

Flowslide



The perfect solution to separate passenger flows

As you would expect from the revolving door market leader we have developed a revolutionary door called the Flowslide, a high-tech combination of a revolving door and curved sliding panels. The Flowslide offers a complete physical separation between two crossing passenger flows on a single floor.

Construction

This solution proves that it is possible to reconcile passenger comfort with improved security measures. With the Flowslide, we offer the possibility of a single storey terminal construction or using the existing terminal infrastructure without renovating your building to effect the separation of passenger flow.

Passenger terminals

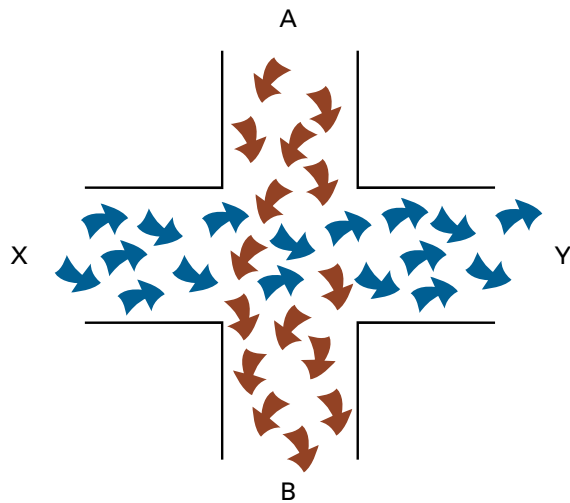
The Flowslide can be used in all kind of terminals where it is necessary to separate two flows of people, e.g. separation of arriving and departing passengers in airports, seaport and railway terminals.

Working principle

The Flowslide consists of a rigid central door wing and three curved sliding panels, which revolve within the fixed bent wall. The sliding panels can alternately being spread and folded to open or close the entries or exits of the door. The combination of sliding panels and door wings are software controlled and programmed in such a way that passengers can only walk from point A) B or from point X) Y.

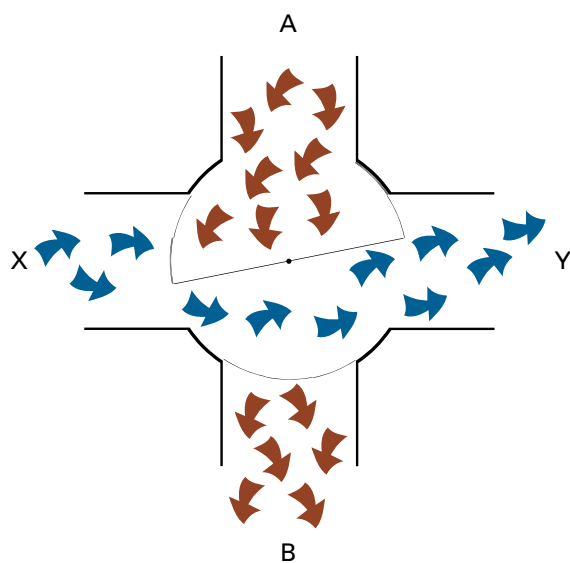


‘Passengers can only walk
from point A↔B or from X↔Y’



Problem

A mixture of passengers in one area.



Solution

The Flowslide is separating the passenger flow.

Safety features

At Boon Edam, we put safety first. Our products comply with all relevant safety standards and regulations.

User safety

The Flowslide is supplied with the following standard safety features:

- 1 **Safety Rail Bent wall (SRB)**
Active safety rubber buffers prevent people and objects being trapped between the rotating door wing (leading edge) and the stationary bent wall (leading mullion).
- 2 **Safety Rail Turning wall (SRT)**
Active safety rubber buffers on the rotating door wings (leading edges). The Flowslide will stop immediately when the buffers are activated.
- 3 **Safety Rail Door wing (SRD)**
Heel/Foot protection, the Flowslide will stop immediately when this sensor is activated.
- 4 **Emergency stop**
When the button is activated, the Flowslide will stop immediately.
- 5 **Speed control**
Limits the maximum rotation speed. The speed is factory set and depends on the diameter of the Flowslide.
- 6 **End Buffer Sensor (EBS)**
This sensor prevents people being hit by the rotating door wing when they are trying to enter the Flowslide at the last moment.
- 7 **Ceiling Safety Sensor (CSS)**

This sensor detects people in front of the central door wing. When the sensor is activated, the Flowslide will rotate at half the normal speed. When the sensor is deactivated again, the Flowslide will continue its normal operation.

Security features

In addition to the safety sensors, a number of sensors and locking devices are installed to provide a security function. If one of these sensors is activated the door continues to operate normally, but an acoustic alarm and visual signal (on control panel) will be given to indicate a possible breach of security.

1 *Unauthorised use of the Flowslide*

If one of the door elements is accelerated, slowed down or blocked a visual and audible signal will be given. If the central door wing and a sliding panel lose synchronisation, the electronic control of the door is programmed in such a way that it will compensate to close the gap. If the gap between the different door parts is too large, a visual and audible signal will be given.

2 *Anti pass-through of objects*

The security sensor is activated when somebody tries to pass an object through an eventual gap between the curved sliding panel and the central door wing or fixed bent wall.

3 *Locking of the Flowslide*

The Flowslide can be locked in several positions. The door is equipped with eight Espagnolet locks. All rotating door elements have two locks. The locks on the central door wing are at both ends. The curved sliding doors have the locks at the front end and the rear end of each panel set.

4 *Operation of the Flowslide*

The Flowslide is operated with a control panel with two key switches. Only authorised personnel can operate the key switches.

Flexible design

The Flowslide is flexible in a number of surface finishes to match or complement a wide variety of interiors.

Finishing

The frame and door sets can be finished in any colour powder coated or anodised aluminium (natural or colour). The Flowslide profiles can also be inlaid with stainless steel, bronze, brass or other metal sheets.

Construction

The Flowslide consists of a frame incorporating all the door mechanisms, sensors and controls. The frame design uses slim aluminium profiles. All the control boxes, drives and sensors are integrated in the construction.


The door wings and curved walls are made of laminated glass with slim aluminium sections. This provides a spacious and transparent feeling.

Options

- Congestion detection. With this sensor a smooth passenger flow is guaranteed and capacity is optimized;
- Traffic signaling with counter for waiting time;
- Low energy lamps;
- Glass protection sheets for trolleys;
- Bi-directional traffic;

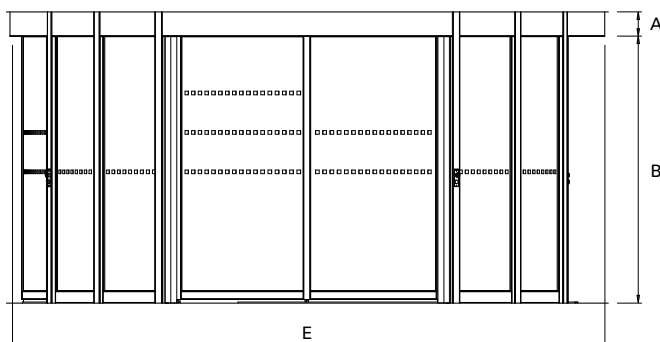
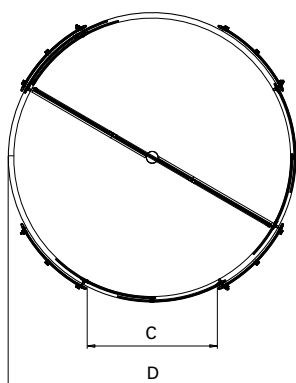


Standard dimensions and theoretical capacity

<i>D</i> Diameter (mm)	<i>A</i> Canopy height (mm)	<i>B</i> Height under canopy (mm)	<i>C</i> Throat opening (mm)	<i>E</i> Installation width (mm)	Capacity/minute¹	Disabled access
4800	500	2200	2165	4940	2x30	

¹ Maximum capacity per minute indicates how many people can pass through the Flowslide in one direction.

Besides the standard dimensions other options are possible. For more information, please contact our nearest Boon Edam subsidiary or distributor.



Technical specifications

Power supply	200-240 VAC, 50/60 Hz
Power consumption	
drive units	800W
lighting	156W (12 x 13W)
Fuse	External power supply fused with 16 A slow
Ambient temperature	- 20 °C + 50 °C

High quality

At Boon Edam, we take quality seriously; the quality of the materials we use, the quality of our employees as well as the quality of our partners. As with all Boon Edam products, the Flowslide is manufactured to the highest standards, is CE approved and complies with the Machine Directive (98/37/EEC), the EMC-Directive (89/336/EEC) and the Low Voltage Directive (93/68/EEC).

The Dutch Council for the Chronically ill and the Disabled have approved many of Boon Edam revolving doors as being accessible for disabled people. When you install the Flowslide in your building, your entrance will meet the requirements of the international accessibility symbol (ITS).

