

High Speed Roll Up Doors



The Roll-O door is a high speed roll up door that opens and closes using a vertical roll-up operation, as with our o

ther high-speed doors the Roll-O model is suitable for applications where high speed opening and closing times are required.

This type of door is suited to both small and medium size openings and designed for use where heavy traffic is present.

This type of door can be used in a range of applications including stand-alone or combination use and is ideally suited for internal applications where partitions are required between temperature controlled, dusty,noisy or similar areas.



For maximum safety, all Roll-O doors have a built in safety edge.

Upon contact with an obstacle the door stops and reverses automatically to avoid the risk of injury or damage.

All Roll-O doors are CE marked and comply with the appropriate safety regulations EN 13241-1.

The ROLL-O door is available with a variety of bespoke options and can be manufactured to include a crash-proof system, this system ensures that in the event of any impact by a vehicle, the door can easily be reset in a few seconds without any special tools or skills.

As with all our other high-speed doors, in the event of a power failure the ROLL-O door is supplied with a manual override facility.

This ensures the door can be easily opened or closed in the event of power being severed from the door, this override facility minimises the risk of any inconvenience in entering or leaving the affected area.

European Standards

European Standards UNI EN 13241-1

Technical Data

All the structure of pack-away door is self-bearing.

- Upper Framework in zinc-plated steel or, on request, in stainless steel INOX 304.
- Guard for motor and rolling shaft protection in zinc-plated steel or, in stainless steel INOX 304 as an optional.
- Guides in zinc-plated steel or, upon request, in stainless steel INOX 304.
They are equipped with pvc anti-crash profiles or, on request, with nylon brushes.
- Curtain made in pvc coated polyester, 680 gr/sqm, flame retardency cl. 2.
Another versions available: pvc coated polyester 900 gr/sqm, flame retardency cl. 2, or insulated type 4 mm thick.
It is possible to manufacture curtain with many transparent sections, completely coloured one or personalized with our Customers' logo.
- Lift Shaft in zinc-plated steel or, in stainless steel INOX 304 if requested.
- Cross Bars either in zinc-plated steel or, in stainless steel INOX 304.
at high traction resistance.
- Lifting Belts to european regulations in force (photocells, safety edge, blinker).
- Safety Devices in case of power failure: handle on the motor unit or, at Customers' request, counter-weight system.
- Opening Devices

It can be painted with any RAL colour.

Flexible Curtain

Main details:

- Fabric made of polyester covered with PVC.
- Flame retardant cl. 2.
- Fabric strength: abt. 3.000 N/5 cm. in warp and weft.
- Tear strength: abt. 400 N in warp and weft.
- Total weight: standard version: 680 gr./sqm. As an option: 900 gr./sqm., 1700 gr./sqm.
- Thickness: standard version: 0,8 mm. As an option: insulated version: 4 mm.
- Wind resistant cross-bars made of zinc-plated steel incorporated into flexible panel.
- Lifting belts made of polyester, flame retardant cl.1.

Standard version: two transparent portholes (at the high of a person and at the high of a forklift truck).

It is possible to put more transparent portholes in the panel or to manufacture a completely stained panel.

Structure

Upper framework and lateral runners: standard version is made of zinc-plated steel. As an option we can propose you a version made of painted steel or of stainless steel INOX 304.

Upper framework and lateral runners thickness: 2 mm.

Rise shaft, reduction gear, rotating cam limit switch and rolling-up shaft are installed on the upper framework. The anti-collision (push) profiles are put into the lateral runners.

Lift Shaft

Lift shaft is made of steel.

Motor

The asynchronous three-phase electric motors of **Bonfiglioli - Riduttori Motovario's** production range, are available in basic designs IMB5 and IMB14 and derived versions.

Sizes in the range of IEC 63-160 with powers in the field 0.12-15 kW are available (4 pole - 1500 min - 1 - S1).

Our motors are supplied standard with IP 54 protection class (for brake motors) to CEI standards 2-16/IEC 34-5.

They are cooled by external ventilation (IC 411 to CEI 2-7/IEC 34-6) and are equipped with a radial fan in plastic working in both directions.

The motor is suitable for heavy duty (1550 rpm).

The reduction gear is lubricated.

The S factor is:

- o 0,37 Kw -> S = 2
- o 0,75 Kw -> S = 3
- o 1,5 Kw -> S = 1,7

Plastic electric box with electric cables (insulation 450/750V CEI 20-22).

Italian Standards

Title	CEI	IEC
General requirements for rotating electrical machines	CEI 2 - 3	IEC 34 - 1 / 83
Terminal markings and direction of rotation of rotating machines	CEI 2 - 8	IEC 34 - 8
Methods of cooling for electrical machines	CEI 2 - 7	IEC 34 - 6
Dimensions and output ratings for rotating electrical machines	UNEL 13113 - 71 UNEL 13117 - 71 UNEL 13118 - 71	IEC 72
Classification of degree of protection provided by enclosures for rotating machines	CEI 2 - 16	IEC 34 - 5
Noise limits	CEI 2 - 24	IEC 34 - 9
Classification of type of construction and mounting arrangements	CEI 2 - 14	IEC 34 - 7
Rated voltage for low voltage mains power	CEI 18 - 6	IEC 38
Vibration level of electric machines	CEI 2 - 23	IEC 34 - 14

Foreign Standards

Nation	Standard
Australia	AS 1359
Austria	OEVE M 10
Belgio	NBNC 51 - 101
Canada	CSA C22.2 N° 100
Francia	NF C 51

Germania	DIN VDE 0530
Gran Bretagna	BS5000 / BS4999
Norvegia	NEK IEC 34
Olanda	NEN 3173
Svezia	SS 426 01 01
Svizzera	SEV 3009

Standard industrial voltage: 220 / 400 Vac - 50 Hz

Options

Other possibilities we can propose:

Industrial Voltage	Frequency
240 / 415 Vac	50 Hz
260 / 440 Vac	60 Hz
280 / 480 Vac	60 Hz

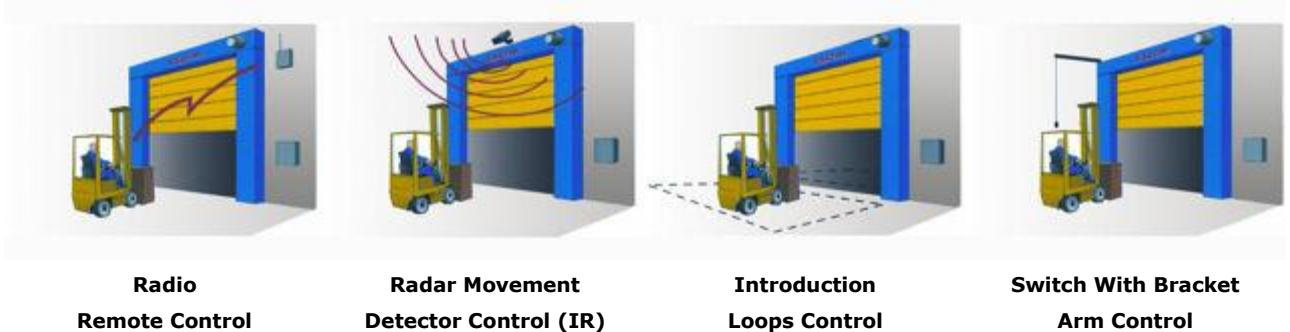
The power is proportional to the door dimensions:

- 0,37 Kw (0,5 HP)
- 0,75 Kw (1,0 HP)
- 1,5 Kw (2,0 HP)
- 2,2 Kw (3,0 HP)
- 3,0 Kw (4,0 HP)

Brakes

- Electro-magnet containing the toroidal coil, secured with three screws on the rear shield fan side; three preloaded springs ensure axial positioning.
- Mobile armature plate preset for dust protection elements assembly.
- Axially independent brake disk connected to the shaft by the trailinghub.
- Braking springs.

Controls



Radio transmitter approved 433 Mhz

Attractive Design, ergonomic shape and thin
Fixed code selectable through Dip-Switch 9 vie
Ternario
19683 chances
Power 10 a 100 meters
2 or 4 channels
European frequency 433,92 MHz
Modulation AM/ASK
Dim. 88 x 48 x 17 mm



Radar movement for the industrial automatic doors opening

Frequency 9.10 GHz
Field 6-10 meter
Functioning loops movement
European standards UNI 8612
CE Marking
Work temperature -20/+55 °C
Power supply 12/24 Vac/dc
Housing IP55



Vehicle detector

Floor metall detector
A loop
Functioning with metall relief
European Standards UNI 8612
CE Marking
Work temperature -20/+55 °C
Power supply 12/24 Vac/dc
Housing IP55



Safety photocell with long power

Fixed fire
Power 30 meter in every condition
Adjustable sensitivity
European Standards UNI 8612
CE Marking
Work temperature -20/+55 °C
Power supply 12/24 Vac/dc
Housing IP55



Orientable infrared photocells

Orientable 180° Dx-Sx e 40° High-Low
Power 20 meter in every condition
Adjustable sensitivity
European Standards UNI 8612
CE Marking
Work temperature -20/+55 °C
Power supply 12/24 Vac/dc
Housing IP55
Dim. 90 x 60 x 60 mm



Flat infrared photocells

Fixed Fire
Power 10 meter in every condition
Adjustable sensitivity
European Standards UNI 8612
CE Marking
Work temperature -20/+55 °C
Power supply 12/24 Vac/dc
Housing IP55
Dim. 90 x 60 x 22 mm



Flashing light 24V

Power supply 24 Vac
Power 25 W
Input 100 mA
Yellow color
European Standards UNI 8612
CE Marking
Work temperature -20/+55 °C
Housing IP54
Dim. d. 75 x 120h mm



Anemometer for wind speed relief

Anemometer
Bracket "L" for the wall fixing
Cable 1,8 mt



Curtains Colours

Colour	RAL	700 gr/sqm	900 gr/sqm	ISOLATED
Beige	RAL 1015		X	X
Yellow	RAL 1021			X
Orange	RAL 2004			X
Red	RAL 3002			X
Blue	RAL 5002			
Blue	RAL 5012			X
Green	RAL 6026			X
Green	RAL 6016	X	X	
Grey	RAL 7032		X	X
Grey	RAL 7040	X		
Black	RAL 9005		-	X
White	RAL 9016			



PA: to verify the above listed colours, please don't forget to ask about PVC coupons in order to confirm the exact tone of the curtain you wish to buy.