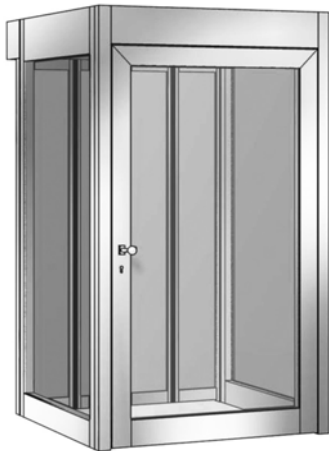


# SAS System

## Company

**ASPEKT System Integration d.o.o.** has developed very sophisticated SAS – Security Airlock System, very often known as “mantrap”, or interlocking system normally used for environmental or safety control.



Our own production

## TYPICAL APPLICATIONS INCLUDE:

Banks, Hospitals, processing industry, food industry, government facilities, Darkrooms, Laboratories, rooms, x-ray or other treatment rooms, airports and more.

## SYSTEM ENGINEERING SERVICE

Complete access control system design services are available through ASPEKT System Integration d.o.o. We will design your system and provide you with a complete System Design Folder with riser diagrams, point-to-point wire diagrams, and detailed method of operation and component inventory for each system.

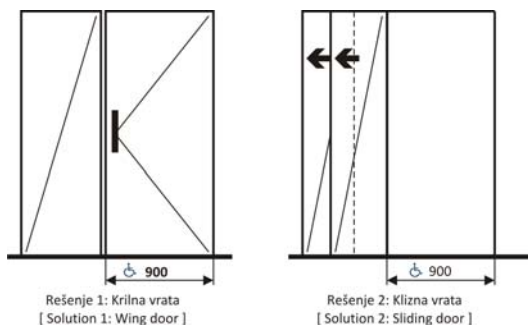
## DOOR TYPE

### WING

Wing door with mechanical (hydraulic) door closer  
Or Wing door with automation (motor)

### SLIDING

Automatic (sliding motor)



Rešenje 1: Krilna vrata  
[ Solution 1: Wing door ]

Rešenje 2: Klizna vrata  
[ Solution 2: Sliding door ]

## IN GENERAL

Doors equipped with our SAS system provide several functioning modes:

- Automatic mode
- Semi automatic mode and
- Manual mode

Mode according to Customer special requests is always a challenge for our Access Control System Engineering Department.

Our SAS Cabin is fully automated, with LED lights, pedestrian traffic lights, automatic voice (instructions) messages which follow events, presence detectors, moving direction detectors, people counter, etc. More in technical specification section.

Detailed technical specification is published at:

[www.aspekt.rs](http://www.aspekt.rs)



## LOCKS

As standard we provide mechanical locks and magnetic locks, as well. On request available are electrical strikes, “death bolt”, etc

Our system provides high security level during entrance - exit in and out of protected zones. With options of bullet proof glass and aluminum profiles, and integrated to our Metal detector passage system provide final solution with highest security level.

Operation may be applied to several door openings. Additional logic may be specified for exit delay, timed locking, and control by other equipment conditions and communication with additional interlocks, mantraps and access control systems.

## ACCESS CONTROL



Method of Operation  
Afterwards successful authorization (ID card readers, fingerprint reader, or simple triggered open door button by Guard, ... ), first door D1 will be unlocked and opened, certainly it depends of assembled hardware, and one can enter in SAS zone. Door D1, will be automatically closed and locked, if tailgate option is presented persona will be detected. Same procedure of authorization is requested for door D2 as well. Until persona is in SAS zone and if anti-pass back function is activated, system will allow authorized opening of door D2, from inside SAS zone only, certainly there are various panic, fire etc. methods of operations.

Our company is Certified distributor and Installer for [Automatic Systems](#) a subsidiary of the IER Group, as one of the world leaders for automated control equipment for pedestrian and vehicle entrance. We offer excellent choice of revolving doors, fully automated.

## PUBLIC

Method of Operation  
Both doors are normally closed and locked. Opening any door for any reason, in any direction, causes the second door to be locked until the opened door returns to the closed and locked position.



HARDWARE & SOFTWARE	DESCRIPTION AND FUNCTIONALITY	Standard	Option
CABIN	Al-profile, standard, thermo-cut	●	
	Al-profile, class EN 356 (WK2, WK3), or EN 1063-anti-ballistic		☑
	Glass, security class EN 356 (7B), or PxB, or EN 1063-anti ballistic	"pamplex"	PxB
LOCKS	Anodized aluminum, or color, or upon request	Anodized AL	☑
	Mechanical	●	-
LIGHTING	Elektro-magnet, status open/close. or Electric-strike, status	●	-
	LED – ceiling light	●	-
VENTILATION	LED – warning light near the floor	-	☑
	Ventilator	-	☑
DOOR CLOSER	Mechanical - hydraulic	●	-
	Automatic – motor, swing type	-	☑
	Automatic – motor, sliding type	-	☑
COMMAND CONSOL SET UP & MONITORING	Command console, manual – 6 buttons, 6 status indicators	●	-
	Remote control console, or touch screen 3,7"	-	☑
	Command console, software for PC, Ethernet platform	●	☑
AUDIO COMMUNICATION	Interphone	-	☑
	IP Interphone, or Intercom	-	☑
PEDESTRIAN'S SIGNALIZATION	Pedestrian's traffic light, red/green, Push button & HELP butt.	●	-
	HELP push button with cover	●	-
INTERLOCKING MODULE	Instruction door labels	●	-
	Non-Controllable	●	-
	Controllable (PLC)		☑
AUDIO MODULE	Do 4 automatic voice messages, instructions (up to 22)	●	☑
	Available port for connection to central audio system	●	-
	Available port, the Client to change, update messages	-	☑
	Metal detector, for A-direction (entrance)	-	☑
	Light intensity – automatic light ON/OFF	●	-
DETECTORS ( SENSORS )	Door open longer than NN seconds, default 30seconds	●	-
	Person presence in Cabin		☑
	More than one person in Cabin, "piggy back" detection	-	☑
	Moving direction A-entrance, B-exit	●	-
	Non-authorized entry detector, "tailgate" detection	-	☑
	Left baggage detection	-	☑
	People counter	-	☑
COMMUNICATION	Port for signal from Fire alarm panel	●	-
	Port for signal to Security alarm panel	●	-
LOCAL ALARM (help, door open, glass brake, ...)	Alarm siren,	-	☑
	Alarm siren, silent	-	☑
	Silent alarm and warning light locally	●	☑
POWER SUPPLY	12 & 24VDC	●	-
	Battery back-up	-	☑
VIP TIME, ATTENDANCE AND ACCESS CONTROL	Power loss, all locks are de-blocked	●	-
	Contact less RFID card, any format	-	☑
	Fingerprint, or Face reorganization	-	☑
	Mobil phone – virtual Bluetooth number	-	☑
VIDEO SURVEILLANCE	Bar Code No. visible, non-visible (IR)	-	☑
	24h video recording, and snap-shots, both direction A-entrance, B-exit	●	-
OPTION	Face reorganization	-	☑
	Additional third door, fully feature	-	☑
	 900mm +	●	-
 Nominal: 15 personas/min.	●	-	