



Access control

The design, construction and finish of the Robusta sliding gates are the result of the practical experience of the professional installers backed by the technological know-how of Betafence.

Robusta[®] cantilever sliding gates

Benefits

Large range

There are 3 versions of cantilever sliding gate, the choice being determined by the size of the opening required. Each of the 3 types of gate, from 3 to 12 m, can be equipped with Bekamatic motorisation.

Safety

The distance between the vertical bars is 110 mm, to prevent climbing through. Fitting the roller system in the underbeam also avoids accidents.

Complete system

The cantilever sliding gate can also be used in conjunction with Robusta swing gates and Robusta panels.

Harmony

Robusta gates completely harmonise with all styles of architecture.

Security of Operation

Robusta gates are extremely rigid due to their section and the welded construction.

Ingenious tension system

An ingenious tension system is integrated in the frame of the cantilever sliding gates to guarantee a perfect line at all times.

Pre-assembled

Robusta cantilever sliding gates are fully pre-assembled at the factory to ensure a rapid and trouble-free installation on the site. All gates are delivered on crane off-load vehicles.

Applications

Robusta sliding gates are suitable everywhere where operational safety and security have priority: factories and workshops, administrative centers, public buildings, play and sports grounds, public parks, airports and military sites.



Gate wing

- Welded structure.
- Provided with a cylinder lock (for manual gates)
- Security topping optional for all heights.
- The frame is provided at the top and the bottom with guiding rolls for a perfect entering in the end post bridge.
- Two sets of rolls in the underbeam for horizontal and vertical guiding.
- Some types of gates have a roll to support the gate in open condition.

Guidance of the gate

- Guiding posts and end posts with welded ground plates.
- The guiding posts have 2 guiding rolls at the top and an integrated baseplate for the installation of 1 set of guiding rolls that is situated in the underbeam.
- Special guiding posts with integrated electronics are used for motorisation.
- The end posts of the not motorised gate have a lock system integrated.

Tension system



An aesthetical tensioning system integrated in the frame guarantees a perfect line of the gate.

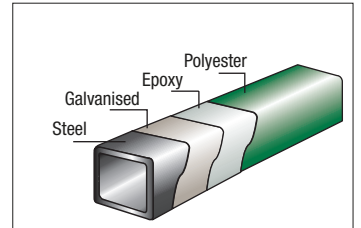
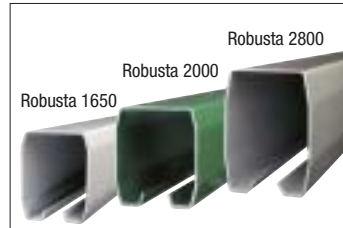
Coating technique

Robusta gates are treated with the best coating processes existing today: galvanised in- and outside (minimum 275 g/m², 2 sides combined). Afterwards an adhesion coating is applied (epoxy) and finally the gates are plastic coated (polyester) (min. 120 micron both layers together).

Colours

Green RAL 6005 - White RAL 9010 - Grey RAL 7030

Other colours: on request.



TECHNICAL DETAILS

	Robusta 1650	Robusta 2000	Robusta 2800
Free passage	3 up to 7 m	6 up to 9 m	8 up to 12 m
Underbeam	163 x 150 x 4 mm	200 x 160 x 5 mm	280 x 200 x 5 mm
Frame	60 x 60 x 2 mm top side	80 x 60 x 2 mm top side	100 x 100 x 3 mm top side
Frame	60 x 60 x 2 mm vertical	80 x 60 x 3 mm (7,5-9 m) vertical	100 x 80 x 3 mm vertical
Infill frame	25 x 25 x 1,5 mm	25 x 25 x 1,5 mm	30 x 30 x 1,5 mm
Distance between bars	110 mm	110 mm	110 mm
Guiding post bridge Manual	80 x 80 x 3 mm post bridge	80 x 80 x 3 mm post bridge	100 x 100 x 3 mm post bridge
Motorised	integrated Bekamatic post inside 100 x 100 x 3 mm outside	integrated Bekamatic post inside 100 x 100 x 3 mm outside	integrated Bekamatic post inside 180 x 80 x 5 mm outside
End post bridge	80 x 80 x 3 mm post bridge	80 x 80 x 3 mm post bridge	100 x 100 x 3 mm post bridge
Support roll (open position)	6 & 7 m	all types	all types



Robusta® cantilever sliding gates

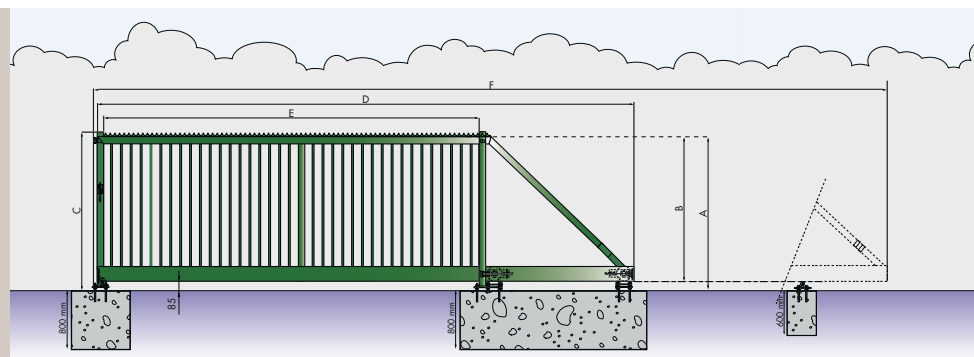
R 1650

R 2000

R 2800

ASSORTMENT ROBUSTA CANTILEVER SLIDING GATES

Opening x height mm	Weight kg		Gate height from foundation mm		Wing height mm		Post height mm		Wing width mm		Free passage mm		Overall length required mm		
			A	B	C	D	E	F							
3000 x 1000	238		1076		991		1156		4650		3058		8048		
3000 x 1200	250		1279		1194		1359		4650		3058		8048		
3000 x 1500	265		1557		1472		1637		4650		3058		8048		
3000 x 1700	280		1790		1705		1870		4650		3058		8048		
3000 x 2000	297		2030		1945		2110		4650		3058		8048		
4000 x 1000	270		1076		991		1156		5918		4003		10261		
4000 x 1200	283		1279		1194		1359		5918		4003		10261		
4000 x 1500	300		1557		1472		1637		5918		4003		10261		
4000 x 1700	317		1790		1705		1870		5918		4003		10261		
4000 x 2000	336		2030		1945		2110		5918		4003		10261		
5000 x 1000	298		1076		991		1156		7000		4948		12288		
5000 x 1200	312		1279		1194		1359		7000		4948		12288		
5000 x 1500	332		1557		1472		1637		7000		4948		12288		
5000 x 1700	350		1790		1705		1870		7000		4948		12288		
5000 x 2000	372		2030		1945		2110		7000		4948		12288		
6000 x 1000	339	384	1076	1076	991	991	1156	1156	8410	8410	6028	6028	14778	14778	
6000 x 1200	355	401	1279	1279	1194	1194	1359	1359	8410	8410	6028	6028	14778	14778	
6000 x 1500	377	429	1557	1557	1472	1472	1637	1637	8410	8410	6028	6028	14778	14778	
6000 x 1700	397	453	1790	1790	1705	1705	1870	1870	8410	8410	6028	6028	14778	14778	
6000 x 2000	421	485	2030	2030	1945	1945	2110	2110	8410	8410	6028	6028	14778	14778	
6000 x 2400		521		2450		2365		2530		8410		6028		14778	
7000 x 1000	379	431	1076	1076	991	991	1156	1156	9635	9635	7108	7108	17083	17083	
7000 x 1200	396	451	1279	1279	1194	1194	1359	1359	9635	9635	7108	7108	17083	17083	
7000 x 1500	419	482	1557	1557	1472	1472	1637	1637	9635	9635	7108	7108	17083	17083	
7000 x 1700	440	508	1790	1790	1705	1705	1870	1870	9635	9635	7108	7108	17083	17083	
7000 x 2000	470	543	2030	2030	1945	1945	2110	2110	9635	9635	7108	7108	17083	17083	
7000 x 2400		583		2450		2365		2530		9635		7108		17083	
8000 x 1000	476	653	1076	1076	991	991	1156	1156	10925	10925	7918	7820	19183	19105	
8000 x 1200	497	681	1279	1279	1194	1194	1359	1359	10925	10925	7918	7820	19183	19105	
8000 x 1500	531	720	1557	1557	1472	1472	1637	1637	10925	10925	7918	7820	19183	19105	
8000 x 1700	558	754	1790	1790	1705	1705	1870	1870	10925	10925	7918	7820	19183	19105	
8000 x 2000	597	796	2070	2030	1945	1945	2110	2110	10925	10925	7918	7820	19183	19105	
8000 x 2400		853		2450		2365		2530		10925		7820		19105	
9000 x 1000	532	728	1076	1076	991	991	1156	1156	12600	12600	8998	8900	21938	21860	
9000 x 1200	555	756	1279	1279	1194	1194	1359	1359	12600	12600	8998	8900	21938	21860	
9000 x 1500	590	797	1557	1557	1472	1472	1637	1637	12600	12600	8998	8900	21938	21860	
9000 x 1700	619	833	1790	1790	1705	1705	1870	1870	12600	12600	8998	8900	21938	21860	
9000 x 2000	661	878	2030	2030	1945	1945	2110	2110	12600	12600	8998	8900	21938	21860	
9000 x 2400		940		2450		2365		2530		12600		8945		21860	
10000 x 1000		781		1076		991		1156		13700		9845		23905	
10000 x 1200		814		1279		1194		1359		13700		9845		23905	
10000 x 1500		859		1557		1472		1637		13700		9845		23905	
10000 x 1700		901		1790		1705		1870		13700		9845		23905	
10000 x 2000		950		2030		1945		2110		13700		9845		23905	
10000 x 2400		1017		2450		2365		2530		13700		9845		23905	
11000 x 1000		850		1076		991		1156		15070		11060		26490	
11000 x 1200		885		1279		1194		1359		15070		11060		26490	
11000 x 1500		933		1557		1472		1637		15070		11060		26490	
11000 x 1700		978		1790		1705		1870		15070		11060		26490	
11000 x 2000		1030		2030		1945		2110		15070		11060		26490	
11000 x 2400		1103		2450		2365		2530		15070		11060		26490	
12000 x 1000		886		1076		991		1156		15300		11600		27260	
12000 x 1200		823		1279		1194		1359		15300		11600		27260	
12000 x 1500		973		1557		1472		1637		15300		11600		27260	
12000 x 1700		1021		1790		1705		1870		15300		11600		27260	
12000 x 2000		1077		2030		1945		2110		15300		11600		27260	
12000 x 2400		1153		2450		2365		2530		15300		11600		27260	





Cantilever sliding gate



Motorisation Bekamatic



TV RRP/VK/OAP © Regie der Gebouwen

Access control

The motorisation Bekamatic is specially developed by Betafence for the automation of Robusta cantilever sliding gates.

Motorisation Bekamatic®

Benefits

Integrated

The Bekamatic motorisation as well as the steering are integrated in the gate, at the factory. This results in a motorised cantilever sliding gate with an attractive design and guarantees a silent operation.

Security of operation

Integration of the drive motor in the gate and the electronic controls in an integral cabinet offer two innovative advantages: improved protection against climatic conditions and vandalism.

Access Control

The controls can be adapted to suit every project and to the demands of the customer. There are many options: key switch, button with three functions, RF-remote control, key pad, magnetic card reader, gate light, videophone/parlophone control, timer clock, etc.

Maximum security

To avoid the risk of trapping people or objects, Robusta motorised gates are equipped with special security precautions.

Pre-assembled

The installation of the Robusta Cantilever gates is fast and eliminates assembly errors as the gate is delivered pre-assembled.

Applications

Especially for industry and situations where access control is recommended.



Motorisation Bekamatic

The Bekamatic motorisation is available in two different executions. The Bekamatic Classic comprises a motor/reductor with stainless steel spring loaded locking system which is integrated in the underbeam and which guarantees an optimal drive.



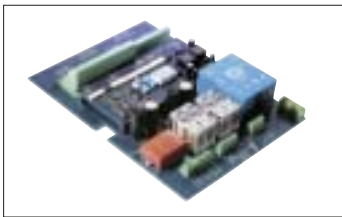
For the heaviest type of cantilever sliding gate, the Robusta 2800, Betafence developed the Bekamatic Industry motorisation. In this case, the motor/reductor is integrated in the guiding post. This type of automation guarantees a perfect operation in the most extreme conditions. The Robusta 2000 can be

equipped with either Bekamatic or Bekamatic Industry motorisation. A mechanical locking system prevents the gate from being opened manually once the gate has been automatically closed.

Manual unlocking system

A manual over-ride system disconnects the motor from the gate and permits manual opening and closing of the gate.

Controller



Betafence has developed a high-quality steering unit. A control unit with microprocessor manages the general functions and contains the control logic. A separate unit contains the special functions for access control.

Maximum Security

Robusta motorised cantilever sliding gates comply with:

- The Machine Directive
- The Low voltage Directive
- The EMC Directive
- Construction Products Directives (CPD)



Also TÜV certified: this certification confirms that the gates comply with the requirements of the European Standard EN 12453 in every aspect of mechanical, motorisation, electronics and security specifications.

Photocells

The passage of the gate is controlled by means of photocells. In case of activating the cells, the gate will completely open again. The photocells are installed at the guiding posts and end post. At the inside of the site: 60 cm high at the outside of the fence or 25 cm high.

Pressure strips ①

The front of the gate wing is fitted with a pressure strip. The guiding post of the Robusta Bekamatic gate is also fitted with 4 pressure strips: two at the front and two at the back side.

Any contact with the pressure strips immediately stops and reverses the movement of the gate. At the street side one of the pressure strips can be replaced by a Securifor panel system.

Security stop ②

The gates are equipped with a main switch (yellow/red) through which the power supply can be isolated.

Access control

The controls are designed to be adapted to the special demands of the customer.

A choice of multiple access control accessories are installed at the request of the customer: key switch, RF- remote control, key pad, proximity card reader, flashlight on the gate post, digital code keypad, videophone/ parlophone, timer clock, induction loop detector. These elements are installed on the guiding post, the end post, or on a separate column on request.



CE marked

Bekamatic motorized gates are CE marked according to the European directive: Construction products directive (89/106/EC), low voltage directive (73/23/EEG), EMC directive (2004/108/EG), Machine directive (98/37/EG) and type tested according to standard EN 13241-1 for industrial, commercial and garage doors and gates.

