



YOUR
ENTRY
EXPERTS.

HIGH LEVEL SECURITY

CIRCLELOCK COMBI

THE HIGH SECURITY CONNECTION PORTAL

With all of the security features of a high security portal, the Circlelock Combi is a retrofit option for companies looking to upgrade their security level, while saving on both space and renovation costs and having the additional protection of a fire / smoke / airtight-rated door. The interlocking half portal attaches to an existing swing door, transforming an ordinary door into a high security entrance, capable of protecting the most sensitive areas from unauthorised entry and piggybacking.





OVERVIEW

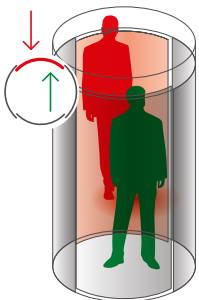
The Circlelock Combi is a half portal that can be attached to a swinging door, either on the secure or non-secure side of the sensitive area. On authorisation, the first door opens allowing a user to enter the portal. An integrated security system confirms the user is alone and the second door opens, completing the passage into the secure area. A secondary biometric system such as facial recognition (by others) can be used to confirm identity inside the portal.

looking to increase the security level of the Combi can also consider the following features:

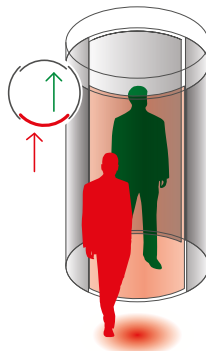
- ✓ **Contact mats:** the Circlelock Combi comes standard with a full zone contact mat which prevent tailgating in the same direction as well as in the opposite direction.
- ✓ **Weight system:** extra prevention against basic piggybacking can be provided by means of an accurate weight system which is embedded into the floor of the security portal.
- ✓ **One-way StereoVision:** optional one-way StereoVision is available as a 'Level Up' to provide additional advanced piggybacking prevention when users enter the secure area.
- ✓ **Two-way StereoVision:** with optional two-way StereoVision, organisations can provide additional advanced piggybacking prevention when users exit the secure area (in addition to entry).
- ✓ **Internal biometric post:** allows for mounting of an internal biometric device (by others) for two- or multi-factor authentication capabilities. This ensures that the person who presents credentials outside the portal is the same person who is inside.

LEVEL UP THE SECURITY FEATURES

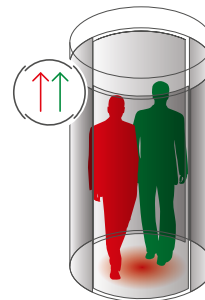
The Circlelock Combi comes with an array of possible security packages ranging from tailgating detection up to piggybacking detection. For those looking for the ultimate fortress, the most sophisticated available option is an overhead sensor system – called StereoVision that accurately detects and prevents piggybacking, or two users attempting to enter the portal on one authorised credential. Organisations



**TAILGATING:
IN OPPOSITE DIRECTION**
DETECTION VIA: CONTACT MAT



**TAILGATING:
IN SAME DIRECTION**
DETECTION VIA: CONTACT MAT



PIGGYBACKING
DETECTION VIA:
WEIGHT SYSTEM AND STEREOVISION

HEIGHTENING SECURITY WITH THE ULTIMATE INTERLOCKING SECURE PASSAGE

Due to their focused working principle, security portals offer the highest level of security and are intended for unmanned areas. The Circlelock Combi is cleverly designed to fit over an existing swinging door, creating a solution is both practical and cost effective to install for the long term. Using the most innovative and up-to-date security technologies, you can rest assured knowing your valuables are safe and sound.

A WORLD OF SECURITY INTEGRATION OPPORTUNITIES

We know the role our portal plays is just a part of the bigger security picture and we have researched at length ways to ensure easy and effective integration opportunities for our clients who decide on installing our Circlelock Combi. This is over-and-above the already built-in technology which scans and accurately detects persons using advanced sensors. Additional measures are available to 'Level Up' the security even further, as your project demands it.



KEY FEATURES

- ✓ Space efficient cylinder compartment with interlocking door system for accurate tailgating detection
- ✓ Anti-piggybacking system (StereoVision – one or two-way)
- ✓ Working principle supports bi-directional traffic, multi-factor authentication
- ✓ Self-managed – no manned supervision required
- ✓ Attaches to existing swinging door (standard or fire/smoke/airtight-rated)
- ✓ Steel floor construction facilitating mounting on a computer floor

- ✓ On-board user communication system (integrated visual and audio feedback signalling)
- ✓ Seamless integration and feedback with access control systems, biometric devices and building management systems
- ✓ Fail-safe operation as standard, fail-secure optional
- ✓ Support for emergency egress (subject to local regulations)
- ✓ Supervised disabled entry is possible

KEY BENEFITS

- ✓ Highest security protection – only one person, the right person (with interior biometric verification installed)
- ✓ Reduced/eliminated guard salary allows for quick ROI
- ✓ Maintain fire/smoke/airtight-rated protection of an existing swing door and partition walls
- ✓ Expanding on an existing design means lower renovation costs due to floor and wall mounting construction
- ✓ Long life, easy to maintain and troubleshoot

You can Level Up in any of these categories:

SUGGESTED SEGMENTS

- ✓ Data centres
- ✓ Financial
- ✓ Insurance
- ✓ Medical / pharmaceutical
- ✓ Government / military
- ✓ Airports
- ✓ Prisons
- ✓ Museums
- ✓ Archives
- ✓ Casinos



TECHNICAL SPECIFICATIONS

STANDARD MODEL



THROUGHPUT / CAPACITY / FLOW	
DIAMETER	1500 MM
HEIGHT	2200 MM
CANOPY HEIGHT	200 MM
THROAT OPENING	937 MM
NUMBER OF DOORS/WINGS	1
THROUGHPUT	5 - 6 PEOPLE PER MINUTE
FLOW	BI-DIRECTIONAL, ONE DIRECTION AT A TIME



SECURITY	
CONTACT MATS	TAILGATING DETECTION
WEIGHT SYSTEM	NO
STEREOVISION	NO
BIOMETRIC ACCESS CONTROL INTEGRATION	NO
BIOMETRIC POST - INTERIOR	NO



SAFETY	
EMERGENCY EGRESS (SUBJECT TO LOCAL REGULATIONS)	BATTERY BACK-UP
FAIL SAFE	YES
FAIL SECURE	NO
SAFETY BUFFERS	PRESSURE SENSITIVE SWITCH CONTAINED IN BLACK RUBBER TO IMMEDIATELY STOP DOOR IF COMPRESSED
EMERGENCY OPEN BUTTON	OPENS THE LAST-USED DOOR FROM WITHIN THE PORTAL
FIRE ALARM CONNECTION	OPTION TO CONFIGURE TO OPEN OR CLOSE ON FIRE ALARM
PROTECTION PACKAGES (GLASS)	LAMINATED SECURITY GLASS (P2A) VANDAL RESISTANT
GLASS DECALS	DIRECTION ARROW
FLOOR DECALS	NO



AESTHETICS	
MATERIAL	POWER COATED ALUMINIUM
DOOR PANEL GLASS	LAMINATED SAFETY GLASS (P2A) VANDAL RESISTANT
CURVED WALL GLASS	LAMINATED SAFETY GLASS (P2A) VANDAL RESISTANT
GLASS COLOUR	CLEAR
FLOORING / MOUNT	SURFACE-MOUNTED ON FINISHED FLOOR
WRAPPING / BRANDING	NO



TECHNOLOGY	
OPERATING POWER	230V, 50 HZ
POWER CONSUMPTION	65W
OPERATING TEMPERATURE	-20°C TO +50°C
OPERATION (AUTO / MANUAL)	AUTOMATIC
WEIGHT	680 KGS
FUSES	EXTERNAL POWER SUPPLY FUSED WITH 16A SLOW
AUTHENTICATION PUSH BUTTON ON END POST	NO
CARD READER MOUNT	ON END POST (MAX WIDTH: 60 MM)
ACCESS CONTROL	DRY CONTACTS FOR VIRTUALLY ANY ACCESS CONTROL / BIOMETRIC DEVICE
BOONTOUCH EXTERNAL CONTROL PANEL	NO
BOONTOUCH CONTROL PANEL MOUNT	NO



COMFORT	
DISABLED ACCESS (PASSAGE WIDTH OF 900 MM OR MORE)	NO
LIGHTING	NO
VISUAL AND AUDIBLE CUES	YES
VOICE MODULE	NO
CLEANING MODE	NO

LEVEL UP UPGRADES

HEIGHT	AVAILABLE BETWEEN 2100 - 2600 MM IN INCREMENTS OF 100 MM
CANOPY HEIGHT	AVAILABLE BETWEEN 200 - 600 MM IN INCREMENTS OF 100 MM

WEIGHT SYSTEM	BASIC PIGGYBACKING DETECTION
STEREOVISION	ADVANCED PIGGYBACKING DETECTION. ONE OR TWO-WAY OPTIONS AVAILABLE
BIOMETRIC ACCESS CONTROL INTEGRATION	ADVANCED AUTHENTICATION POSSIBLE IN DOOR EXTERIOR TECHNOLOGY VIA THIRD PARTY
BIOMETRIC POST - INTERIOR	TWO-FACTOR OR MULTI-FACTOR AUTHENTICATION POSSIBLE TECHNOLOGY VIA THIRD PARTY

FAIL SECURE	OPERATION ICO POWER FAILURE PULL RELEASE OPENS FAIL SECURE DOOR FROM SECURE SIDE
BURGLAR-RESISTANT PACKAGE	CLASS 3 GLASS AND REINFORCED PROFILES AND LOCKING
BULLET-RESISTANT PACKAGE	BR4NS / UL3 - RATED GLASS AND REINFORCED PROFILES WITH ADDITIONAL STEEL PLATE
GLASS DECALS (ADDITIONAL)	ON REQUEST
FLOOR DECALS	ARROWS INDICATE TRAFFIC FLOW

MATERIAL	STAINLESS STEEL GRAIN 240 AISI 304, STAINLESS STEEL GRAIN 240 AISI 316, STAINLESS STEEL WITH MIRROR FINISH AISI 304, POWDER COATED ALUMINIUM (30% GLOSS), COLOUR ANODISED, BRONZE CLADDING, POWDER COATED ALUMINIUM (70% GLOSS), ANODISED ALUMINIUM
DOOR PANEL GLASS	BURGLAR RESISTANT GLASS (P5A), BURGLAR RESISTANT GLASS (P6B), BULLET RESISTANT GLASS BR4NS / UL3
CURVED WALL GLASS	BURGLAR RESISTANT GLASS (P5A), BURGLAR RESISTANT GLASS (P6B), BULLET RESISTANT GLASS BR4NS / UL3 ALL THE ABOVE OPTIONS AVAILABLE IN SOLID AS WELL AS GLASS.
GLASS COLOUR	TINTED (GREEN, BRONZE, GREY, BLUE)
FLOORING / MOUNT	SUPPORT CONSTRUCTION FOR COMPUTER ROOM FLOORS
WRAPPING / BRANDING	GLASS DECALS WITH LOGO

AUTHENTICATION PUSH BUTTON ON END POST	SECURE TO NON-SECURE
CARD READER MOUNT	ON END POST (MAX WIDTH: 100 MM) OR LIFELINE BOOST ACCESS CONTROL PEDESTAL MOUNT
BOONTOUCH CONTROL PANEL MOUNT	IS POSSIBLE
BOONTOUCH CONTROL PANEL MOUNT	DESK BUILD-IN DESK BUILD-ON OR VESA BRACKET

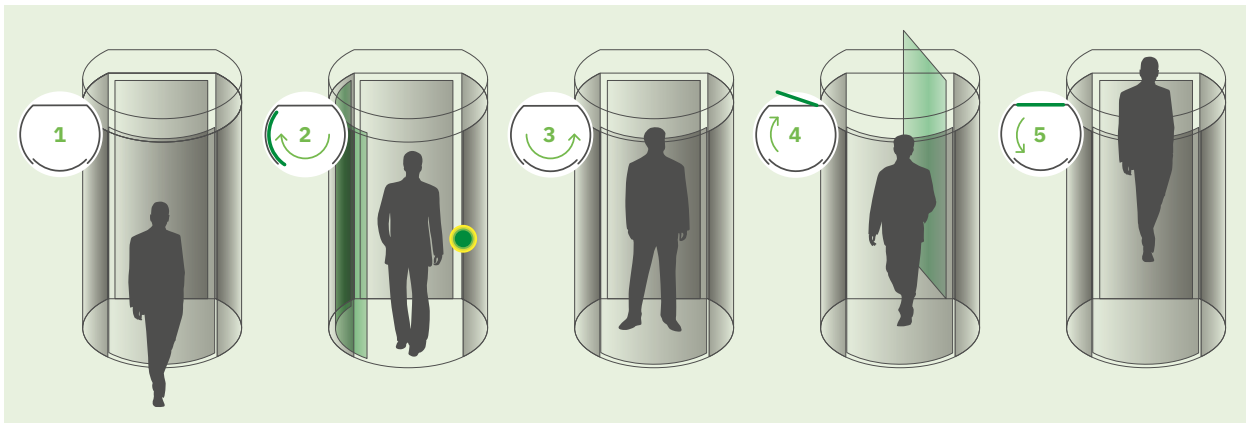
DISABLED ACCESS	SUPERVISED ENTRY POSSIBLE, INTERLOCKING OVERRULED
LIGHTING (ADDITIONAL OR CUSTOMISED)	OVERHEAD LED CEILING LIGHTS
VOICE MODULE	PROGRAMMABLE MESSAGES POSSIBLE
CLEANING MODE	IS POSSIBLE



LEVEL UP

If our standard specifications do not quite suit your need, we open up opportunities for you to 'Level Up' where it counts most. You can also do this according to your most motivating value driver. The 'Level Up' options on the left are compatible with the **Circlelock Combi**.

WORKING PRINCIPLES



DIMENSIONS



PUTTING THE POWER BACK IN YOUR HANDS

One size does not fit all, and that is why we at Boon Edam believe in offering modular solutions. This approach allows the security professional to design a tailored entrance solution that balances security and safety with aesthetics.

The result is a unique entrance that fits the needs of each industry, application and individual company. To get started, choose from an array of quality standard options. Then, 'Level Up' where it matters most to your company – whether that be in terms of throughput, security, safety, aesthetics, technology or user comfort – or a combination of each. A modular solution approach truly puts the power back into your hands - the power to create a refined entry with ease.

SCALABLE FLEXIBILITY IS THE FUTURE

By having the power to decide what is most important to your project, you are able to meet your security goal easily and within your own budget. We work together with you to ensure that by using these options, you will end up with a product that outperforms the others. Safely, beautifully and profitably.



SERVICE AND MAINTENANCE

With hundreds or thousands of visitors passing through an entry every day, continued and reliable operation is vital. Regular service and maintenance can prevent unexpected hardware breakdowns. Boon Edam's service and maintenance teams across the world are experienced in the effects the local conditions have on the wear and tear of your entry solutions and can offer specialised service and maintenance contracts that correspond to those conditions perfectly.



COMPLIANCE

The goal of an organisation is to safeguard the valuable assets inside – both people and property. As is often the case, industries must comply with relevant local and global laws, policies and regulations, to achieve the important goal of overall safety and security. Failure to meet the appropriate measures and criteria set out in these regulations could result in catastrophic incidents and substantial fines.

Boon Edam security entrances are trusted solutions that allow organisations to meet compliance regulations related to restricting access to areas within a building. We take compliance and safety very seriously and ensure that our products are manufactured, installed and maintained to keep up the strict criteria required in all our countries. We are always improving and committed to making sure our products are compliant and certified. More information can be found on our website under 'Our Responsibility'.

The Circlelock Combi complies with the following European standards:

- ✓ Machine Directive 2006/42/EC
- ✓ EMC Directive 2014/30/EC
- ✓ EN1627 – Burglar resistant package
- ✓ EN1063 / EN1522 – Bullet resistant package
- ✓ EN356 – Glass specification

OUR REACH IS **GLOBAL.**

We have been in business for more than 140 years manufacturing premium aesthetic and security entrance solutions in the Netherlands, United States of America and China. We can confidently say that we cover every corner of the globe with subsidiary companies in major cities across the globe. Furthermore our global export division not only partner with our distributors, but also offer direct sales and service to every territory. This wide net allows us to have a strong global footprint as well as a personal grasp of local markets and their unique entry requirements.

To find your closest Boon Edam expert, please go to:
www.boonedam.com/contact

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