



**BOON EDAM**  
YOUR ENTRY EXPERTS.

## DUOTOUR

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THE **SLIDING AND ROTATING** COMBO REVOLVING DOOR



## OVERVIEW

When your entrance needs to combine elegance, high capacity and adaptability, the Duotour is the perfect solution. This two-wing automatic revolving door is designed for environments that experience varying traffic conditions throughout the day, such as hospitals, airports, shopping malls, and hotels.

Unlike traditional revolving doors, the Duotour features a column-free design, allowing for a completely unobstructed passage. Its large segments can easily accommodate wheelchairs, luggage trolleys, hospital beds or groups of people. Thanks to the integration of automatic sliding or swinging doors in the door set, the Duotour can seamlessly transition from a revolving mode to full-door opening at the push of a button. This unique hybrid functionality ensures smooth operation and high throughput, even during peak moments.

## FLEXIBILITY MEETS FUNCTION

The Duotour is more than a revolving door, it is a multi-functional entry system designed for maximum efficiency and adaptability. In everyday situations, it operates as a quiet, energy-efficient revolving door. But when higher capacity is needed, the integrated sliding or swing doors open wide, functioning just like a standard automatic door, complete with features like winter mode and access control integration.

This makes the Duotour especially suitable for buildings that require both climate separation and temporary full clearance, such as when transporting medical equipment or other large objects.

## DESIGN & AESTHETICS

Every Duotour is built with a fully aluminium structure, including the ceiling, finished in the same colour as the door itself for a seamless and premium appearance. This consistent finish ensures architectural harmony and a modern look, outperforming competitors that rely on contrasting materials.

For projects where maximum transparency is desired, the Duotour can be delivered without showcases, providing a clean, open aesthetic. This level of design flexibility is unmatched, especially when compared to other systems that only support framed showcase configurations.

Thanks to its rotating drum wall segments, the Duotour also offers a built-in night closure. There's no need for additional (manual or automatic) shield doors for night locking because the door design itself ensures a secure and visually integrated closure after hours.

## ACCESSIBILITY

The Duotour's accessibility features are designed to ensure a safe, convenient, and inclusive experience for all users, including those people with disability. Its functionality includes a slow rotation speed, allowing users who need more time to enter or exit to do so comfortably. Additionally, the spacious design provides ample room for a smooth and accommodating passage, enhancing the overall user experience.

## SAFETY AND SECURITY

The Duotour is a secure and safe entry solution. It meets rigorous safety regulations and incorporates safety sensors in the door wings and frame to detect users and objects, avoiding any impact. The door's behaviour can be customised to meet your building's specific needs, accommodating various user groups, including trained individuals and those with special needs like children and the elderly.

### We offer the following (additional) safety measures:

- Accessibility buttons
- Sensors with laser technology
- Contrasting stickers with safety icons on the glass
- Emergency stop and / or open buttons
- Intelligent speed control
- Block detection
- Anti-lock in button

The front entrance to an office, residential or public building should also include security options. Whether an uninvited visitor is outside the door or the facility manager is locking up for the night, revolving door security options allow for an added layer of protection.

We offer the following additional locking and protection measures:

- Automated or manual locking

## KEY FEATURES

- 2-Wing configuration without centre column
- Optional integrated automatic sliding or swing doors

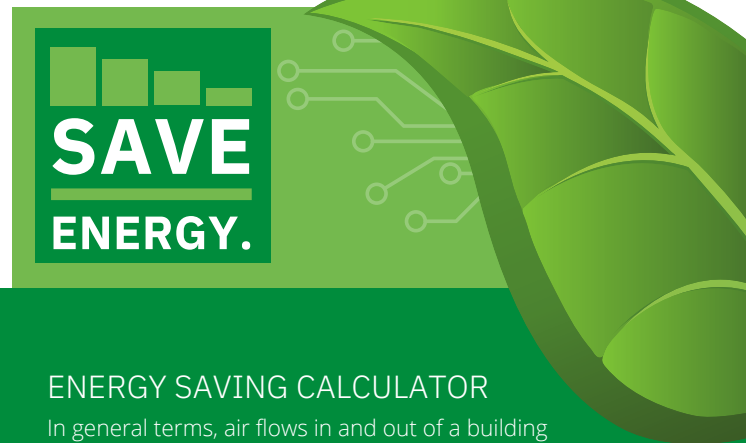
- Configurable operation (rotating or sliding depending on user traffic)
- Available with or without showcases, enabling a more transparent appearance
- Full aluminium construction, including ceiling, powder coated in one uniform colour
- Smart door logic including winter mode and traffic-responsive operation
- Wide range of segment sizes and dimensions

## KEY BENEFITS

- Handles high-capacity throughput
- Inclusive, spacious, and barrier-free access
- Sustainable and energy-saving
- Smooth visitor flow
- Automatic operation for touchless entry
- Highly customisable
- Draft-free entrance (Reduced air infiltration)

## SUGGESTED SEGMENTS

- Airports
- Healthcare
- Retail
- Hotels



## A SUSTAINABLE SOLUTION

Revolving doors are energy-efficient, separating conditioned inside air from outside air to prevent draughts, dust, and noise. This reduces energy consumption, costs, and carbon footprint.

At Boon Edam, we are proud of what we have achieved over the past 150 years. We strongly believe in building a sustainable future and preserving the earth for future generations. We constantly strive to improve our manufacturing processes and use recycled or recyclable materials wherever possible - this is part of our DNA. Production with minimal impact on the environment is a priority for us. For example, we have reduced the percentage of raw materials to lighten our carbon footprint. More detailed information on each of our products can be used for LEED certification processes - speak to your entry expert for the full story.

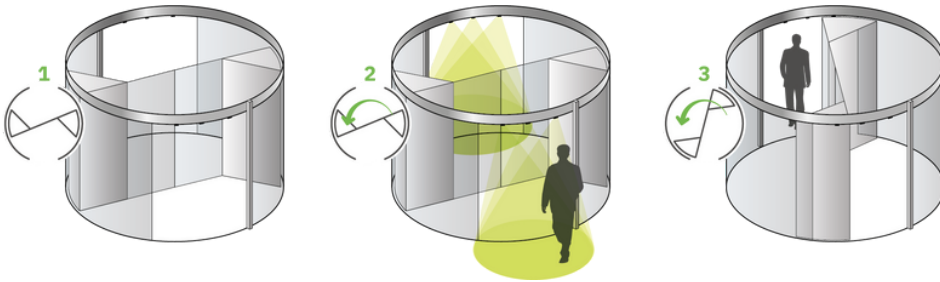
## ENERGY SAVING CALCULATOR

In general terms, air flows in and out of a building because of differences in air pressure and humidity in what is known as the stack effect. In the winter, heated air rises toward the top of a building, and as long as there are any openings on the ground floor, cold air rushes in to replace the heated air. The opposite happens in the summer, with the cold air flowing out the front doors. In addition, air flows through the building when doors, vents or windows are open; this is known as a wind tunnel effect. Regular foot traffic through ordinary doors can result in massive air leaks, requiring more energy to maintain the interior climate.

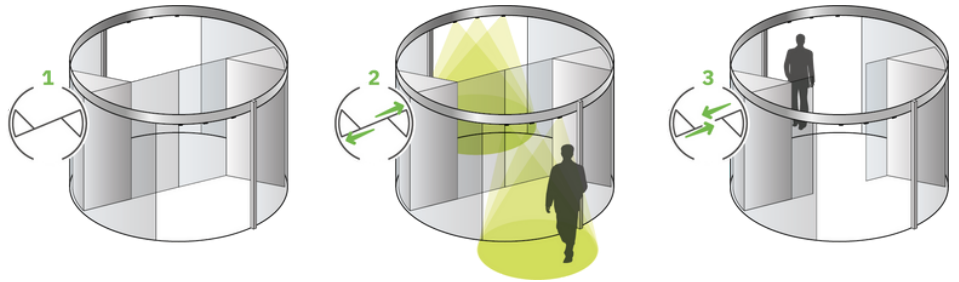
Working closely with the University of Delft, one of the leading technical universities in the Netherlands, Boon Edam has developed software that is able to use building-specific data to determine the energy saved by revolving doors compared to swinging or sliding doors.



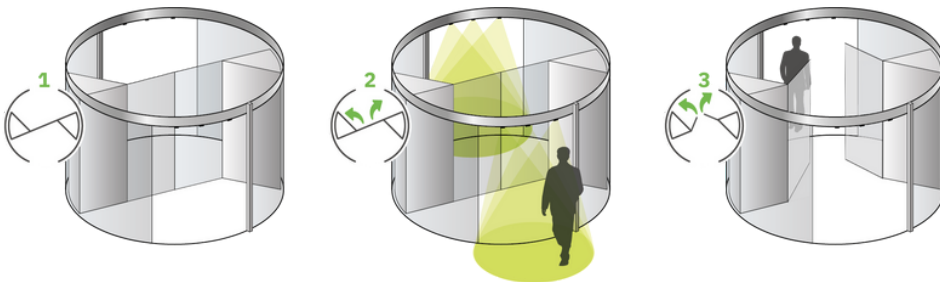
### WORKING PRINCIPLE - REVOLVING MODE



### WORKING PRINCIPLE - SLIDING MODE



### WORKING PRINCIPLE - SWINGING MODE



Showing model with showcases.

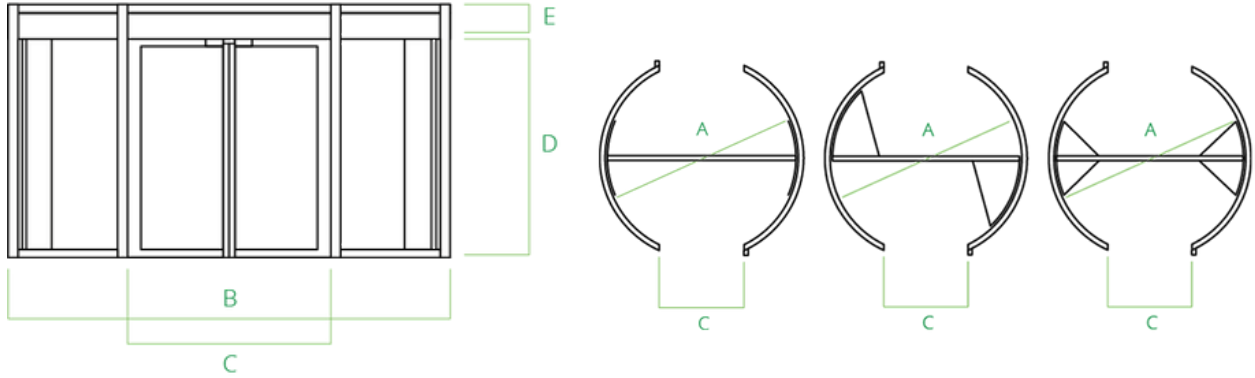


Showing model without showcases.

## DIMENSIONS

The diameter of the door, the height of the door opening and numerous other physical measurements can all be optimised to create your desired look and

complement surrounding building elements and location. By fine-tuning your entrance to suit these, fluid and harmonious aesthetic can be created.



| A<br>Internal Diameter (mm) | No. of Door Wings | Max Persons per Segment | Theoretical Capacity / Minute* | User Type | Escape Route | B<br>Installation Width (mm) | C<br>Throat Opening (mm) | D<br>Height Under Canopy (mm) | E<br>Canopy Height (mm) |
|-----------------------------|-------------------|-------------------------|--------------------------------|-----------|--------------|------------------------------|--------------------------|-------------------------------|-------------------------|
| 3600                        | 2                 | 5                       | 36                             | ♿         | ♿            | 3804                         | 1654                     | 2200 - 2600                   | 300 - 600               |
| 4200                        | 2                 | 8                       | 43                             | ♿         | ♿            | 4404                         | 1954                     | 2200 - 2600                   | 300 - 600               |
| 4800                        | 2                 | 11                      | 53                             | ♿         | ♿            | 5504                         | 2254                     | 2200 - 2600                   | 300 - 600               |
| 5400**                      | 2                 | 12                      | 59                             | ♿         | ♿            | 5604                         | 2254                     | 2200 - 2300                   | 300 - 600               |

\* Capacity figures are theoretical and based on the max. number of persons per segment in a continuous flow.  
 \*\* Only available with sliding doorset option in the showcase version. Requirements are subject to local regulations.

## SO MUCH MORE

The Duotour offers many ways to be fine-tuned to ideally fit your project. The above table is merely an overview of what is possible with this flexible high

capacity revolving door. Please speak to your entry expert to find out more about putting your stamp on your Duotour.





# Option SELECTOR

The design of a building's entrance is crucial in creating a memorable first impression. At Boon Edam, we collaborate with architects and contractors to help them make optimal choices that align with each project's unique specifications. With the Duotour rotating and sliding door in one, you can customise your entrance to meet both functional and architectural goals.

## PUT YOUR STAMP ON IT

The Duotour combines the benefits of a high-capacity revolving door with the flexibility of integrated sliding or swing doors. Whether you require transparency without showcases for a clean, modern look or want to include integrated display showcases, the Duotour can be configured to match your design vision. The all-aluminium construction, including the ceiling in matching colour, offers a unified, premium appearance that seamlessly blends with any façade.

Our standard specified products come in different heights, widths, canopy heights, and clear passage heights, providing flexibility to meet diverse design, safety and accessibility needs. If your requirements extend beyond the available options, our experienced sales managers and engineers will collaborate with you to create a safe and sustainable entrance just for you.

**NOTE:** Several option combinations can impact the throughput capabilities and integration with the building's structure. Therefore, we recommend that you discuss your needs with a Boon Edam entry expert.

You can select options in any of these areas:

THROUGHPUT    SECURITY    SAFETY

TECHNOLOGY    COMFORT    AESTHETICS

SERVICE



### THROUGHPUT

- Diameter (mm)
- Doorset type (swinging or sliding with or without showcases)



### SAFETY

- Fire alarm connection
- Additional emergency stop button
- Anti lock-in button
- Emergency open button
- Accessibility button (push-to-slow button or barrier-free)
- Contrasting stickers on curved walls
- Extra safety sensors
- Voice module
- Uninterruptable power supply



### AESTHETICS

- Canopy height (mm)
- Height under canopy (mm)
- Material / finish (stainless steel, brass or aluminum)
- Coating / surface treatment (powder coating, Analok or anodised)
- Glass decals and / or branding
- Glass type
- Canopy cover finish
- Showcases in doorset
- Position (mid-post / interior / exterior)



### SECURITY

- Semi-secured passage with access control
- Automated locking (bi-stable)
- Security glass options (P2A, P5A)



### TECHNOLOGY

- External control panel
- Smart lighting control
- Frost protection <-15°C



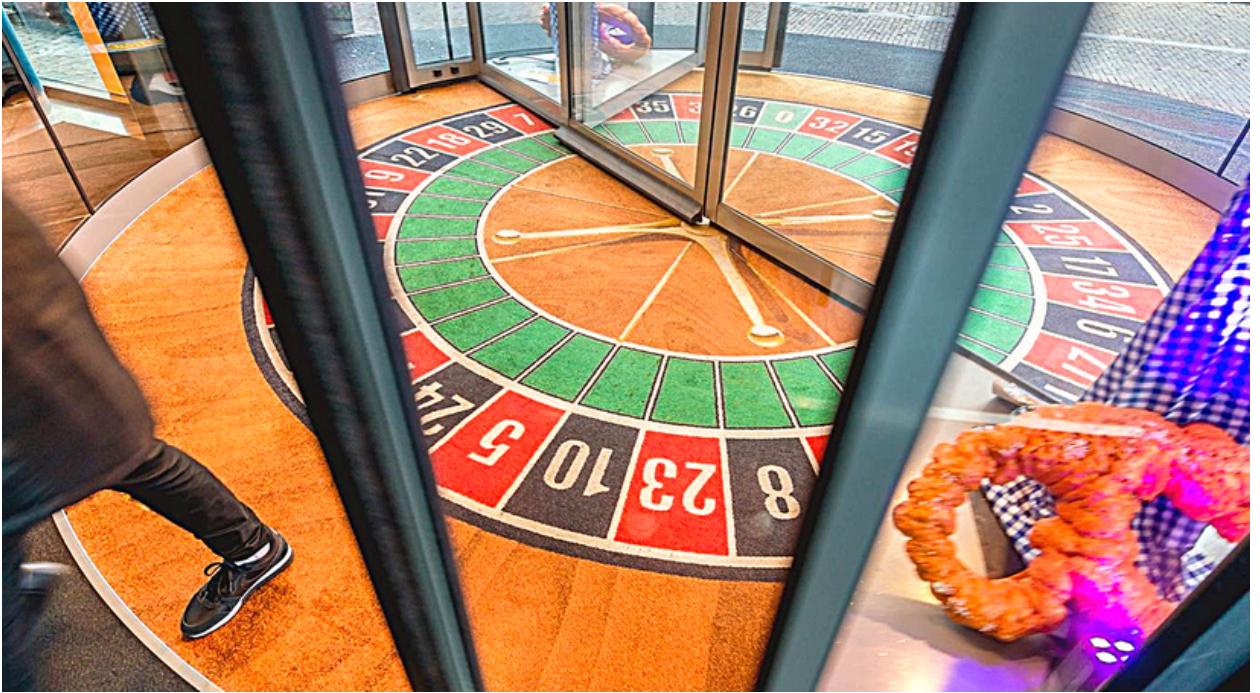
### COMFORT

- LED Lights
- Glass protection sheet
- Air curtain
- Floor mat
- Matwell trim
- Watertight prepared cover (exterior)
- Cleaning mode
- Transport mode



### SERVICE AND MAINTENANCE

- Service agreements and maintenance
- Technical support and parts
- Retrofit and upgrades to existing revolving doors
- Operational training



## SERVICE AND MAINTENANCE

With millions of visitors passing through an entry every day, continued and reliable operation is vital. Regular service and maintenance can prevent unexpected hardware breakdowns. Our service and maintenance teams worldwide are experienced in the effects local conditions have on the wear and tear of your entry solutions and can offer specialised service and maintenance contracts that perfectly correspond to those conditions.

We continuously invest in our in-house technicians and engineers by employing our own fully trained and dedicated service maintenance experts. This ensures that you receive the best possible service, with minimal product downtimes and a maintained high-quality entrance investment.

## RETROFITS AND UPGRADES

While we are fully confident in the longevity of all our products, we also understand that your own wants and needs can change over time. Between newer technologies, the need to adhere to new rules and regulations, or even just to give your building a new lease of life, we understand that it's important to have the flexibility and resources available to ensure your building's entrances always meet not only your needs but your staff and visitors needs too.

That is why we are proud to offer a range of upgrade and retrofit services, all designed to keep your entrance up to date and equipped to tackle the everyday.

## COMPLIANCE

Boon Edam 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 with the strict criteria required in all our countries. We are always improving and committed to making sure our products are compliant and certified.

### The Duotour complies with the following European standards:

- Machine Directive 2006/42/EC
- EMC Directive 2014/30/EC
- RoHS Directive 2011/65/EU
- EN16005 - Safety in use for power pedestrian doors
- EN356 – Glass specification



# OUR REACH IS GLOBAL.

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We have been in business for over 150 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:  
<https://www.boonedam.com/en-gb/contact>



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