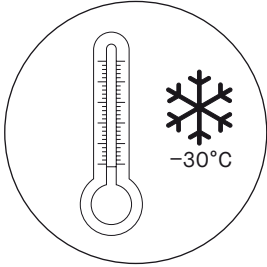
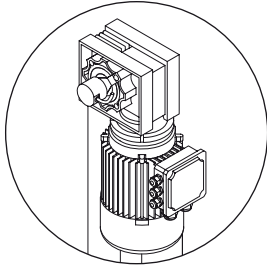


# Spiral 80

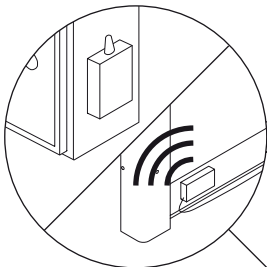
## Freezer applications



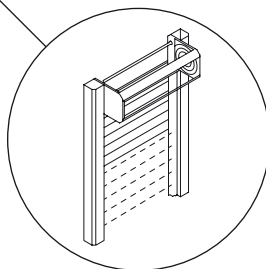
## Encoder



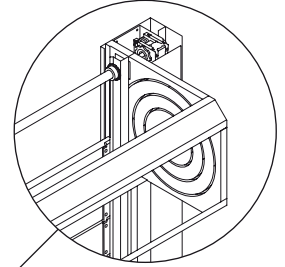
## Safety



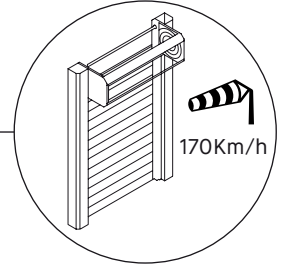
## Full safety



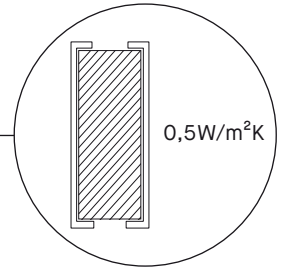
## Spiral rolling



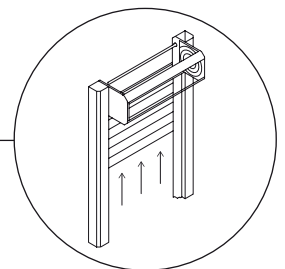
## Wind-load resistance



## Thermal Transmittance



## Speed



High Performance Door with insulated rigid panels leaf, vertical rolling in patented spiral guides, built in high density polyethylene, to assure smooth and noiseless high speed motion.

The rigid panels 80mm thickness are made by steel or aluminium double sheets and internal insulating foam in polyester, to reach thermal transmittance  $0,5W/m^2K$ . The external faces of the panel are painted in RAL color range or in anodized aluminium.

Suitable for application in refrigerated plant, optional heating system by warming cables.

The mechanical design of panels and guides allows high wind-load resistance in class 4.

The automation is moved by three-phase motor and inverter driver 400V, with opening and closing speed control (opening up to 1,8m/s) and relevant ramps. Speed and positioning are detected by digital encoder. Electro-brake for stanchioning and release device to move the curtain manually, balanced by counterweight.

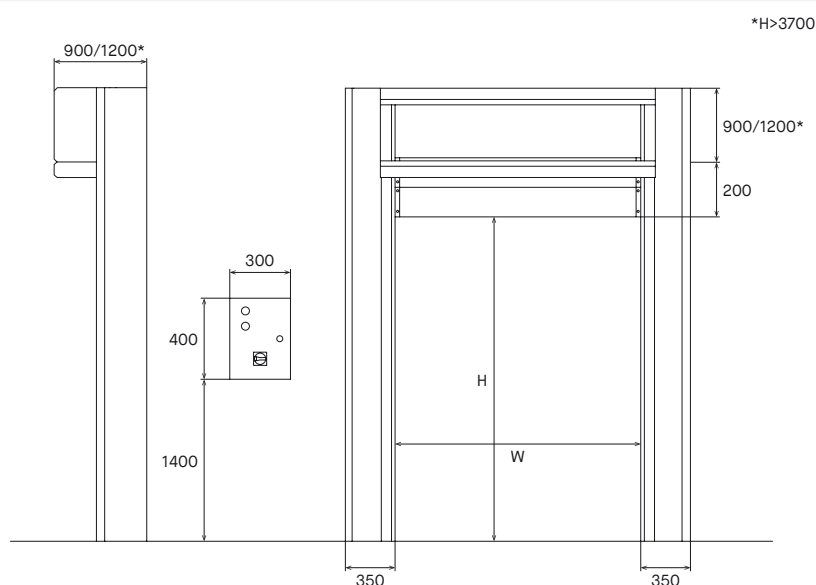
Safety system in conformity to EN12341-1 by standard safety devices for force limitation, in case of impact in closing.

## Technical features

<b>Maximum dimensions</b>	width×height	4000×4000
<b>Maximum speed</b>	opening – closing	up to 1,5m/s
<b>Wind-load resistance</b>	4000×4000	class 4
<b>Temperature range</b>	range	-30° ÷ 50°C
	max Δt internal/external	30°C
<b>Thermal transmittance</b>	standard	0,5W/m <sup>2</sup> K
<b>Heating system</b>	optional	heating cable for frame and motor
<b>Panels thickness</b>	standard	80mm
<b>Panels material</b>	standard	anodized aluminum
	standard	pre-painted steel
	optional	powder painting
<b>Panels insulation</b>	standard	polyurethane
<b>Side and spiral guides</b>	patented	high density polyethylene
<b>Frame covering</b>	optional	galvanized steel
	optional	painted steel
<b>Motor position</b>	built-in	vertical fitting
	side	horizontal fitting
<b>Motor power</b>	three phase	1,5/2,2/3,0kW – 50/60Hz
<b>Control unit</b>	inverter	400V – 50/60Hz
<b>Protection degree</b>	motor – control unit	IP54
<b>Position transducer</b>	standard	encoder
<b>Safety devices</b>	presence sensor	infrared photocell
	contact edge	resistive wireless edge
	integral system	progressive photocells barrier
<b>Emergency opening</b>	standard	counterweight
<b>Durability</b>	total life (EN 12604)	1 000 000 cycles

The Producer reserves the right to make technical modifications without forewarning.

## Dimensions drawings



## Automation accessories

- Additional push button
- Key pad
- Pool cord switch
- Key switch selector
- No touch sensor
- Remote radio system
- Microwave radar
- Induction loop
- Flashing lamp
- Traffic light