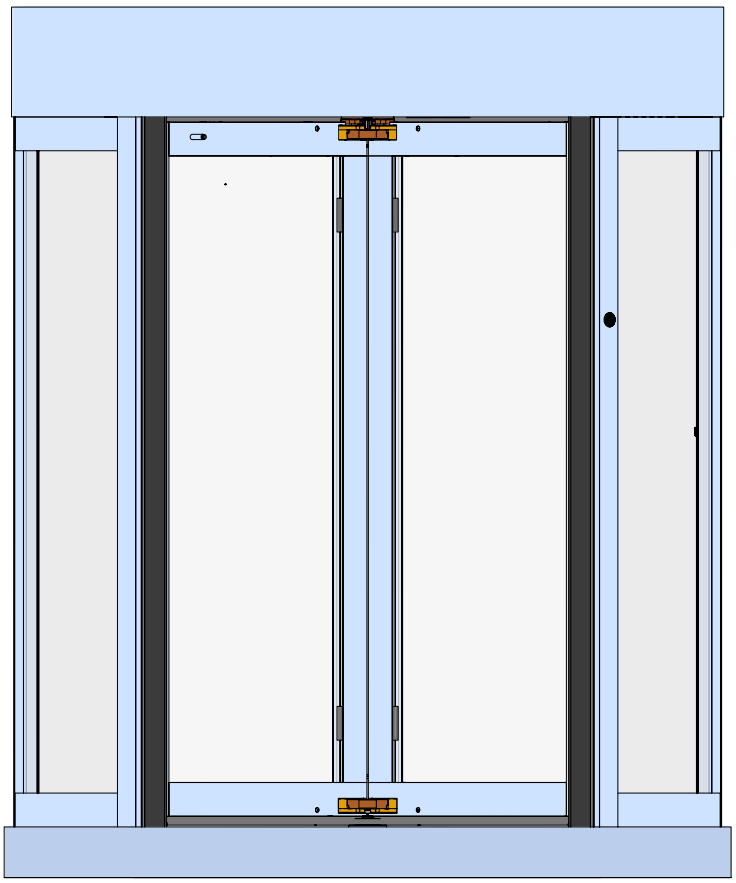
ALVARADO
dormakaba Group



S2/S3/S4 BULLET-RATED SECURITY REVOLVING DOORS

Owner's Manual

RL6008-002 – 10-2026

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1 General Information

1.1 S2/S3/S4 security revolving doors.

Revolving door that prevents unauthorized access and minimizes impact on traffic flow .

Reference Chapter 6 for diagrams.

1.1.1 S2 security door with anti-tailgating.

- Anti-tailgating prevents unauthorized access in the opposite direction and in the next chamber.

1.1.2 S3 security door with anti-tailgating and anti-piggybacking: Entry sensor.

1.1.3 S4 security door with anti-tailgating and anti-piggybacking: Entry and Exit sensors.

- Anti-tailgating prevents unauthorized access in the opposite direction and in the next chamber.
- Anti-piggybacking restricts access to a single confirmed person.

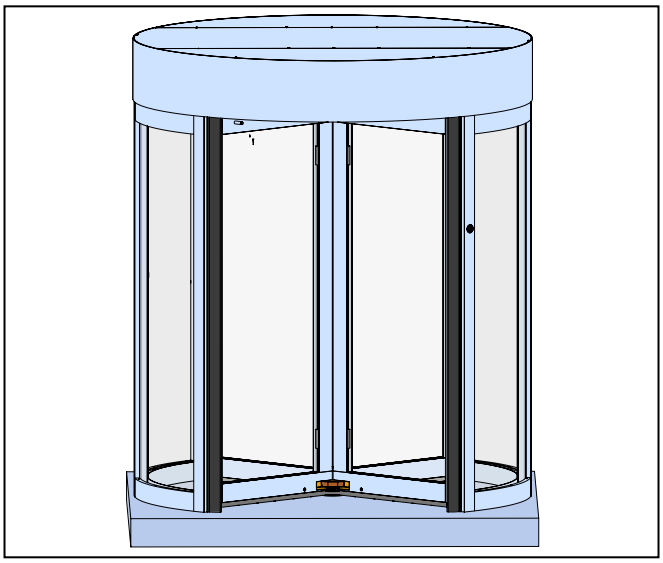
1.2 Owner's Manual

This Owner's manual applies to Alvarado S2/S3/S4 bullet-rated (BR) security revolving doors with K9 drive.

1.3 BR3 Bullet-rated (BR).

The glass and fiberglass utilized in this security revolving door are bullet-rated (Certified) tested and certified to a UL752 Rating of Level #3.

Fig. 1.1 AL2000-S3-BR3 SRD



1.4 Manual storage.

This document must be kept in a secure place, and accessible for reference as required.

1.5 Dimensions

Unless otherwise specified, all dimensions are given in inches (“).

1.6 Symbols used in this manual.

WARNING

This symbol warns of hazards which could result in personal injury or threat to health.

CAUTION

Warns of a potentially unsafe procedure or situation.

TIPS AND RECOMMENDATIONS

Clarifies instructions or other information presented in this document.

2 To Our Customers

We are pleased that an Alvarado S2,S3 or S4 bullet-rated (BR) security revolving door has been selected for this installation.

The purpose of this manual is to provide you information regarding your Alvarado S2/S3/S4 BR security revolving door. This includes safety, S2/S3/S4 security operation and maintenance information.

It is essential that you recognize the importance of maintaining your door.

It is your responsibility as owner and caretaker of the equipment, to inspect the operation of your door system to insure that it is safe for use by your customers and employees.

Call your local Alvarado distributor for repair. The distributor is trained to service the revolving door using the applicable Alvarado Installation Manuals.

Service availability.
Alvarado has a nationwide network of authorized distributors for sales, installation and service of its products.

3 Distributor Information, Ordering Replacement Parts

3.1 Distributor Information

3.1.1 Alvarado distributor information.
Be sure that the Alvarado distributor has provided the following information for each door installation:

1. Alvarado Owner's Manual RL6008-002.
2. Review of S2/S3/S4 user interfaces (Chapter 5) and S2/S3/S4 security door operation (Chapter 6).
3. Discussion of problems that could result from door operation after a malfunction observed.
4. Number to call for service or questions about your revolving door if you are uncertain of any condition or situation
5. Ordering replacement parts (Reference Para. 3.2)

⚠ WARNING

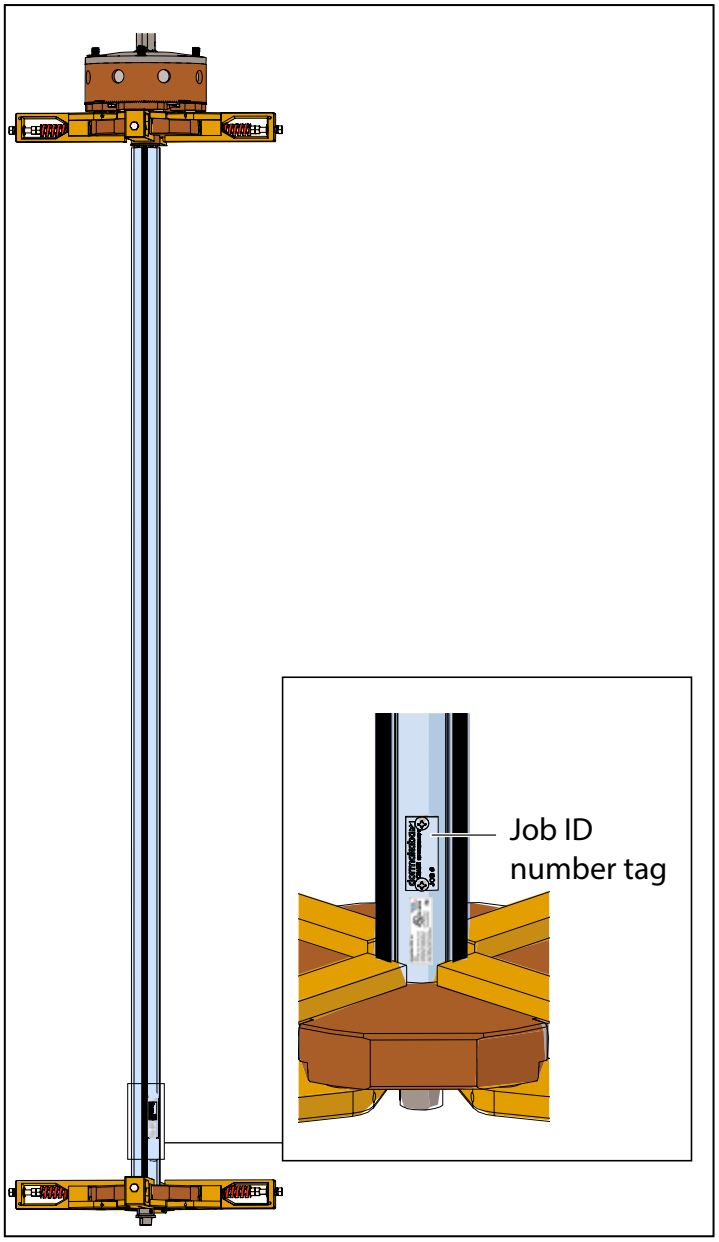
If there are any problems, discontinue door operation immediately and secure the door in a safe manner.
Call your local Alvarado distributor for repair.

3.2 Ordering Replacement Parts

NOTICE

Ordering replacement parts - Job ID number. Part numbers for specific assemblies will vary depending on door height and width, finish requirements, and possible custom order requirements.
When ordering replacement parts, refer to the job number on the **Job number ID Tag** to ensure that the correct part(s) will be delivered.

Fig. 3.2.1 Shaft assembly Job number ID tag



4 Safety

4.1 Intended Use

4.1.1 Intended use.

- The S2/S3/S4 4 wing security revolving doors are designed to provide limited access for pedestrian traffic between two separate areas.
- **Security doors are intended for use only by personnel trained in their proper use.**
- When a bookfold turnstile is used (Para. 7.1), the revolving door can be used as an emergency exit.

WARNING

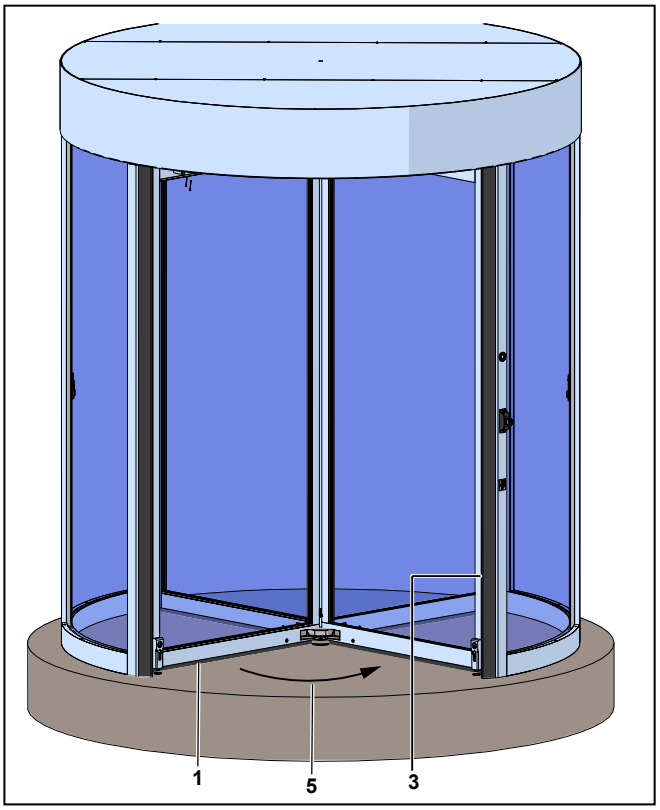
In case of emergency, revolving door can be used as an exit, but it is not the primary path of egress. The side door(s) should be used!

- **The customer can only operate the revolving door after door commissioning and training by Alvarado / Crane service technicians.**

4.2 Danger Points Of The Revolving Door

When passing through the revolving door, people may be at risk for injury at the following locations in Fig. 4.2.1.

Fig. 4.2.1 Revolving door danger points



WARNING

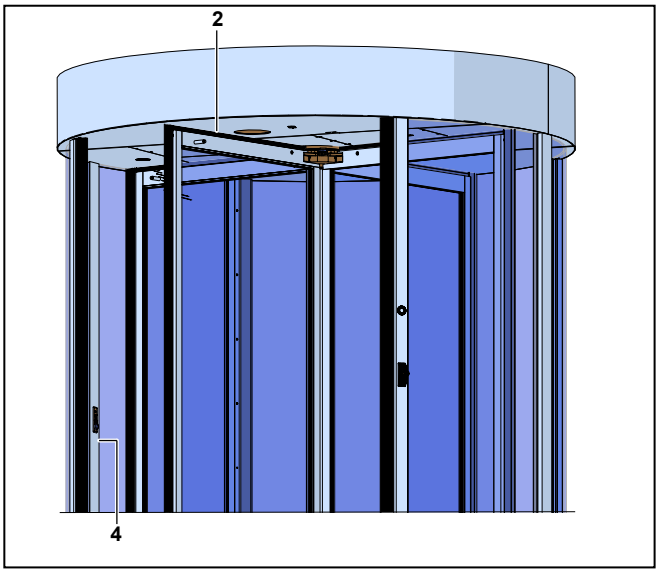
Danger of misuse!
Misuse of the revolving door can cause dangerous situations.

- Never mount or hang objects on the revolving door.
- Never stop or block the revolving door with an object.
- Do not walk through the revolving door with bulky objects.
- Do not walk against the wing rotation direction of the revolving door.
- Do not operate the revolving door if there is insufficient lighting.
- Do not operate the revolving door if it is damaged (e.g., broken glass).
- Never use replacement parts that are not approved by Alvarado.

TABLE 4.2.1 Revolving door danger points

1	Secondary closing edge, floor
2	Secondary closing edge, canopy
3	Opposing closing edge
4	Main closing edge, inner wall
5	Wings rotate in a counterclockwise direction

Fig. 4.2.2 Revolving door danger points



4.3 Bullet-rated SRD fiberglass panels

4.3.1 Fiberglass panels - Bullet-rated SRD

The bullet-rated SRD assemblies contain concealed fiberglass panels.

⚠ WARNING

Wear appropriate personal protective equipment (PPE) when removing, installing, or working near the fiberglass panels.
Failure to follow proper safety precautions may result in personal injury.

Fig. 4.3.1 Bullet-rated SRD

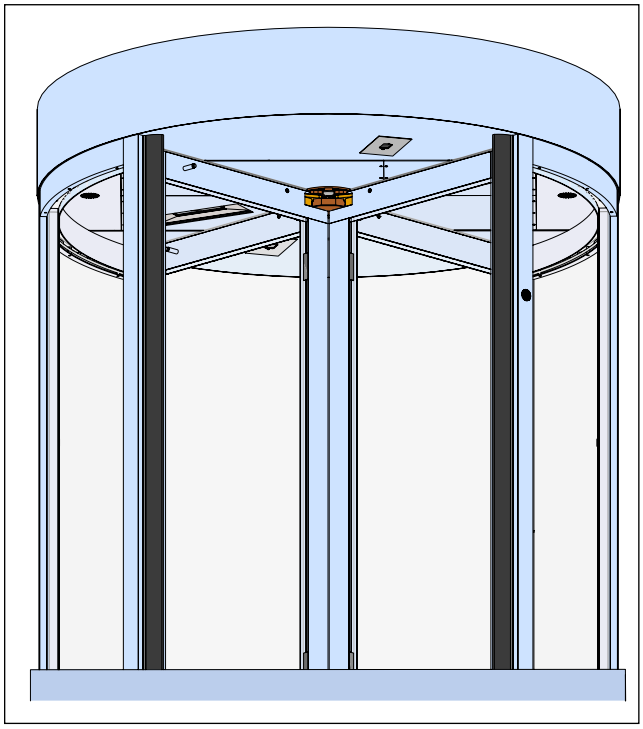
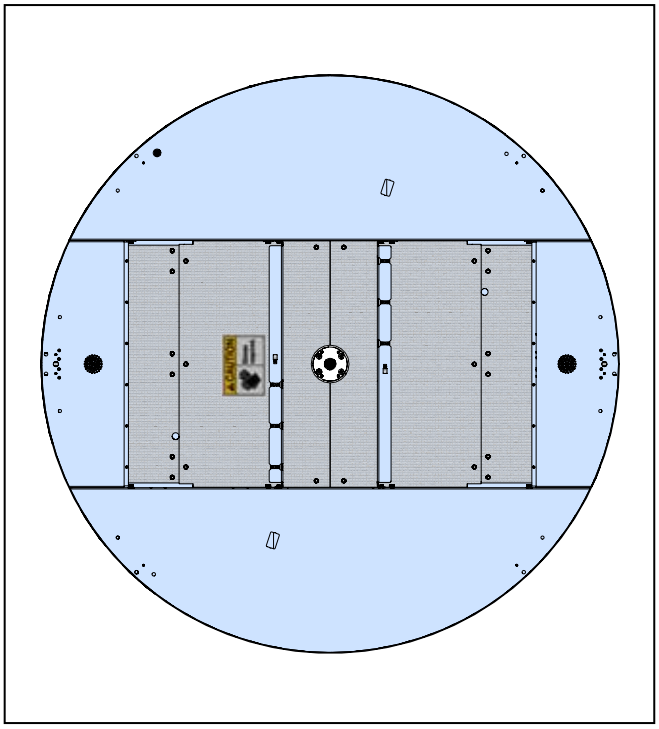


Fig. 4.3.2 Canopy fiberglass panels with soffit panels removed- example



5 User Interfaces

5.1 User Interfaces

5.1.1 Door user interfaces.

NOTICE

The MODE LOCK switch (8), E-Stop (1) and operating unit (4) are are field installed. They are mounted based on customer needs in coordination with the installer.

The POWER switch (9) is field installed and located at the discretion of the installer.

TABLE 5.1.1 Door user interfaces

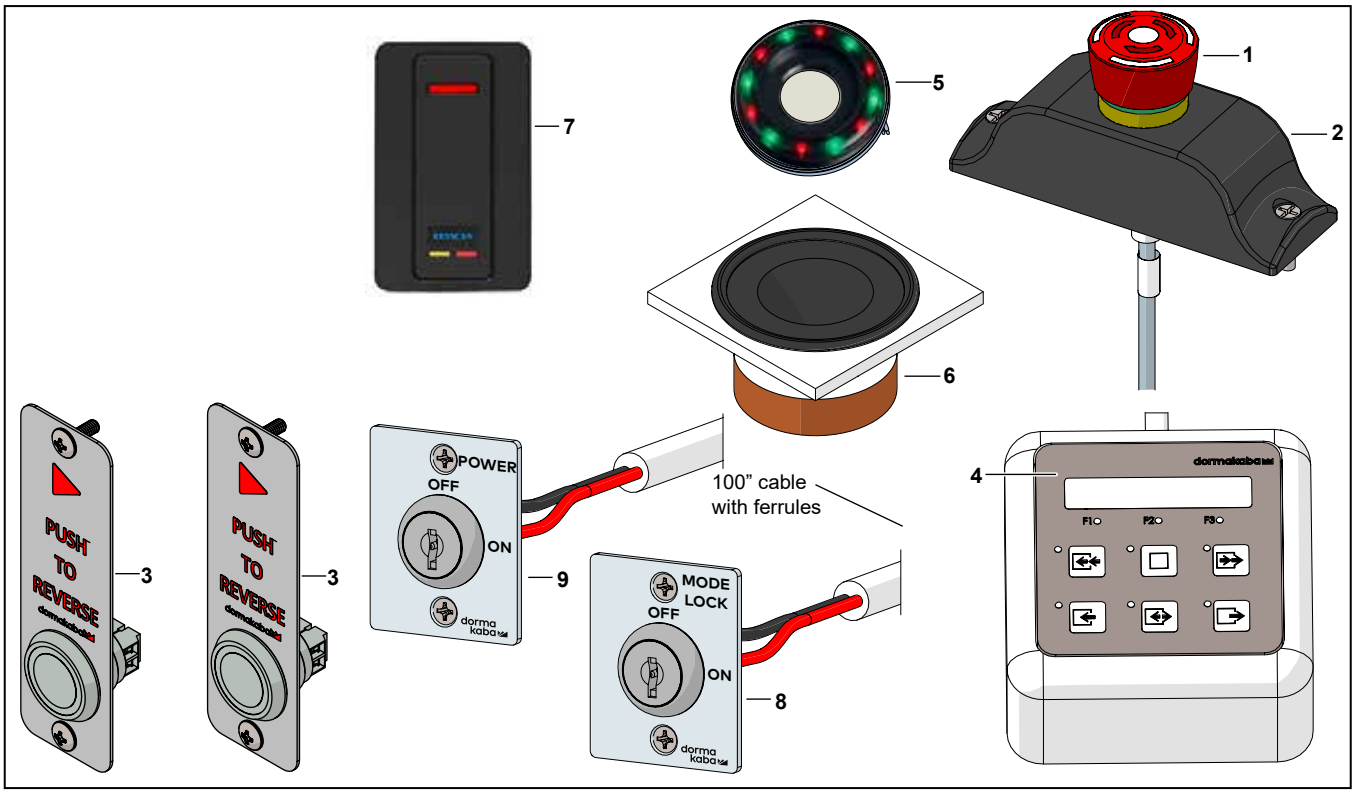
ID#	Function
1*	E-Stop, SRD K9 drive, 100" cable
2*	E-Stop mounting housing
3	Push to Reverse assembly Located on center post interior Reference Para. 6.6
4*	Unit, operating, OPL-05, K9 S2/S3/S4
5	Door traffic status LEDs Located on quarter post Reference Para. 5.2
6	Speaker, voice module, located in canopy Reference: Chapter 7
7	Card reader, by others
8*	Assembly, MODE LOCK, 2-position K9, S2/S3 /S4 Para. 5.2
9*	Assembly, , POWER, 2-position K9, S2/S3/S4 Para. 5.1.2

* Located by installer at SRD installation.

5.1.2 POWER ON/OFF switch.

The Power On/Off switch controls the main line power to the door's K9 drive and the bookfold lock controller.
Switch OFF:
1) The door will not operate , the rotation of the center shaft will be limited by the K9 drive lock bolts.
2) The bookfold lock will be disengaged, allowing the door panels to be folded. To secure the entrance, manual wing locks (if available) should be engaged.
Switch ON:
1) The door will function in the mode set by the operator on the OPL-05 (4).
2) The bookfold lock will be engaged, restricting the manual folding of the door panels.

Fig. 5.1.1 S2/S3/S4 door assembly user interfaces



5.2 OPL-05 Mode Keypad – Modes Of Operation

Fig. 5.2.1 OPL-05 Mode keypad

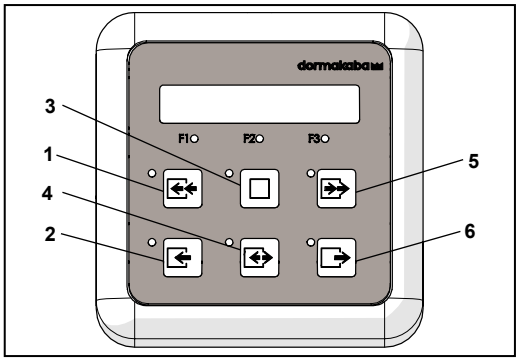
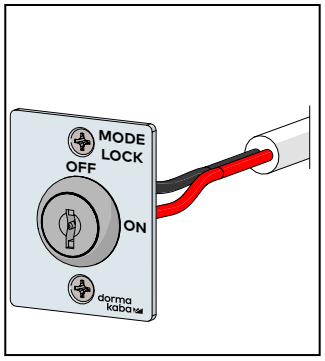


Fig. 5.2.2 MODE LOCK key switch



5.2.1 MODE LOCK key switch operation.

OFF
No change in OPL mode setting can be made.
Remove key to ensure that no mode setting changes can be made.

Key inserted, switch turned to ON.
Changes in OPL mode setting can be made.

Table 5.2.1 OPL-05 modes of operation

	Symbol	Description	
5		Continuous release exit	Persons can pass in the exit direction without authentication / card read.
6		Single release exit	Persons required to present a credential for each exit.
3		Block	Wings rotate to home position and block. K9 locking bolts engage. Block removed with a Continuous or Single Release command.
4		General release	The drive is in the home position. The door wings can be moved freely. Cleaning and manual locking is possible. Function can be overridden with Block.
1		Continuous release entry	Persons can pass in the entry direction without authentication / card read.
2		Single release entry	Persons required to present a credential for each entry.

5.2.2 Door traffic status LEDs.

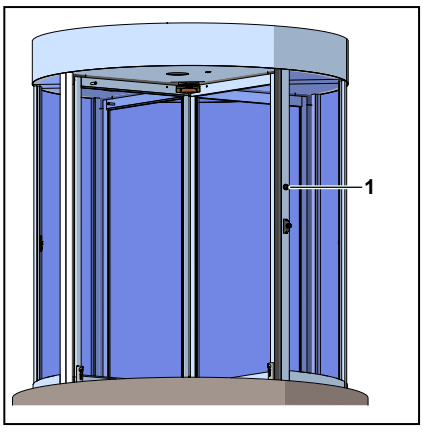
1. Illuminated green:
   passage enabled



2. Illuminated red:
   passage restricted

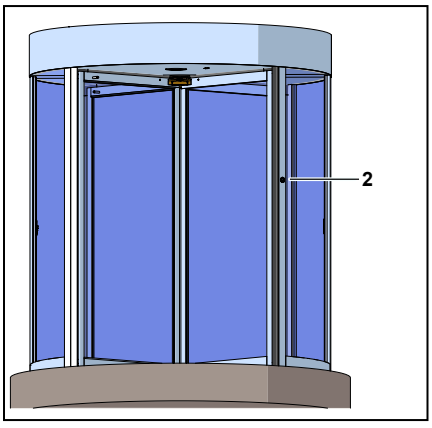


Fig. 5.2.3 Interior door traffic status LEDs



1 Interior door traffic status LEDs

Fig. 5.2.4 Exterior door traffic status LEDs



2 Exterior door traffic status LEDs

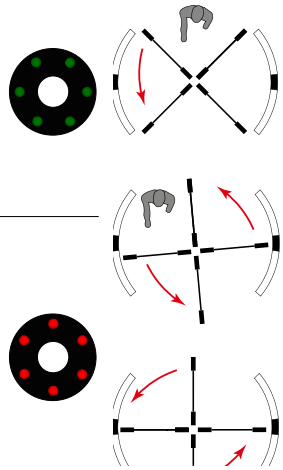
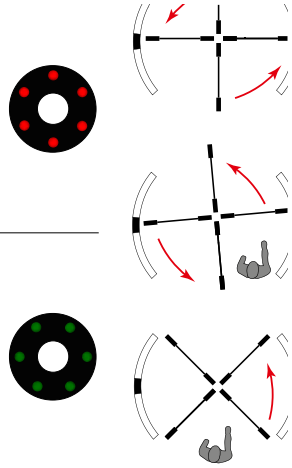
5.2.1 Single Release Entry/Exit

5.2.1.1 Single release entry/exit.

1. Single release entry: applies to passage from outside to inside of the building.
2. Single release exit: applies to passage from inside to outside of the building.
3. Activation: A person requests a single release via:

- Card reader
- OPL
- Release button

Table 5.2.1.1 Single release Entry/Exit

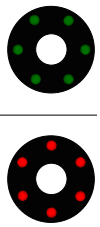
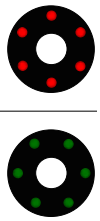
Symbol	Description	Door traffic LEDs	Diagram	Description
	Single release entry • Outside of building to inside	Exterior (Green) Interior (Red)		• Persons required to present a credential for each entry.
	Single release exit • Inside of building to outside	Exterior (Red) Interior (Green)		• Persons required to present a credential for each exit.

5.2.2 Continuous Release Entry/Exit

5.2.2.1 Continuous release entry/exit.

1. Activation:by OPL.

Table 5.2.2.1 Continuous release entry/exit

Symbol	Description	Door traffic LEDs	Diagram	Description
	Continuous release entry • Outside of building to inside	Exterior (Green) Interior (Red)		• Persons can pass in the entry direction with authentication/card read.
	Continuous release exit • Inside of building to outside	Exterior (Red) Interior (Green)		• Persons can pass in the exit direction with authentication/card read.

5.2.3 Unlock

5.2.3.1 Unlock

1. Activation by OPL.

Table 5.2.3.1 Unlock

Symbol	Description	Door traffic LEDs	Diagram	Description
	Unlock	(Green)		Unlocks only if door is not blocked. • The drive switches off. • Door wings can be freely rotated, e.g. for cleaning purposes or manual locking of the door wings.

5.2.4 Block

5.2.4.1 Block

1. Activation:by OPL.

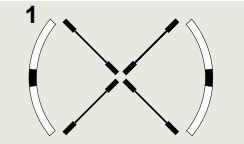
Table 5.2.4.1 Block

Symbol	Description	Door traffic LEDs	Diagram	Description
	Block	(Red)		• Wings rotate to home position and block. • K9 locking bolts engage. • Block removed with a Continuous or Single Release command..

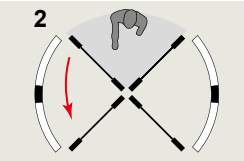
6 S2/S3/S4 Security Door Operation

6.1 S2/S3/S4 Security Door Operation, Standard Passage

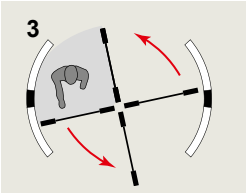
6.1.1 S2/S3/S4 security – standard passage.



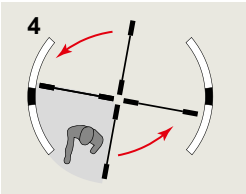
1. Door shall be normally locked in the "X" position
- Door traffic LEDs illuminated red.



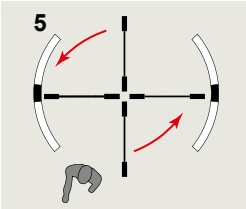
2. Upon receipt of a valid signal from the card reader:
- Door traffic LED illuminates green.



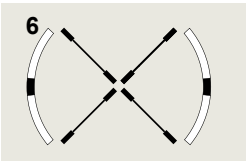
3. When the entry point sensor detects a user while the door indicator is green, the door will start rotating forward (CCW), or continue rotating if it is already in motion from previous cycle.
- The overhead presence sensor detects the person. The controller identifies the validity of the access and allows door to continue the cycle.



4. Person exits the door.



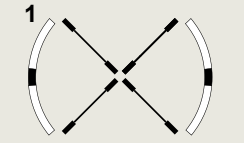
5. Door rotation speed slows down as it nears completion of its cycle and approaches the "X" position.



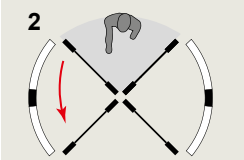
6. At the end of the cycle, the door stops and securely locks at the next ("X") position.
- Door traffic LEDs illuminate red.

6.2 S2/S3/S4 Security Door Operation, Unauthorized Entry In Opposite Direction

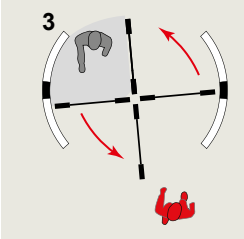
6.2.1 S2/S3/S4 security – unauthorized access in the opposite direction.



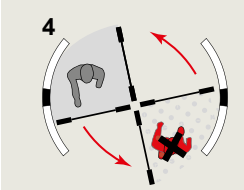
1. Door shall be normally locked in the "X" position.
- Door traffic LEDs illuminated red.



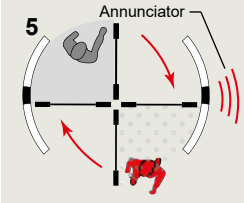
2. Upon receipt of a valid signal from the card reader
- Door traffic LED will illuminate green.



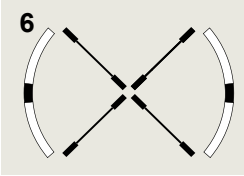
3. When the entry point sensor detects a user while the door traffic LED is green, the door will start rotating forward (CCW), or continue rotating if it is already in motion from previous cycle.



4. Attempted passage through an unauthorized area from the other side of the door without presenting a valid card signal will result in the door being stopped by the drive.



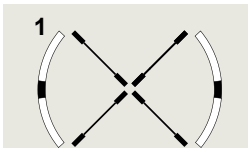
5. The annunciator will inform the user of an unauthorized person and that the door will reverse.
- The door then reverses to the closest ("X") position and stops rotating. Both pedestrians step out of the door.



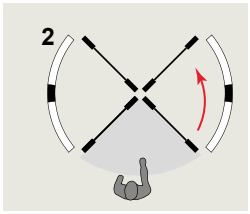
6. When the presence of the unauthorized person at the entrance is no longer detected (Step 4), the door will resume rotating in the forward direction and will securely lock at the next "X" position.
- Door traffic LEDs illuminated red.

6.3 S2/S3/S4 Security Door Operation, Unauthorized Entry In Next Compartment

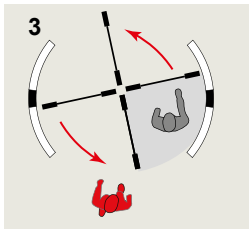
6.3.1 S2/S3/S4 security – unauthorized access in the next compartment (anti-tailgating).



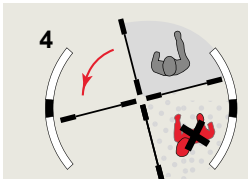
1. Door shall be normally locked in the "X" position.
- Door traffic LEDs illuminated red.



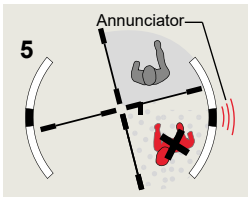
2. Upon receipt of a valid signal from the card reader:
- Door traffic LED will illuminate green.



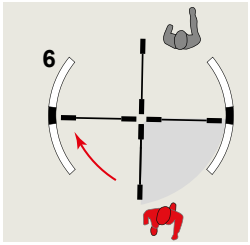
3. When the entry point sensor detects a user while the door traffic LED is green, the door will start rotating forward (CCW), or continue rotating if it is already in motion from previous cycle.



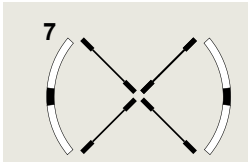
4. Intruder enters next available compartment.



5. Entry point and presence sensors detect intruder's presence.
- The door stops.
- The annunciator will inform the user of an unauthorized person and that the door will reverse.



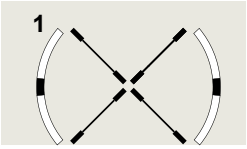
6. The door then reverses to the closest ("X") position and stops, allowing the user to complete the authorized entry and the unauthorized person to clear the secured area.



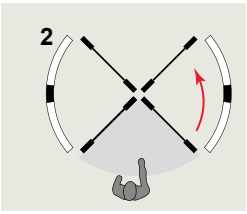
7. When the presence of the unauthorized person at the entrance is no longer detected, the door will resume rotating in the forward direction and will securely lock at the next "X" position.
- Door traffic LEDs illuminated red.

6.4 S3 Security Door Operation, Anti-piggybacking – Entry direction

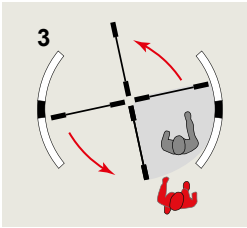
6.4.1 S3 security – Anti-piggybacking - Entry direction. Also includes anti-tailgating.



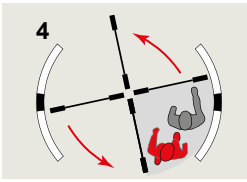
1. Door shall be normally locked in the "X" position.
- Door traffic LEDs illuminated red.



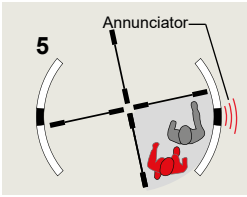
2. Upon receipt of a valid signal from the card reader:
- Door traffic LED will illuminate green.



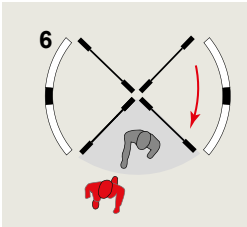
3. When the entry point sensor detects a user while the door traffic LED is green, the door will start rotating forward (CCW), or continue rotating if it is already in motion from previous cycle.



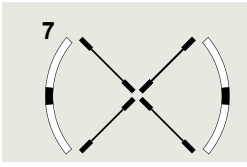
4. Intruder follows in same compartment.



5. Security sensor detects intruder's presence.
- The door stops.
- The annunciator will inform the user of an unauthorized person and that the door will reverse.



6. The door then reverses to the closest ("X") position and stops, allowing both occupants to clear the compartment.

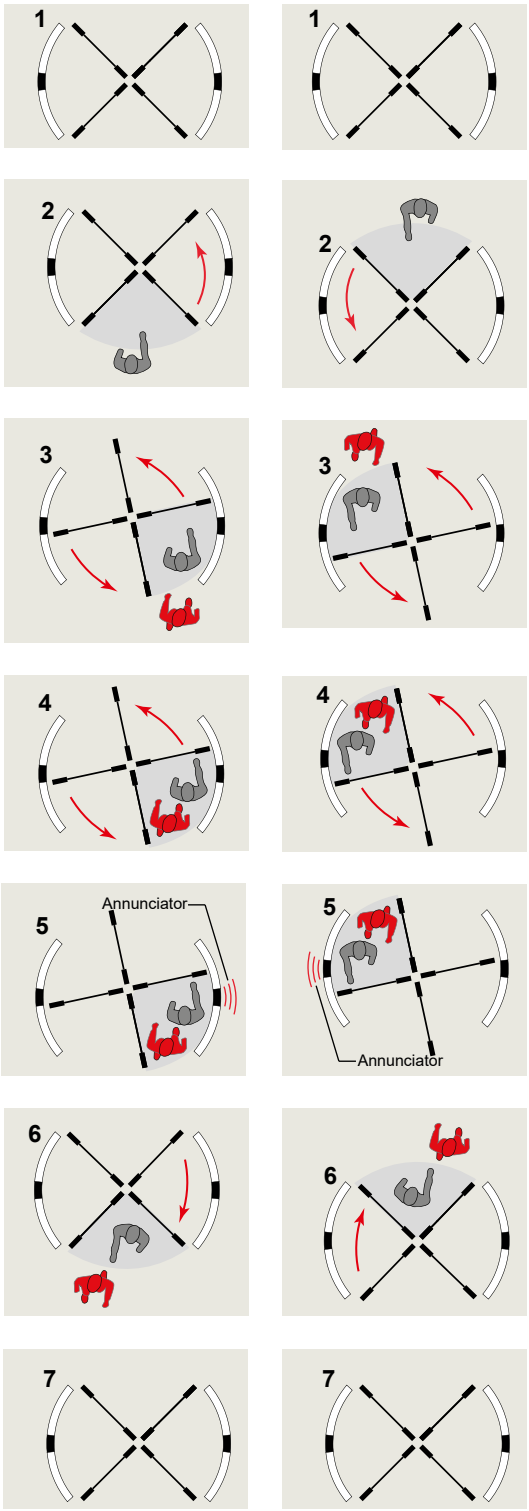


7. When the presence of the unauthorized person at the entrance is no longer detected, the door will resume rotating in the forward direction and will securely lock at the next "X" position.
- Door traffic LEDs illuminate red.

6.5 S4 Security Door Operation, Anti-piggybacking – Entry and Exit directions

6.5.1 S4 security – Anti-piggybacking - Entry and exit directions. Also includes anti-tailgating.

S3 & S4 Door entry **S4 Door exit**



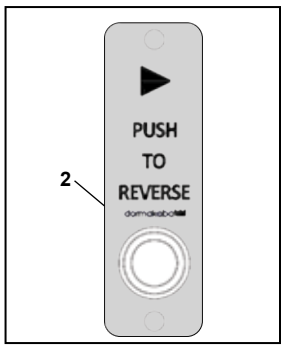
1. Door shall be normally locked in the "X" position.
   - Door traffic LEDs illuminated red.
2. Upon receipt of a valid signal from the card reader:
   - Door traffic LED will illuminate green.
3. When the entry point sensor detects a user while the door indicator is green, the door will start rotating forward (CCW), or continue rotating if it is already in motion from previous cycle.
4. Intruder follows in same compartment.
5. Security sensor detects intruder's presence.
   - The door stops.
   - The annunciator will inform the user of an unauthorized person and that the door will reverse.
6. The door then reverses to the closest ("X") position and stops, allowing both occupants to clear the compartment.
7. When the presence of the unauthorized person at the entrance is no longer detected, the door will resume rotating in the forward direction and will securely lock at the next "X" position.
   - Door traffic LEDs illuminate red.

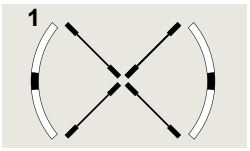
6.6 S2/S3/S4 Security Door Operation, Push To Reverse Buttons

6.6.1 S2/S3/S4 security – Push to Reverse button operation.

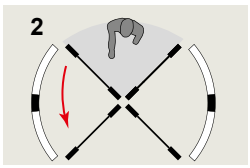
A Push to Reverse button is located on the interior side of each center post.

Fig. 6.6.1 Push to Reverse

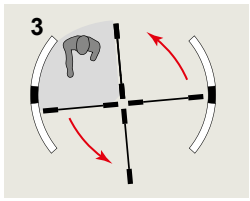




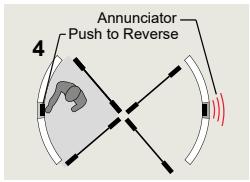
1. Door shall be normally locked in the "X" position.
- Door traffic LEDs lluminated red.



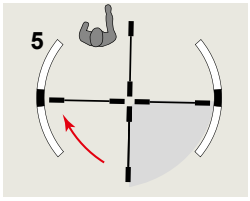
2. Upon receipt of a valid signal from the card reader:
- Door traffic LED will illuminate green.



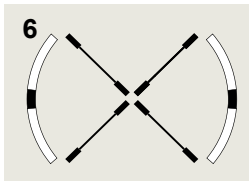
3. When the entry point sensor detects a user while the door traffic LED is green, the door will start rotating forward (CCW), or continue rotating if it is already in motion from previous cycle.



4. User presses Push to Reverse button:
- Door stops.
- The annunciator will inform the user that the door will reverse.



5. The door then reverses to the closest ("X") position and stops rotating. User steps out of the door.



6. When the user has exited the revolving door (Step 5), the door will resume rotating in the reverse direction and will securely lock at the next "X" position.
- The controller will not accept new requests to pass while the door is rotating in the reverse direction.
- Door traffic LEDs illuminated red.

Fig. 6.6.2 S2/S3/S4 security door Push to Reverse buttons

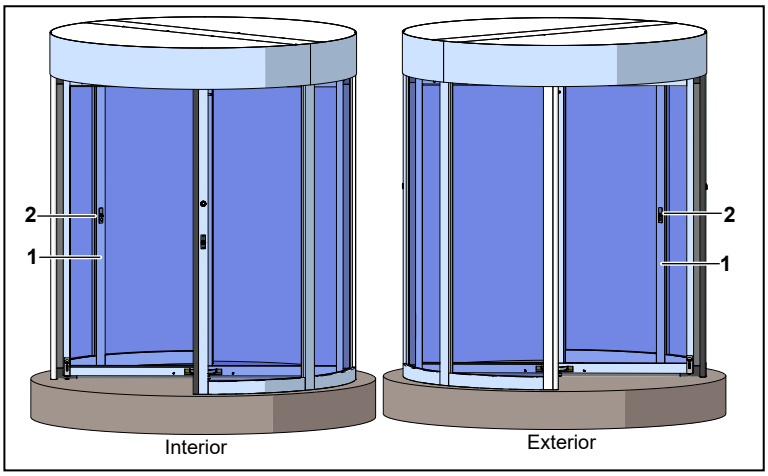


Table 6.6.1 Push to Reverse switch plate

1	Center post
2	Push to Reverse switch assembly Location: Center post interior

7 Security Door Assembly Examples

7.1 S2/S3/S4 Security Door Assemblies

Fig. 7.1.1 Four wing security revolving door assembly BR

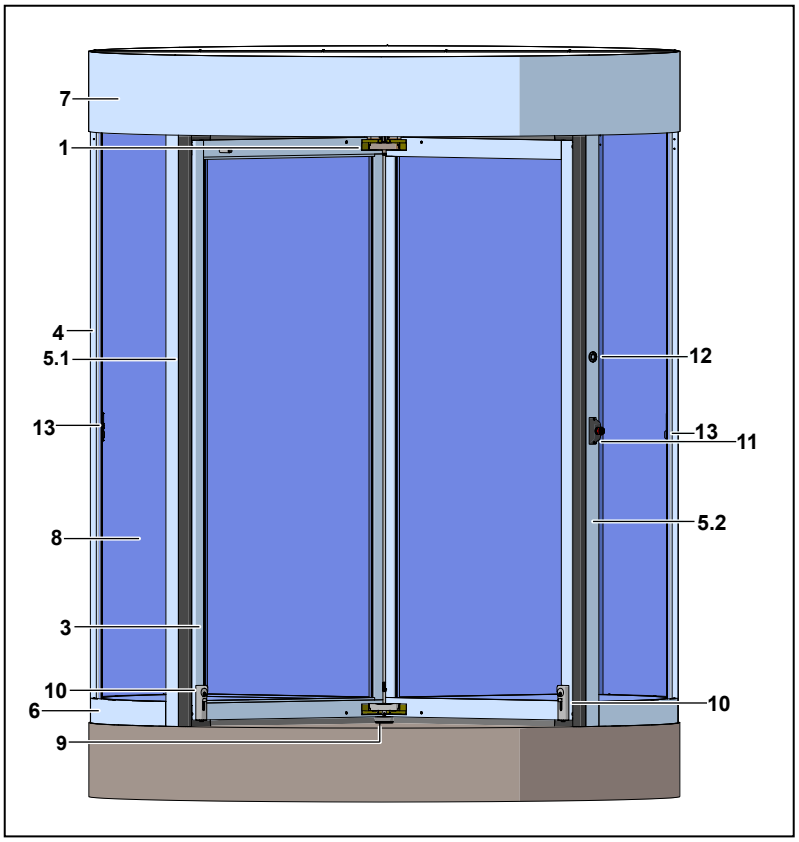


Table 7.1.1 S2/S3/S4 ecurity door assembly

1	Shaft with bookfold lock assembly
3	Wing assembly
4	Enclosure center post
5.1	Quarter post / bumper assembly no sensor
5.2	Quarter post / bumper assembly with sensor
6	Bottom rail and cover assembly
7	Canopy assembly
8	Enclosure glass
9	Bearing assembly
10	Surface lock assembly
11	Emergency stop
12	Door traffic light
13	Push to Reverse switch assembly

Fig. 7.1.2 Wing assembly BR

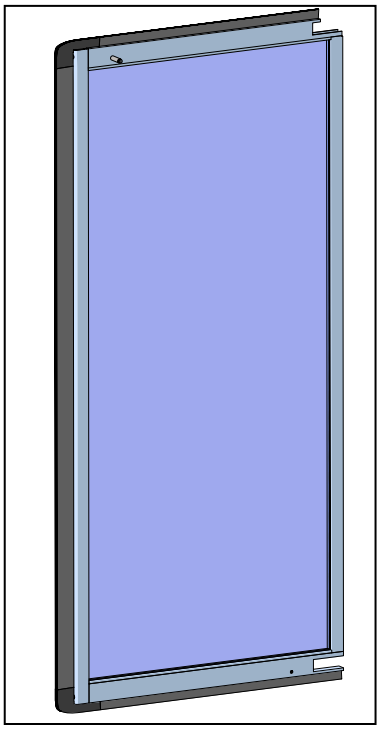


Fig. 7.1.3 Enclosure glass BR

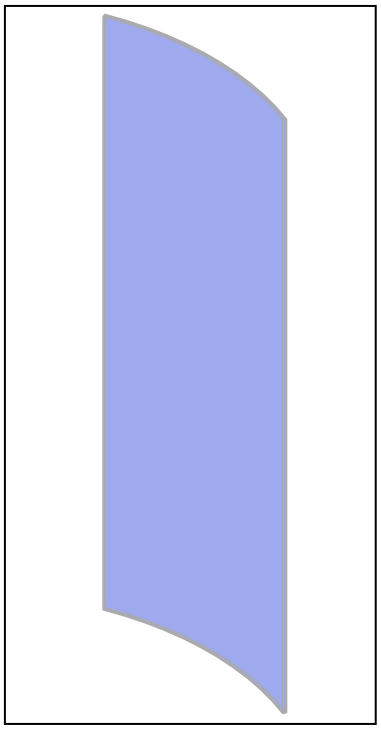


Fig. 7.1.4 Shaft assembly, quarter post / bumper assembly and center post BR

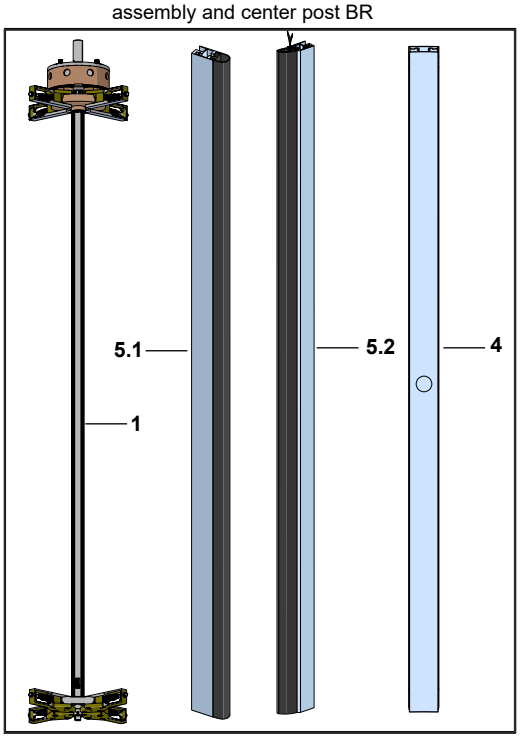


Fig. 7.1.5 Bottom rail and cover assembly BR

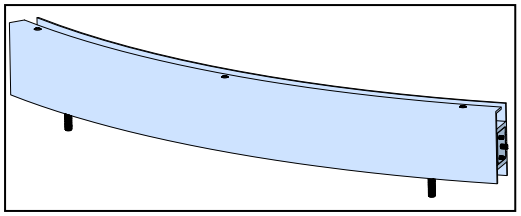


Table 7.1.2 S3/S4 security door and canopy assembly

4	Starting sensor, outside, TOFniva
5	Presence sensor, outside, Intenta
6.1	Presence sensor, inside, TOFniva
6.2	Presence sensor, inside, Intenta (Option)
7	Starting sensor inside, TOFniva
8	Voice module speaker
	LED lights (option)

Fig. 7.1.6 S3 BR security canopy soffit view, One Intenta sensor, outside

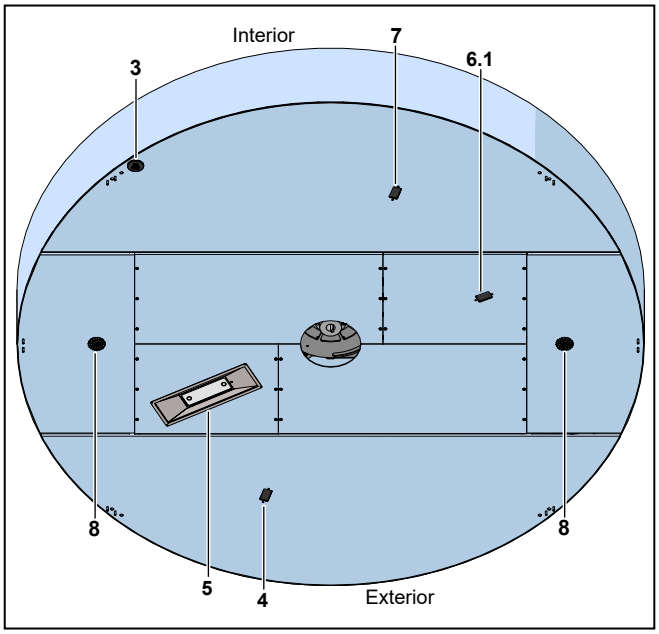


Fig. 7.1.7 S4 BR security canopy soffit view, Two Intenta sensors, outside and inside (option)

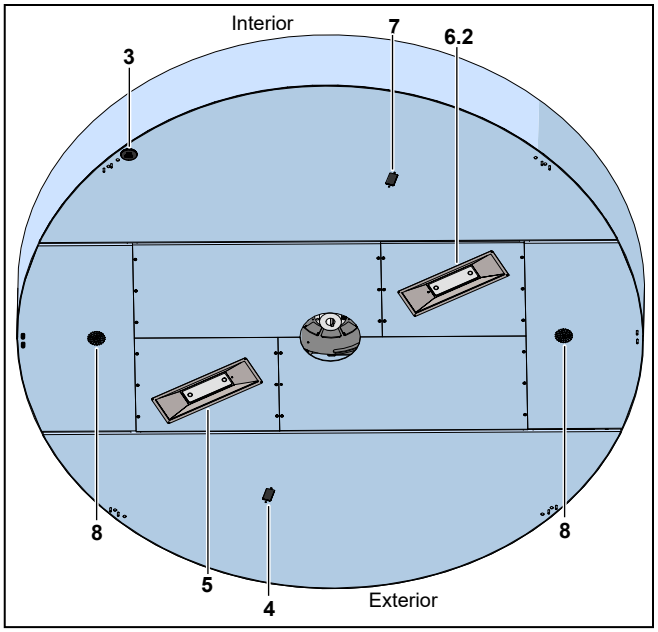


Fig. 7.1.8 S3 BR security door, one Intenta sensor, ingress

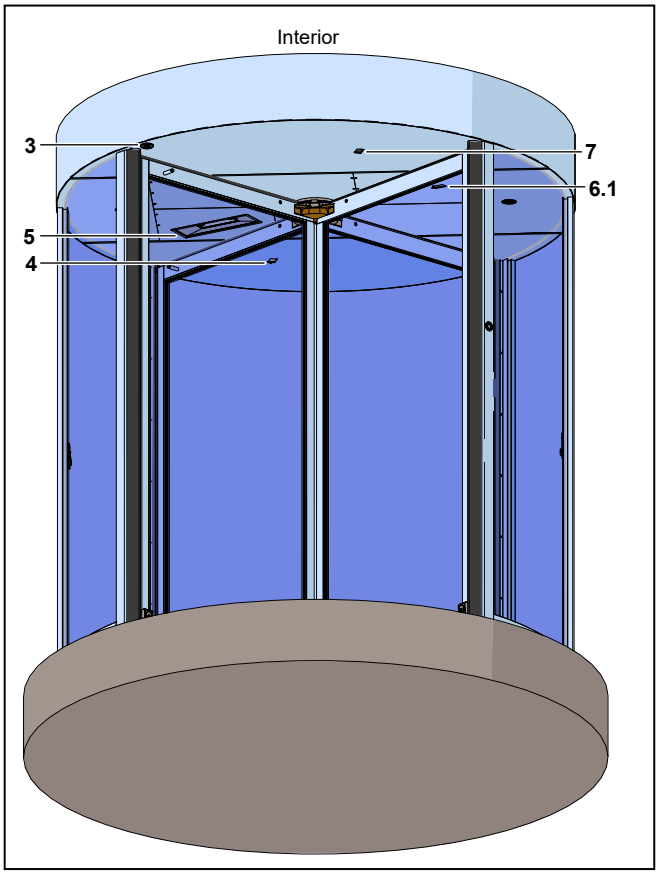


Fig. 7.1.9 S4 BR security door, two Intenta sensors, ingress and egress (option)

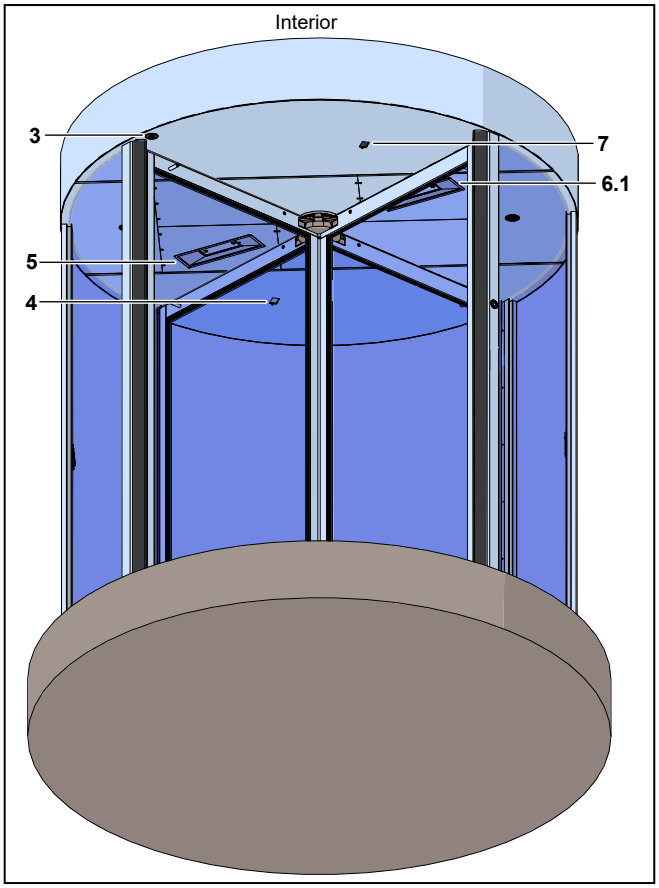


Table 7.1.3 S2 BR security door and canopy assembly

3	Dual USB port for K9 sc2 and ac2 circuit boards
4	Starting sensor, outside, TOFniva
5	Presence sensor, outside, TOFniva
6	Presence sensor, inside, TOFniva
7	Starting sensor, inside, TOFniva
8	Voice module speaker
9	LED light (option)

Fig. 7.1.10 S2 BR security canopy soffit view

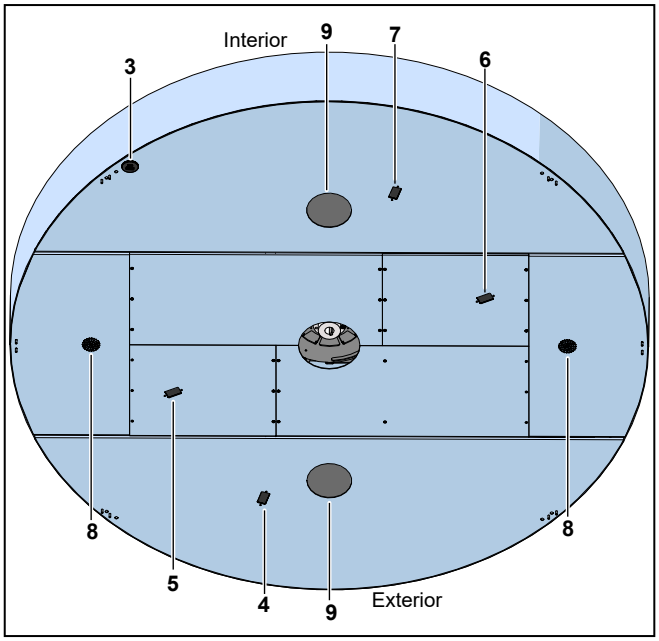
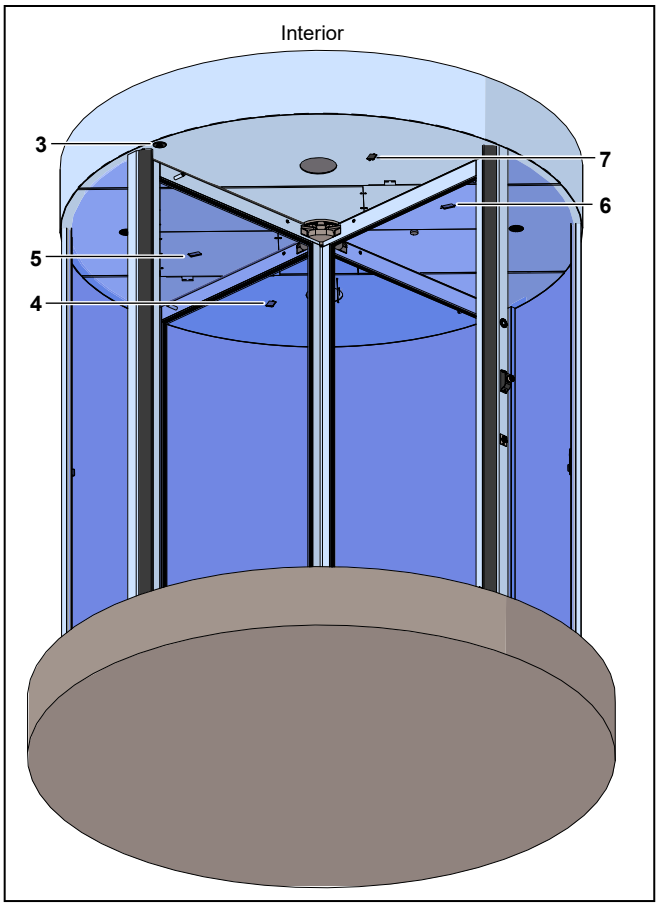


Fig. 7.1.11 S2 BR security door canopy sensors



7.2 Full wing assembly BR

Fig. 7.2.1 Full wing assembly

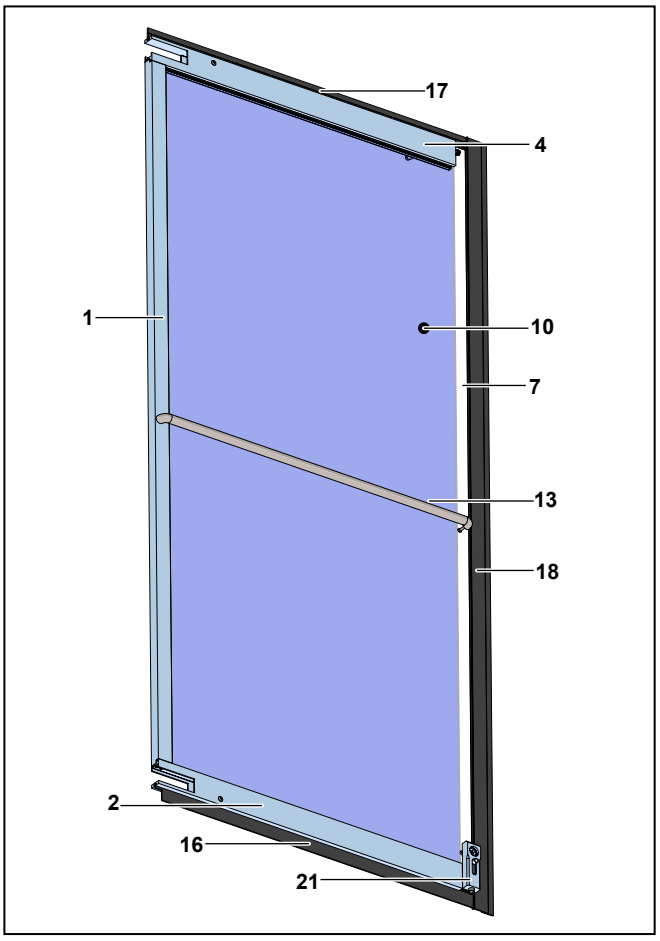


Table 7.2.1 Full wing assembly

1	Center wing extrusion
2	Bottom wing extrusion
4	Top wing extrusion
7	Outer wing lock extrusion
10	Wing glass
13	Push bar extrusion
16	Bottom sweep, T-style
17	Top sweep, T-style
18	Sweep assembly, vertical, T-style
21	Lock assembly, interior wings

7.3 Shaft (BR) And Bookfold Lock Assembly

7.3.1 Bookfold Lock Overview.

1. Bookfold lock is normally engaged, inceasing the force to bookfold wings.

2. Bookfold lock is released when:

- Fire alarm is present.
- Emergency stop pushbutton activated.
- Power is off.

Fig. 7.3.1 Shaft assembly with bookfold lock

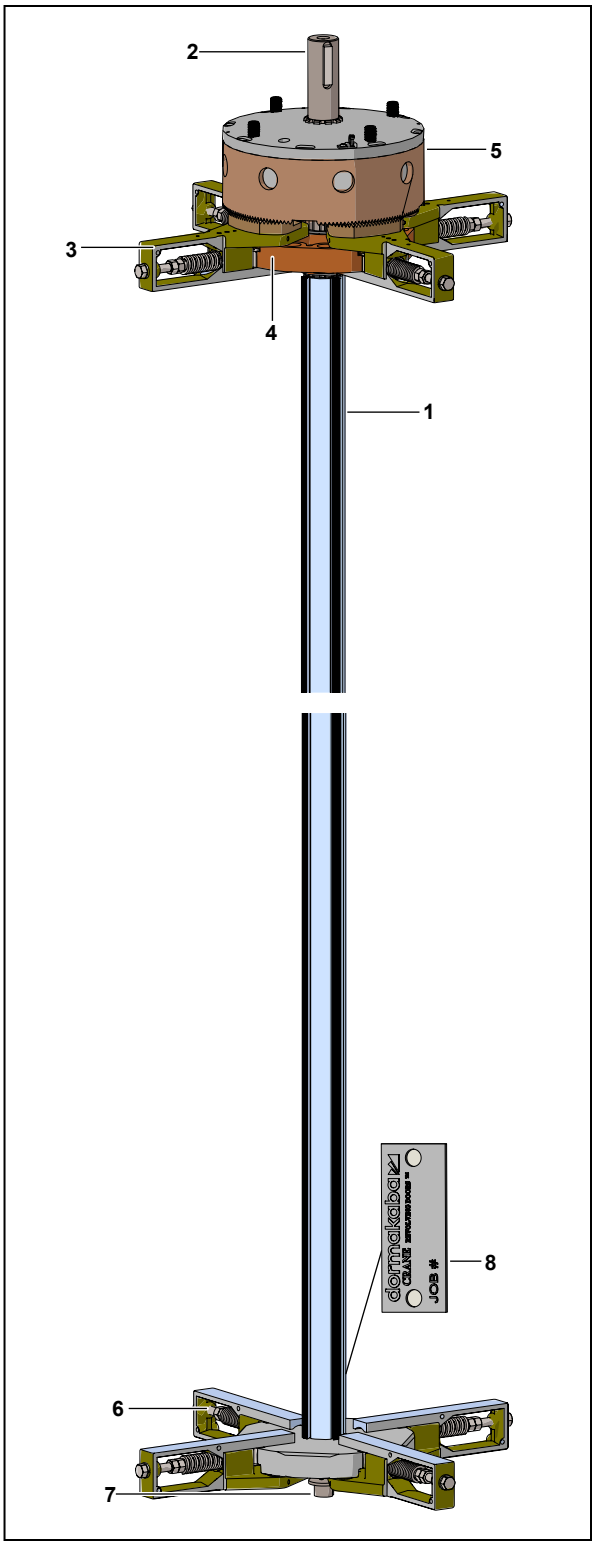
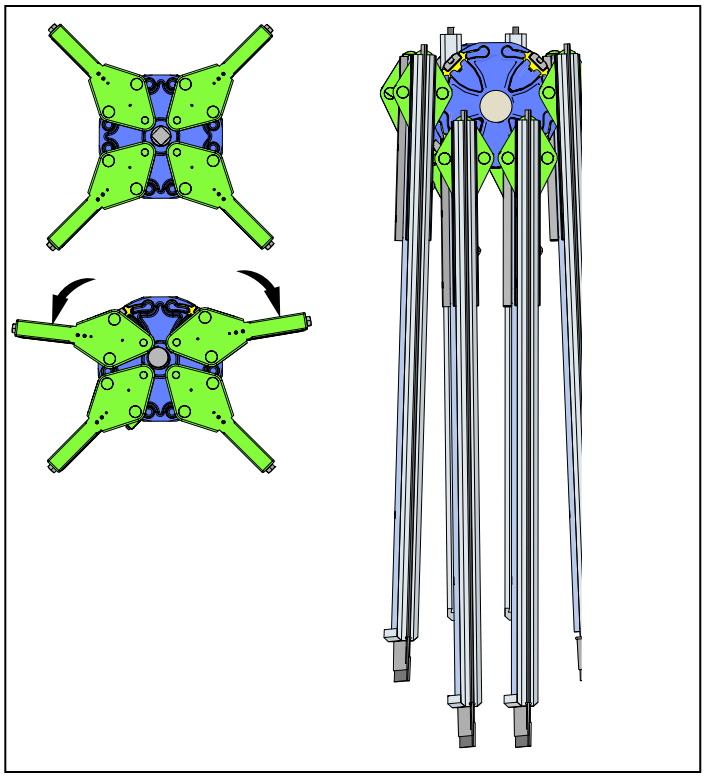


Table 7.3.1 Shaft with bookfold lock assembly

1	Shaft assembly
2	Splined shaft
3	Top hanger assembly with AB hanger for bookfold lock
4	Shaft disc assembly, 4 wing
5	Bookfold lock assembly
6	Bottom hanger assembly
7	Bottom plug
8	Nameplate/job number tag

Fig. 7.3.2 Wings in bookfold position



8 Maintenance

8.1 SRD With Floor Locks And Strikes And Floor Maintenance

Fig. 8.1.1 4 wing revolving door with surface locks and floor strikes

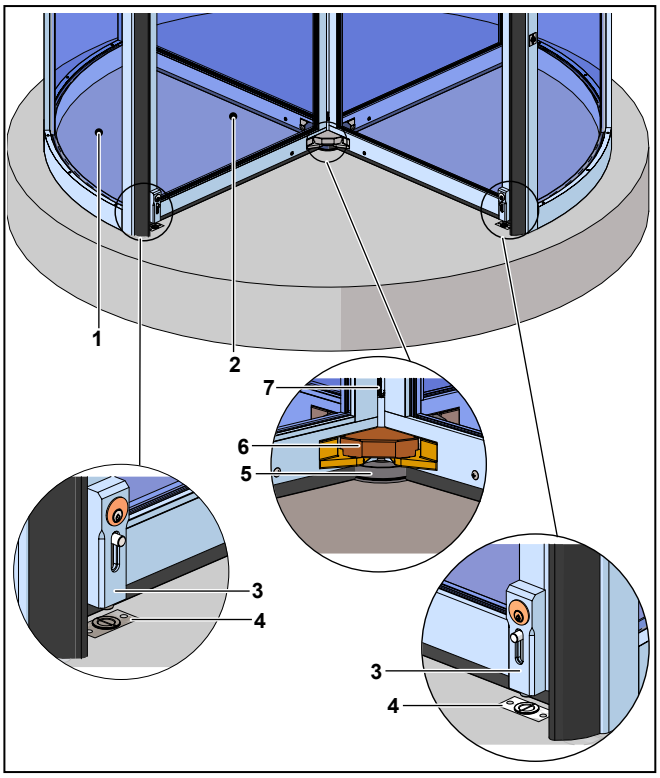


Table 8.1.1 4 wing revolving door maintenance items

1	Door enclosure glass
2	Door wing glass
3	Lock assembly (Lock cylinder by others)
4	Floor strike
5	Floor surface bearing
6	Shaft assembly
7	Nameplate/job number tag

8.1.1 Floor maintenance.

1. Keep floor surface clean and free of dirt and debris.
2. Keep surface area at bearing, shaft assembly and floor area free of dirt and debris.

8.1.2 Mechanical surface locks and floor strikes.

1. Keep surface lock assemblies and floor strikes free of dirt and debris.
2. Check operation of surface locks.

8.1.3 Door glass maintenance.

1. Keep all glass surfaces clean.

- Clean glass surfaces with commercially available glass cleaners.

8.2 SRD With Top Wing Locks And Floor Maintenance

Fig. 8.2.1 4 wing revolving door with top wing locks

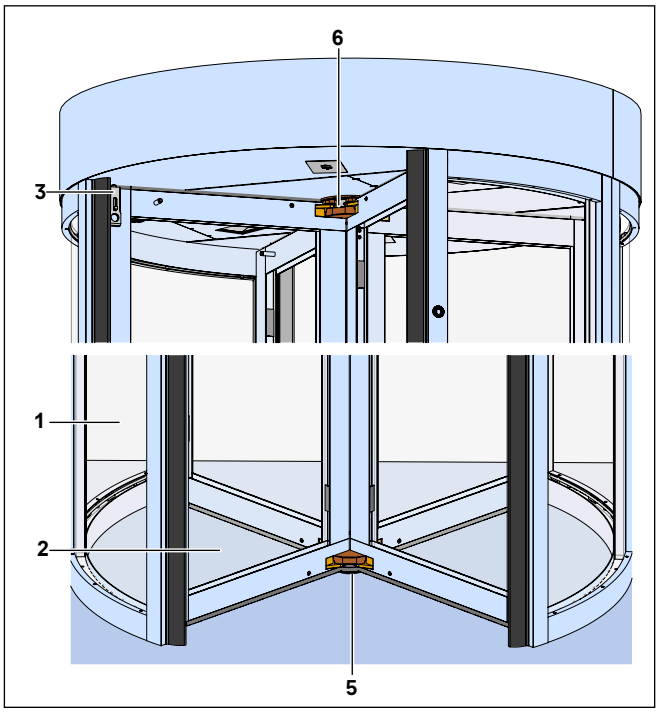


Table 8.2.1 4 wing revolving door maintenance items

1	Door enclosure glass
2	Door wing glass
3	Lock assembly (Lock cylinder by others)
5	Floor surface bearing
6	Shaft assembly
7	Nameplate/job number tag (Fig. 8.1.1)

8.2.1 Floor maintenance.

1. Keep floor surface clean and free of dirt and debris.
2. Keep surface area at bearing, shaft assembly and floor area free of dirt and debris.

8.2.2 Mechanical wing locks.

1. Keep wing lock assemblies free of dirt and debris.
2. Check operation of wing lock bolts into canopy holes.

8.2.3 Door glass maintenance.

1. Keep all glass surfaces clean.

- Clean glass surfaces with commercially available glass cleaners.

8.2 Weathersweeps

Fig. 8.2.1 T-style weathersweep

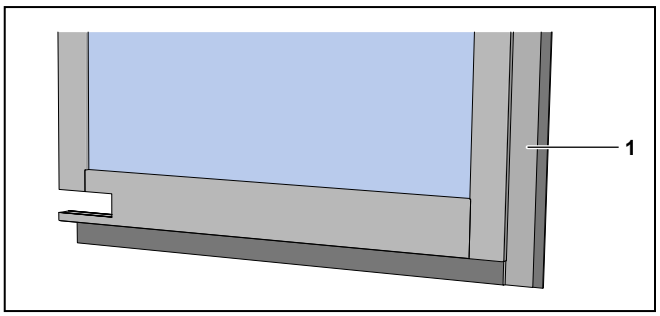


Fig. 8.2.2 Horsehair weathersweep

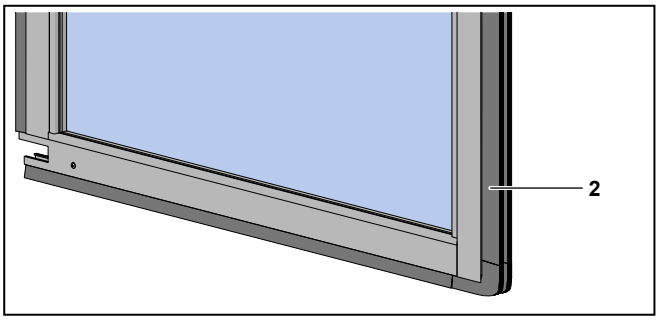


Table 8.2.1 Weathersweeps

1	T-style weathersweep
2	Horsehair weathersweep

8.2.1 Weathersweep maintenance.

NOTICE

Reducing or trimming the size of the bottom sweep makes the sweep more rigid and voids all warranties.

1. Inspect condition of sweeps.

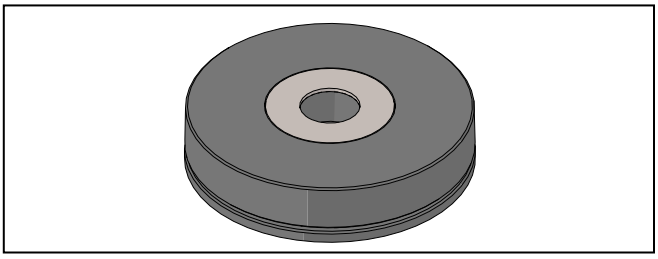
- Recondition horsehair sweeps if possible using conditioner.

2. Replace weathersweeps as required.

- Contact Alvarado for replacement weathersweeps.

8.3 Shaft Assembly Floor Bearing

Fig. 8.3.1 Surface mounted bearing



8.3.1 Bearing maintenance.

1. Keep bearing surface and area around bearing free of dirt and debris.

8.4 Cleaning surfaces

8.4.1 Aluminum

1. Dust and grime can be removed by regular cleaning.
- Use a mild, non-abrasive soap or cleaning solution and water.
- After cleaning, surfaces should be wiped dry with a clean absorbent material.

2. Tar and built-up dirt can be removed with solvent cleaners such as turpentine if followed by a soap and water cleaning and fresh water rinse.

NOTICE

Avoid acid or alkali cleaners; they may attack the anodized finish.

- After cleaning, surfaces should be wiped dry with a clean absorbent material.

8.4.2 #4 stainless steel.

1. For routine cleaning, use soap, ammonia, or detergent and water.
- Always working in the direction of the grain, rub with a sponge or rag.
- Rinse with water, wipe dry.

2. Stubborn dirt or grime can be removed with a quality commercial stainless steel cleaner.

8.4.3 Mirror finish stainless steel.

NOTICE

Mirror finishes require very special care. Abrasive cleaners and cloths should never be used.

1. Use only mild soap and water or glass cleaner.
- After cleaning, surfaces should be wiped dry with a clean absorbent material.

8.4.4 Bronze

NOTICE

To insure proper maintenance, consult a professional bronze finisher and establish a regular metal cleaning program.

1. Bronze finishes are protected during shipping and installation by a shop coat of lacquer.

NOTICE

Lacquer can be damaged by ammonia in window cleaners, or by acids from masonry cleaners. Protect doors from these cleaners.

NOTICE

Doors must be inspected and worked after installation by a qualified bronze finisher.

8.4.5 Painted finishes.

1. Any mild non-abrasive soap or mild solvent can be used for cleaning.

NOTICE

Strong solvents may dissolve paint. Test any solvent first.

2. Wax can be used to protect the finish.

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