

Tourlock



The high security revolving door

Our Tourlock security door allows a continuous flow of authorised people whilst ensuring that unauthorised people cannot enter. This high security door is designed to integrate with different kinds of authorisation systems, such as card readers and biometric systems. With a choice of several sophisticated security systems, the Tourlock establishes the highest level of security at your entrance.

3 or 4 door wings

The Tourlock is available with three or four door wings. The Tourlock 180+90 is a four wing fully automatic revolving door and offers the advantage of simultaneous bi-directional authorised traffic. The Tourlock 120 (three wing version) is available with either manual or automatic operation and provides greater comfort of use for single-direction flows.

High security entrances

Our Tourlock is to be found in areas where a high level of security has to be balanced with ease and speed of operation. With a Tourlock, surveillance by a third party, such as guards, is no longer necessary. You will often find our Tourlock in for example government buildings, banks, airports and corporate offices.

Your **Security.** Our **Solution.**

Working principle

The Tourlock is divided into several segments. Rotation of the door is dependent on authorisation from an access control system or remote control. By this, the Tourlock ensures that only authorised people can enter your secured area.

Tourlock 180+90

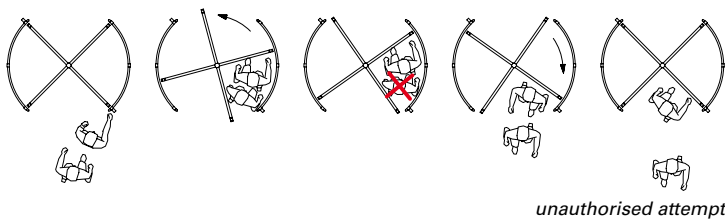
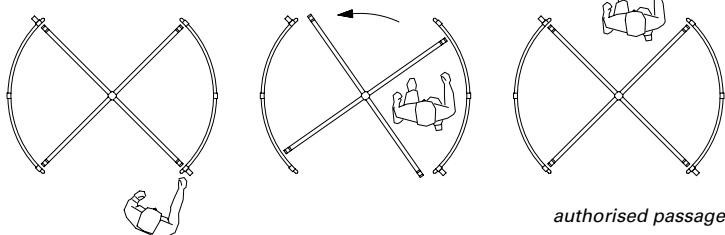
The door is always locked in the rest position, but will begin to turn 180° as soon as an authorised user has been accepted by the access control system and has entered the door. Authorisation feedback is given by luminous signals on the end stiles of the curved walls. Sensors will check that unauthorised entry is not being attempted, whilst ensuring that other authorised users are allowed an additional 90° or 180° anti-clockwise rotation to provide uninterrupted passage. Control is independent in each direction, so that simultaneous bi-directional traffic is allowed.



‘Only authorised persons can enter your secured area’

Tourlock 120 & 120M

The door is always locked in the rest position, but will begin to turn 120° in the appropriate direction as soon as an authorised user has been accepted by the access control system, entered the door and has been detected by the contact mat or ceiling sensors. Authorisation feedback is given by luminous signals on the end stiles of the curved walls. With the Tourlock 120M (manual) the user will push the door in the appropriate direction. When the door begins to turn, a security system will check that unauthorised entry is not being attempted, whilst ensuring that subsequent authorised users travelling in the same direction are allowed through without stopping. The Tourlock 120M door set returns to the rest position smoothly and efficiently with the use of dampers. Simultaneous entry and exit is not possible as the rotation is reversed for users travelling in the opposite direction.



Security systems

Depending on the Tourlock chosen, different security systems are available. These security systems are linked to a built-in control unit, which determines whether the door will rotate or not. This way the Tourlock ensures that unauthorized people cannot enter. Optional day/night operation allows you to switch the security function of the door on and off. This might be used to allow the door to act as a standard automatic revolving door during the day and as a security door at night. Night locking doors that close the entrance completely are an optional addition to the security level during night.

Sensors

Ceiling sensors create the first basic security level and can be combined with other security systems. These sensors can be used to start-up the movement of the automatic Tourlock. Standard direction sensors ensure that the door set is not pushed against the authorised revolving direction.

Contact mats

Contact mats installed in the floor of the Tourlock check the segments of the door while it is turning, to prevent unauthorised entry. Hang sensors preventing anyone riding on the door set are recommended when using contact mats.

Weight system

One or bi-directional weight sensors, are located within the floor space, to recognise an adjustable maximum weight entering the door. Hang sensors are advisable when using the weight sensor identification.

Security systems for the Circlelock

	Sensors	Contact mats	Weight system	StereoVision
Tourlock 180 + 90	Alle Ø.	Alle Ø. * option hangsensor	Alle Ø. In or out going (two mats) * option hangsensor	Alle Ø. In and out going Minimum height under canopy required
Tourlock 120	Ø 1600 mm	Alle Ø. * option hangsensor	In or out going (one mat) * option hangsensor	Not available
Tourlock 120 M	Ø 1600 mm	On request	Not available	Not available

StereoVision

The one or bi-directional StereoVision sensor system detects tailgating and piggybacking, in a segment, in one or two directions. With a sophisticated 3D vision technology an extremely high level of security is reached. A bi-focus camera system is integrated in the ceiling, making floor adaptations unnecessary.

Safety features

At Boon Edam, we take safety seriously. Safety is taking a prominent part in our product development.

User safety

Active and passive rubber safety buffers are included on the ends of the curved walls, to prevent users from getting trapped between the moving parts of the door.

Emergency

The door is standard delivered in fail-safe mode, disengaging the lock and motor in the event of a power failure or alarm situation. Optionally the door can be made fail secure, making sure no one can enter the secured area during a power failure or fire alarm signal. Fail-secure operation maintains security in the event of an emergency and can be offered with or without a manual unlocking possibility. A battery backup is optional to prevent malfunction if a power failure occurs. In case of a manual door this battery backup is not applicable.



Flexible design

The Tourlock has many options in design and surface finish and can be manufactured to match or complement a wide variety of interiors and facades. When using a StereoVision security system no adaptations of the existing finished floor are necessary.

Finishing

The frame and door set can be finished in powder coated or anodised aluminium. The door can be clad with stainless steel, bronze, brass or other metals.

Construction

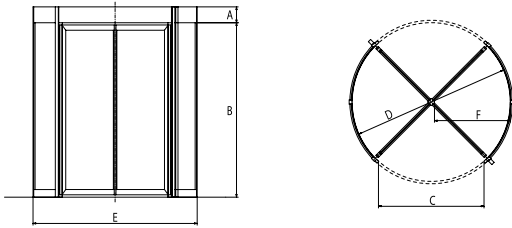
The curved walls are available in either solid or glazed version. Solid walls are constructed from aluminium sandwich panels. Glass walls provide a spacious and transparent feel and consist of slim line aluminium sections with laminated glass (class P2A). The door set is constructed from aluminium profiles with a slim centre post, horsehair weather-strips around the edges and tempered safety glass (class P2A). The canopy can have plywood, stainless steel or aluminium dustcovers.

Options

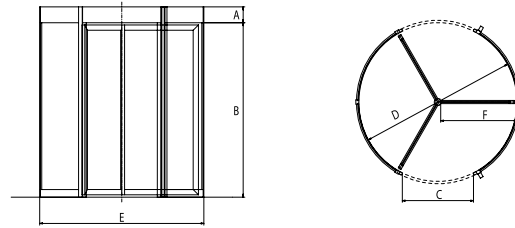
- Adaptations for integration of proximity or other card reader on the vertical end stile of the curved walls.
- Pedestal for mounting of external card readers or other authorisation systems.
- External control panel for integration in the reception desk.
- Door handles on each door wing.
- Night locking doors which can be used to close the throat opening.
- Ceiling lighting with halogen lamps, 4 lights for the Tourlock 180+90; 2 lights for the Tourlock 120.
- Matwell trim for mounting in the floor, or surface mounted.
- Vandalism (P4A), burglary (P6B) or bullet resistant (BR2NS / BR4NS) glass.
- Watertight canopy for outdoors installations.

Standard dimensions and capacity

Tourlock 180 + 90



Tourlock 120 & 120M



Tourlock type	D Diameter	A Canopy height*	B Height Under Canopy**	C Throat opening	E Installation width	F Passage width	Capacity # persons per minute***
180+90	1600	200	2198		1677	759	2 x 20
180+90	1800	200	2198	1055	1877	859	2 x 20
180+90	2000	200	2198	1195	2077	959	2 x 20
180+90	2200	200	2198	1335	2277	1059	2 x 20
120M	1500	200	2198	1475	1577	709	1 x 15
120M / 120	1600	200	2198	650	1677	759	1 x 15
120	1800	200	2198	700	1877	859	1 x 15
120	2000	200	2198	800	2077	959	1 x 15
120	2200	200	2198	900	2277	1059	1 x 15

* Optional canopy heights 200-600 going up by 100 mm

** Optional HUC's available 2100-2600 going up by 50 mm. Other heights are available on request.

*** Depending on authorisation system. One or two directions.

Technical specifications

Power supply	200-240 VAC, 50/60 Hz
Power consumption	250 W
Fuse	External power supply fused with 16 A slow
Compatibility	The Tourlock is compatible with a number of access control system by using potential free contacts

High quality

At Boon Edam, we put quality first. Quality of the materials we use, quality of our employees as well as quality of our partners. As with all Boon Edam products, the Tourlock 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).