

Tourlock 180 + 90 Security Revolving Door



Entrance control starts with security but its success is measured by employee throughput and safety.

The Tourlock Security Revolving Door is the ideal solution if you are seeking the best of both worlds: a high level of security and a throughput for moderate traffic flow. The balance is maintained by a network of sensors and PLC-controlled electronics working together to provide your desired level of entrance security with quick and safe passage in and out of the facility.

The Tourlock 180+90 is a 4-wing, automatic door that offers many possible access control options, including:

- Security In / Free Out
- Security In / Security Out
- Free In Day / Security In Night

Regardless of the security settings you choose, you can rest assured that proper authorization will be required to pass through the Tourlock 180+90.



When combined with an external card reader or biometric device of your choice, the Tourlock 180+90 provides a secured access point and does so at a substantially lower cost than traditional manned stations. It also does it without the problems associated with manned stations, such as low attention span and absenteeism.

In addition to preventing unwanted entry of persons, the Tourlock 180+90, as with any revolving door, can also reduce the infiltration of outside air and reduce energy costs when used appropriately.

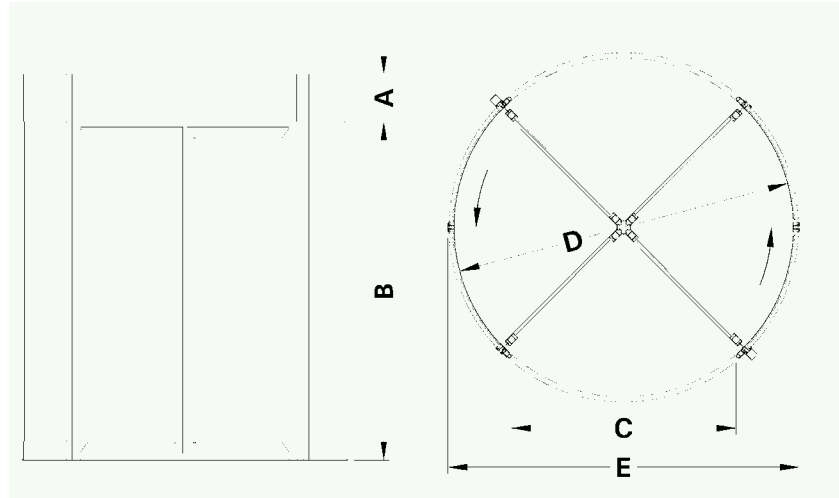


Boon Edam North American Sales Offices:

Salt Lake City, Sacramento, Dallas, Chicago, Pittsburgh, Ft Myers



Tourlock 180 + 90 Security Revolving Door



	Standard	Standard
	6'6"	7'0"
A	11'3/4"	11'3/4"
B	7'0"	7'0"
C	4'3 3/4"	5'4 1/4"
D	6'6"	7'0"
E	6'9"	7'3"

Construction

The Tourlock 180+90 consists of four door wings, two curved sidewalls and a canopy - all fabricated from anodized aluminum extrusions. Optional finishes include: painted or powder-coated aluminum, stainless steel and brass cladding.

Standard glazing includes 1/4" clear tempered glass, both in the door wings and sidewalls to maximize visibility through the door. Laminated safety glass or bullet resistant glass is also available as an option in the door wings.

A dust cover is included as a standard feature. Dust covers with matching finish or water resistant coverings are also available.

Door wings are attached to a center shaft via precision-engineered hangers and discs and are held in position under normal conditions by the center shaft electromagnetic locking device which allows them to be collapsed and panicked outwards for emergency egress when necessary.

The drive system consists of an AC motor with Frequency Controller. A 208V, single phase service is required. The frequency control allows independent, digital settings for rotation speeds and motor torque, ensuring the proper settings for any environment.

Infrared sensors within the door are used to detect the presence of both authorized and unauthorized persons in the door compartments, thus allowing authorized passage or preventing tailgating or unauthorized entry.

A Programmable Logic Controller (PLC) serves as the main processor for the operation of the Tourlock and can be customized to meet specific installation requirements.



Optional Communications Package

An optional communications package can be added to facilitate the passage of individuals through the Tourlock 180+90. Visual and audio enunciators communicate the following conditions:

Passage is authorized

Enter the door to start rotation

Unauthorized passage - exit the door

These conditions are clearly communicated by four ceiling-mounted speakers and four LED signal lights in the endposts and midposts.

Basic Operation

The Tourlock 180+90 remains locked in the "X" position waiting for a person to approach. Upon receiving an authorization signal from an external card reader or other access control device, the Tourlock is put into "standby" mode. As the person enters the opening of the Tourlock, sensors detect this presence and rotate the doorset 180° to allow the person through. The Tourlock then stops and locks.

If a second person, with authorization, enters the Tourlock in the next compartment while the doorset is revolving, the Tourlock will make an additional 90° turn and allow the second person through as well.

Simultaneous inbound and outbound traffic can be accommodated, providing a maximum recommended traffic capacity of approximately 18-24 persons per minute in each direction.

If a person enters the Tourlock without authorization, from either direction, the doorset will immediately stop and an alarm will sound. Upon the unauthorized person stepping out, the Tourlock will finish its cycle without first reversing.

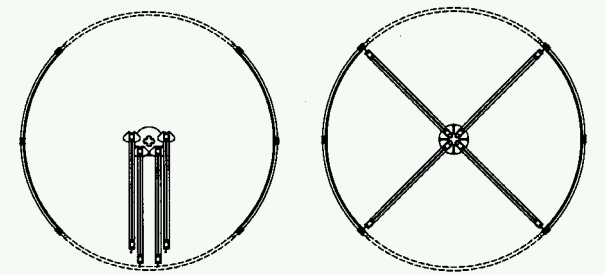
The optional weight sensor system helps prevent an authorized person from escorting a second person through on a single authorization.



Safety

Compressible contact switches are installed on the end of the curved walls which will stop the door's rotation when contacted.

The standard Tourlock 180+90 is programmed to be failsafe and allow for emergency egress when necessary. The electric locking device releases upon a signal from the building alarm system allowing the door wings to be folded outwards.



All material is correct at time of press, but is subject to change in line with our policy of continuous product development.