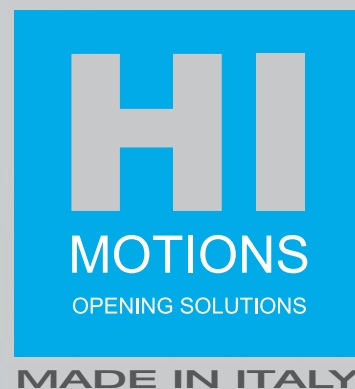




CANTILEVER 2013

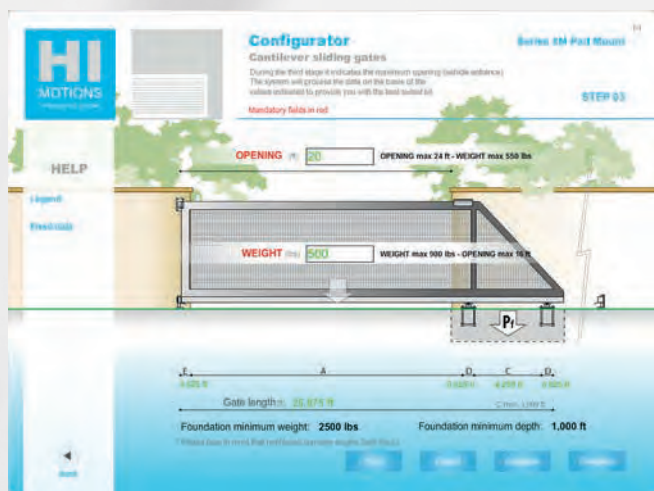
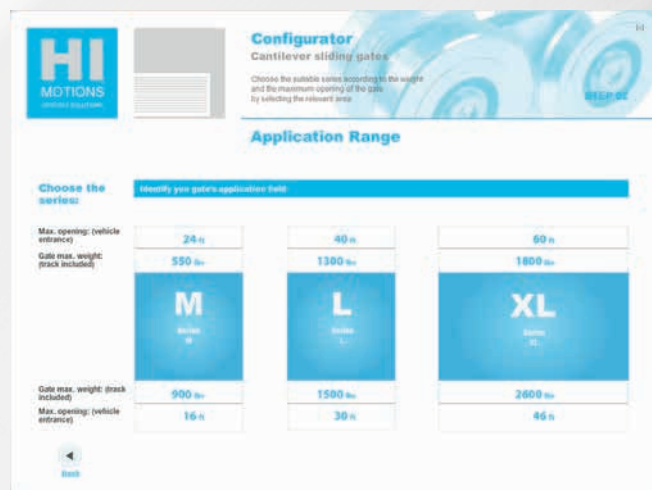
SLIDING GATES



On-line configurator

This configurator aims at being a valuable professional tool offered by HI MOTIONS for all its clients and partners. With this tool, which is easier to use thanks to its step-by-step approach, you can enter data and parameters to easily configure the dimensions of the gate and indicate the related accessories necessary to install it.

www.himotions.com/configuratoreus/





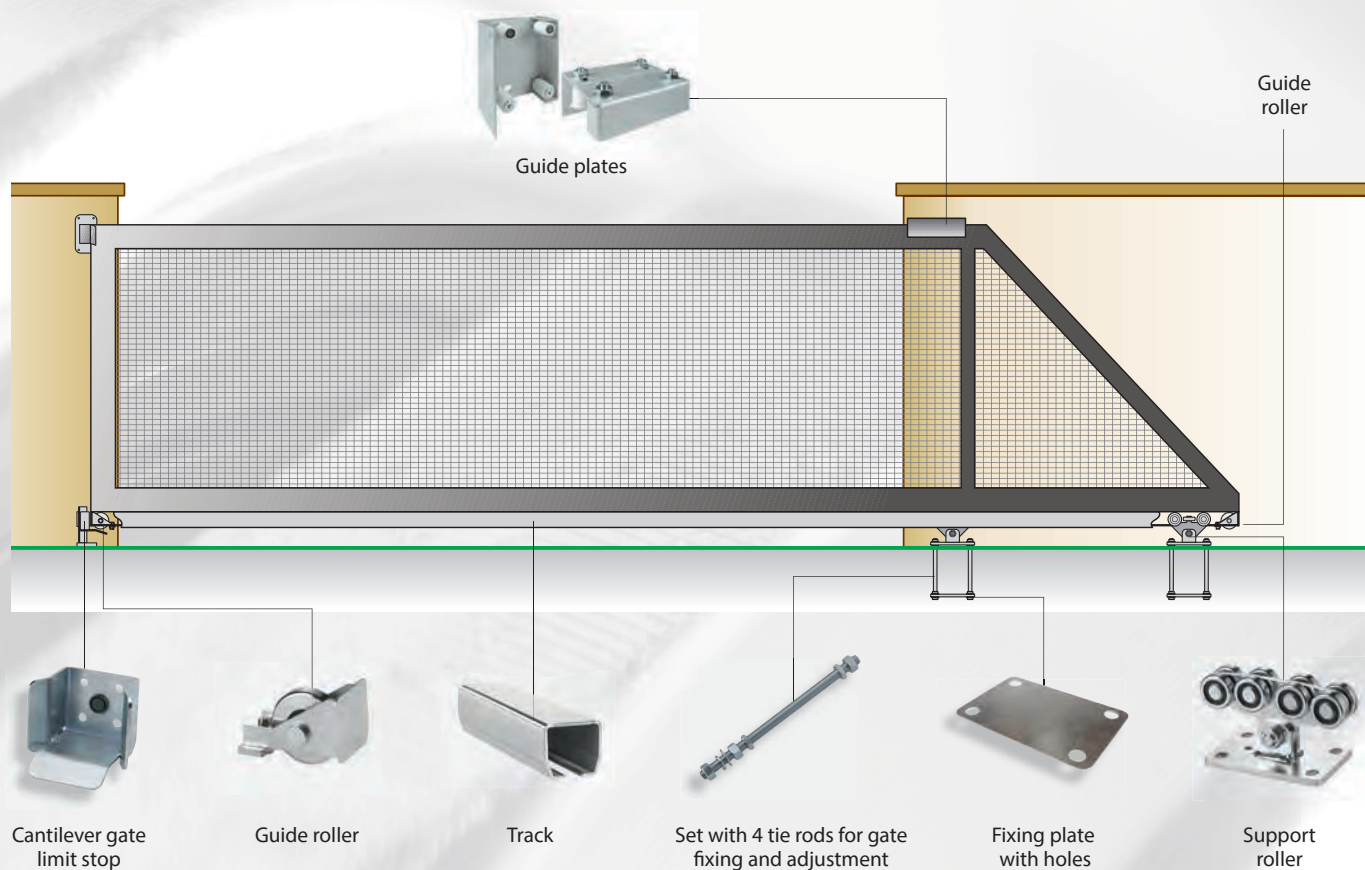
Index

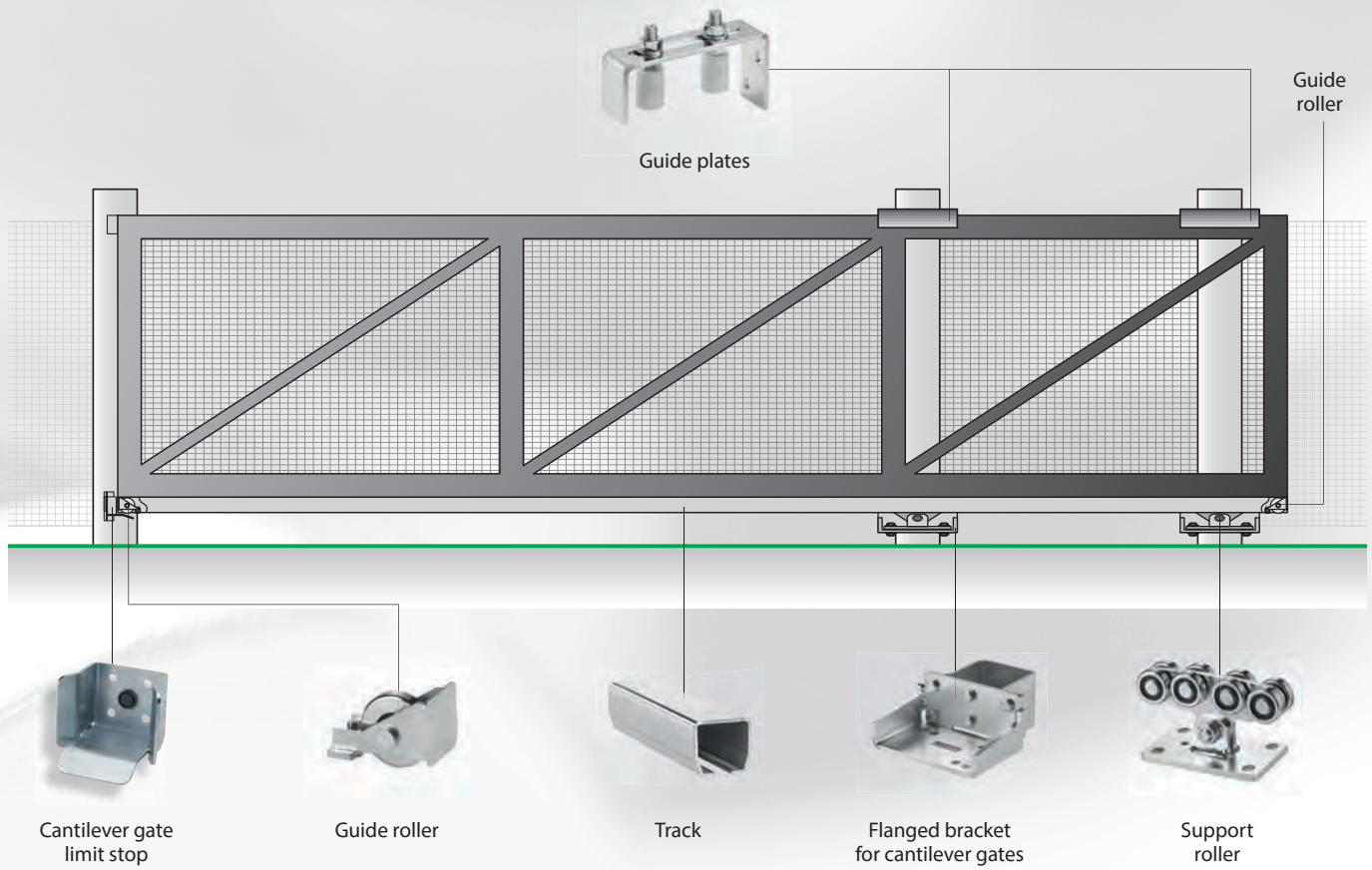
Medium Series	8
Large Series	10
XL Series	12
Guide Plates	14

HI-MOTIONS S.r.l.

The continuous evolution of HI MOTIONS products and the brand's effort to meet the customers' needs, led the company to enlarge and renew the range of accessories for self-bearing gates. This brochure is an update of item descriptions as well as specifications that provide a clearer and more accurate view of this category of accessories, of which the request is always greater. With these products, HI MOTIONS wanted to supply its customers with the utmost flexibility in managing the various application needs: the result is an absolutely complete range of products.

Pad Mount

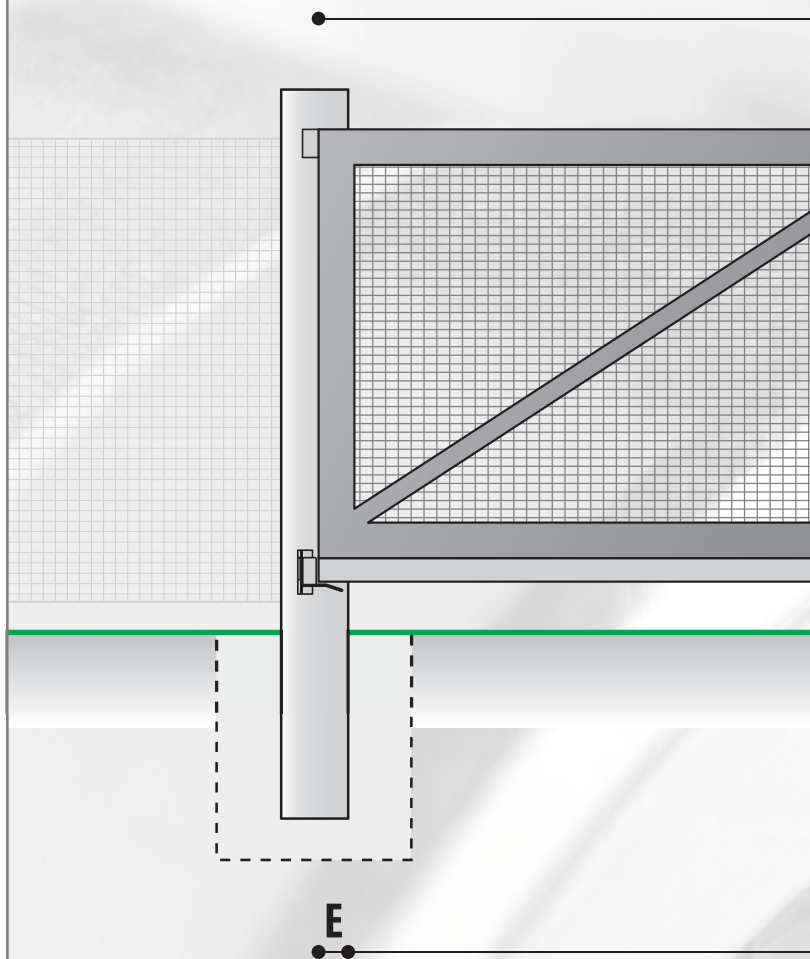




Cantilever gate installation and measurement

Legend

- A** clear opening (ft)
- P** gate weight including track (lbs)
- C** distance between the support rollers centre (lbs)
- D** minimum distance from support roller centre to track end for support roller housing (ft)
- E** minimum space for support wheel positioning (ft)
- L** overall gate length ($L=A+E+C+2xD$) (ft)
- Pf** minimum weight of the foundation to compensate stress on both carriages, produced by cantilevered part (lbs)
(Post mount: allow 50% Pf per post)
- Fmax** max compression load applied (sum of stress on rollers and gate's weight) to any single carriage, when cantilevered part is on its side (lbs)
(Ground type is not considered on calculation on Pf)

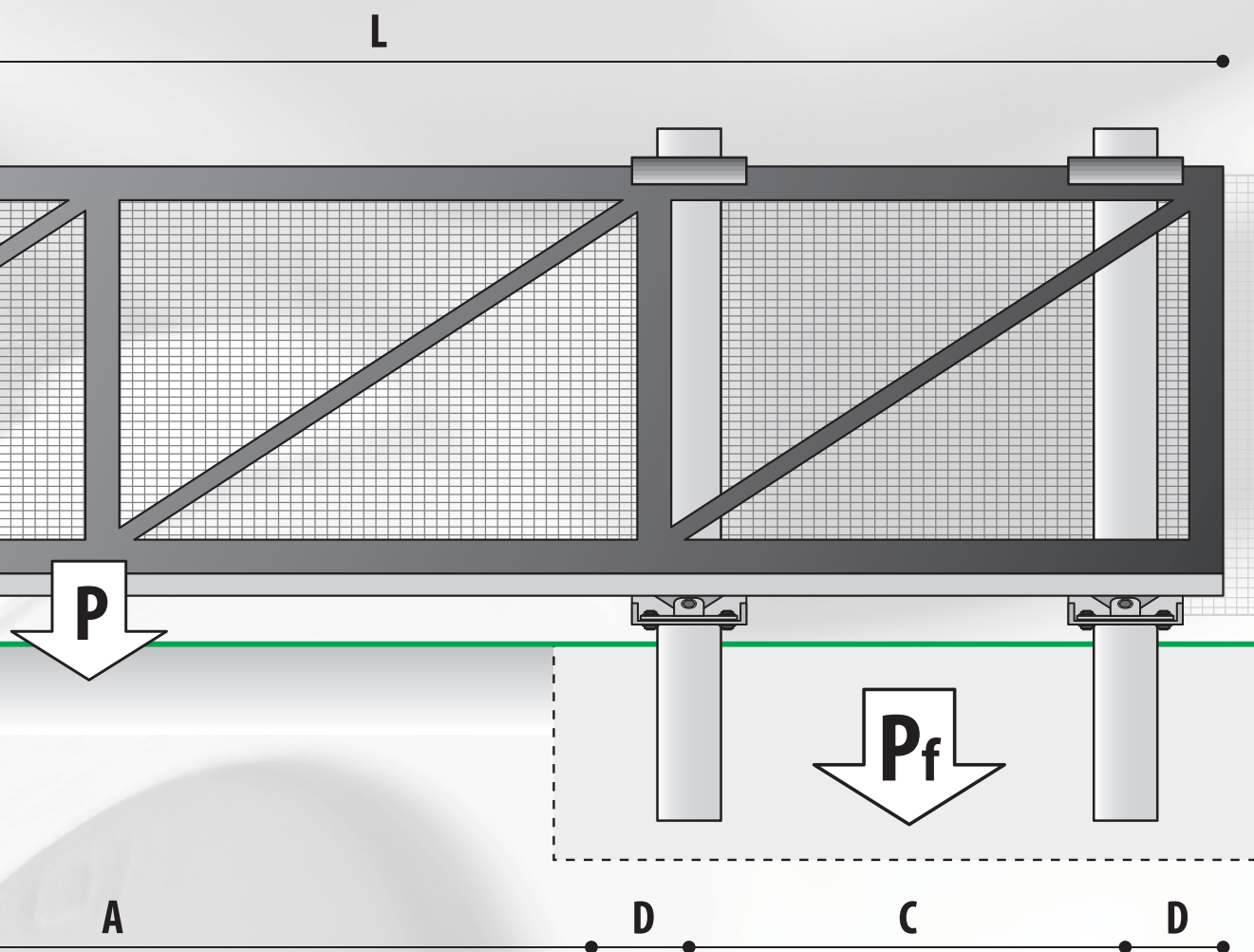


□ Sizing formulas:

$$Pf \geq \frac{Px(0,5xA+D)}{C} \times 2$$

The concrete basis to anchor the load bearing carriers must have a minimum weight higher than the Pf value, taking account that the specific weight is 3400 lbs per cubic yard.

Code	Fmax (lbs)	D (ft)	E (ft)
M	360	0,625	0,375
L	580	1,000	0,500
XL	1170	1,750	0,750



How to choose the right model

M

Amax = 24 ft with P = 550 lbs

Pmax = 900 lbs with A = 16 ft

L

Amax = 40 ft with P = 1300 lbs

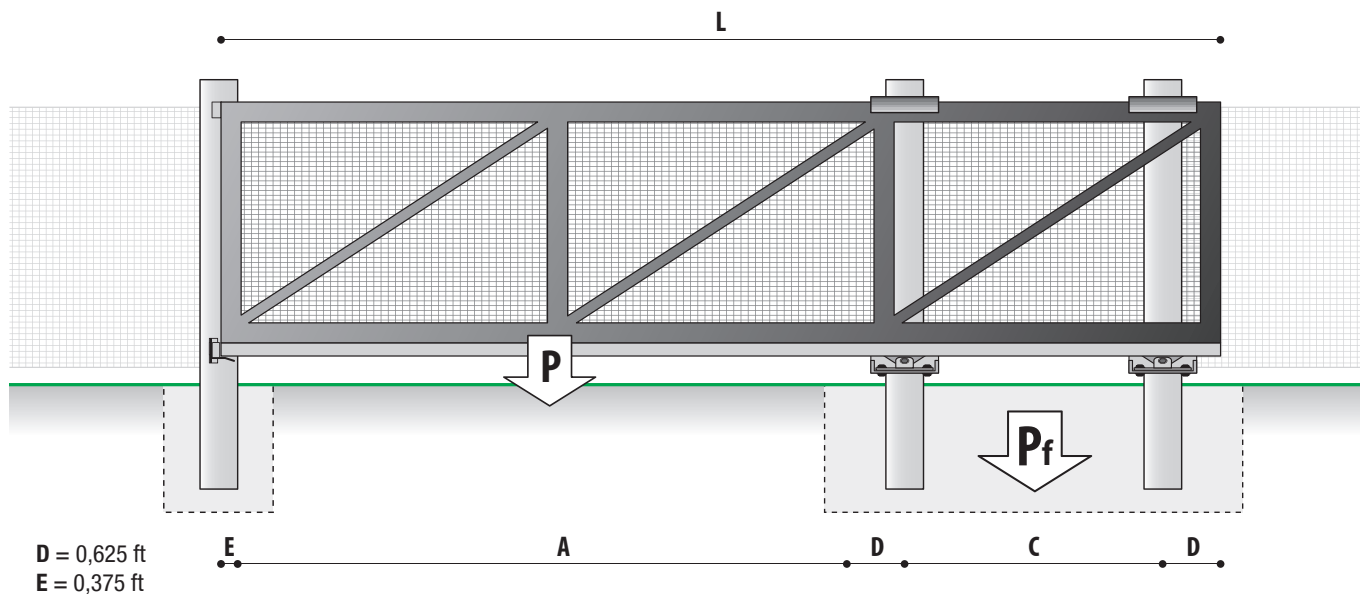
Pmax = 1500 lbs with A = 30 ft

XL

Amax = 60 ft with P = 1800 lbs

Pmax = 2600 lbs with A = 46 ft

Medium Series



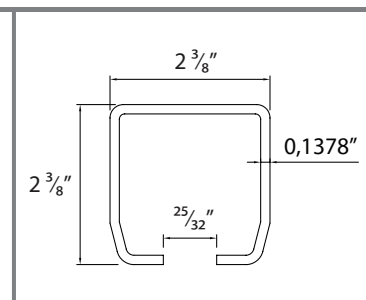
Opening	Gate's weight														
	350 lbs			450 lbs			550 lbs			650 lbs			750 lbs		
A (ft)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)
10,00	1,500	13,125	2800	2,000	13,625	2600	2,625	14,250	2400	3,375	15,000	2200	4,250	15,875	2000
12,00	1,750	13,375	2800	2,375	16,000	2600	3,125	16,750	2400	4,000	17,625	2200	5,000	18,625	2000
14,00	2,000	17,625	2800	2,750	18,375	2600	3,500	19,125	2400	4,625	20,250	2200	5,750	21,375	2000
16,00	2,250	19,875	2800	3,000	20,685	2600	4,000	21,625	2400	5,125	22,750	2200	6,500	24,125	2000
18,00	2,500	22,125	2800	3,375	23,000	2600	4,500	24,125	2400	5,750	25,375	2200	7,250	26,875	2000
20,00	2,750	24,375	2800	3,750	25,375	2600	4,875	26,500	2400	6,375	28,000	2200	8,000	29,625	2000
24,00	3,250	28,750	2800	4,250	29,750	2600	5,750	31,250	2400	7,500	33,000	2200	9,375	34,875	2000

Medium track



Code	L (ft)	Finishing
323.3	10	galvanized
323.6	20	galvanized

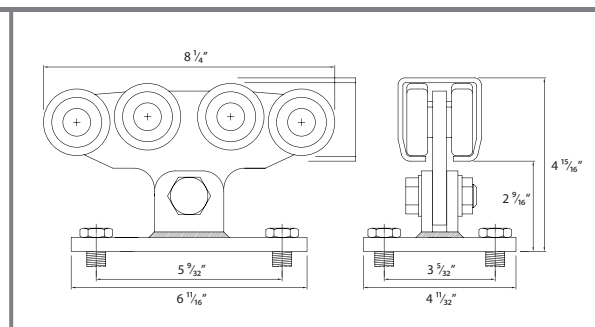
Weight of the track : 3,53 lbs/ft



Support roller Medium



Code	Package
301.8M	2



Set with 4 tie rods for gate fixing and adjustment

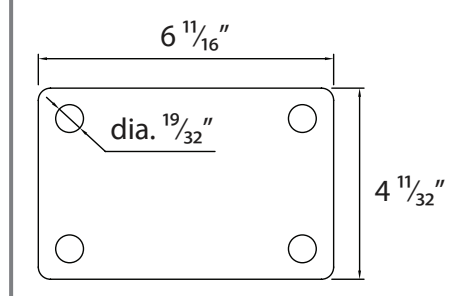


Code	Thread	Length	Package
302.M	M14	10"	1 set (4 pcs)

Fixing plate with holes Medium



Code	Thickness	Package
303.M	1/8"	2

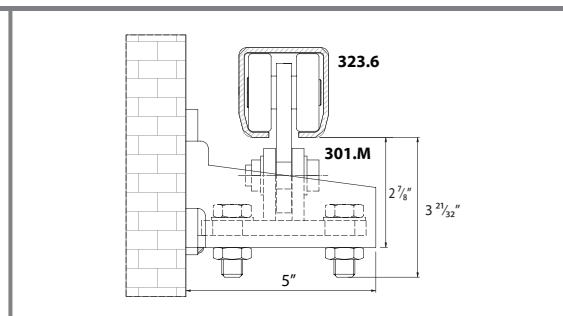


Flanged bracket for cantilever gates



304.MF

Code	Package
304.MF	2



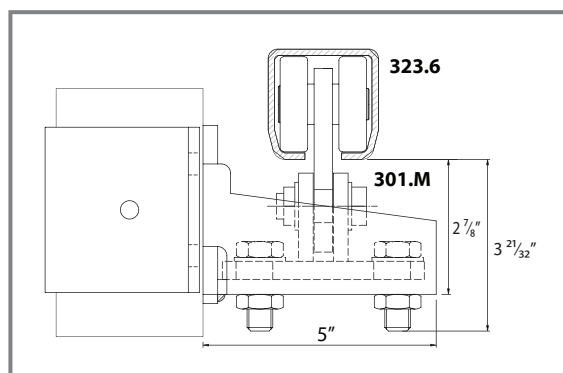
304.M73

304.M80

304.M100

304.M102

Code	Post dimension	Package
304.M73	ø 2 7/8"	2
304.M80	ø 3 5/32"	2
304.M100	ø 3 31/32"	2
304.M102	ø 4"	2
304.M80Q	□ 3 5/32" x 3 5/32"	2
304.M100Q	□ 3 31/32" x 3 31/32"	2
304.M102Q	□ 4" x 4"	2



304.M80Q

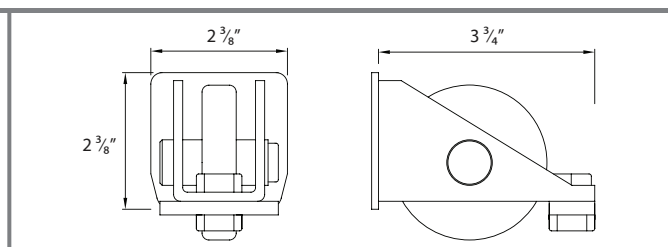
304.M100Q

304.M102Q

Guide roller Medium



Code	Package
307.M	2

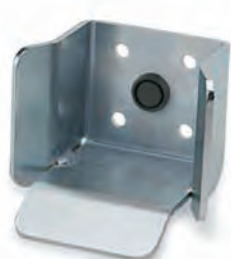


Steel cap for Medium track

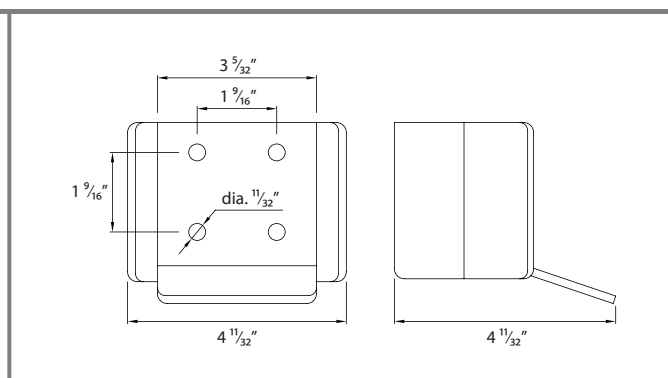


Code	Dimensions	Package
309.M	2 3/8" x 2 3/8"	10

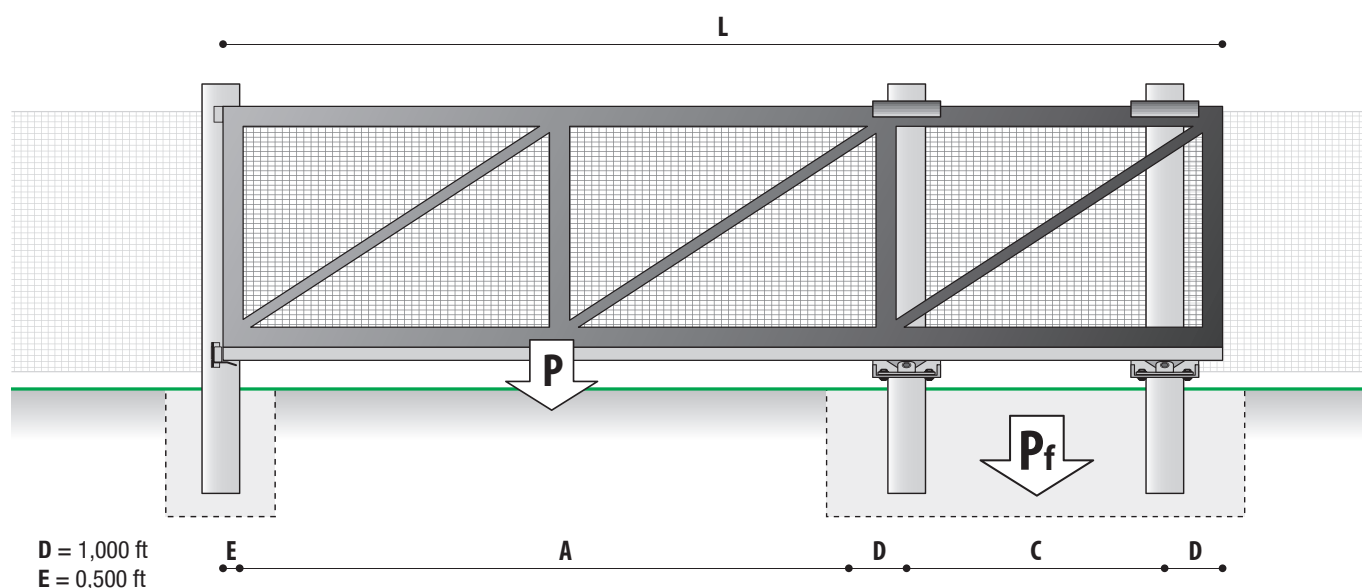
Cantilever gate limit stop Medium



Code	Package
310.M	2

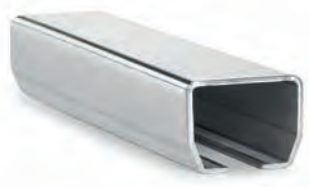


Large Series



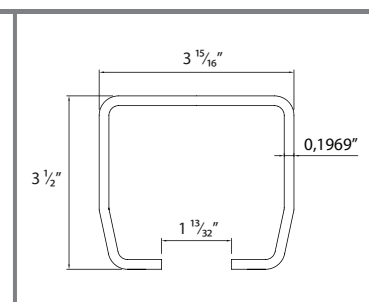
Opening	Gate's weight														
	650 lbs			850 lbs			1100 lbs			1300 lbs			1500 lbs		
A (ft)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)
14,00	2,500	19,000	4300	3,500	20,000	3900	5,175	21,675	3400	7,000	23,500	3000	9,250	25,750	2600
18,00	3,125	23,625	4300	4,375	24,875	3900	6,500	27,000	3400	8,750	29,250	3000	11,625	32,125	2600
22,00	3,750	28,250	4300	5,250	29,750	3900	7,875	32,375	3400	10,500	35,000	3000	13,875	38,375	2600
26,00	4,250	32,750	4300	6,125	34,625	3900	9,125	37,625	3400	12,250	40,750	3000	16,250	44,750	2600
30,00	4,875	37,375	4300	7,000	39,500	3900	10,375	42,875	3400	13,875	43,375	3000	18,500	51,000	2600
34,00	5,500	42,000	4300	7,875	44,375	3900	11,750	48,250	3400	15,625	52,125	3000	XL	XL	XL
38,00	6,125	46,625	4300	8,750	49,250	3900	13,000	53,500	3400	17,375	57,875	3000	XL	XL	XL
40,00	6,375	48,875	4300	9,250	51,750	3900	13,625	56,125	3400	18,250	60,750	3000	XL	XL	XL

Large track



Code	L (ft)	Finishing
328.3	10	galvanized
328.6	20	galvanized

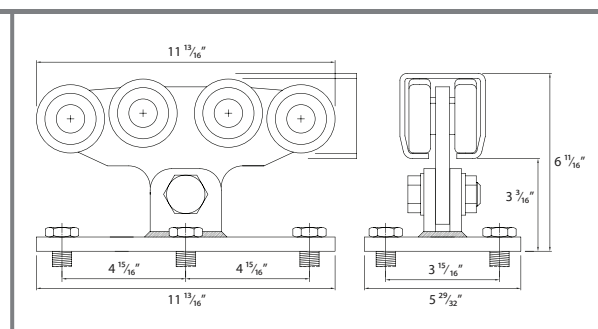
Weight of the track : 7,87 lbs/ft



Support roller Large



Code	Package
301.8L	2

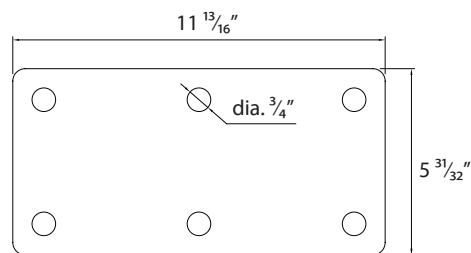


Set tie rods for gate fixing and adjustment



Code	Thread	Length	Package
302.8L	M18	13"	1 set (6 pcs.)

Fixing plate with holes Large



Code	Thickness	Package
303.8L	1/8"	2

Flanged bracket for cantilever gates



304.8LF

Code	Package
304.8LF	2

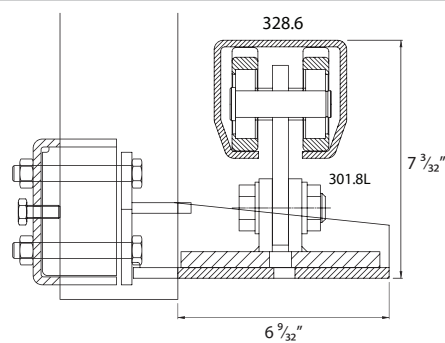
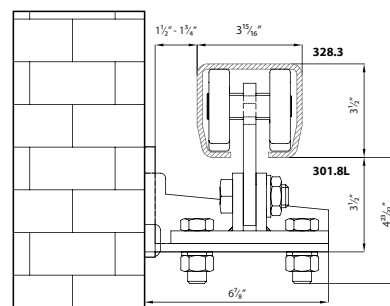


304.8L89Q
304.8L100Q
304.8L102Q

Code	Post dimension	Package
304.8L89	ø 3 1/2"	2
304.8L100	ø 3 3/32"	2
304.8L102	ø 4"	2
304.8L89Q	□ 3 1/2" x 3 1/2"	2
304.8L100Q	□ 3 3/32" x 3 3/32"	2
304.8L102Q	□ 4" x 4"	2



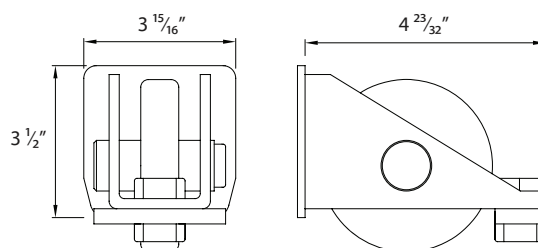
304.8L89
304.8L100
304.8L102



Guide roller Large



Code	Package
307.L	2



Steel cap for Large track

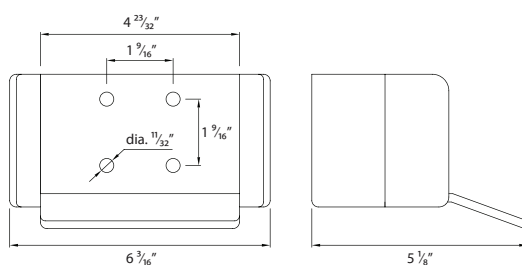


Code	Dimensions	Package
309.L	3 15/16" x 3 1/2"	4

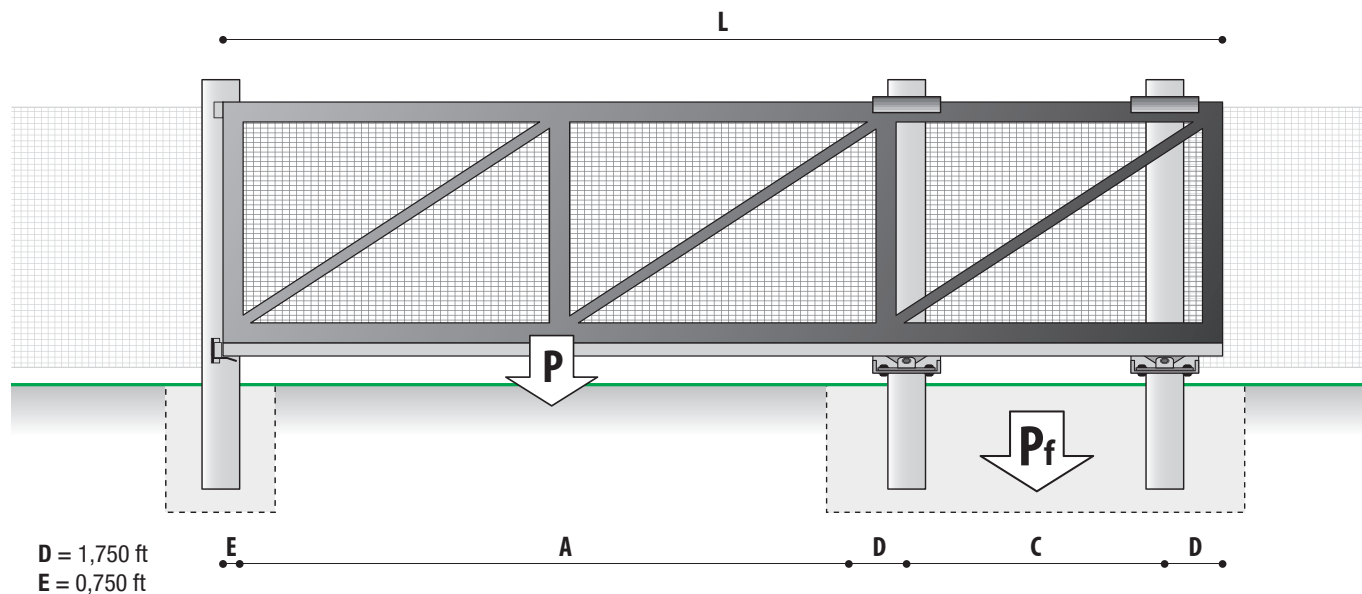
Cantilever gate limit stop Large



Code	Package
310.L	2



XL Series



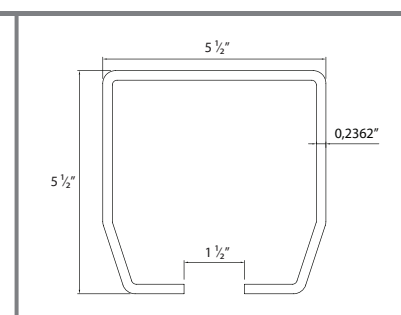
Opening	Gate's weight														
	850 lbs			1300 lbs			1800 lbs			2200 lbs			2600 lbs		
A (ft)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)	C min	L (ft)	Pf (lbs)
14,00	1,625	19,875	9700	2,625	20,875	8800	4,125	22,375	7800	5,500	23,750	7000	7,375	25,625	6200
18,00	2,000	24,250	9700	3,250	25,500	8800	5,000	27,250	7800	6,875	29,125	7000	9,125	31,375	6200
22,00	2,250	28,500	9700	3,875	30,125	8800	6,000	32,250	7800	8,125	34,375	7000	10,750	37,000	6200
26,00	2,625	32,875	9700	4,375	34,625	8800	6,875	37,125	7800	9,375	39,625	7000	12,375	42,625	6200
30,00	3,000	37,250	9700	5,000	39,250	8800	7,750	42,000	7800	10,625	44,875	7000	14,125	48,375	6200
34,00	3,375	41,625	9700	5,625	43,875	8800	8,750	47,000	7800	11,875	50,125	7000	15,750	54,000	6200
38,00	3,750	46,000	9700	6,250	48,500	8800	9,625	51,875	7800	13,125	55,375	7000	17,500	59,750	6200
42,00	4,000	50,250	9700	6,750	53,000	8800	10,500	56,750	7800	14,375	60,625	7000	19,125	63,375	6200
46,00	4,375	54,625	9700	7,375	57,625	8800	11,500	61,750	7800	15,625	65,875	7000	20,875	71,125	6200
50,00	4,500	59,000	9700	8,000	61,250	8800	12,375	66,625	7800	16,875	71,125	7000	-	-	-
55,00	5,125	64,375	9700	8,750	68,000	8800	13,500	72,750	7800	18,500	77,750	7000	-	-	-
60,00	5,625	69,875	9700	9,500	73,750	8800	14,750	79,000	7800	20,000	84,250	7000	-	-	-

XL track



Code	L (ft)	Finishing
333.3	10	galvanized
333.6	20	galvanized

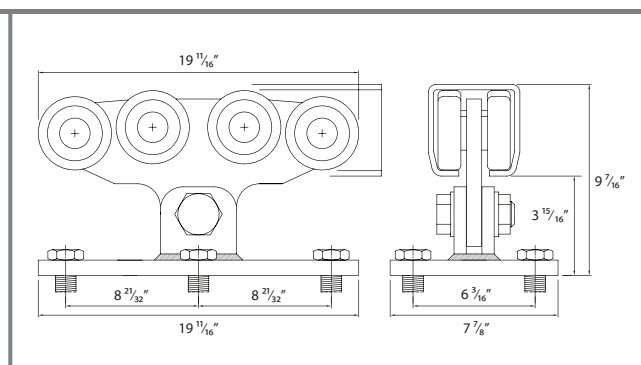
Weight of the track : 14,46 lbs/ft



Support roller XL



Code	Package
301.8XL	1

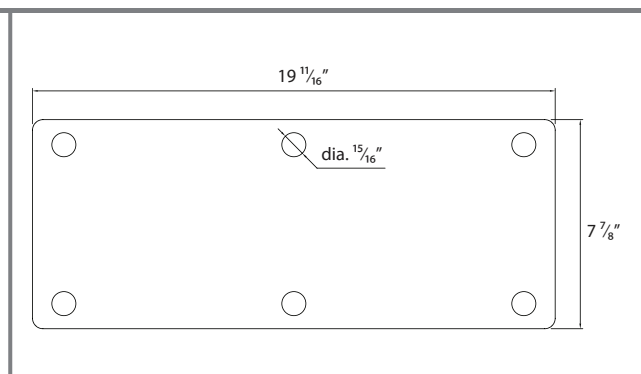


Set tie rods for gate fixing and adjustment



Code	Thread	Length	Package
302.8XL	M22	20"	1 set (6 pcs.)

Fixing plate with holes XL

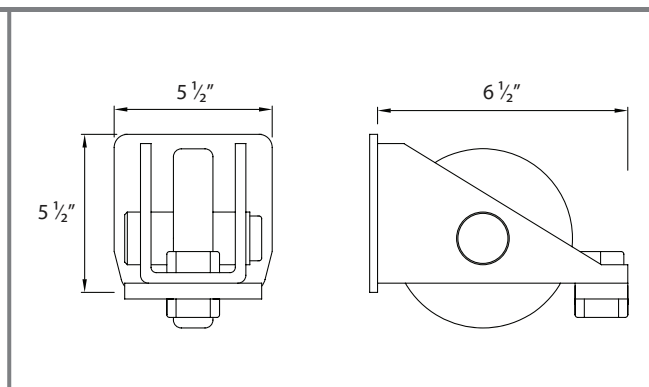


Code	Thickness	Package
303.8XL	5/32"	2

Guide roller XL



Code	Package
307.XL	2



Steel cap for XL track

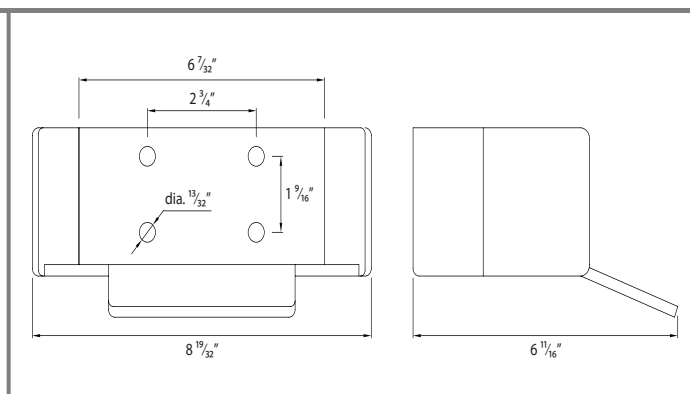


Code	Dimensions	Package
309.XL	5 1/2" x 5 1/2"	4

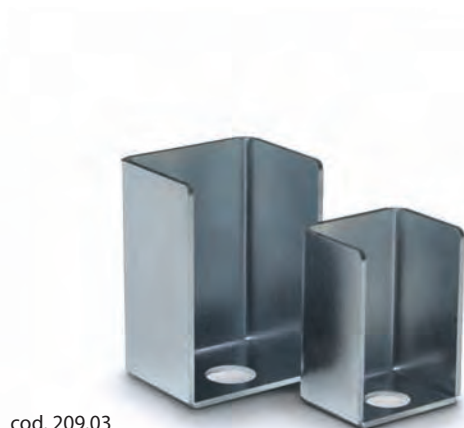
Cantilever gate limit stop XL



Code	Package
310.XL	2

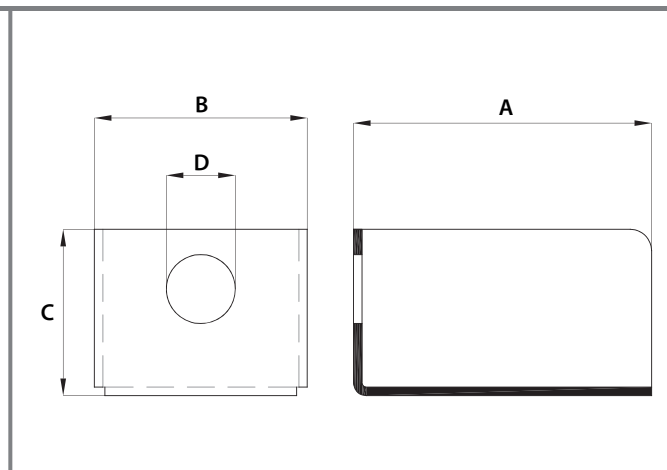


Protection plate for rollers



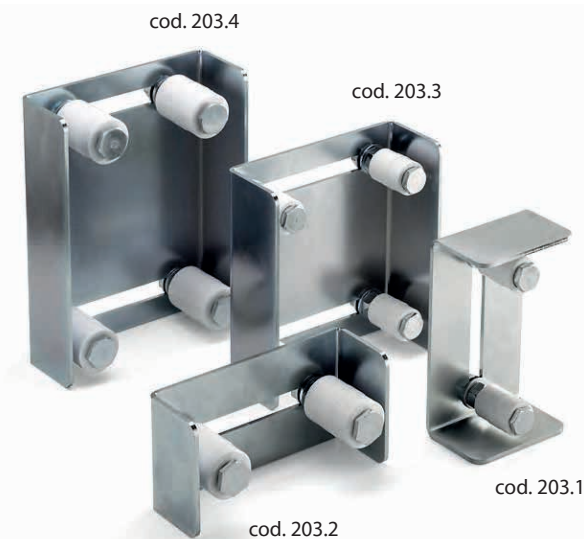
cod. 209.03

cod. 209.02



Code	A	B	C	D	Package
209.02	2 5/32"	1 9/16"	1 1/4"	9/16"	12
209.03	2 3/4"	1 31/32"	1 17/32"	5/8"	12

Guide plates to be welded with long hole for iron columns

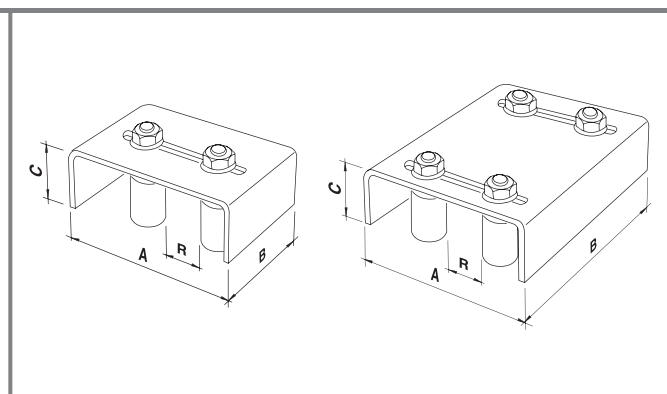


cod. 203.4

cod. 203.3

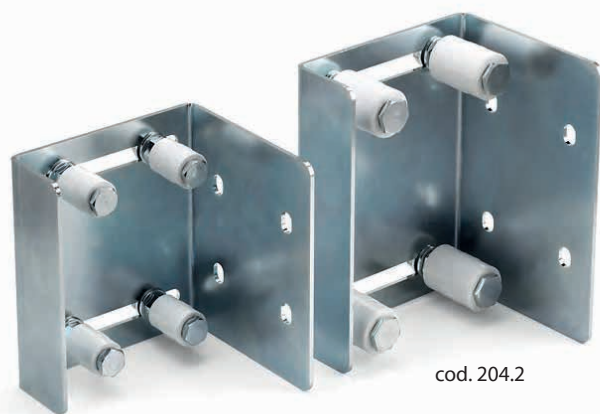
cod. 203.1

cod. 203.2



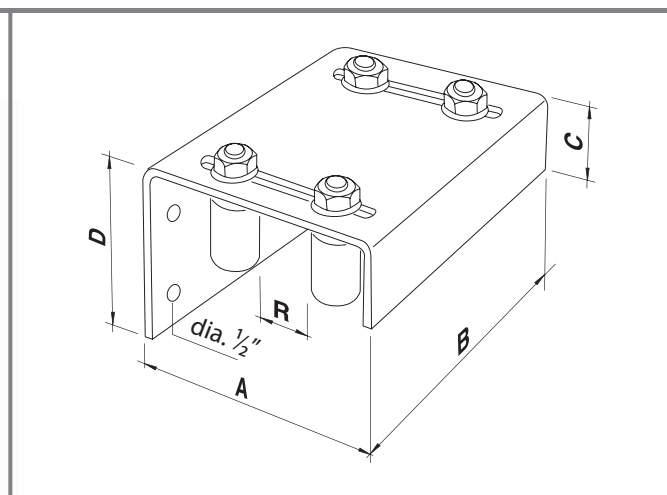
Code	A	B	C	R min÷max	n° rollers	Package
203.1	7 1/16"	3 31/32"	2 9/16"	1 3/16" ÷ 3 31/32"	2-Ø 1 3/16"	4
203.2	7 15/32"	3 31/32"	2 9/16"	1 9/16" ÷ 3 5/32"	2-Ø 1 21/32"	4
203.3	7 1/16"	7 7/8"	2 3/4"	1 3/16" ÷ 3 31/32"	4-Ø 1 3/16"	4
203.4	7 15/32"	9 27/32"	2 3/4"	1 9/16" ÷ 3 5/32"	4-Ø 1 21/32"	4

Guide plates to be fixed with long hole



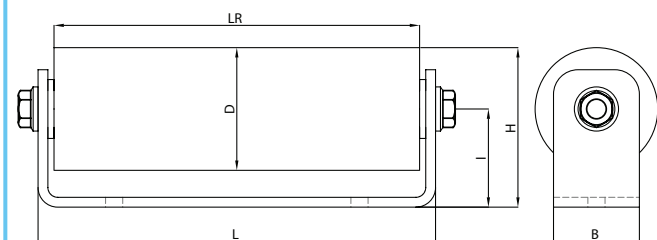
cod. 204.1

cod. 204.2



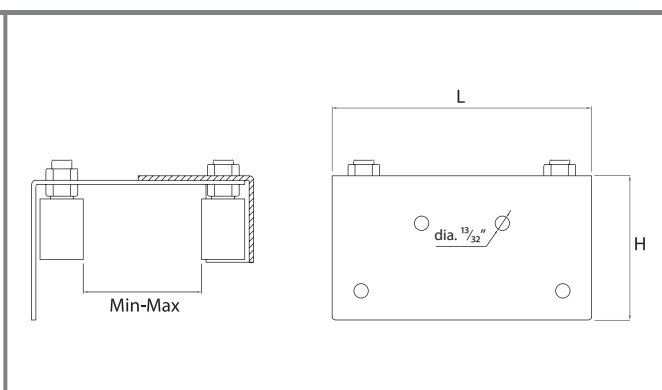
Code	A	B	C	D	R min÷max	n° rollers	Package
204.1	7 1/16"	7 7/8"	2 3/4"	6 5/32"	1 3/16" ÷ 3 31/32"	4-Ø 1 3/16"	4
204.2	7 15/32"	9 27/32"	2 3/4"	6 5/32"	1 9/16" ÷ 3 5/32"	4-Ø 1 21/32"	4

Rubber NBR Sh80 guide roller



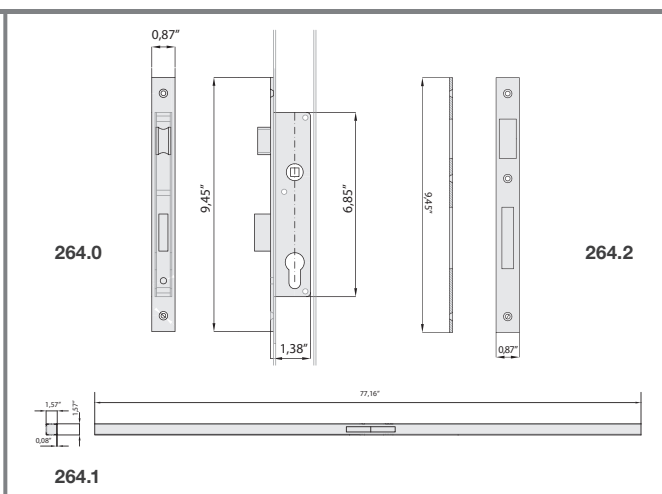
Code	D	LR	L	H	B	I	Package
225.03	1 31/32"	2 31/32"	3 7/16"	2 9/16"	1 3/8"	1 9/16"	8
225.06	1 31/32"	5 29/32"	6 3/8"	2 9/16"	1 3/8"	1 9/16"	4
225.12	1 31/32"	11 13/16"	12 9/32"	2 9/16"	1 3/8"	1 9/16"	8

Adjustable guide plates to be fixed



Code	Min÷Max	L	H	Package
208.1	1 9/16" ÷ 3 5/32"	7 1/16"	3 31/32"	2
208.2	3 5/32" ÷ 4 23/32"	11 1/32"	6 9/32"	2

Lock kit for square post



Code	Finish	Package
264.0	Lock for 1,5" square post	1
264.05	Lock for 2" square post	1
264.1	1,5" x 1,5" x 0,08" Post - 6,4ft long	1
264.15	2" x 2" x 0,08" Post - 6,4ft long	1
264.2	Counter Plate	1



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