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Product specification ASSA ABLOY RP2000

Vertical rapid roll door for interior or machine protection

Standard equipment

Dimensions:

Daylight width (DW): 600 – max. 4000mm (depending on door size – see attachments)

Daylight height (DH): 1000 - 3500mm (height steps of 100mm)
(DH < 2500mm only with top roll cover)

Area: Max. 12m² (Option Laser protection: max. 9,5 m²)

Resistance to wind load: Class 3 (DW ≤ 3000) - according EN 12424
Class 2 (DW > 3000)

Resistance to water

Penetration: -

Air permeability: -

Heat transition coefficient
(U- value): -

Noise: < 80 dB A (running noises)

Operating temperature: Standard +10 °C - +45 °C
Extended 0°C - +60°C (see “Allowed operating temperature range for ASSA ABLOY doors”)

Door blade: aluminum lamellas – partly single wall - anodized

Side guides: Galvanized sheet metal, with bottom plates,
including transparent inspection covers for safety switches

Wind reinforcement: Without

Top roll: Aluminum with 2 discs on each side

Top roll sealing: Without

Balancing: System with tension springs (max. 9 springs)

Blade tensioning: Without

Bottom beam: Standard lamella with rubber sealing (without break-away),
with contactless pre-running safety photocell - cable chain in side frame

Door-line photocell: Without

Drive unit: Bonfiglioli gear motor 1.1 kW with manual release of the brake,
available for right and left side

Control box: MCC, modular frequency converter control system (Vector Control),
motor-cable length (between drive unit and control system): 1 m,
control system mounted on side frame (drive side).
Interface card separately, cable length ≥ daylight height (available in steps of
3, 4½, 7, 10, 15, 30m).

Product Development

ASSA ABLOY Entrance Systems

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Surface mounted main switch with black handle, cable length \geq daylight height (available in steps of 3, 4½, 7, 10, 15, 30m).

Opening/closing speed:	Max. 2.0 m/s / 1.2 m/s
Emergency opening:	Emergency rope to disconnect the motor brake, self-opening partly
Safety switch bottom:	1 Schmersal magnetic switch (Type1) on drive side, for safe detection of position door closed: category 4, Performance Level (PL) e, according to EN ISO 13849-1, SIL3 according to IEC61508 and SILCL3 according to EN 62061; incl. 15m cable; with separate safety control relay
Display unit:	without display, with cable and plug to connect with display on drive side
Power supply:	3/(N)/PE 380V ($\pm 10\%$), 50/60Hz 3/(N)/PE 400V ($\pm 10\%$), 50/60Hz 3/(N)/PE 415V ($\pm 10\%$), 50/60Hz 3/(N)/PE 440V ($\pm 10\%$), 50/60Hz 3/(N)/PE 460V ($\pm 10\%$), 50/60Hz 3/(N)/PE 480V (-10%/+5%), 50/60Hz
Certificates:	Safe opening, peak forces according EN13241-1 Position switch in machine protection doors (EN ISO 13849-1, EN ISO 14120) Resistance to wind load class 3 (EN 12424) Test report laser protection (DIN EN 60825-4)
Marking:	External cable and component marking according to electrical drawing
Cable ends:	All applicable cables are equipped with wire end sleeves

Options

Door blade alternative 1:	Door blade with window lamella (single windows of Polycarbonate 40x250mm), not for laser protection
Door blade alternative 2:	Laser protected door blade, max. door size see attachment incl. height-adjustable bottom sealing, without windows, without powder coating
Door for laser protection:	Door blade laser resistant (door blade type 2) 2 x Schmersal safety switch Type1 (RH and LH) or 2 x Schmersal safety switch Type2 (RH and LH) with top roll cover with adjustable laser edge sealing without elect. safety edge without powder coating of side frames without installation on braces
Powder coating:	- Door blade: always both sides (without adapters), not with option laser protection - Side frame: all visible parts, not with option laser protection - Top roll and motor cover
Lintel sealing:	Option at laser protection doors
Safety device:	Door-line photocell (280mm above the floor)

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- Safety edge: Electrical safety edge at bottom lamella, only together with stationary photocell, not with option laser protection.
The day light opening is app. 100mm reduced.
- Top roll cover: Aluminum anodized sheet metal (required if DH < 2500mm)
- Additional cover: Cover on backside of top roll for standalone doors (required if DH < 2300mm)
- Motor cover: Steel, powder coated grey (RAL 9006)
(not at doors with KNH – hand chain operator)
- Control box: MCC wall mounted (not at side frame), Installation with wall brackets up to 30m distance to drive unit.
- Safety switch bottom:

	Schmersal Type 1 (not with PROFIsafe)		Allen Bradley		Schmersal Type2 OSSD (only with PROFIsafe) (no safety control relay necessary)	
	S = Standard x = Option	safety category*	S = Standard x = Option - not available	safety category*	S = Standard x = Option - not available	safety category*
1 switch <u>with</u> safety control relay (Drive-unit side)	S	PL. e Kat. 4 SIL 3	X	PL. e Kat. 4 SIL 3	-	-
1 switch <u>w/o</u> safety control relay (Drive-unit side)	x	without	x	without	x	PL. e Kat. 4 SIL 3
2 switch <u>with</u> safety control relay	x	PL. e Kat. 4 SIL 3	-	-	-	-
2 switches <u>w/o</u> safety control relay	x	without	-	-	x	PL. e Kat. 4 SIL 3
<i>Doors with safety limit switches also contain the magnet and required cabling</i>						
Prepared for 1 switch (Drive-unit side)	x	without	x	without	-	-
Prepared for 2 switches	x	without	-	-	-	-
<i>Prepared = with bracket for sensor and magnet, without cable</i>						
Window in cover profile	S	S	S	S	S	S
Without switch	without brackets, without preparation				not available	

* Safety category: performance level (PL) / category according EN ISO 13849-1 and SIL3 (safety integrity level) according IEC61508.

- Display unit:
- Separate Display unit with buttons for open / stop / down.
 - Necessary for setup / initiation, not necessary in normal door operation.
 - Display installed on side frame (drive side), only possible if DH ≥ 1600mm (cable length: 3m)

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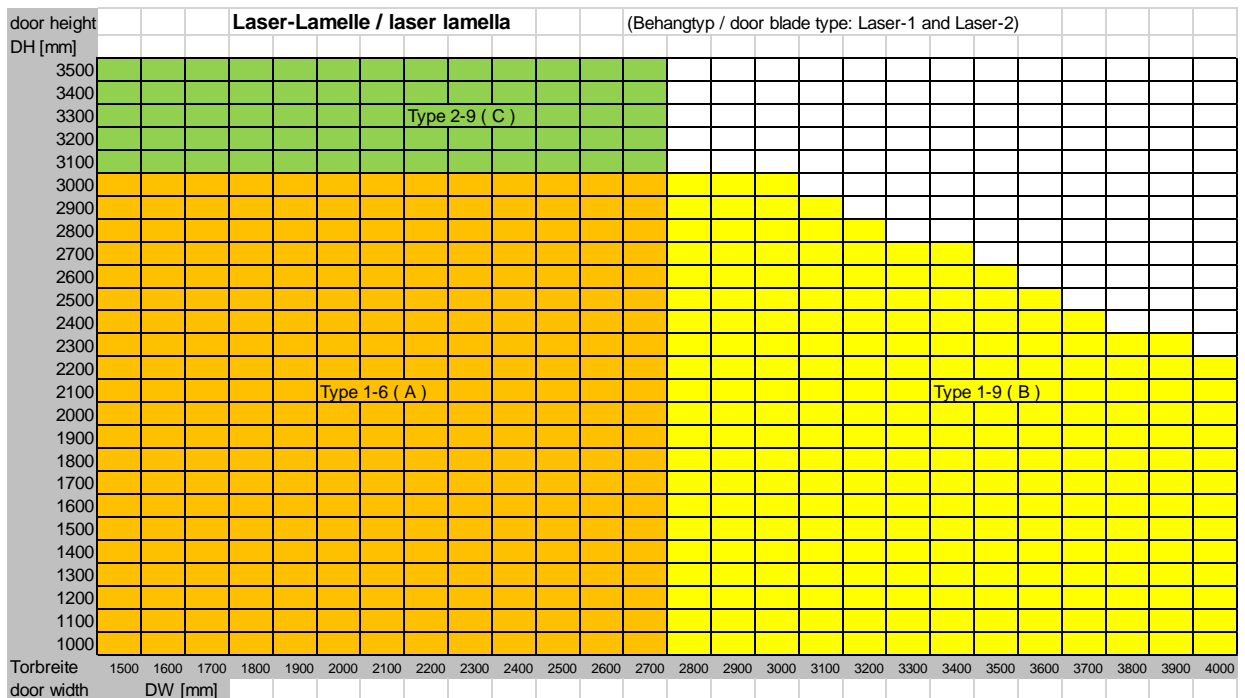
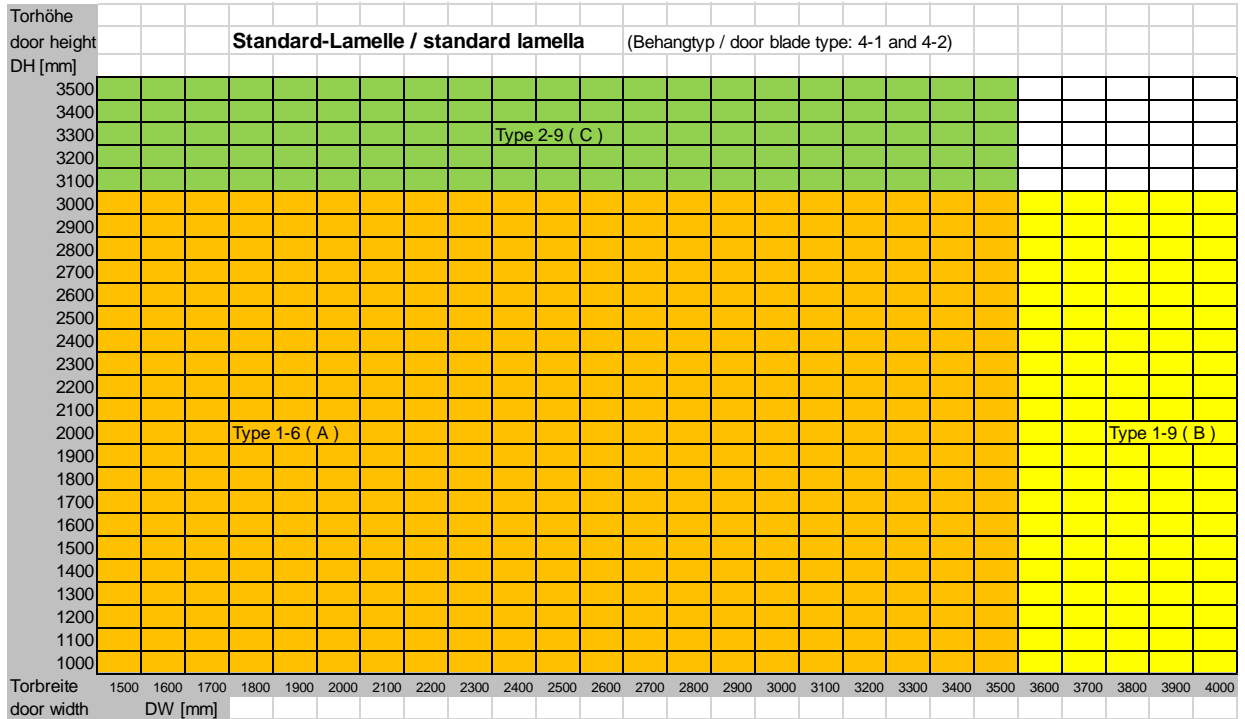
Power supply:	<p>With transformer:</p> <p>3/(N)/PE 220V 50/60Hz (±10%)</p> <p>3/(N)/PE 230V 50/60Hz (±10%)</p> <p>3/(N)/PE 500V 50/60Hz (±10%)</p> <p>Option to supply the MCC from a single phase mains power supply is not available.</p>
Combi Box MCC:	<p>Plastic housing (175x250x150mm), for pre- assembling in factory of:</p> <p>Interface card / main switch with black handle and safety relay.</p> <p>Cable available in length 3, 4½, 7, 10, 15, 30m.</p> <p>With bracket and cable channel if MCC installed at side frame and Combi Box installed on drive side.</p>
Metal Combi Box MCC:	<p>Steel housing (200x300x155mm), for pre- assembling in factory with of:</p> <p>Interface card / main switch with black handle and safety relay.</p> <p>Cable available in length 3, 4½, 7, 10, 15, 30m.</p> <p>With bracket and cable channel if MCC installed at side frame and Combi Box installed on drive side.</p>
Extension box MCC:	<p>Extended MCC aluminum housing (+140mm):</p> <ul style="list-style-type: none"> - with Integrated terminal block, for pre-assembling in factory of: safety relay or - with integrated interface card, for pre-assembling in factory of: safety relay
LED traffic light strip:	<p>Mounting on both side frames, cabling in the door sideframe, approx. 300x15x6mm (LxWxD without connection cable)</p>
Emergency-lever back side:	<p>Additional, with sep. bracket</p>
Floor mounting bracket:	<p>Bracket to mount the door only on at concrete floor or similar (standalone); (A separate supporting frame is not necessary in this case), not with option laser protection</p>
X-Level:	<p>50mm <= X <= DH-1000mm; steps of 10mm max. complete door height L (DH+X): 3500mm, not with option laser protection</p>
Hand chain operator:	<p>KNH Hand chain operator. Easy, manually emergency opening by power failure. Combination with Motor cover is not possible.</p>

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Attachment (door types)



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Legend

Rev. 01: fd, 2008-10-22

- Opening speed changed; wind class 3, additional cover and floor mounting bracket added.

Rev. 02: fd, 2009-01-27

- Opening and closing speed changed; limit switch (ifm, Pilz) deleted, electrical safety edge added
- Extended safety edge deleted
- Manual opening (emergency opening) on inner door side always

Rev. 03: son, 2009-03-24

- Limit switch bottom and control relay as standard; optional: without

Rev. 04: fd, 2009-06-10

- Height step 100mm added; electrical safety edge only in combination with stationary photocell; control relay for Schmersal switch changed.

Rev. 05: son, 2009-06-29 (change no. 2009-050)

- section "Optional equipment" renamed to "Options"
- power supply data modified
- information regarding display added

Rev. 06: stf, 2010-02-24

- Resistance to water penetration, air permeability, heat transition coefficient added

Rev. 07: fd, 2010-11-03 (Change no. 2010-105)

- Option laser protection added
- Opening / closing speed 2,3 / 1,3 m/s reduced

Rev. 08: fd, 2012-05-10 (Change no. 2012-007)

- door size: DW3000mm -> DW3500mm, at laser protection: 7.5m² -> 8.5m²
- laser protection door: 2 Schmersal limit switches
- X-Level added

Rev. 09: fd/stf, 2012-11-14

- X-level: X <= 50mm
- LED traffic light strip added
- operating temperature added

Rev. 10: fd/pc, 2014-03-22

- Area 10.5m² (was 9m²)
- Option Hand chain operator added.

Rev. 11: fd, 2015-04-23

- Area 9m² - at laser protection
- Door width 3000mm at laser
- Limit switch: text added "transp. Covers"
- Window lamella not at laser
- Powder coating – not at laser

Rev. 12: fd, pc, 2017-05-17

- Door dimension extended up to DW4000, DH 3500 (tables attached)
- (DH+X<2500) changed to DH<2500 only with top roll cover
- Option lintel sealing added
- At Standard equipment => without door-line photocell added

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- Option plastic motor cover removed
- Laser door with adjustable bottom sealing
- Laser door with adjustable edge sealing
- Adaption text for MCC and limit switches to RP300
- Add option limit switch Allen Bradley
- Add option "prepared for limit switches", summarized in the table
- Sequence of options sorted

Rev. 13: wue, 2018-03-21

- Safety switch bottom: Add „Type1“ to Schmersal magnetic switch.
- Option „Door for laser protection“: Add „Type1“ to Schmersal safety switch and add „2 x Schmersal magnetic switch Type2 (RH and LH)“.
- Option „Safety switch bottom“, Table: Add „Type1“ to Schmersal safety switch.
- Option „Safety switch bottom“, Table: Add column „Schmersal Type2 OSSD“.

Rev. 14: pc, 2018-08-27

- Rapid Protect RP 2000 in ASSA ABLOY RP2000 changed.

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