High-Capacity Revolving Door
ASSA ABLOY RD3L

ASSA ABLOY
Entrance Systems

The global leader in
door opening solutions

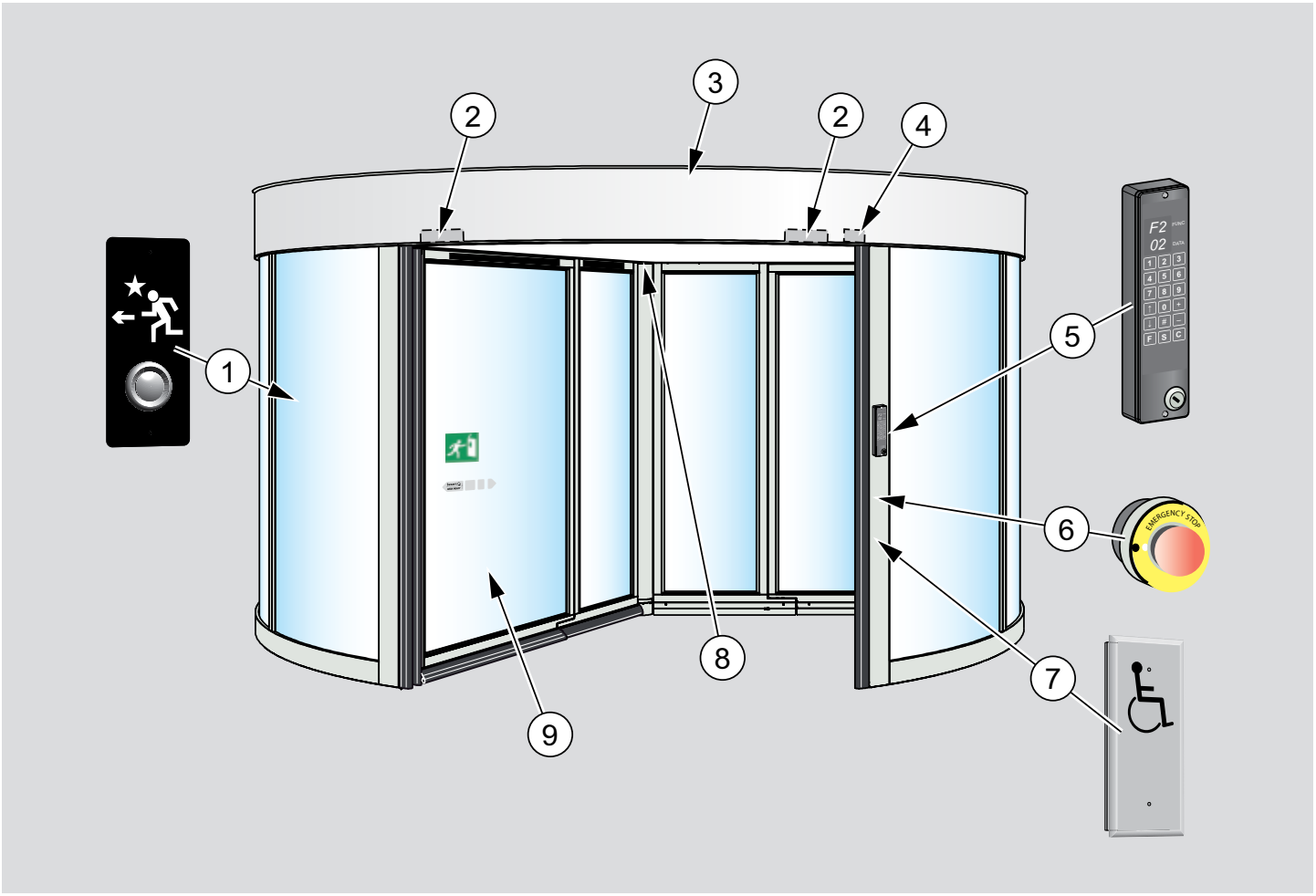
ASSA ABLOY ENTRANCE SYSTEMS
Automatically green

With large convenient compartment areas, the ASSA ABLOY RD3L is an ideal solution for entrances with continuous, high-volume pedestrian traffic

Sustainable Entrances
ASSA ABLOY revolving doors can reduce the amount of energy needed to heat or cool a building, resulting in optimal energy savings and smaller carbon footprint. Regular maintenance, additional sensors and add-on products can further increase saving capabilities while prolonging the equipment's life.

A high-capacity Revolving Door Entrance
The ASSA ABLOY RD3L range of large three-wing automatic revolving doors has been designed to achieve high pedestrian traffic flow whilst maintaining ASSA ABLOY's recognized high standard of safety for the user.
The door is designed so that operation is not affected or interrupted by winds or by users pushing the door wings. However, in emergency situations, the doors are released immediately to facilitate escape.

Technical specifications	
Power supply	230 V, 50Hz, mains fuse max 10 A or 100-120V, 50/60Hz, mains fuse max 16A
Power consumption	400 W /30 W resting
Lighting LED 5 W	75 W
Ambient temperature	-20 to +50°C
The ASSA ABLOY RD3L complies with the - Machinery Directive (2006/42/EC), - Low Voltage Directive (2006/95/EC) - Electromagnetic Compatibility Directive (2004/108/EC) - requirements according to DIN 18650, EN 16005	
CE marked	
The third party approvals from established certification organizations valid for safety in use, see Declaration of conformity	



Design

- Prefabricated with aluminium extrusions.
- Curved glass: 4 + 4 mm clear laminated
  Flat glass: 3 + 3 mm clear laminated
  other types of glass available
- Ceiling of white laminated panels
- Push button inside, the door will rotate 360° (1)
- Concealed activation units (2)
- Dust protection roof (3)
- Vertical presence sensor above the right entrance post (4)
- Program Control Device (PCD) with key switch (5)
- Emergency stop button (6)
- Push-button for reduced speed rotation (7)
- Main control unit CDC (8)
- Door leaves with break-out function (9)

Night Closing Door (NCD)

NCD provides additional security at night or after business hours.

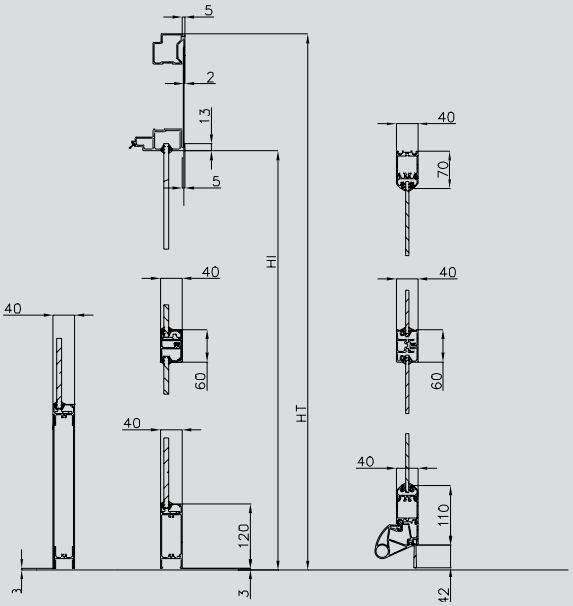
Easy smooth access

The large-sized compartments, which are always accessible due to the 3-wing configuration, make the ASSA ABLOY RD3L an ideal solution for continuous high-volume pedestrian traffic, while comfortably accommodating wheeled traffic such as shopping carts, luggage trolleys and wheelchairs. The ASSA ABLOY RD3L range is versatile, available in different diameters, and is delivered as standard in counter-clockwise rotation.

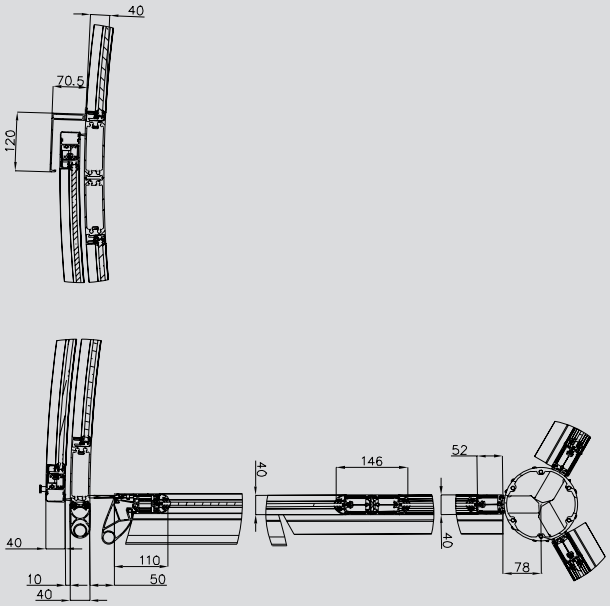
Drive system

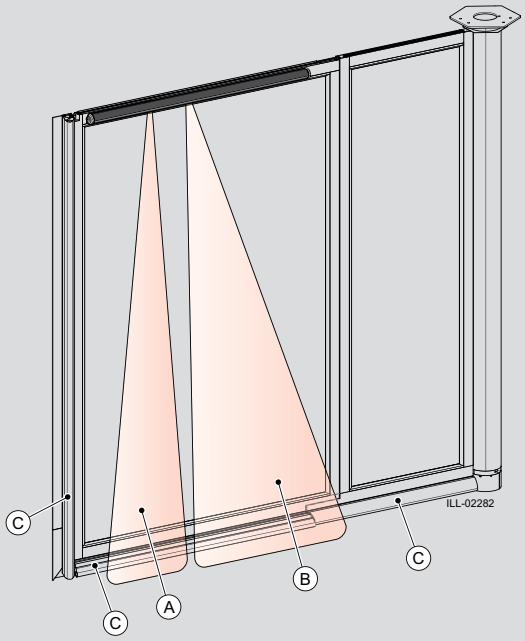
The CDC control system is a state-of-the-art and unique system designed to ensure the lowest operating/maintenance cost and highest safety. The system is equipped with automatic diagnostics that can be stored in an event log. The control system, combined with the patented drive system located on the periphery, results in low stresses to the unit and therefore reduces maintenance costs.

Vertical sections



Horizontal sections

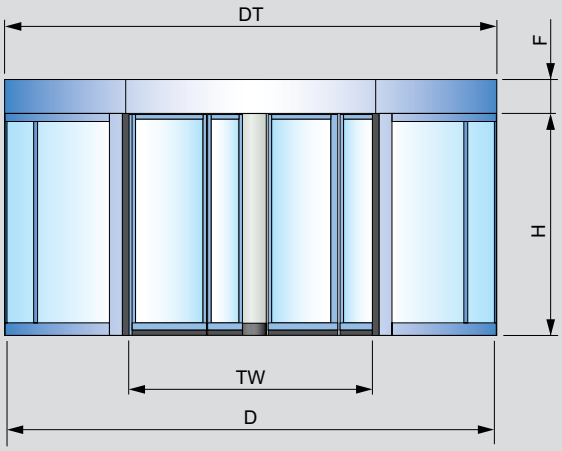


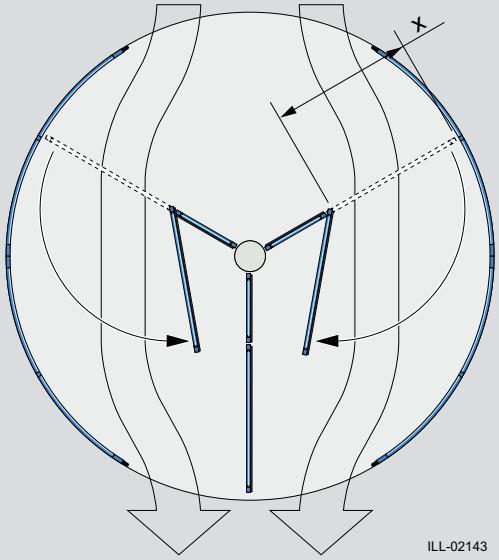


Fire doors
The revolving door can be linked to the fire alarm system. In the case of power failure or fire alarm, the doors will automatically stop rotating and release the door leaves. This allows the door leaves to be manually broken out, giving a clear unimpeded evacuation path.

Safety system
The system is designed for non-touch and supervised safety. The safety systems of the ASSA ABLOY RD3L range have been tested by authorized/ accredited laboratories to meet DIN 18650 as a minimum requirement.
The ASSA ABLOY RD3L is designed to be placed and fixed directly onto the finished floor surface.

Safety features:
- Non-touch safety sensors placed horizontally on the door leaves
  Stops the door (A)
  Slows down the door speed to 0.5 rpm (B)
- Compressible vertical/horizontal safety switches placed on the leading edges of the rotating section
  Stops the rotation of the door (C)
- Emergency stop button
- Vertical presence sensor above the right entrance post
- Force-sensitive door leaf
- Speed control
- Active brake
- Active electromechanical brake
- National standards may influence the choice of safety functions.





Product name	DT (outer)	D (inner)	D NCD (outer)	TW	H standard 2200	F standard 340	X	RPM (750 mm/s)	Persons/ compartment	Persons/ hour	Trolleys/ compartment
ASSA ABLOY RD3L 42	4290	4200	4360	1991	2000-3000	340-1250	1142	3.4	5	3060	
ASSA ABLOY RD3L 48	4890	4800	4960	2292	2000-3000	340-1250	1332	3.0	7	3780	1
ASSA ABLOY RD3L 54	5490	5400	5560	2592	2000-3000	340-1250	1510	2.7	9	4370	2
ASSA ABLOY RD3L 62	6290	6200	6360	2992	2000-2600	340-1250	1777	2.3	12	4970	3

Rotation speed adjustment

- High speed settings according to DIN 18650
- Adjustable low speed

Operating mode

- Programme selector operated by access code
- Autostart:
  - Continuous rotation on low speed, automatic start-up to high speed when impulse is activated
  - Manual override, forward or reverse
  - Closed (locked)
  - Summer position
- Real time operation

Accessories and Options

- ASSA ABLOY activators
- Powder-coated finish (RAL colours)
- Anodizing
- Stainless steel cladding
- Additional emergency stop
- Electro-mechanical lock
- Spotlights or downlights
- Midrails
- Footrails
- Sheet metal sandwich panel instead of glass
- Water-resistant cover
- Internal height non-standard (max. 3000 mm*)
  * 2600 for door diameter 6200
- Fascia height non-standard (max. 1250 mm)
- Insulated fascia
- Direction sensing radar
- Clockwise rotation
- Night closing door
- Special load bearing roof
- Integrated air curtain

This equipment should be installed, regularly inspected, maintained and serviced by trained and authorized personnel. Preventive maintenance plans are highly recommended for a proper and safe operation. Talk to your ASSA ABLOY Entrance Systems representative to learn more about our service offering!

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