

Complete range of standard doors

but also

100% custom-made service