



Operations and maintenance manual

Swing doors

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General safety precautions

General information

This operations and maintenance manual applies to single and double winged swing doors and must be read carefully before putting the door into operation. Be particularly attentive to safety information.

Automatically operated swing doors; door users should receive thorough door operation instructions.

It is important to adhere to the service intervals to achieve the longest possible service life.

Warnings

This manual contains warnings in the text at certain points, where the reader should be particularly attentive to personal safety or in relation to the operations of the equipment. Warnings are displayed according to the following:

 Caution	<p>Caution Potentially harmful situation. Possible consequences: light or minor damages. The Product or items close by could be damaged.</p>
 Warning	<p>Warning Potentially dangerous situation. Possible consequences: bodily harm or serious equipment damage.</p>
 Note	<p>Note Important information about a product or parts of the user manual requiring special attention.</p>

Swing door use

Swing doors are used in areas with much traffic, where you want to separate two different environments. For example cold/heat, light/dark or clean/dirty.

Examples of use include; bakeries, slaughterhouses, cafeterias, shops, storage areas and catering centres.

In principle, there are no limits as to how often the doors are opened and closed, however, the time intervals between service and maintenance may vary depending on the door usage.

Limited use



When using automatic swing doors, do not stay in the door opening or around the door's swing radius, as there is a risk of being hit by the door, when it closes automatically.

Unpacking

The doors are wrapped in plastic on delivery.

If the doors are not mounted immediately upon receipt, they should be stored indoor and protected against moisture and variations in temperature.

Check if the packaging is intact before unpacking the door. If the packaging is damaged, thoroughly examine the content for damages.

In case of damages, inform both the haulage contractor and Door System. The damages must be documented in a report including pictures to be sent immediately to Door System.

Mounting the swing doors

In cases, where the door is not mounted by Door System's own service engineers, instructions for mounting are included in the package. Also available at www.doorsystem.dk



It is the customer's responsibility that the wall opening measurements matches the order confirmation unless it was measured by Door System's own staff.

Disposal

The door must be disposed of according to the national environmental legislation and regulations in force at the time in question.

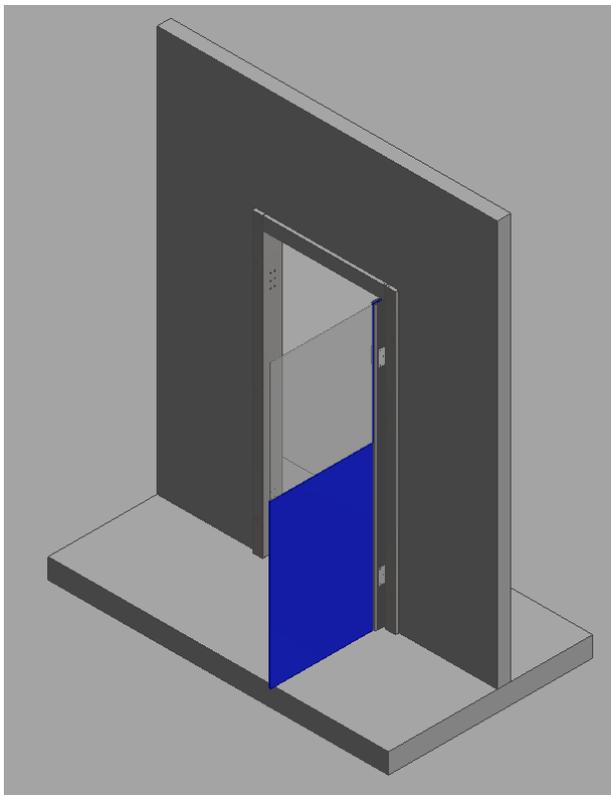
General information about swing doors

Swingdoors are made with U-frames, which means the door leaf is placed within the wall opening. The hinges are placed in the wall opening and can open to both sides in the door opening. The door opens either manually or by activating pull chord, radar, induction loop or via remote control. See descriptions of these functions in the section "Functional descriptions (options)".

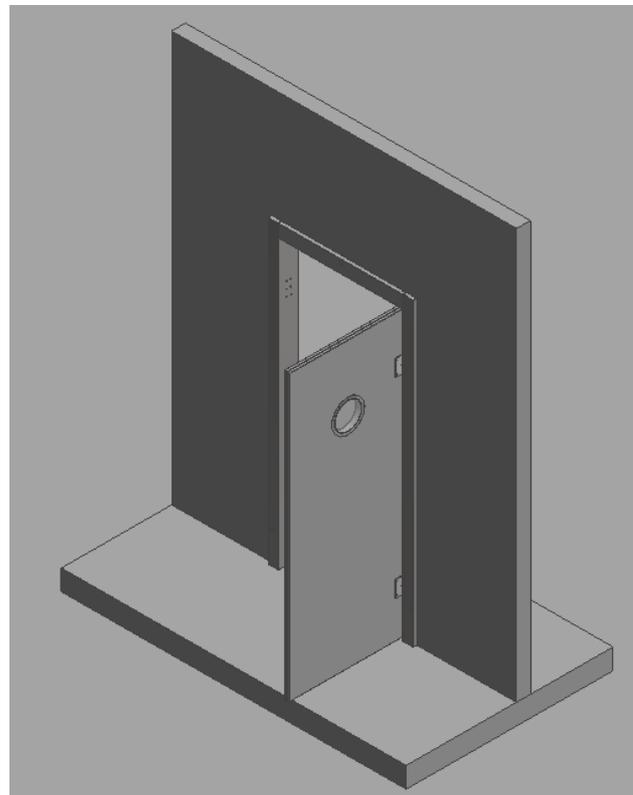
Technical specifications

Door thickness:	5 and 40 mm
5 mm swing doors:	Door leaf: Produced from 5 mm polycarbonate plastic (PC). Kick plate H=1200 mm: 1,5 mm ABS plastic on both sides of the door leaf. Shock bars: 300 and 600 mm hard plastic bumpers. Kick plate colours: black, blue, pale grey, dark grey
40 mm isolated swing door:	Door leaf: manufactured from galvanised steel , painted steel and stainless steel Insulation: Polyurethane(PUR) foam Colours: standard RAL colours
Back edge:	Aluminium profile fitted to the back edge of the door leaf
Frame material:	Strong stainless steel profile.
Operating temperature:	-40 °C to +40 °C.
Options:	Automatics Pull chord Radar Radio control Induction loop

Swing door projections



5 mm PC swing door

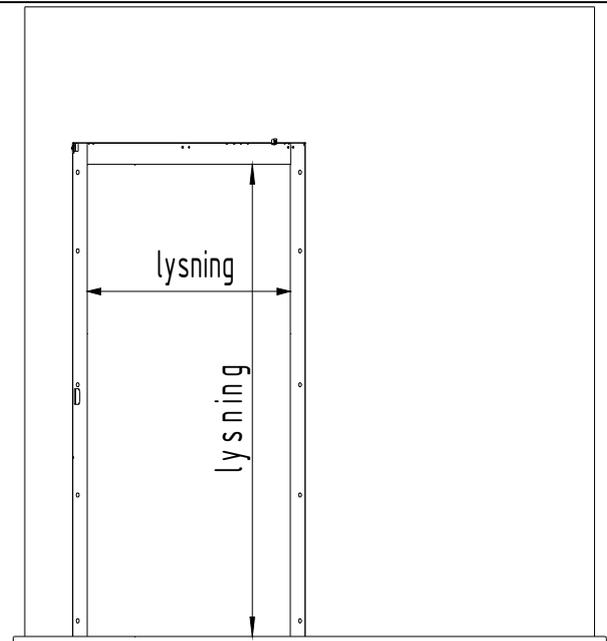
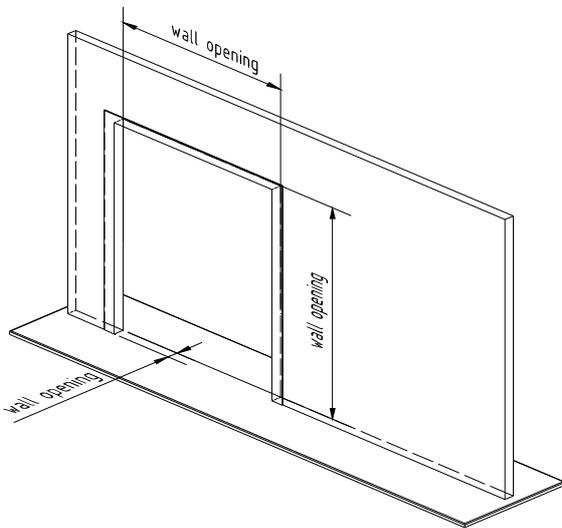


40 mm insulated steel swing door

Definition of wall opening measurements and frame measurements

Wall opening measurement:

Vertical distance between the two walls, the horizontal distance between the floor and the top of the ceiling, and the thickness of the wall is called the WALL OPENING MEASUREMENTS.



Frame measurement:

Vertical distance between the 2 frames at the side of the door and the horizontal distance between the bottom of the upper horizontal frame and the floor/threshold is called FRAME MEASUREMENTS. In other words, the light visible through the hole (Clear opening).

Functional descriptions (options)

Automatics

The automatic opens and closes the swing door(s) by means of one or two electro motor(s).

Pull chord

The door is opened by pulling a chord and closes automatically after a certain period of time. The time is set on the timer. This means that even if the door is already open, the pull chord must still be activated, or the door might begin to close while you are moving through the door.

The pull chord can also be set at a tilt function, meaning that the pull chord must be activated when opening the door and again when closing the door.

Radar

The radar can be used either for safety or to activate the door.

If the radar is used as safety radar, it will always open, when there is movement in front of the door.

If the radar is used to activate the door, the door will open when there is movement within the radar's "visual field". The door will close after at given period of time. The time is set on the timer. It is possible to install safety radar on one side of the door, and open/close radar on the other side of the door. This is to provide extra assurance of avoiding damages to persons or material.

Radio control

Radio control is a remote control for the door, often used in locations with truck traffic.

Induction loop

Magnetic field, which is buried in the floor. It registers when metal enters the area and opens the door. The door will close after at given period of time. The time is set on the timer.

Operations and maintenance

Ongoing preventive maintenance is essential for the operation of the door. If some parts does not function as intended, the safety and functionality of the door can be disturbed.

The best way to secure the optimal conditions for the door, to make sure the safety on the door is ok and to optimize the lifetime of the component in the door are by continuously maintenance of the door. The maintenance of the door should be performed regularly and minimum as described below.

It is the responsibility of the owner of the building to maintain the door as described below.

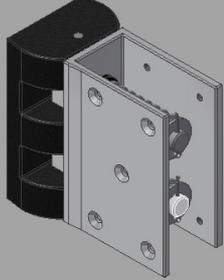
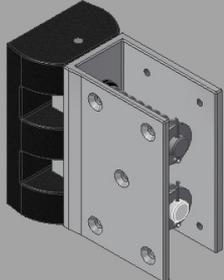
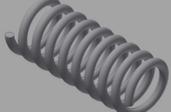


For the daily operations to be as smooth as possible, it is important that the maintenance items below are checked/carried out regularly.

	Subject	Control item	Control:					
			Visually	Annually	Bi-annually	Quarterly	Monthly	Daily
1	Rubber lists	The back edge rubber list must be intact.	X				X	
2	Open/close function	Control that the door opens easily compared to its size.	X		X			
3	Hinges	Greased when required (e.g. using Food Grease Plus)			X			
4	Accidental stress	If the door is subjected to collision that may cause a risk of personal injury, an inspection must be carried out.	X					
5	Spare parts	When ordering spare parts the door number should be stated. The door number is located on the door sign, attached to the door.						
6	Cleaning	Do NOT use thinner, acetone and ammonia for cleaning the PC door leaf, as it breaks down the plastic. Painted and stainless surfaces must be cleaned with mild soapy water. Wiping required. Under no circumstances clean with agents containing solvents (gasoline, thinner, alcohol or similar), abrasive or polishing agents, or wax, as these will reduce the product's service life.						
7	Lubrication	Once cleaned, stainless surfaces are covered by acid-free oil, approved for the industry in which the door is fitted.						
	Before putting the door into operation	Once mounted, remove the foil from the door and frames and lubricate with acid-free oil until the steel is saturated. This is done to avoid rust film and other substances getting stuck on the surface. Repeat this treatment after each cleaning, which could wash off the oil.						

Please direct any questions about the operations and maintenance to Door System's service department at +45 86 92 11 71.

Spare part list

No.	Description	Item no.	
1	Hinge with 3 mm spring	15-3059	
2	Hinge with 3.5 mm spring	15-3060	
3	Sealing strip back PC swing door	42-0065	
4	Spring, 3 mm	10-2602	
5	Spring, 3.5 mm	10-2603	