



Data Sheet
High Performance Door

Rapid Roll[®] 450/600/600G

The all-rounder for exterior and interior application

Safety is ensured by a touchless pre-running photocell.

Front or rear side moving wind bar or self repairing knock out capability as option.

For use in highly explosive environments a version with BVS certificate is available.
(approved by DMT Organisation)

ADVANTAGE OF ALBANY RAPIDROLL® 450

- the pre-running safety photocell (transmitter / receiver) offers a maximum of safety
- the tensioning curtain system ensures controlled safe opening and closing of the door and makes sure the curtain is always tensioned
- by using various control systems individual functions and different speeds of doors are available
- the door curtain counter-balance system, which uses tension springs, offers drop down safety

APPLICATION

- for exterior doorways, to avoid draft
- for interior doors as a partition between two factory areas

DESIGN

The side frames of the door are made of extruded anodised aluminium. The self-supporting side frames are fixed only on the head- and the base plates on each side. The frames contain springs for tensioning and for counterbalancing the weight of the door curtain. In case of service, the front plate of the side frames can easily be opened or refitted. The top roll is made from aluminium (model 450) resp. steel material (model 600 and 600G).

DOOR CURTAIN

The door curtain is made of clear PVC with blue reinforcement stripes. Optional other colours can be chosen. For applications with high mechanical requirements a curtain of RollTex® Plus is available. In standard the door includes a tensioning system providing extra strength against wind pressure. The edges of the door curtain are reinforced with special wind tabs which are guided in the side frames. As option running windbars - moving in front or rear side of the curtain - are available. Moving windbars require additional space in height.

KNOCK-OUT CAPABILITY

A selfrepairing knock-out capability is available as an option.

DRIVE UNIT

Gear motor. Position can be chosen right - or left-hand.

CONTROL SYSTEM

The model 450/600 is fitted with an ACS 50 control system as standard. Frequency converter control is available for door type 450/600 as option. Model 600 G is fitted with a frequency converter control system ACS 80 as standard - Please refer to technical data.

MANUAL ACTIVATION

In the event of a power failure, the door can be opened by releasing the brake manually. Depending on the width/height ratio, the door opens up to 80% of its opening height.

SAFETY FEATURES

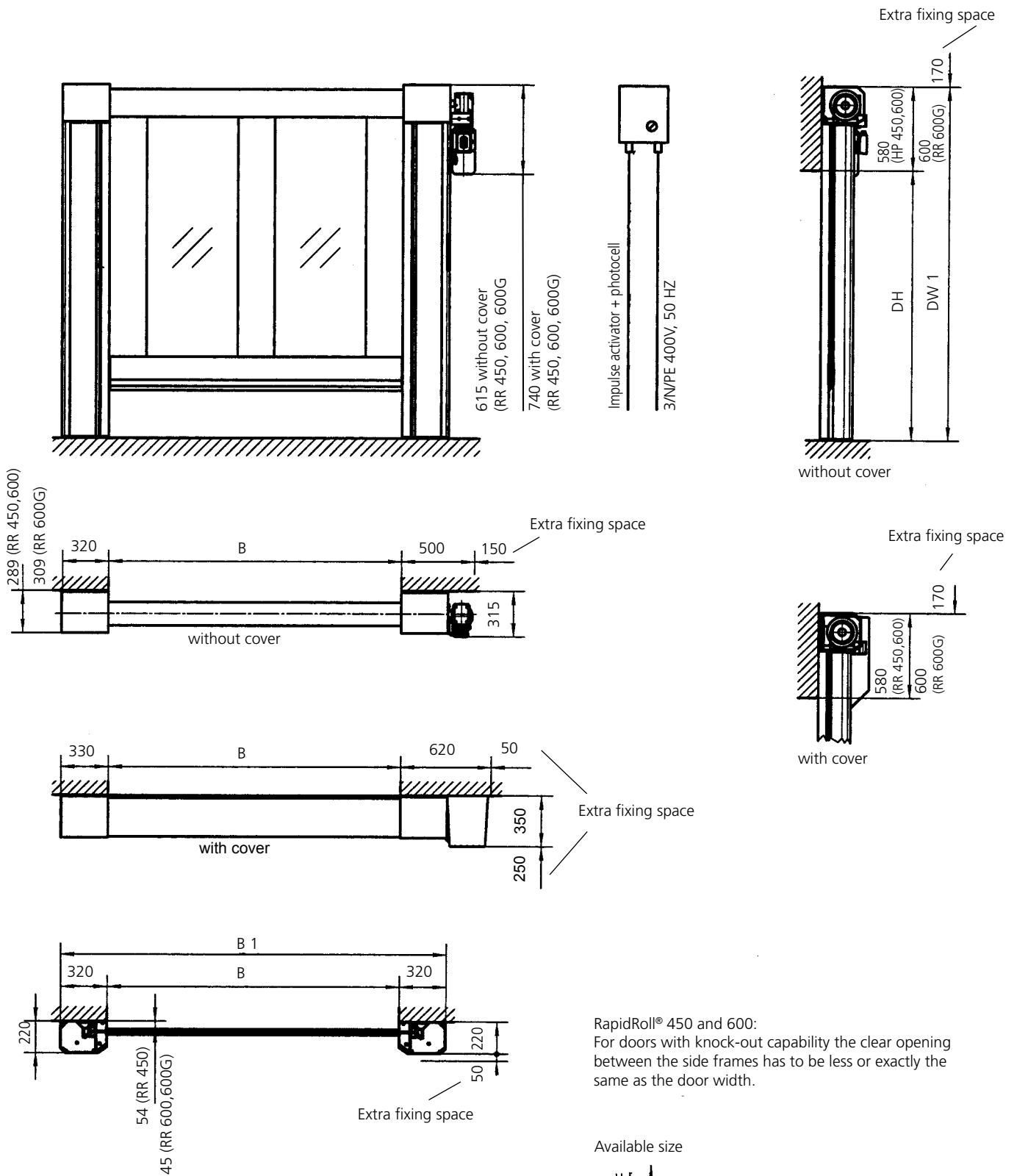
This door is designed according to the regulations of the Workplace Directive of the UVV as well as the harmonized CE Guidelines including the EN 13241-1.

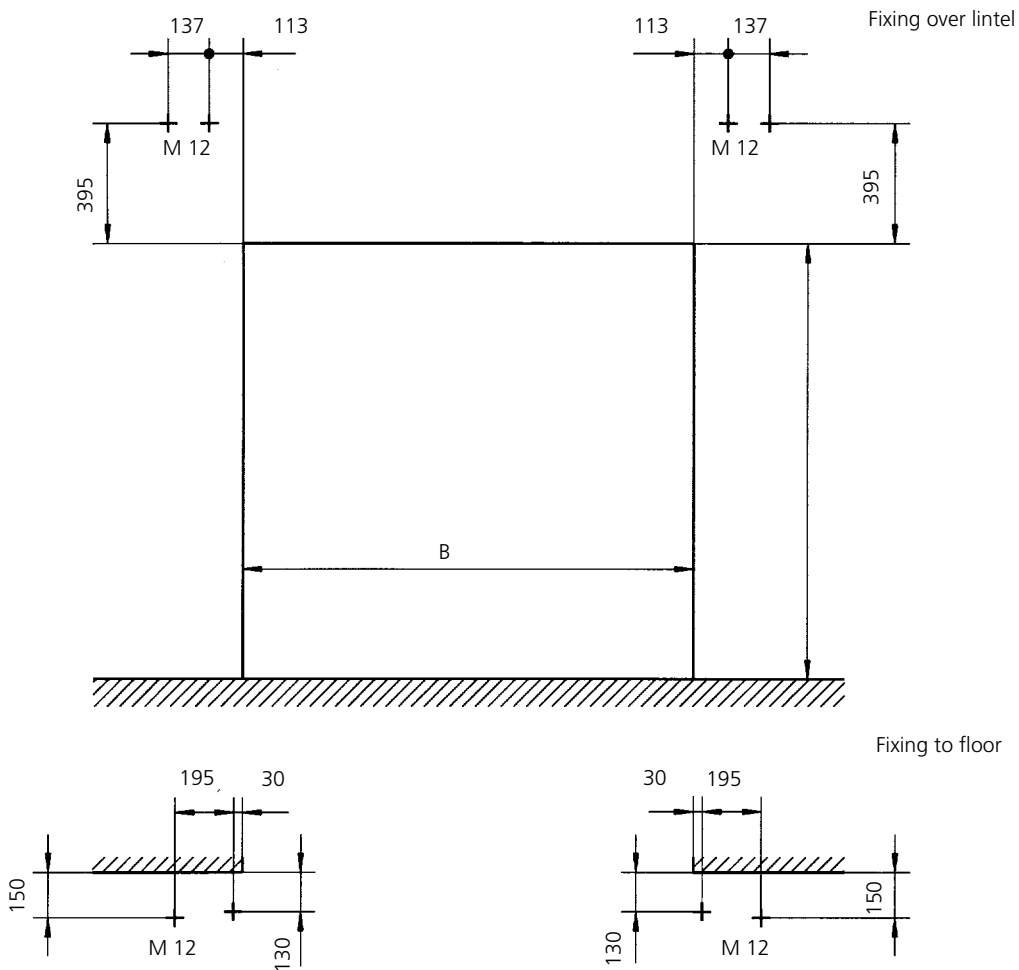
INDICATION OF RISK

The security of the door is designed for normal use for vehicles in industrial environment corresponding to the harmonized CE-Guidelines. In consideration of the situation on site - especially in case of use by pedestrians - additional safety measures, like additional actuators may be required. Next to this, special environmental conditions may have impact on the right choice of doortype. In case of any doubt please contact our sales engineer for advice in your application.

Technical Data			
Interior door	suitable		
Exterior door	suitable		
Wind resistance	Class 2 - EN 12424		
Door dimension (mm)	For details please note general drawing!		
DW min. / max.	2000 / 7500 mm		
DH min. / max.	2500 / 6000 mm		
Opening direction	vertical		
Surface			
Side frames	anodised aluminium		
Bottom profile	anodised aluminium		
Top roll	DW and DH ≤ 4500 mm anodised aluminium		
Top roll	DW or DH > 4500 mm; steel		
Coloured Surface	•		
Covers (optional)			
Top roll cover	• ¹⁾		
Motor cover	• ¹⁾		
Door curtain (alternatively)			
PVC with blue reinforcement stripes	✓		
PVC with coloured reinforcement stripes	•		
PVC with silicon-free reinforcement stripes blue / black	•		
RollTex® Plus with/without windows	•		
Wind taps	✓		
Curtain tension	✓		
Counterbalance	✓		
Drive unit	electrical		
Chain drive	• up to 6000 x 6000 mm		
Control systems			
ACS 50	✓	Type 450/600	
ACS 80	✓	Type 600 G	
ACS 80	•	Type 450/600	
Safety			
Electric safety edge	•		
Pre-running safety photocell	✓		
Door line photocell	•		
Fall down protection	✓ tension springs		
Knock-out capability	•		
Self-opening	•		
Manual activation	✓ with bowden lever operated from the floor		
EX - protection	•		
Lintel support rollers	•		
Second bowden lever	•		
Extended flexible seal	•		
Speed (m/s)	ACS 50	ACS 80	ACS 80
	RR 450	RR 600	RR 600G
Open/close up to max. / m/s	0,9/0,9	2,2/0,9	2,7/1,1
Fuse protection	6,3 A	10 A	10 A
Control voltage	24 V DC		
Protection degree	IP 55		
Motor power / kW	0,55 kW	1,1 kW	1,1 kW
3/(N)/PE 230/400/415V; 50 Hz	✓		
3PE 400/415V; 50/60 Hz		✓	✓
Transformer for special voltage	•		
Additional opening heights	—	✓	✓
Potentialfree contacts max. 250 V	✓	•	•
Traffic light function			
Without direction detection	✓	•	•
With direction detection	—	•	•
Flashing alarm light	✓	•	•
Error message	✓ LED's	✓ plain text	✓ plain text
• Option ✓ Standard — not possible			
1) For doors of height ≤ 2500 mm the use of top roll and motor cover is required according to standard EN 13241-1.			

General Drawing RapidRoll® 450/600/600G





Drawing-No. 8300048/2
Date: 16.11.00

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In most countries our doors are available
through subsidiaries or representatives, see

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