ENG

Instruction Book

ErgoSafe Sliding Window

ErgoSafe®

FLEXIBLE GLASS SOLUTIONS

THANK YOU FOR HAVING CHOSEN A SLIDING WINDOW FROM US.

We manufacture and supply electrically operated sliding window to receptions, agencies, municipal councils and restaurants in Sweden Denmark, Norway and Finland. Over the years, a number of various customised solutions have been developed, and today we have a product portfolio containing six models of electrically operated sliding window, where each model is tailored to the customer. The models are H80, H80RG, H100, V80, V80RG and V100. The first letter in the model designation indicates whether the sliding window operates horizontally (H) or vertically (V) when it opens. The number describes the depth of the sliding window. RG stands for clean glass edge. Our seventh model is the DT-sliding window SlideitUp, which is specifically designed to work for all customers in vehicles.

CRYSTAL CLEAR

ErgoSafe AB is a forward-thinking company that develops, manufactures, and sells flexible products in glass and aluminium. Electrically operated sliding windows, both as Drive Thru and for public environments, as well as glass balustrades, are included in our product range. The company was formed in 1996 and has more than 25 years of experience in putting glass into motion in order to create added value to the customer. Through our continual cooperation with our customers and suppliers, we generate new knowledge and innovative drive that we actively process to transform into better products and processes. We find it to be crystal clear that we must always focus upon the end user!

SWEDISH AND SUSTAINABLE

We are a Swedish company with our own factory in Halmstad where all our production and development takes place. This guarantees products of the highest quality that is manufactured by our own highly trained staff. We work in modern, well-equipped premises and in a working environment of the highest quality. Here we produce sustainable products made of fully recyclable materials with the utmost respect for our natural resources. Our ambition is to do things better, more efficiently and to have sustainability running through our every-day decision-making. For us, sustainability is a journey towards constantly becoming more resource efficient and making better and more environmentally friendly choices. We take responsibility for the environment and humankind.

QUALITY AND SAFETY

As a forward-thinking company, we constantly focus on quality and safety. We have a great number of customers who place high demands on us as a supplier. We find it obvious that we should live up to such demands. This requires that our products be tested and verified. The legal requirements and tests required depend on the products being sold and where they are installed. All of our electrical sliding windows are CE-labelled in accordance with the Machinery Directive. We conduct product and life-cycle tests using our own test equipment. For third-party verifications, we collaborate with accredited test institutes, such as RISE.

Contents

Technical Specification H80	5
Technical Specification H80RG	6
Technical Specification H100	7
Technical Specification V80	8
Technical Specification V80RG	9
Technical Specification V100	10
Technical Specification SlideitUp	11
Installation Instructions H80, H80RG, SlideitUp	12
Installation Instructions V80, V80RG, V100	13
Operation	14
Periodic Maintenance	15
Machine Cards	16
Troubleshooting Chart	17
Guarantee	18
Dismantling and Recycling	18
Declaration of Conformity	19

Material:

Extruded natural aluminium profile.

Glass:

6 mm laminated glass, as standard, safety glass. Special glass up to 8 mm.

Structure:

Horizontally sliding window with a top edge hinge. The window rolls on wheels with bearings in the top profile . The window is implemented in our H80 profilesyst em intended for indoor use.

Electrical sliding window:

As standard, the window is equipped with a 24 Volts DC motor with the associated control elec-tronics and software. The opening/closing of the window is done using an operation button. The power supply to the window and transformer which connection to a 230 V wall outlet.

Standard functions:

The window has a built-in pinch guard. When the window is in a closed state, it is not possible to open by hand. The window is equipped with a braking feature at the outer positions to provide smooth operation and to increase the useful life of the motor.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Manual sliding window:

A manual sliding window lacks a drive unit. Manual sliding windows come standard with a pull handle for operating and key lock.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Technical Specification

Electrical Sliding Window H80RG

Material:

Extruded natural aluminium profile.

Glass:

6 mm laminated glass, as standard, safety glass.

Structure:

Horizontally sliding window with a top edge hinge. The window rolls on wheels with bearings in the top profile . The window is implemented in our H80RG profilesyst em intended for indoor use.

Electrical sliding window:

As standard, the window is equipped with a 24 Volts DC motor with the associated control electronics and software. The opening/closing of the window is done using an operation button. The power supply to the window and transformer which connection to a 230 V wall outlet.

Standard functions:

The window has a built-in pinch guard. When the window is in a closed state, it is not possible to open by hand. The window is equipped with a braking feature at the outer positions to provide smooth operation and to increase the useful life of the motor.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Manual sliding window:

A manual sliding window lacks a drive unit. Manual sliding windows come standard with a pull handle for operating and key lock.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Material:

Extruded natural aluminium profile.

Glass:

D4-12 tempered insulating glass as standard, safety glass. Max thickness 24 mm

Structure:

Horizontally sliding window with a top edge hinge. The window rolls on wheels with bearings in the top profile . The window is implemented in our H100 profilesyst em intended for outdoor and indoor use. When located in climatic boundaries where there is a risk of driving rain, the window should be protected with a canopy or overhang to avoid water penetration.

Electrical sliding window:

As standard, the window is equipped with a 24 Volts DC motor with the associated control electronics and software. The opening/closing of the window is done using an operation button. The power supply to the window and transformer which connection to a 230 V wall outlet.

Standard functions:

The window has a built-in pinch guard. When the window is in a closed state, it is not possible to open by hand. The window is equipped with a braking feature at the outer positions to provide smooth operation and to increase the useful life of the motor.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Manual sliding window:

A manual sliding window lacks a drive unit. Manual sliding windows come standard with a pull handle for operating and key lock.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Technical Specification

Electrical Sliding Window V80

Material:

Extruded natural aluminium profile.

Glass:

6 mm laminated glass, as standard, safety glass. Special glass up to 8 mm.

Structure:

Vertically sliding window, with counterweight. The window is controlled by wheels with bearings in the side profile . The window is implemented in our V80 profilesyst em intended for indoor use.

Electrical sliding window:

As standard, the window is equipped with a 24 Volts DC motor with the associated control electronics and software. The opening/closing of the window is done using an operation button. The power supply to the window and transformer which connection to a 230 V wall outlet.

Standard functions:

The window has a built-in pinch guard. When the window is in a closed state, it is not possible to open by hand. The window is equipped with a braking feature at the outer positions to provide smooth operation and to increase the useful life of the motor.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Manual sliding window:

A manual sliding window lacks a drive unit. Manual sliding windows come standard with a pull handle for operating and key lock.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Material:

Extruded natural aluminium profile.

Glass:

6 mm laminated glass, as standard, safety glass.

Structure:

Vertically sliding window, with counterweight. The window is controlled by wheels with bearings in the side profile . The window is implemented in our V80RG profilesyst em intended for indoor use.

Electrical sliding window:

As standard, the window is equipped with a 24 Volts DC motor with the associated control electron-ics and software. The opening/closing of the window is done using an operation button. The power supply to the window and transformer which connection to a 230 V wall outlet.

Standard functions:

The window has a built-in pinch guard. When the window is in a closed state, it is not possible to open by hand. The window is equipped with a braking feature at the outer positions to provide smooth operation and to increase the useful life of the motor.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Manual sliding window:

A manual sliding window lacks a drive unit. Manual sliding windows come standard with a pull handle for operating and key lock.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Technical Specification

Electrical Sliding Window V100

Material:

Extruded natural aluminium profile.

Glass:

D4-12 tempered insulating glass as standard, safety glass. Max thickness 24 mm

Structure:

Vertically sliding window, with counterweight. The window is controlled by wheels with bearings in the side profile . The window is implemented in our V100 profilesyst em. When located in climatic boundaries where there is a risk of driving rain, the window must be protected with a canopy or overhang to avoid water penetration

Electrical sliding window:

As standard, the window is equipped with a 24 Volts DC motor with the associated control electron-ics and software. The opening/closing of the window is done using an operation button. The power supply to the window and transformer which connection to a 230 V wall outlet.

Standard functions:

The window has a built-in pinch guard. When the window is in a closed state, it is not possible to open by hand. The window is equipped with a braking feature at the outer positions to provide smooth operation and to increase the useful life of the motor.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Manual sliding window:

A manual sliding window lacks a drive unit. Manual sliding windows come standard with a pull handle for operating and key lock.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Material:

Extruded natural aluminium profile .

Glass:

D4-12 tempered insulating glass as standard, safety glass. Max thickness 24 mm

Structure:

Horizontally sliding window with a top edge hinge. The window rolls on wheels with bearings in the top profil e. The window is implemented in our H100 profile system intended for outdoor and indoor use. When located in climatic boundaries where there is a risk of driving rain, the window should be protected with a canopy or overhang to avoid water penetration. As an option, the window is available with an electrically heated bottom plate and an over-door fan with the accompanying control.

Electrical sliding window:

As standard, the window is equipped with a 24 Volts DC motor with the associated control electron-ics and software. The opening/closing of the window is done using an operation button. The power supply to the window and transformer which connection to a 230 V wall outlet.

Standard functions:

The window has a built-in pinch guard. When the window is in a closed state, it is not possible to open by hand. The window is equipped with a braking feature at the outer positions to provide smooth operation and to increase the useful life of the motor.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Manual sliding window:

A manual sliding window lacks a drive unit. Manual sliding windows come standard with a pull handle for operating and key lock.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Receipt of Delivery

Transport damages and defects in the scope of the delivery shall be indicated on the consignment note and be reported to the carrier, as well as to ErgoSafe. The report shall be made within one week of receiving and before the window is installed. Defects in workmanship and delivery or damage by the carrier cannot be invoked if the specified time frame has not been met.

Prior to installation

Carefully read through the installation instructions before installation. Please note that the stated dimensions are the actual measures of the window. Make sure:

- that the wall opening is sufficiently large.
- That the base is level. This is very important to the function of the window. If the surface is uneven, there is a risk that the bottom part of the window will bend, which will cause the moving part to get stuck.

Installation

The window shall have at least four attachment points, more if necessary. Drill holes for the attachment screws before lifting the window in place. Mind the aluminium shavings and avoid having them get stuck in the moving parts or ending up in the wheel track. Position the window so that there is an equal amount of space on both sides. Using a spirit level, make sure that the window is level, and make sure that the window is not leaning outward or inward. Attach one side to the wall using a suitable screw for the surface; spacer block should be used so as not to bend the profile. Make sure that the movable window moves freely in the U-track, if there is one, by pulling the window by hand. If it does not, you now have the ability to adjust this by pulling or pressing the unattached side inward or outward. When the movable part runs freely in the U-track, screw the window in place.

Test Run

A test run shall be conducted in connection with the installation of the sliding window.

Electrical sliding windows

Connect the power cord coming from the accompanying transformer and plug the transformer into the wall outlet. When you press the button in, the window will take reading to find its end position. Once the window has found its end position, the window will brake before it is fully open or closed. Make sure that the window runs freely in the U-track if one is present. If it does not, repeat the step at Installation in order to get the window to run freely in the U-track.
Make sure:

- that the motor runs smoothly and does not sound stressed during operation.
- that the moving part moves easily without a scraping sound.

Joining and Lining

It must be possible to dismantle the aluminium lid on the inside so that periodic maintenance and service can be performed. Sealing foam must not be used to seal the gap between the window and the wall.

Cable Routing

Lay the cables using cable ducts or equivalent. Do not run cables hidden behind fixtures. Keep in mind that it is not permitted to attach suspended blinds or similar in the aluminium construction of the window.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Receipt of Delivery

Transport damages and defects in the scope of the delivery shall be indicated on the consignment note and be reported to the carrier, as well as to ErgoSafe. The report shall be made within one week of receiving and before the window is installed. Defects in workmanship and delivery or damage by the carrier cannot be invoked if the specified time frame has not been met.

Prior to installation

Carefully read through the installation instructions before installation Please note that the stated dimensions are the actual measures of the window. Make sure:

- that the wall opening is sufficiently large.
- That the base is level. This is very important to the function of the window. If the surface is uneven, it poses a risk that the moving part will not be able to close.

Installation

The window shall have four attachment points, more if necessary. The window shall be fastened upwards and downwards, a spacer block should be used in order not to bend the profile. Drill holes for the attachment screws before lifting the window in place. Mind the aluminium shavings and avoid having them get stuck in the moving parts or ending up in the wheel track. Position the window so that there is an equal amount of space on both sides. Using a spirit level, make sure that the window is level, and make sure that the window is not leaning outward or inward.

Test Run

A test run shall be conducted in connection with the installation of the sliding window.

Electrical sliding window

Connect the power cord coming from the accompanying transformer and plug the transformer into the wall outlet. When you press the button in, the window will take reading to find its end position. Once the window has found its end position, the window will brake before it is fully open or closed. Make sure that the window runs freely in the U-track, if one is present. If it does not, repeat the step at Installation in order to get the window to run freely in the U-track. Make sure:

- that the motor runs smoothly and does not sound stressed during operation.
- that the moving part moves easily without a scraping sound.

Joining and Lining

It must be possible to dismantle the aluminium lid on the inside so that periodic maintenance and service can be performed. Sealing foam must not be used to seal the gap between the window and the wall.

Cable Routing

Lay the cables using cable ducts or equivalent. Do not run cables hidden behind fixtures.
Keep in mind that it is not permitted to attach suspended blinds or similar in the aluminium construction of the hatch.

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se

Operation

Functions:

The functions of the window are controlled by control electronics and associated software. The software features an overload protection that stops the window if it runs into an object. An electrical sliding window shall not be used as a manual sliding window. Important safety functions in the control electronics of the window do not work as intended if the window is used as a manual sliding window. The window components may be damaged if the window is used as a manual sliding window.

Control unit:

There is double-sided tape on the rear of the control unit. To attach the control unit, remove the red protective foil and press the control unit in place on a well-cleaned surface. The control unit must be installed in such a way that it is not exposed to moisture.

Control unit function:

With a quick press of the button, the window opens/closes completely. If the button is held down, the window stops once the button is released.

Lock

As standard, the window comes with an electronic lock that is managed by the door's control electronics, this is not to be considered as a night lock, but rather is primarily used to prevent the door's moving part from being opened by external manual force.

Electric Lock

As an option, the electrically operated sliding window can be supplied with an electric lock; locking takes place over one or more fixed locking points.

Key Lock

As an option, an electric sliding window can be supplied with a key lock, which locks the door in the closed position. Comes as standard for manual windows.

Periodic maintenance and service

Periodic maintenance and service must be carried out according to the inspection plan below and the machine card must be filled in. Maintenance must be carried out at least once every 12 months or more often if necessary.

Inspection points

Cleaning: The window shall be cleaned with a mild detergent without any abrasive additives.

Wheel Track: Must be free of dirt and grease; clean the wheel track as needed.

Belt: Make sure that the belt is sufficiently tensioned. Change the belt if it shows signs of cracking and/or is dry. Lubricate the wheel on the belt tensioner with white lithium grease.

Running Wheel: The wheels must roll easily in the wheel track, check that the flange nut holding the wheel in place is tightened. If there is a gap between the wheel axle and the rolling track and/or if the wheel emits a "ticking" sound, the wheel should be replaced. If small balls are found in the wheel track, it is a sign that the running wheel is damaged; replace the running wheel.

Motor: Check to ensure that the belt wheel is firmly on the motor axle and that the cabling is not damaged. Replace the motor if necessary.

Control Electronics: Check to ensure that the window stops at its end points. A green light indicates that the Control electronics have power. The red lamp will turn off when the window has reached its end position.

Brush Strip: If there is a brush strip, ensure that it is firmly attached and that it closes tightly against the moving part. Replace as necessary.

Counterweight Block: If there is a gap between the wheel axle and the rolling track and/or if the wheel emits a "ticking" sound, the wheel should be replaced. If small balls are found in the bottom of the window, it is a sign that the counterweight block is damaged; replace the counterweight block.

Counterweight Line: Make sure that line is stop is not damaged. It is very important that the rope does not rub against anything when the window moves. Replace the line if there are any visible damages.

Control Unit: Check that the functions of the control unit are working; the door should open and close at the touch of a button. Replace the control unit if the pressure membrane has been punctured.

Transformer: Visually inspect the transformer for any visible damage, and make sure that the transformer is clear of any height-adjustable desk. Replace the transformer if it is damaged.

Lock: Make sure that the locking function is in place and that the lock runs easily. Replace as necessary.

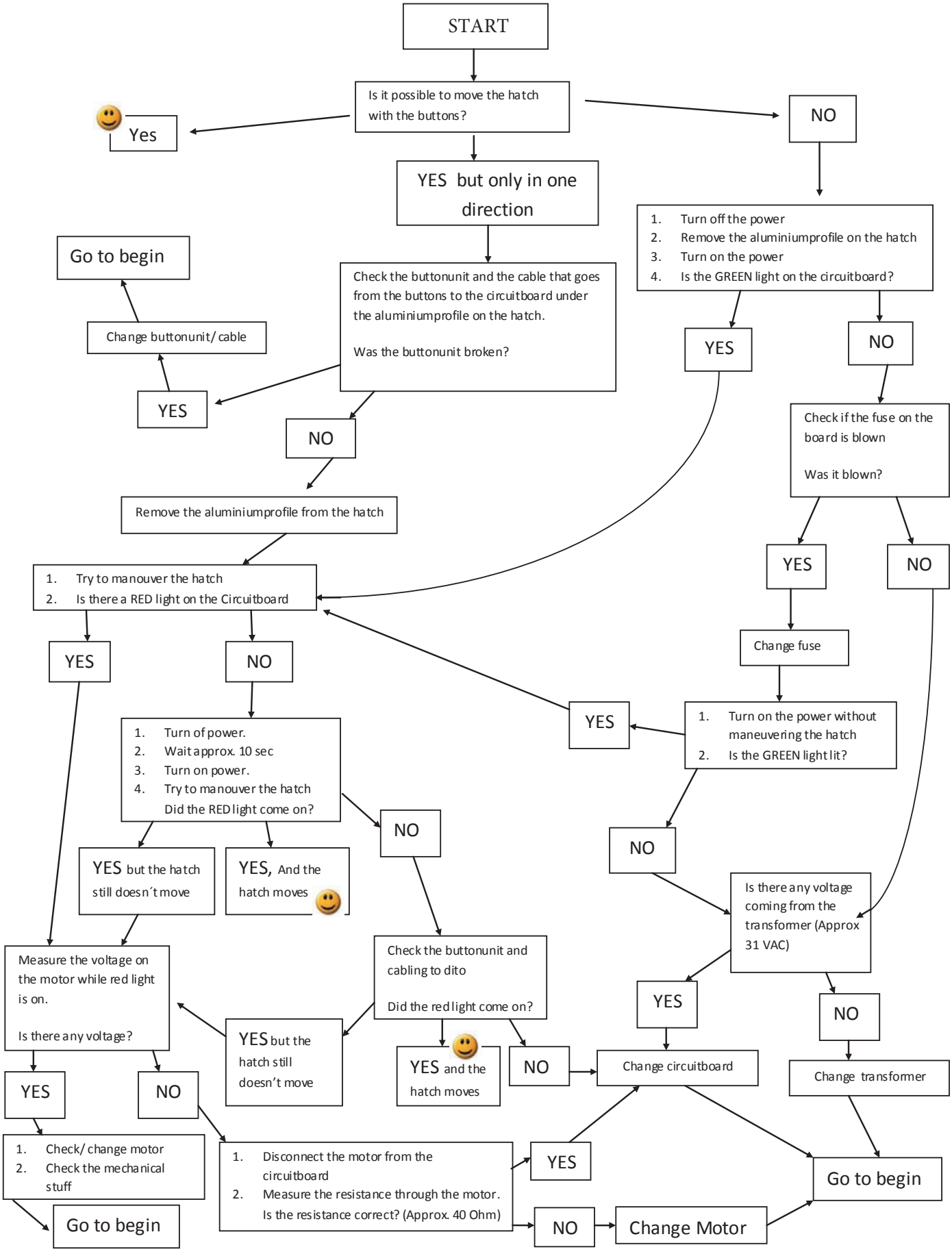
Curtain Fan: Clean as needed. Inspect the functions.

SBMS Fan Control: Check that the fan starts/stops when the window is opened/closed.

Machine Cards

Date	Measure	Name/Company/Telephone

Troubleshooting Chart



Guarantee

As standard, ErgoSafe AB offers a 24-month guarantee. The guarantee applies to manufacturing defects.

The Guarantee does not cover: Faulty assembly. The use of the product in a manner for which it is not intended or for external wear and tear. Disassembly of the cover for access to the window, and reassembly of the cover after completion of the work.

In order to make a guarantee claim, the window must have been assembled in accordance with the assembly instructions. Periodic maintenance shall be followed and documents in the supplied machine cards.

It is not permitted to attach suspended blinds or similar in the aluminium construction of the window.

For glass guarantees, refer to the guidelines set out by the Swedish plate glass association, SPF.

If in doubt, contact ErgoSafe or get more information at **www.ergosafe.se**

Dismantling and Recycling

When dismantling ErgoSafe's sliding windows, the installation instructions shall be reviewed, and the dismantling be performed in reverse order.

N.B.!

Risk of cuts. Exercise care when handling glass. The product consists of glass that, in the event of incorrect handling, can break and cause injuries.

When disassembling V80, V80RG, V100, there is a counterweight used to balance the moving part. When a counterweight is to be dismantled, the window must lie horizontally, or else it poses a risk of the moving part falling down and causing injury.

MATERIAL RECYCLING

All metals are sorted as metal recycling.
Plastic and rubber are sorted as inflammable materials.
Glass is sorted as filling material.
Electrical components are sorted as electronic.

(1) ErgoSafe AB
Reparatörgatan 1
302 62 Halmstad

(2)

(3) -

(4) Machinery Directive and EMC Directive

Declaration of Conformity

We (1) declare under our own responsibility that the product (2) covered by this declaration is in conformity with the following standards or other regulatory documents (3) under the terms set out in this directive (4)

Fredrik Johansson
VD ErgoSafe AB


Drive Thru - SlideitUp


Sliding Windows - ErgoSafe


Glass Balustrades - ClickitUp®

ErgoSafe®

FLEXIBLE GLASS SOLUTIONS

ErgoSafe AB | Reparatörgatan 1 | SE-302 62 Halmstad | +46 (0)10-480 47 00 | www.ergosafe.se