



# Ecolid<sup>®</sup>

FOLDING DOOR

 A quality Swedish door from Tråvad



As one of Europe's largest manufacturers of folding doors, we produce more than 7,000 high-quality industrial doors per year in our highly automated and state-of-the-art facility in the middle of the Swedish province of Västergötland.

With 45 years of experience, we can offer you an industrial door solution that not only provides high functionality but also contributes to an attractive and thought-out environment throughout the property. Our highly automated production equipment combined with our focus on efficiency and quality means that we offer highly competitive doors which guarantees low costs for you as a customer for many years to come.

Our extensive experience has taught us that development and manufacturing must be performed together. To enable full control, we try to do everything in our own factory.

A good ability to listen to the client and the user's requirements has taught us that there is no one product that is suitable for everyone and that the design is very important for the overall solution. The doors must be customised according to the opening and be easy to install and maintain.

Quality pays for itself. That is why a 7-year warranty and the market's lowest maintenance requirements are standard on our products. Maintaining high quality costs but at the same time the right selling price is important. Our main focus is therefore on automation in production and efficiency in organisation.

It is not just the product that makes up the overall solution; the related services are just as important. Let our technical support department assist you and our installation organisation ensure that your Prido door is installed according to your expectations.

Short delivery times and high delivery reliability are our hallmarks – Contact us to see what we can offer.





## Why you should buy the Ecolid door:

- Sweden's best-selling folding door
- Developed and manufactured in Sweden
- Endurance tested for 1 million opening cycles
- Low maintenance costs
- Top class design and finish
- Approx. 40% better U-Value than framed folding doors
- Air permeability class 4, air leakage 1.8 m<sup>3</sup>/m<sup>2</sup> h in accordance with EN12426
- Simple and easy to install and disassemble
- Requires minimal spaces at sides and overhead
- Robust and easy-to-manoeuvre automatic assembly fittings
- Top class corrosion protection
- All crushing risks have been eliminated in the design
- An environmentally friendly alternative
- CE-marking in accordance with European Standard EN13241 for doors
- The size is fully customised with a variety of different finishes
- Optional intruder protected design according to SSF1074 class 2
- Short delivery times and high delivery reliability
- 7-year warranty

**7** år  
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# Maintenance costs

## Are industrial doors expensive to own?

A folding door, particularly Ecolid, is the obvious choice if you want to avoid high costs.

Many of the components which contribute to high maintenance costs in other door types are not needed in a folding door. We are referring primarily to torsion springs, wires and side guide rollers.

The folding door's sideways movement means that the number of collision injuries with collapsed bottom sections and very expensive repairs almost disappear. Our 45 years of experience shows that collisions reduce by approx. 75% if you choose a folding door instead of a vertical sliding door.

The Ecolid door is optimised to require a minimum level of service. During normal use, we prescribe an 18-month interval between each service on motor operated doors. The service that will be performed is very simple; in principle it involves checking screws and bolted connections.

This is a small job that can be managed without the need of specialised door technicians.

The function of the door's anti-crushing protective strips, photocells and load monitor should also be checked annually.

These actions are also simple and can be performed without professional assistance.

Should any part need to be replaced, you can buy it directly from us as manufacturer without intermediaries at the lowest price.





**SEK 5,663**

ECOLID – manual



**SEK 14,128**

ECOLID with PriDrive motor



**SEK 33,870**

OVERHEAD DOOR - motor operated

|  |  |   |
|--|--|---|
|   |   |   |
| <p>Service and call out cost every 36 months:<br/>SEK 1,155 each time, 3 times/10 years<br/>Total cost = SEK 3,465</p>   | <p>Service and call out cost every 18 months:<br/>SEK 1,155 each time, 6 times/10 years<br/>Total cost = SEK 6,930</p>   | <p>Service and call out cost every 12 months:<br/>SEK 1,155 each time, 10 times/10 years<br/>Total cost = SEK 11,550</p>  |
| <p>Inspection by inspection body:<br/>SEK 0 each time,<br/>Total cost = SEK 0</p>  | <p>Inspection by inspection body:<br/>SEK 1,000 each time, 5 times/10 years<br/>Total cost = SEK 5,000</p>   | <p>Inspection by inspection body:<br/>SEK 1,000 each time, 5 times/10 years<br/>Total cost = SEK 5,000</p>  |
| <p>Replacing Teflon bushings and sealing strips:<br/>Normally replaced once every 10 years<br/>Material SEK 398, labour SEK 1,800<br/>Total cost = SEK 2,198</p> | <p>Replacing Teflon bushings and sealing strips:<br/>Normally replaced once every 10 years<br/>Material SEK 398, labour SEK 1,800<br/>Total cost = SEK 2,198</p> | <p>Replacing torsion springs:<br/>Normally replaced after 25,000 openings<br/>Material SEK 10,400, labour SEK 3,600<br/>Total cost = SEK 14,000</p>               |
|   |   | <p>Replacing wires, side rolls and side seal:<br/>Normally replaced after 50,000 openings<br/>Material SEK 1,520, labour SEK 1,800<br/>Total cost = SEK 3,320</p> |
| <p><b>Total cost 10 years = SEK 5,663</b></p>  | <p><b>Total cost 10 years = SEK 14,128</b></p>   | <p><b>Total cost 10 years = SEK 33,870</b></p>  |

Prerequisites: Doors 4x4 m, 20 openings per day, 250 days/year, hourly rate SEK 600, distance to service firm 30 km, SEK 850/km, 10 year usage. It is assumed that inspections by inspection bodies are performed in connection with other inspection in the same operating site. Ecolid's material costs according to Prido AB's spare parts price list. The overhead door's spare parts prices are according to information from an established service firm.

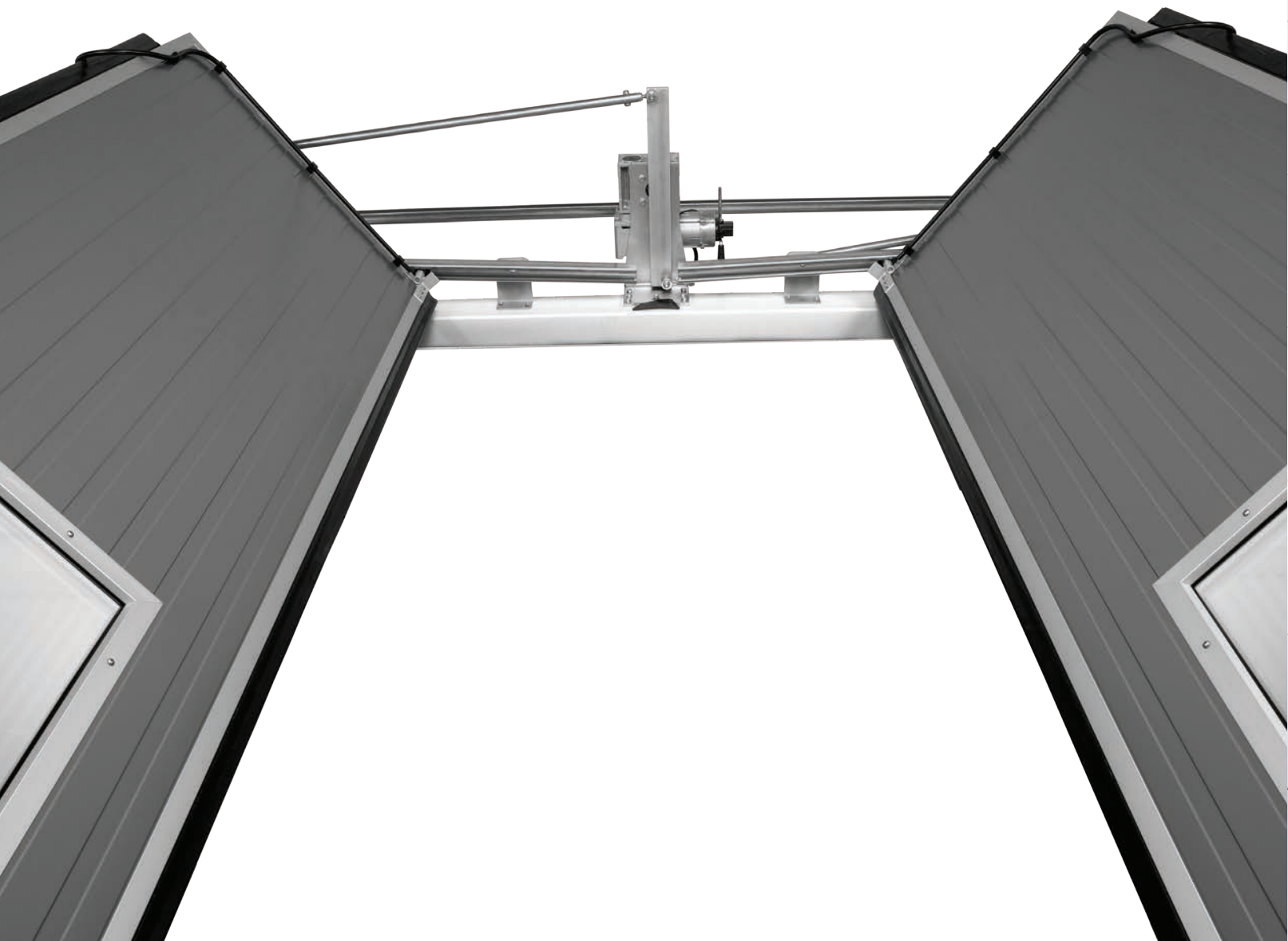
## Motor operation PriDrive

Will you open your door more than 10 times a day? Make a smart investment and install motor operation for your folding door. The investment will pay for itself, through reduced heat loss, higher productivity, a better working environment for users and truck drivers, and an extended service life for the door, with only a few openings per day.

“The future is here, be a part of the evolution with the PriDrive solution”

Motor operated industrial doors have been around for a while but our new PriDrive solution gives you as a door owner radically improved conditions.

Motor operated industrial doors that used to be either an expensive investment or involved costly ownership are now the obvious industrial door option. **PriDrive** is based on our well-known Ecolid folding door, Sweden's top-selling industrial door, but it equipped with our brand new proprietary door motors and controls. Our normal motto that the products should be cost efficient both to buy and to own combined with simple installation and use has also permeated the development of PriDrive.





## Why you should buy PriDrive:

- A dramatically reduced investment cost compared with other motor operated folding doors on the market
- The market's minimum maintenance requirements and costs
- 18-month service intervals (12 months for more than 50 openings a day)
- Halved opening time, approx. 11 seconds (approx. 20 seconds for a 4 m high overhead door in standard design)
- Significantly reduced collision risk thanks to the horizontal movement
- Simple installation and door surround, minimal consideration needs to be given to other installations above the door opening and in ceilings
- Modern control with simple installation, commissioning, programming and user interface
- High operational reliability with few wear parts and few moving parts
- Developed and manufactured in Sweden
- 7-year warranty on doors and mechanical components
- 2-year warranty on electronics



## PriDrive: Control cabinet and control and regulation options

- Simple wiring, motor cable and network cable are factory connected in the control cabinet and are connected to the motor via a plug-in contact and via CEE-plug to network.
- No electrical qualifications are required to perform the installation.
- Other connections are made via spring contacts directly in the circuit board.
- The control cabinet is always supplied with 6 installed IP classified cable conduits for various accessories.
- Commissioning is very easy with a user friendly interface and is normally managed in just a few minutes.
- The entire commissioning and programming process is performed via pushbuttons and rotary knobs.
- Operating information and current programme selection are shown to the user in a 3-segment LED display.
- The door's limit positions for the open and closed positions are set completely digitally via a few button presses.
- The control comes with an easily activated automatic closing function between 0 and 999 seconds as standard.
- The control has a variable relay for connecting and communicating with other devices in the building such as alarms, locking systems, fans, loading platform and machines.
- The cycle counter is integrated and is easily accessible via a rotary knob and LED display; an invaluable function to keep the service costs down.



# Accessories



Pushbutton box



Emergency stop



Radio receiver



Remote controls



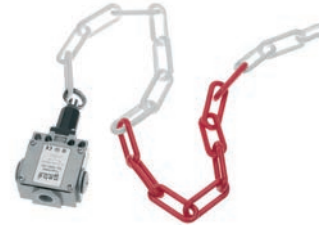
Ground loop via inductive loop detector



Wicket door switch



Code lock and card reader



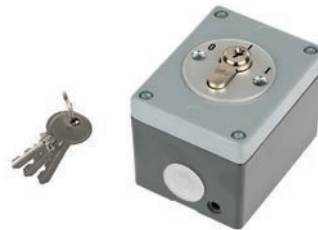
Drawstring switch



Radar



Traffic light



Key operated switch

# Larger motor operated and outward opening

We can offer other motor and control options on outward opening and larger motor operated doors. This may be with an overhead motor such as **PriDrive** or with side mounted motors. The proven Swedish-made motors and controls are also used here.

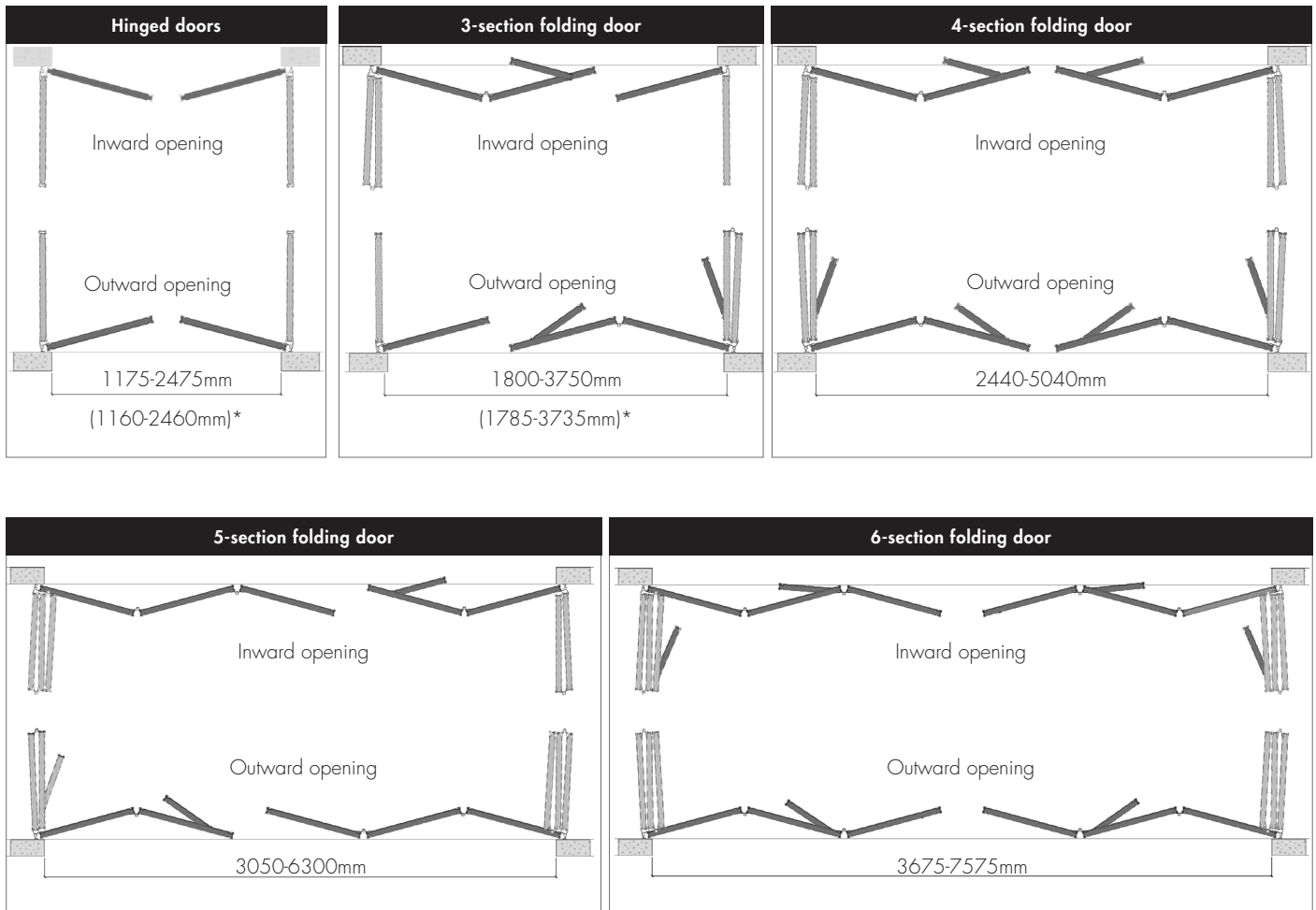






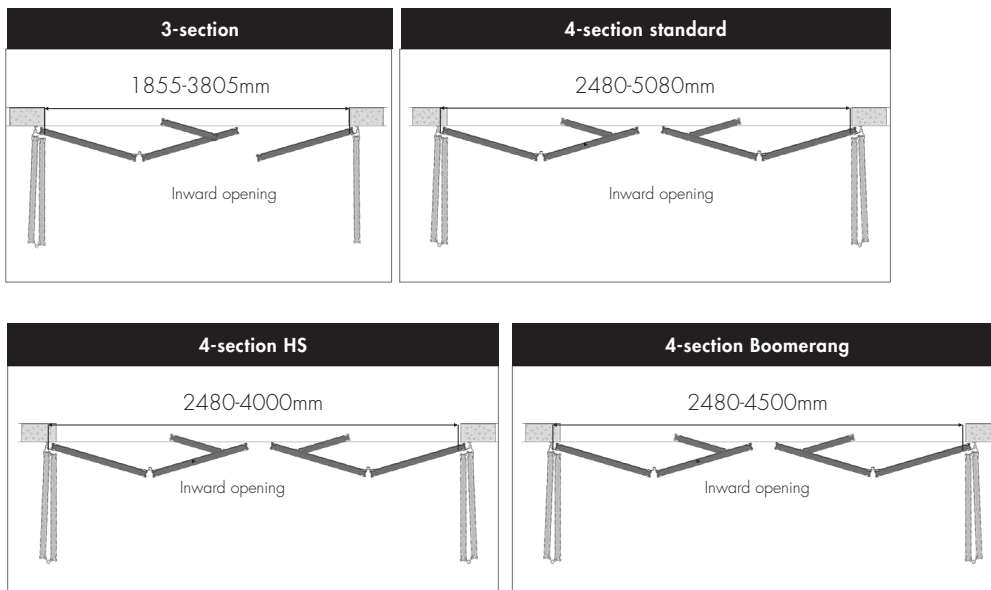
# Planning guide for Ecolid

## Opening options – Ecolid (manual)



\* Dimensions in brackets apply for sections such as wicket doors.

## Opening options – Ecolid (PriDrive)



## Mounting dimensions – Ecolid (manual)

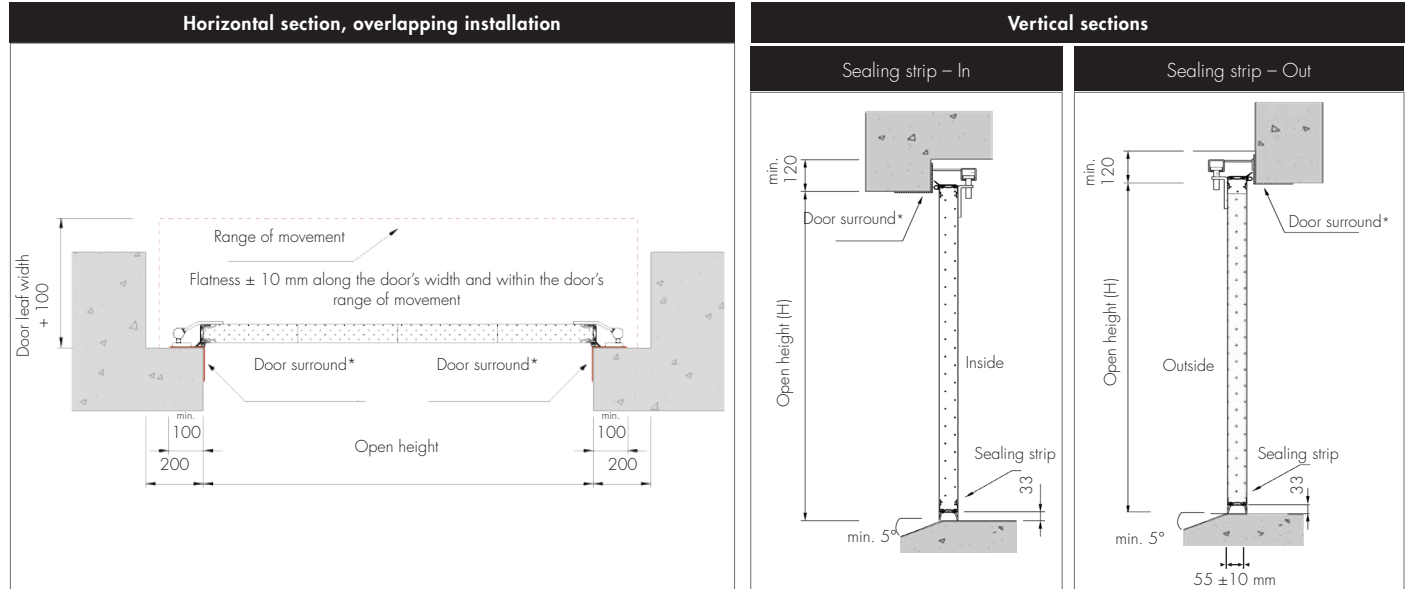
### Mounting and connections in the door opening

Ecolid doors are manufactured with overlapping installation and sealing strip as a seal against the floor.

**Max. height = 6,008 mm (4600)**

With a component such as wicket door = 3,200 mm

(Dimensions in brackets refer to hinged doors.)



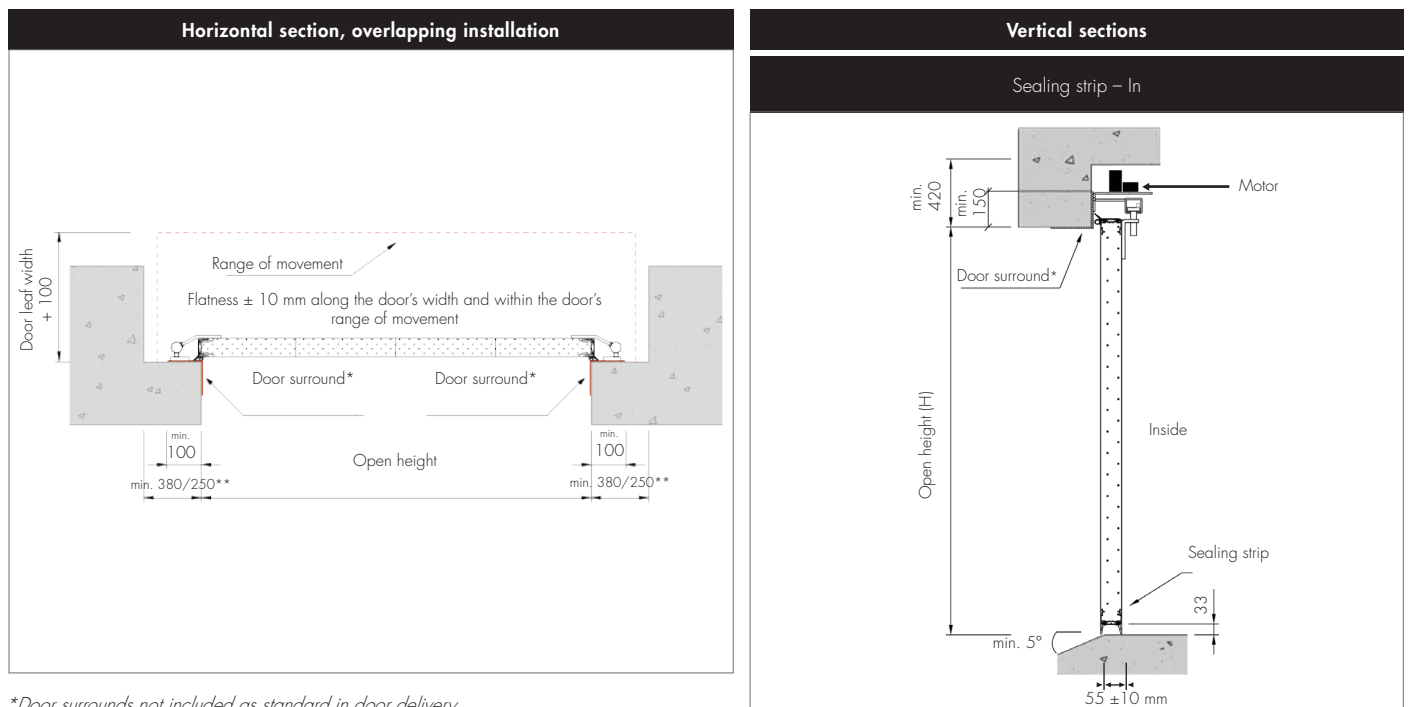
\*Door surrounds not included as standard in door delivery.

## Mounting dimensions – Ecolid (PriDrive)

### Mounting and connections in the door opening

Ecolid doors are manufactured with overlapping installation and sealing strip as a seal against the floor.

|                     | Standard        | HS     | Boomerang |
|---------------------|-----------------|--------|-----------|
| <b>Max. width</b>   | 5080 mm         | 4000   | 4500      |
| <b>Max. height</b>  | 4800 mm         | 4500   | 4800      |
| <b>Max. surface</b> | 23,15 - 23,75mm | 18 kvm | 21,6 kvm  |

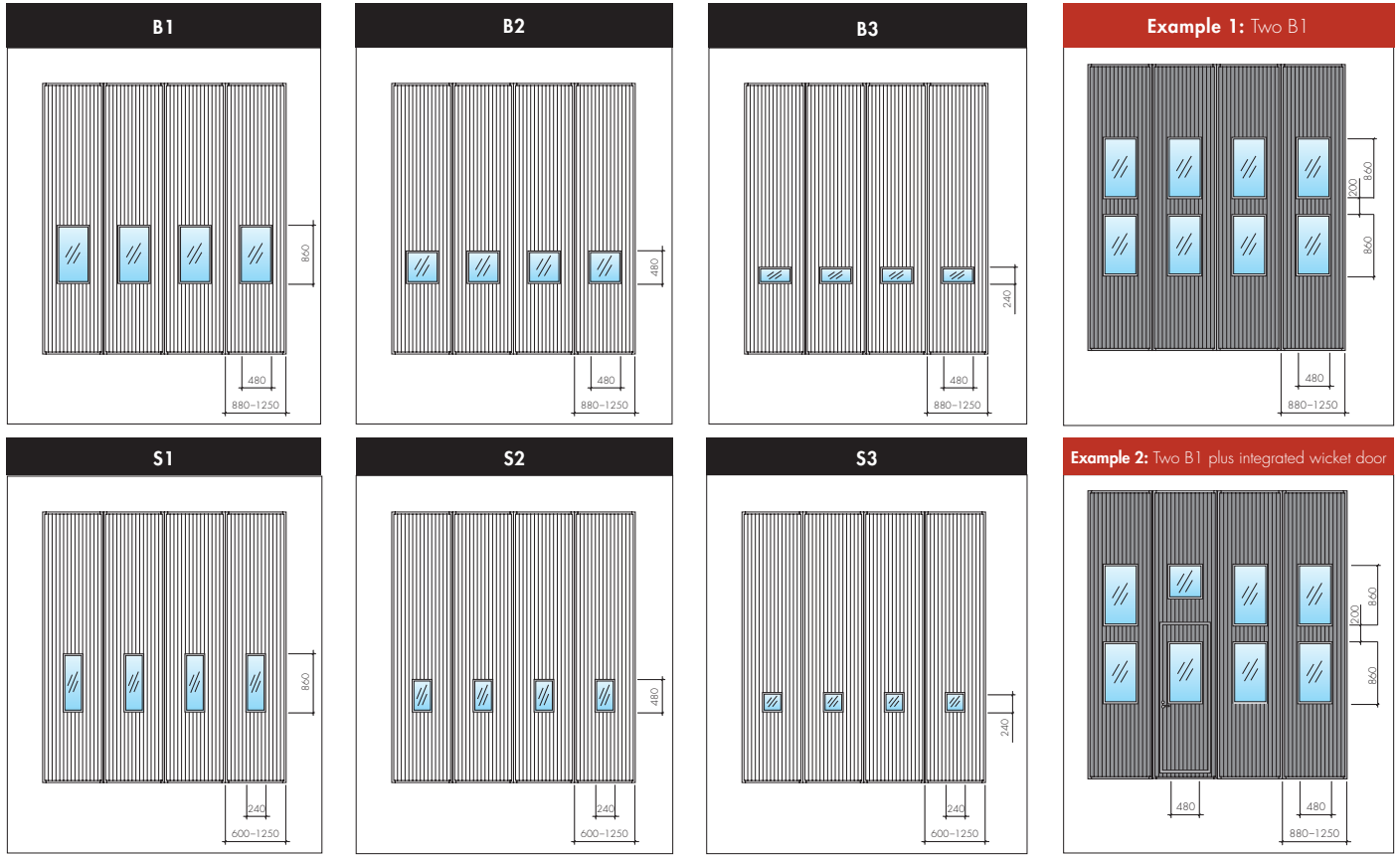


\*Door surrounds not included as standard in door delivery.

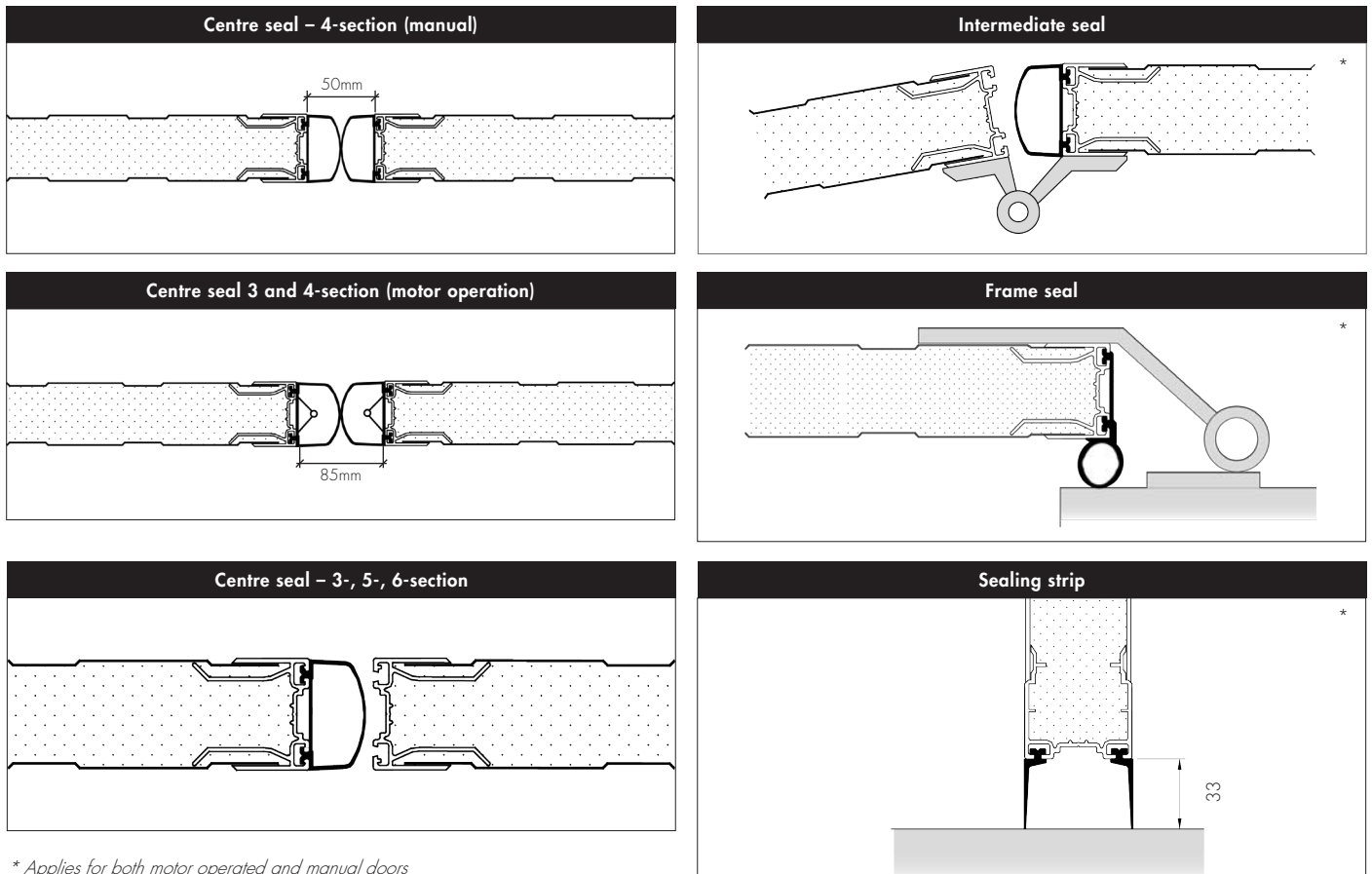
\*\*Vid Boomerang fittings

## Window – Ecolid

The Ecolid door can be fitted with double-glazed argon gas-filled insulated windows. There are six different sizes in our standard range. Special dimensions are available on request. The position is optional, on the condition that they fit within the dimensions listed below. The maximum number of windows per door leaf is determined by the size. Standard breast height = 1,070 mm.

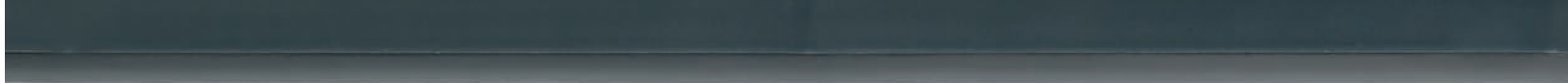


## Seals – Ecolid



\* Applies for both motor operated and manual doors





Prüde





# Ecolid (manual) – technical facts

## CE-Marking

The doors are CE-marked to comply with the Construction Products Regulation (CPR) in accordance with the applicable standard EN13241-1.

## Insulation properties

U-value of 1.34 W/(m<sup>2</sup>/K) for a fully covered 5x5 m door or 1.47 W/(m<sup>2</sup>/K) with one glass row type B1, calculated in accordance with EN12428.

## Air permeability

Class 4, 1.8 m<sup>3</sup>/m<sup>2</sup> h, in accordance with EN12426.

## Mechanical durability

Designed and tested for 1,000,000 opening cycles in accordance with EN12605.

## Resistance to water penetration

Class 3 in accordance with EN12425.

## Wind load resistance

Class 2, 3, 4 or 5 depending on size. Tested and classified in accordance with EN12444 and EN12424.

## Safety

Rubber strips are designed to eliminate crushing risks between door leaves and a door leaf/wall. A minimum of three supporting brackets per leaf in order to prevent falls.

## Brackets mounted on the door leaves

Electrogalvanized steel or aluminum. Outward-opening doors also have powder-coated steel fittings

## Windows

Argon gas-filled D4-12 insulated glass panes in six different standard sizes. Standard chest height about 1070 mm. 7-year warranty against condensation between the glass layers. Window frames in natural anodised aluminium profiles with broken thermal bridges.

## Integrated wicket door

Available in all variants.

Always outward opening. The location is governed by the door option, see the planning guide. Minimum door height is 2800 mm in order that the wicket door can be mounted. The opening for the wicket door is governed by the width of the door leaves and can go down to 480 mm. Minimum door leaf width with recessed wicket door is 683 mm. Dorma DL 919-50 lock housing.

## Pull handles

Natural anodised aluminium handles.

## Frame hinges

Multi-size adjustable steel hinges. Electrogalvanized on inward-opening doors and electrogalvanized and powder-coated on outward-opening doors.

## Lifting frame hinges (Optional)

Raises the door during the opening movement by 10 mm. Suitable for uneven floors. Good seal in the closed position, and a soft and smooth opening movement without undue wear on the sealing strip.

## Central hinges

Natural anodised aluminium Lubrication-free Teflon bushings.

## Lock

Garage bolts for interior padlocking. Cylinder lock on the inside and outside is available as an option. Suitable for profile cylinder.

## Door leaves

Process laminated sandwich panels. Thickness 50 mm. Maximum size of individual door leaves 1250 x 6000 mm. Frame for attaching rubber strips etc. in natural anodised aluminium profiles. Cast steel reinforcements as attachment points for hinges, guides, etc.

## Insulation

50 mm freon-free polyurethane foam.

## Door surrounds

Steel, concrete or wood. At least 6 mm steel for individual door leaves > 6 m<sup>2</sup>. Otherwise at least 3 mm steel when opening inwards and at least 4 mm when outwards. 3 different screw kits depending on the type of surround

## Stable package

A door located in the wash bay or in the stable environment requires a special component package to give additional corrosion protection in order for the guarantee to apply. Cannot be retrofitted.

## Guide rails and brackets

Steel, hot galvanised and adjustable. Screwed into the door surround.

## Seals

Age resistant EPDM rubber.

## Door catch

Automatic locking in the open position on both inward and outward opening doors.

## Cladding

Interior and exterior of hot galvanised sheet steel. Painted with 25 µm polyester paint.

## 7-year warranty

See separate documentation with our warranty conditions.

## Maintenance, service

The lowest service requirements in the market. 36-month service intervals.

## Security rated

As an option there are also versions with security ratings. Tested and approved in accordance with SSF1074 Class 2.

# Ecolid (motor operated) – technical facts

## CE-Marking

The doors are CE-marked to comply with the Construction Products Regulation (CPR) in accordance with the applicable standard EN13241-1. Motor operated doors are also CE-marked in accordance with the Machinery Directive, Low Voltage Directive and EMC Directive.

## Insulation properties

U-value of 1.62 W/(m<sup>2</sup>/K) for a fully covered 4x4 m door or 1.82 W/(m<sup>2</sup>/K) with one glass row type B1, calculated in accordance with EN12428.

## Mechanical durability

Designed and tested for 1,000,000 opening cycles in accordance with EN12605 (testing ongoing).

## Safety

Naturally, our motor operated doors meet all relevant safety requirements and standards. All crushing risks have been eliminated through the design from the start. Optical anti-crushing protection is integrated in the door's central seals and additional safety photocells for placement in the door opening are standard. In addition to these features, there is a load monitor in the motor/control for personal safety. Rubber strips are designed to eliminate crushing risks between door leaves and a door leaf/wall. A minimum of three supporting brackets per door leaf in order to prevent falls.

## Door leaves

Process laminated sandwich panels. Thickness 50 mm. Maximum size for individual door leaves is 1,250 x 4,800 mm. Frame for attaching rubber strips etc. in natural anodised aluminium profiles. Cast steel reinforcements as attachment points for hinges, guides, etc.

## Door surrounds

Made of steel, overhead min. 6 mm thick, side legs min. 4 mm thick.

## Seals

Age resistant EPDM rubber. The design meets the crushing risk requirements of EN12453 without extra protection.

## Size Standard

Max. width: 5,080 mm  
Max. height: 4,800 mm  
Max. opening: 23.15–23.75 m<sup>2</sup> (depending on design).

## Size HS

Max. width: 4000 mm  
Max. height: 4500 mm  
Max. opening: 18 m<sup>2</sup> (depending on design).

## Size Boomerang

Max. width: 4500 mm  
Max. height: 4800 mm  
Max. opening: 21,6 m<sup>2</sup> (depending on design).

## Warranty

7 years for doors and mechanical components.  
2 years for electronics.  
See separate documentation with our warranty conditions.

## Maintenance, service

The lowest service requirements in the market. Service interval once every 18 months or max. 30,000 openings.

## Motor and gears

Prido PriDrive

## Operating current

1.10 A

## Supply voltage

3x400V+N+PE

## Frequency

50 Hz

## Speed output axle

approx. 2.0 RPM

## Opening and closing speed

Standard: approx. 11 sec 4-section, approx. 10 sec 3-section  
HS: 7,5 sec  
Boomerang: 9,5 sec

## Control

Prido PriDrive

## Category according to EN13849-1

Pl"c" category 3

## External fuse per phase

10–16 A

## Internal fuses – Motor

3x2.5A slow-blow 5x20 mm, breaking capacity 1500A

## Internal fuses – Control

1x1A slow-blow 5x20 mm

## Energy consumption – Control

5 W

## Temperature range

From -10 to +40 degrees C

## Protection class

IP65

## Cyclic duration

Continuously max. 1 complete cycle / min



Frame control



Centre control



Lifting hinges



Standard hinges



Garage bolt for interior padlocking.



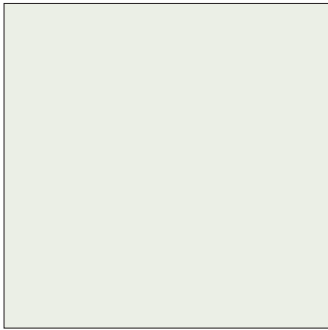
Assembly fittings outward opening



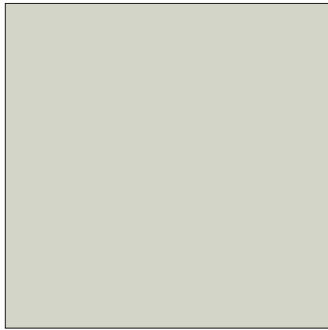
Central hinges



# Ecolid colour chart:



White 010 Ral 9010



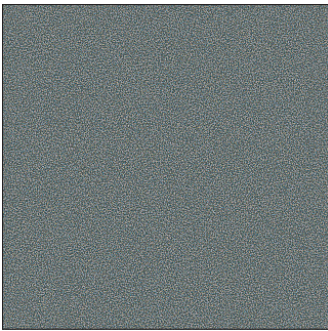
Silk grey 022 Ral 7044



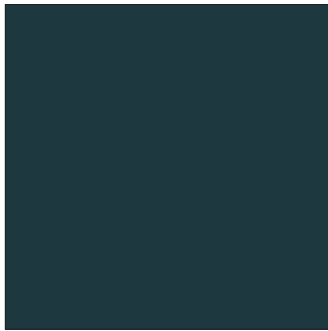
Blue 558 Ral 5009



Silver 045 Ral 9006



Graphite 044 Ral 9007



Graphite grey 036 Ral 7024



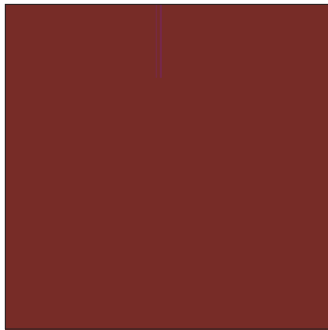
Anthracite grey 035 Ral 7016



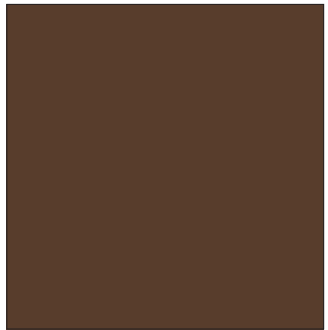
Black 015 Ral 9005



Olive green 874

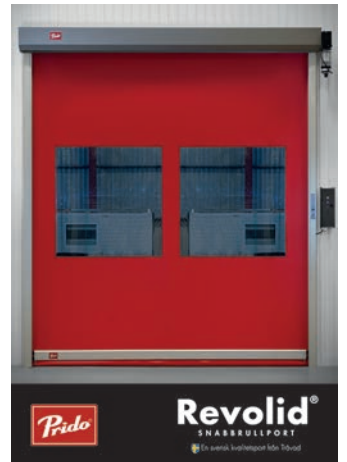


Red 758 Ral 3009



Chocolate brown 434 Ral 8017

# Other range:





## Professional Industrial Doors

Pindo has more than 45 years of experience and is one of the leading players in the industry.

We work with the design, development, manufacturing and marketing of industrial door solutions for industries and other door users in the Nordic region and Northern Europe. Our objective is to offer the most attractive range in the industry that is best-adapted to the market.

[www.pindo.com](http://www.pindo.com)

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