Machine Protection Door ASSA ABLOY RP300 / RP300 Wide / RP300 USD



Experience a safer and more open world





HIGH SPEED

Rapid opening and closing ensures short cycle time.



HIGH SAFETY

Safety contact edge or touchless safety edge. Safety limit switches according to PLe and SIL3.

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Advantages of the door

Design

- Rapid opening and closing ensures short cycle times up to 5 cycles per minute
- High reliability even after years of high numbers of cycles
- Safety limit switches according to EN ISO 13849-1 and EN 62061
- Doors conform to EN ISO 12100 and EN ISO 14119
- Versions conforming to various factory standards are possible
- Type tested machine protection door with fabric door blade

Side Frames

The side frames are made of aluminum profiles. The front cover side frame can easily be removed and allows easy access for inspection and maintenance.

Windows

For process monitoring when the door is closed, various window variants are available. For all other variants of curtains, optional horizontal or vertical windows are integrated in the door curtain. Also anti-UV windows conform to EN 1598.

Drive Unit

Gear motor with safety gear box including catching device, mounted on the right or left side.

Control System

Depending on the application there are 2 control systems which offer a broad spectrum of speeds, power supplies and options for connecting control and safety devices.

Standard: ACS 50 Option: frequency converter control MCC

Upon request the door can also be delivered without a control system (not Upside Down). Extension box: Space saving extension box for MCC allows mounting of interface card or safety monitoring module for safety limit switches.

Safety Limit Switch integrated in Side Frame

For the indication "door safely closed", safety limit switches are integrated in the side frame. Optional evaluation by safety systems of the machine (version without safety monitoring module). Due to the use of safety limit switches, machine protection doors cannot be equipped with a knockout mechanism.

Model ASSA ABLOY RP300 USD

The new ASSA ABLOY RP300 USD (Upside Down) machine protection door is designed so that you can integrate it into your production area where bigger components and machinery must be arranged vertically.

CE Guidelines

This door is designed according to the regulations of the Workplace Directive of the UVV as well as the harmonized CE Guidelines including the EN 13241-1 and 2006/42/EG.

Safety Features

The bottom profile is monitored by an electrical safety contact edge. As an option, the door can be equipped with a pre-running photocell in combination with the control system MCC (Standard on Upside Down). A door line photocell also prevents the door from closing when objects are interfering.

Integrated Cable Chain

Integrated cable chain guides cables for prerunning photocell or electrical safety contact edge inside the side frame.

Indication of Risk

The security of the door is designed for normal use for vehicles in industrial environments corresponding to the harmonized CE-Guidelines. In addition, special environmental conditions may impact the type of door necessary. For clarification and details, please contact your local sales engineer.

Door Curtain

From partially transparent PVC curtains with colored reinforcement stripes with a high degree of transparency to highly rigid RollTex[®] and NomaTex[®]. All door curtains are silicon-free. Side-mounted wind tabs reduce inward bending of the door blade. RollTex[®] according to TRAV (technical rules for use of anti-fall guard vitrification).

RP300 RP300 wide RP300 USD (Color code according to RAL color card)	PVC with colored fabric reinforcement strips	PVC with colored fabric reinforcement strips silicone-free	RollTex® Plus TRAV**	RollTex® Original TRAV**	NomaTex®
Windows	-	-	•	•	-
Vision panels	-	-	-	-	•
Blue	• 5002	• 5002	√5002	• 5002	• A 5005*
Red		• 3002			• 3000
Orange		• 2011	• 2009	• 2009	• A 2009*
Grey	• 7035	• 7037	• 7001	• 7001	• A 7038
Yellow		• 1021			• 1023
Green	• 6018				
Beige	• 1014				
White	• 9016	• 9010			
Black		• 9005			

RP300 USD only "RollTex® Original" possible ** = TRAV-Certificate only available with RP300

Technical Data ASSA ABLOY RP300 / RP300 Wide / RP300 USD

TECHNICAL DATA	ASSA ABLOY RP300	ASSA ABLOY RP300 Wide	ASSA ABLOY RP300 USD		
Application	Interior door / Machine Protection Door	Interior door / Machine Protection Door	Interior door / Machine Protection Door		
Door dimensions (mm)	Protection Door	Protection Door	Protection Door		
DW min./max.) DH min./max.)	750 / 4000 mm 750 / 3500 mm	750 / 6000 mm 750 / 5000 mm	1000 / 5500 mm 1000 / 3500 mm		
nax. area	14 m ²	30 m ²	14 m ²		
Opening direction	vertical	vertical	vertical		
Vind resistance (EN 12424)	class 1 (max. 11 m ²)	class 1 up to DW \leq 5600 mm			
loise emission	< 70 dB A	<70 dB A	< 70 dB A		
emperature range max.	+10°C-+45°C	+10°C-+45°C	+10°C-+45°C		
Extended on request) ³⁾	(0 up to +60°C)"	(0 up to +60°C)"	(0 up to +60°C)"		
urface material					
ide frame	✓ Anodized aluminum	✓ Anodized aluminum	✓ Anodized aluminum		
op roll cover	Anodized aluminum	Anodized aluminum	✓ Anodized aluminum		
ottom profile	✓ Anodized aluminum	✓ Anodized aluminum	✓ Anodized aluminum		
Notor cover	• Powder coated steel, RAL 9006	• Powder coated steel, RAL 9006	• Powder coated steel, RAL 9006		
xtension side frame	-	_	250 – 500 mm		
- f f			(depending on doortype)		
afety features	✓	✓			
lectrical safety contact edge		√ √			
Door line photocell	✓	v	-		
Pre-running photocell (only in ombination with MCC, Door line hotocell as option)	•	•	\checkmark		
lush bottom profile	•	-	-		
Prop down protection in drive unit	√	✓	-		
re-running photocell ²)	-	-	✓		
mergency egress	Crank handle	Crank handle	Crank handle		
Counterbalance	-	-	Counterbalance		
quipment					
ED traffic light	•	•	•		
raffic light / Flashing alarm light	•	•	•		
uitable machine protection	✓	✓	✓		
Aagnetic switch in side frame	✓ 1 piece / • 2 piece	✓ 1 piece / • 2 piece	✓ 1 piece / • 2 piece		
Vindow in sideframe, view on					
nagnetic switch	•	•	•		
Drive unit					
lotor power	0,75 kW	0,75 kW	0,75 kW		
hain drive	•	•	-		
Gear heating	•	•	•		
Control system	✓ ACS 50 / • MCC	✓ ACS 50 / • MCC	✓ MCC		
ontrol system					
ACC Open/Close max. (m/s) ²⁾	• 2,4 / 1,3 2,4 / 1,75 (pre-running photocell)	• 1,7 / 1,0 1 7 / 1 1 (pre running photocell)	✓ 2,2 / 1,5		
CS 50 Open/Close max. (m/s) ²⁾	✓ 1,0 / 1,0	✓ 0,8 / 0,8	-		
Cycles per minute max. exact number of cycles depending on	ACS 50 = 1 MCC = 3 up to 5^*	ACS 50 = 1 MCC = 1 up to $1,5^*$	MCC=5*		
pplication eparate display / control	only at MCC	only at MCC	only at MCC		
use protection by site	10 A (C-characteristic) (at 220/230V 16 A)	10 A (C-characteristic) (at 220/230V 16 A)	10 A (C-characteristic) (at 220/230V 16 A)		
Control voltage	24 V DC	24 V DC	24 V DC		
rotection	IP 55	IP 55	IP 55		
otential-free contacts	•	•	•		
IL-Version 🔊	• ACS50	• ACS50	• MCC		
	• MCC	• MCC			
letwork connection	Standard: 31/(NI)PE/220/2	230/380/200/215// 5042			
NCS 50	Standard: 3L/(N)PE/220/230/380/400/415V; 50Hz				
	UL-Version: 3L/(N)PE/208/220/230/460/480V; 60Hz – Standard: 3L/(N)PE/380/400/415/440/460/480V;50/60Hz				
ИСС	with transformer: 3L/(N)PE/220/230/500V;50Hz UL-Version: 3L/(N)PE/208/220/230/460/480V; 60Hz				
Option Standard	 For doors of height < 2300 mm the use of top roll cover is required according to standard EN 13241 Deviations possible depending on other properties 				



Floor mounting brackets The door can be mounted freestanding on floor with optional mounting brackets. Levelling screws allow adjustment by uneven floor.



Bottom profile Optional: Edgeless bottom profile is flush to curtain.



Motor position Motor can be mounted right- or lefthand side. Motor position can be chosen in step of 45°. A chain drive is available as option in case of space limitations.

*) Specific number of cycles on request

3) Depending on cycles/minute, door size and installation location



The demands in automated manufacturing processes are high and the smallest interruption or delay can break down the flow of production or endanger employees. Machine protection doors help manufacturers avoid both scenarios. The doors are integrated into the processes and open and close according the production run. They enable the rapid change from complete isolation of the production step to free access to work piece and machine within seconds. It allows short cycle times and can be installed in machines, on production lines and railing systems within close proximity to the machine. Plus, they protect people in highly automated areas, making processes much safer.

Advantages of the ASSA ABLOY RP300/RP300 Wide/RP300 USD

- Service friendly: Two-pieced aluminum side frames offer easy access for inspection and maintenance
- Pre-running photocell: in combination with control system ASSA ABLOY MCC a pre-running photocell is available as option. It provides more comfort and higher closing speed
- Integrated cable chain: The cables of the electrical safety contact edge and pre-running photocell are guided in cable chains inside the side frame
- Pluggable cables in the cable chain
- Drive unit: A chain drive is available as option in case of space limitations

Connection with the machine

The in- and outputs of the door control unit MCC (potential 24 V DC) can be connected directly, to the machine. The in- and outputs of the door control unit MCC and ACS 50 can be connected potentialfree with the machine. As standard the following signals are available:

- 2 potential-free safety contacts, when the door is closed (safety limit switch)
- 1 output or potential-free signal, when the door is open
- 1 output or potential-free signal when the door is closed
- 1 output or potential-free signal for faults

Example of use: door in assembly line

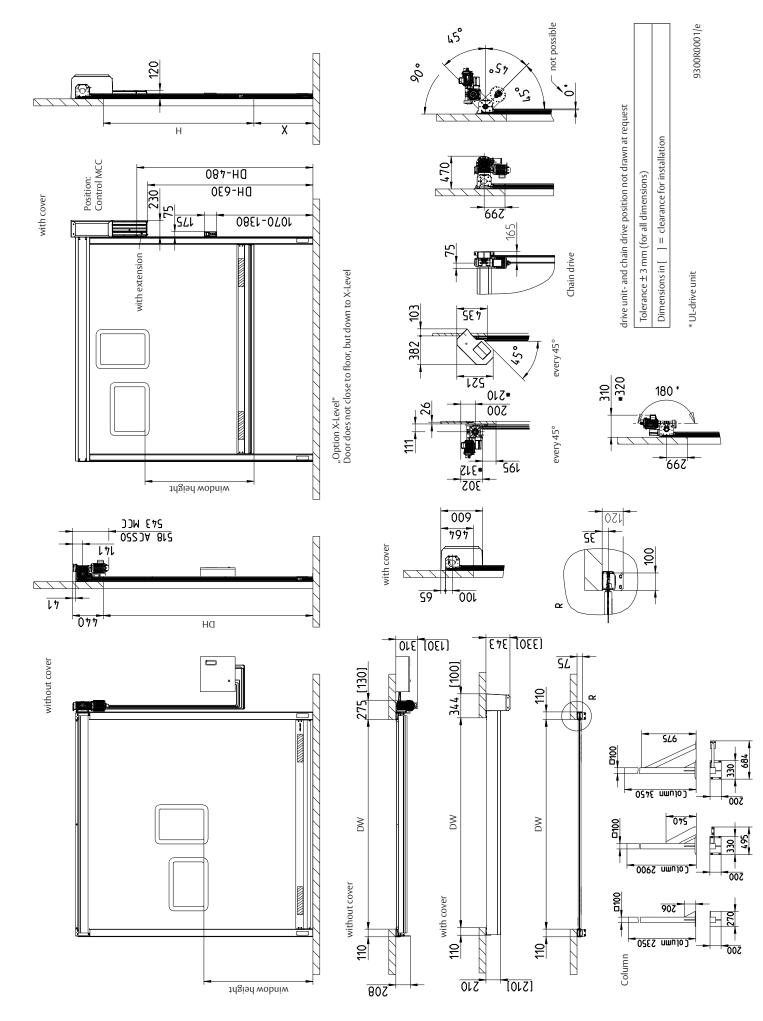


The ASSA ABLOY RP300 USD closes from bottom to top

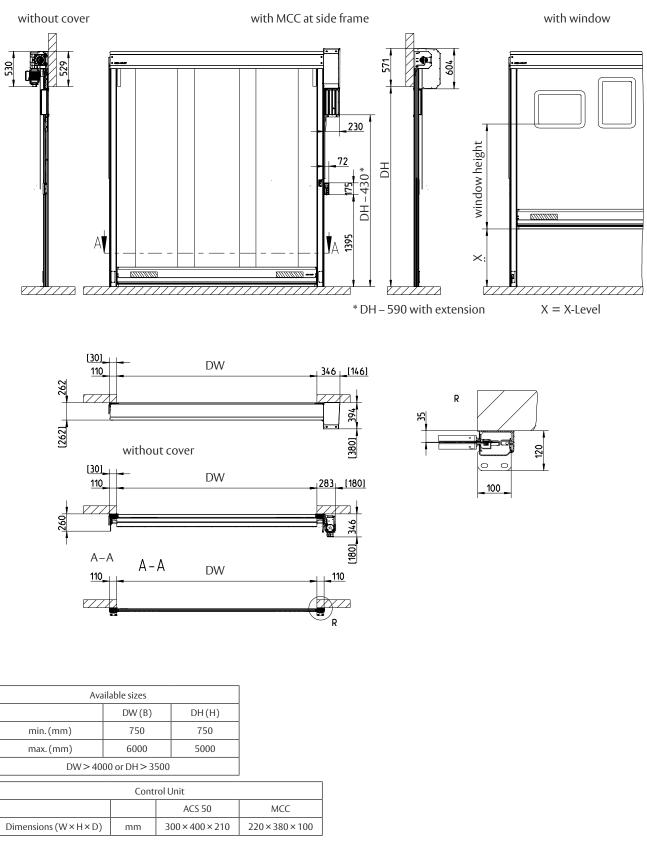


Example of use: place a workpiece into the process

General drawing ASSA ABLOY RP300

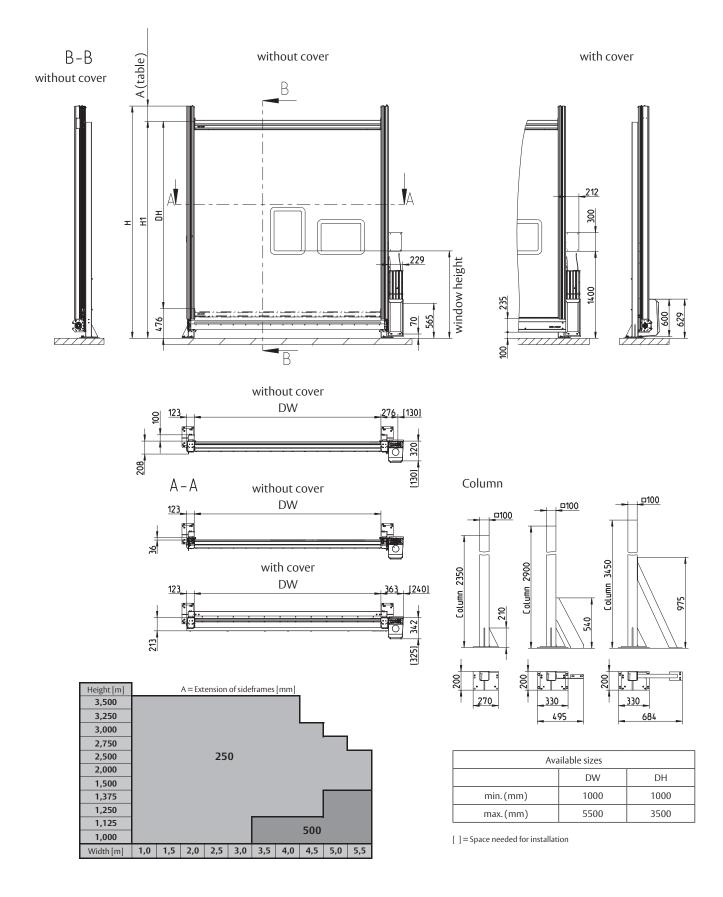


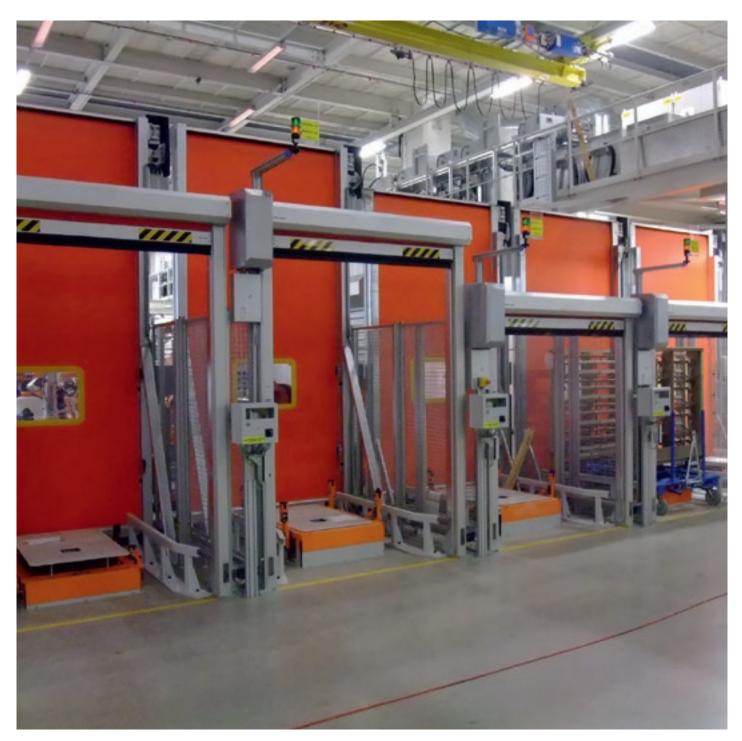
General drawing ASSA ABLOY RP300 Wide



[] = Space needed for installation

General drawing ASSA ABLOY RP300 USD









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