



PROM STAHL

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Product datasheet

ISO sectional door
(PDAI)

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ISO sectional door

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General information

ISO sectional doors are designed and manufactured with the latest technology. They are of solid workmanship and characterized by incomparable quality. The end covers and reinforcing profiles are made of anodized aluminium. Even invisible elements, such as a solid bottom profile, are anodized. With a top profile of anodized aluminium available in different height versions, an ISO sectional door will always fit perfectly.

All these features make the ISO sectional doors top quality durable products distinguished by their appearance, thermal insulation properties and structural performance. They can constitute an element of the most modern architectural designs that will always comply with technical requirements concerning safety and user-friendly operation. The ISO sectional doors can be controlled manually or electrically.

The ISO sectional doors are available in the following dimensions:

height: 1800mm – 6000mm

width: 1800mm – 8000mm

A lot of advantages of the ISO sectional doors speak for themselves:

- excellent thermal insulation and sound-proof properties in combination with modern panels of a micro-profile structure
- a wide range of different light transmitting and visual effect components
- panels available in various colours of RAL and BS palettes
- wicket and side doors can be installed in the sectional doors
- high quality firm and durable finish
- tailor-made design, i.e. the door will always perfectly fit
- the doors comply with the valid technical requirements concerning safety and user-friendly operation
- possible choice between manual and electric control, depending on the intensity of use.

The ISO sectional doors fully comply with the requirements of EN 13241-1 and hold a TÜV-NORD approval. The high quality sectional doors fit in very well with modern design of utility facilities.

ISO sectional door 40 mm



PROMStahl's all-rounder

The ISO 40 mm sectional door is PROMStahl's most popular door, a modern design that unifies excellent thermal insulation and sound absorbing qualities in its micro-profiled panels. The choice of design and materials are endless, which means the door can always be perfectly configured to meet your wishes. Numerous types of built-in windows as well as different heights and widths make up the ISO 40 mm range, as well as a variety of standard PROMStahl's in-house RAL and BS colours.

Flexibility is everything

ISO 40 mm sectional doors are designed and manufactured using the very latest technology. Their finish is robust and detailed, as demonstrated by the metal or aluminium end caps, the reinforcement profiles and the anodized aluminium sub-profiles which cannot be seen from the outside. Flexibility is everything in the manufacturing process, and it is a true all-rounder that perfectly combines price, performance and application options.

ISO sectional door 60 mm



The effective separation between climate zones

ISO 60 mm sectional doors are overhead doors with extra-insulating and sealing properties that are mainly used in locations where the separation between different climate zones is important. If you need to keep your production hall or storage area at a constant temperature, the ISO 60 mm door is the right one for you. The micro-profiled steel plate panels have excellent sound-absorbing and heat-insulating properties and they can withstand all the elements.

ISO sectional door 80 mm

Double-skinned sectional doors with thermally broken steel panels

Commercial buildings need to satisfy increasingly higher levels of insulation performance. Standards are being made more demanding and this trend will continue. All areas of the building need to be brought in line with these requirements, including the entrances.

Like the ISO 40 and ISO 60 sectional doors, the panel cavity is filled with dense polyurethane foam, with a thermal break between the inner and outer skins. The ISO 80 sectional door uses the same design principle but offers even greater thermal insulation.

Optimum insulation

By offering optimum insulation performance coupled with a U value of 0.25 W/m²K, the ISO 80 satisfies the requirements of customers who want to construct buildings (or have them constructed) in accordance with today's standards. As a result, this door is ideal for cold stores and refrigerated warehouses, industrial buildings, warehouses and distribution centres where heat loss is a major risk and/or where the temperature of the goods must be guaranteed.

Very high insulation value

The panels of the ISO sectional doors are manufactured using what is known as the sandwich method, a process that entails a layer of CFC-free rigid polyurethane foam being inserted between two zinc-coated steel plate sheets and glued in place. The doors are available in standard colours. The steel plate sheets can also be spray painted in a RAL and BS colour of your choice.

ISO sectional door 40 mm / 60 mm/ 80 mm

Color range (outside)

PROMStahl provides up to 19 standard colors (no extra charge).

PROMStahl ISO and ALU sectional doors offer architects an nearly endless variety in design and colour combinations. The optical properties of the microprofiled sheet plate make the doors perfectly suited to modern industrial architecture.

PROMStahl's range offers different common RAL colours to give each door its very own personality – at no extra cost. Thanks to this selection of colourfast coil coatings, the doors can always be seamlessly integrated into your company's look. Do you have special requirements when it comes to colour? PROMStahl can offer you a whole rainbow of colours.

ISO 40 mm

RAL 3000	Flame red	RAL 7035	Light grey
RAL 5003	Sapphire blue	RAL 8014	Sepia brown
RAL 5010	Gentian blue	RAL 9002	Grey white
RAL 6005	Moss green	RAL 9005	Jet black
RAL 6009	Fir green	RAL 9006	White aluminium
RAL 7005	Mouse grey	RAL 9007	Grey aluminium
RAL 7015	Slate grey	RAL 9010	Pure white
RAL 7016	Anthracite grey	BS10A05	Goosewing Grey
RAL 7021	Black grey	BS18B25	Merlin Grey
RAL 7022	Umbra grey		

ISO 60 mm

RAL 3000	Flame red	RAL 7022	Umbra grey
RAL 5010	Gentian blue	RAL 7035	Light grey
RAL 6005	Moss green	RAL 8014	Sepia brown
RAL 6009	Fir green	RAL 9002	Grey white
RAL 7005	Mouse grey	RAL 9006	White aluminium
RAL 7015	Slate grey	RAL 9007	Grey aluminium
RAL 7016	Anthracite grey	RAL 9010	Pure white

ISO 80 mm

RAL 7016	Anthracite grey	RAL 9002	Grey white
RAL 9006	White aluminium		

Types of windows

The purpose of windows

ISO sectional doors can be fitted with Plexiglas windows for increased natural light and improved visibility. The standard windows are oblong, with straight or rounded corners containing single or insulating double glazing. For additional security against intruders, narrow rectangular windows with rounded corners are also available. Are you looking for a one-of-a-kind design? Then go for the rounded windows or a creative pattern made up of windows.

Types of windows



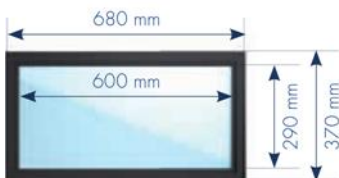
Lots of light and great visibility



Rounded corners ($r = 60 \text{ mm}$), excellent insulative value



Rounded corners ($r = 100 \text{ mm}$), excellent insulative value



Straight corners, excellent insulative value



Narrow, burglar-proof windows

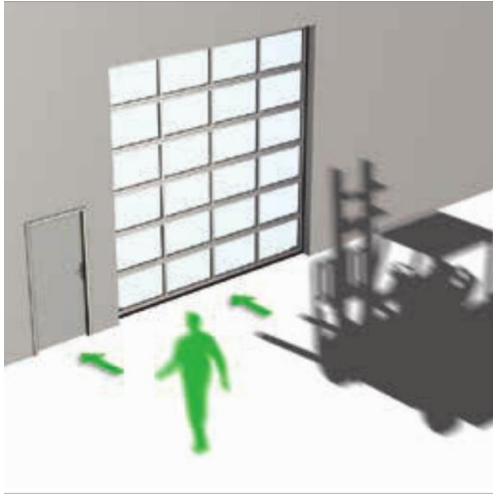


Attractive round windows

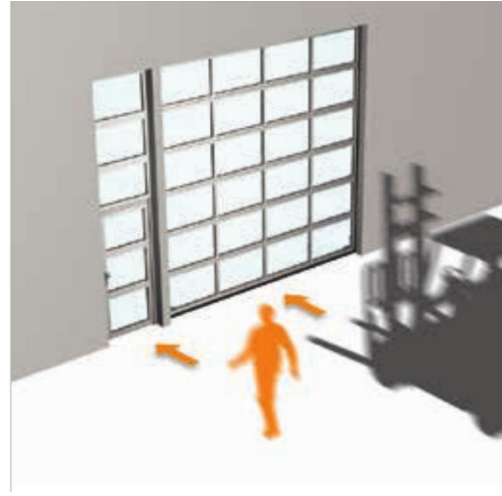
*The light yield of the various windows

Wicket and side doors

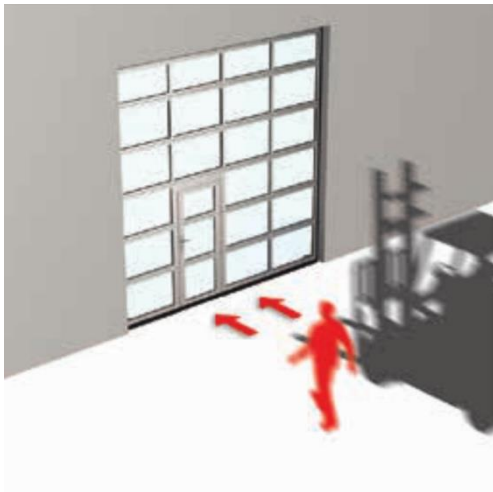
While a wicket door can be built into an ISO PROMStahl door (ISO 40/ISO 60).
(Description ALU sectional door)



Completely separate doors for pedestrians and goods.



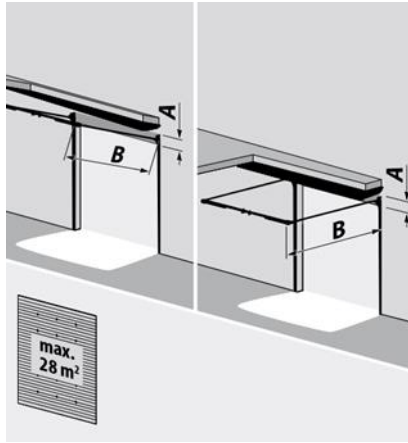
Separate doors for pedestrians and goods, but in the same opening structure.



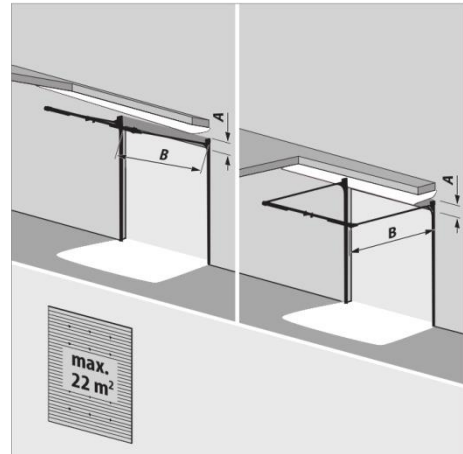
Wicket door for people built into a sectional door for goods.

Overview of rail systems

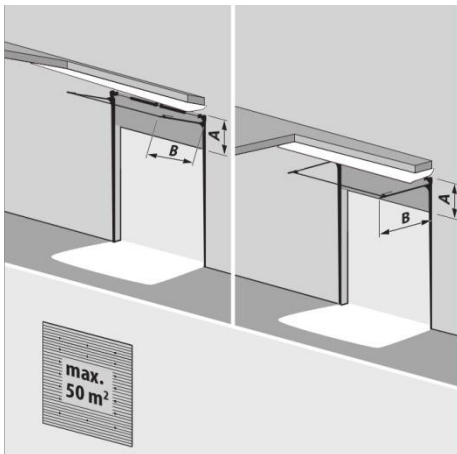
Of course the space available for the door and structural issues are decisive factors when it comes to installing a door, that's why PROMStahl offers different rail systems that can be customized to suit any scenario.



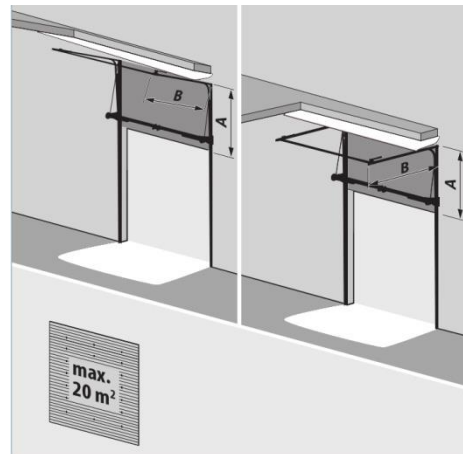
T 240
 Low built-in rail system, incorporated cables + steel support profile
 A = 240 mm, B = open height + 1000 mm
 Width max. 7000 mm



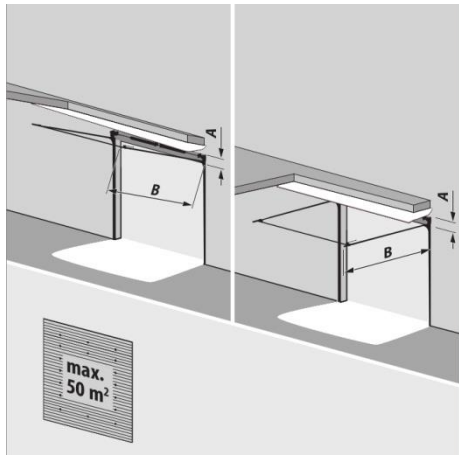
T 340
 Standard rail system, rear suspension package + steel support profile
 A = 340 mm, B = open width + 750 mm
 Width max. 6500 mm



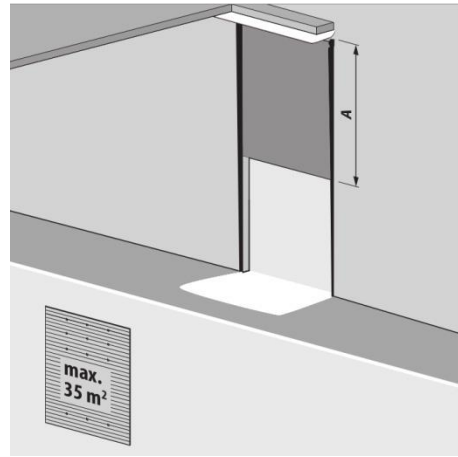
T 400
 Elevated rail system
 A = hoisting + 400 mm,
 B = open height – hoisting + 600 mm



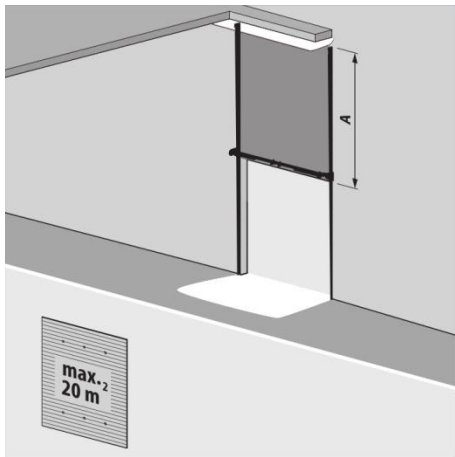
T 400 hF
 Elevated rail system with low spring axis + steel support profile
 A = hoisting + 200 mm,
 B = open height – hoisting + 600 mm
 Width max. 4500 mm, Lift min. 1450 mm



T 450
 Standard rail system
 (standard)
 A = 430 mm to 700 mm,
 B = open height + 650 mm



T 500
 Vertical rail system
 A = open height + 550 mm



T 500 hF
 Vertical rail system with low spring axis + steel support profile
 A = open height + 400 mm,
 Width max. 4500 mm

Operators

PROMStahl offers a variety of operators for powering sectional doors. A manual system is ideal for doors that are not used frequently, whereas an electrically powered system with touch control is best for doors that are in constant use. Depending on the door configuration and your requirements, there is always a type of drive to suit your needs. All our drive systems and operators meet the European EN-13241-1 standard.

Pull cord – manually operated

If your door is smaller than 16 m² and you use it only sporadically, then your best option is the pull-cord mechanism. However, the system requires physical exertion (1:1 ratio) and there is a risk the door will not open sufficiently which may result in damage.

Chain hoist – manually operated

The chain hoist requires less physical exertion than a pull-cord (1:4 ratio). The system – suitable for sectional doors up to 30 m² – ensures that the door can be secured in the uppermost position.

Deadman control unit – electric

This system is an excellent choice when a door is used infrequently. One push of the button is all that's needed to open the door, although you have to keep it depressed to close the door. This enables the person operating the controls to keep an eye out for any dangerous situations that may arise while the door is closing.

Touch control unit – electric

If the doors are in constant use then go for a touch control system. The door raises or lowers automatically to a set position, which can be electronically adjusted without having to keep the button depressed. An obstacle detection system is built into the door's bottom seal.

One touch with remote control

The touch control system is also perfect for remote operation and can save a lot of time because it allows the forklift driver to remain seated while the door is opened or closed remotely. This option includes a stationary photoelectric safety sensor, which is fitted to the door.

Touch control with remote control and high speed motor

If the doors are in constant use then go for a touch control system. The door raises or lowers automatically to a set position which can be electronically adjusted without having to keep the button depressed. An obstacle detection system has been built into the door's bottom seal.

Control box features

PROMStahl offers a wide range of top-quality control for your sectional door that can be integrated into the door system's control box. Numerous elements can also be mounted on an interior or exterior wall.

- Main switch with padlock
- Key switch
- Two-setting switch
- Motor with emergency chain
- Motor with release system
- Emergency stop
- Wireless communication

Extra control features

- Key switch
- Electronic keypad
- Extra control panel
- Traffic lights and warning lights
- Pull switch
- Remote control

Operation in case of emergency and safety devices

In standard, all motor systems are equipped with an operation feature for emergency cases being located on the reduction gear housing. The used electrical motors can be operated electrically and mechanically. Thanks to the mechanical system, the sectional doors can always be opened in the case of a power failure. This feature has to be activated and deactivated manually by using ropes.