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We offer you the widest range of fittings for sliding doors

MANTION HAS AN INTERNATIONAL REPUTATION BASED ON :

Innovation and a permanent adaptation of its range of products to its customers' needs. A quality product, which meets the requirements of the strictest standards.

THE MANTION KNOW-HOW MEANS BEFORE ALL :

Its team : people with experience and great skills who do their best to keep bringing you the best service.

Its permanent investment policy combined to the newest technologies.

WITH MANTION, YOU BENEFIT FROM A TOP QUALITY SERVICE :

Salesmen who listen to your needs and advise you. A strong technical support : an engineering department and technical advisers at your disposal. The study and the development of special products upon request.

Very short delivery time.

Very high quality products.

MANTION, IT IS ALSO A COMPLETE RANGE OF :

Fittings for sliding and folding doors.

Fittings for sectional and lateral displacement doors.

Fittings for glass doors.

Fittings in stainless steel quality A2 and A4.



Since **MANTION** has always cared about bringing you the best services within its organization and quality for its products, it is now up to standard :

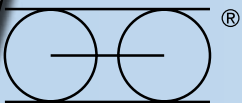
ISO EN ISO 9001 : 2008

ISO EN ISO 14001 : 2004



QUALITY TRACKS

MANTION manufactures its tracks at its factory in Besançon according to its own production process. This ensures a long durability and an optimal reliability of its hardware products.



CANTILEVER GATES



BOTTOM SLIDING GATES



GATES MOUNTED ON PIVOTS



CANTILEVER GATES

6

Aluminium gates, carriages and accessories	7
Steel gates, proposed structures	8
Tracks and carriages for steel cantilever gates	14
Gear for steel cantilever gates	16

BOTTOM SLIDING GATES

17

Cast iron wheels on round or square tracks	17
Ground fixing tracks - screwing and sealing type	17
Steel wheels on round or triangular tracks	18
Carriages with internal or external plates	19
Kit for bottom sliding gates	20
Stainless steel range, tracks and carriages	21
Locks, handles and racks	22
Guides, square steel pillar covers and stoppers	24

GATES MOUNTED ON PIVOTS

25

Adjustable pivots and hinges	25
Pivots with ball bearings	27
Pivots, invisible door closer	28
Accessories	29

THE MANTION RANGES

30

INDEX

31



DESCRIPTION :

There is no track on the ground.

The tubular track is either welded or screwed to the gate.

The gate slides on two carriages, which are fixed on a concrete block located on the push back side.

According to the opening position of the gate, the carriages are in contact with either the upper or the lower part of the track to ensure a perfect balance.

The wheels are in constant contact with the top and the bottom of the track limiting the clearance to a minimum (PAF series).

PAF series carriages are strongly recommended for motorized gates.



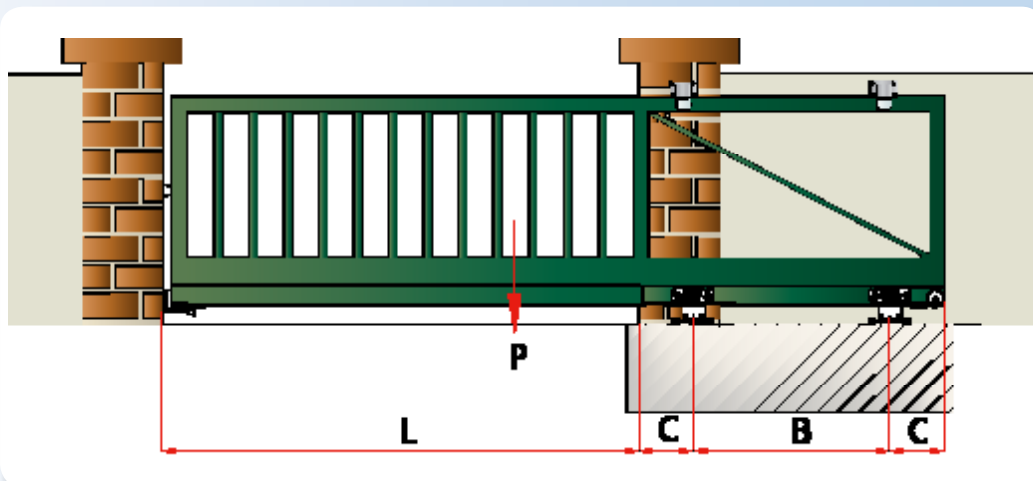
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SIZE YOUR GATE TO SUITE YOUR
SETUP WITH OUR SLIDESOFT®
CALCULATION SOFTWARE ON :

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AVANTAGES :

- No track on the ground.
- No concrete tie-beam is required to install or support the track.
- The only construction work consists in the concrete block.
- No risk of wear or deformation of the track due to the passage of lorries.
- No risk of ground deformation due to the weather changes.
- No obstruction of the track trough dust, gravel, stone chips ...
- The gate can be installed on a non-stabilized ground (grass, gravel, mould...).
- The ground can be not perfectly horizontal.



DIMENSIONS OF THE CONCRETE BLOCK :

Length = shaft center distance
 $B + 1 \text{ m}$ (50 cm on each side)

Width = 50 cm

Depth = 80 cm

CARRIAGE SELECTION BASED ON THE TOTAL GATE WEIGHT AND THE OPENING WIDTH

Total weight of the gate	Opening width L						
	3 m.	3,5 m.	4 m.	4,5 m.	5 m.	5,50 m.	6 m.
80 kg	9952N	9952N	9952N	9962N	9962N		
130 kg	9962N	9962N	9962N	9962N	9962N	9968N	9968N
160 kg	9958N	9958N	9958N	9958N	9968N	9968N	9968N
250 kg	9968N	9968N	9968N	9968N	9968N	9968N	9968N

POSITIONS OF THE CARRIAGES

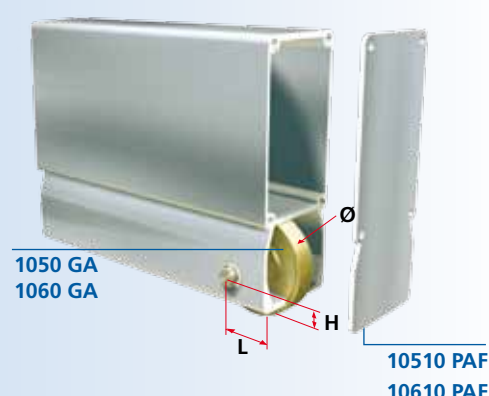
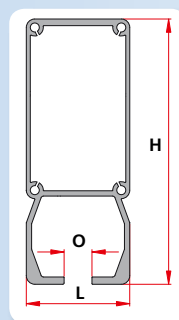
Item Nr	Opening width (m)	Dimension C (m)	Item Nr	Opening width (m)	Dimension C (m)
9952 N	4	0,190	9958 N	4,5	0,280
9962 N	5	0,205	9968 N	6	0,295

ALUMINIUM TRACKS

Item Nr	Material	Length	Weight	L	H	O
10500 PAF6	Aluminium	6 m	29 Kg	65	150	17
10600 PAF6	Aluminium	6 m	39 Kg	80	200	21
10600 PAF9	Aluminium	9 m	58 Kg			

ACCESSORIES FOR ALUMINIUM TRACKS

10510 PAF	Aluminium ornamental cap for track 10500 PAF Screwing type.
10610 PAF	Aluminium ornamental cap for track 10600 PAF Screwing type.
1050 GA	End wheel for track 10500 PAF composed of 1 shaft, 2 spacers, 2 circlips and 1 steel wheel.
1060 GA	End wheel for track 10600 PAF composed of 1 shaft, 2 spacers, 2 circlips and 1 steel wheel.
1060 E	Bottom end guide for track 9060 and 10500 PAF.
1070 E	Bottom end guide for track 9070 and 10600 PAF.



1060 E/1070 E

Ø14,5 MM HOLES POSITION FOR ITEMS 1050 GA AND 1060 GA			
Item Nr	L	H	Ø
10500 PAF	33 mm	17 mm	60 mm
10600 PAF	38 mm	20 mm	69 mm

SINGLE CARRIAGE FOR ALUMINIUM TRACKS

9952 N	Carriage with polyamide wheels mounted on high-precision ball bearings. For track : 10500 PAF
9962 N	Carriage with polyamide wheels mounted on high-precision ball bearings. For track : 10600 PAF

DOUBLE CARRIAGES FOR ALUMINIUM TRACKS

9958 N	Carriage with polyamide wheels mounted on high-precision ball bearings. For track : 10500 PAF
9968 N	Carriage with polyamide wheels mounted on high-precision ball bearings. For track : 10600 PAF



9958 N/9968 N



9952 N/9962 N

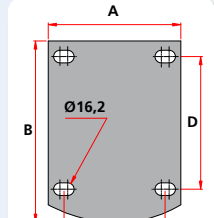
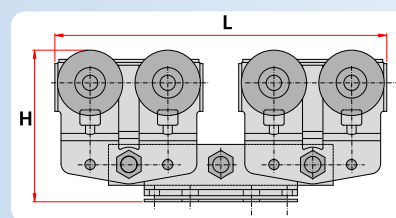
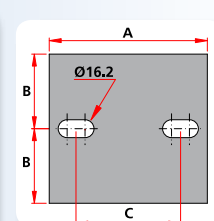
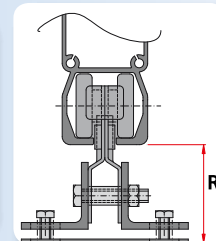
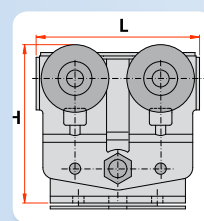
DIMENSIONAL CHARACTERISTICS

SINGLE CARRIAGES FOR ALUMINIUM TRACKS

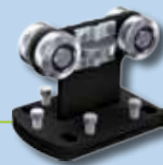
Item Nr	L	H	I	R	A	B	C	D
9952 N	120	120	125	74	125	50	89	-
9962 N	145	140	150	81	150	60	110	-

DOUBLE CARRIAGES FOR ALUMINIUM TRACKS

Item Nr	L	H	I	R	A	B	C	D
9958 N	300	140	150	83	150	150	110	60
9968 N	325	145	150	83	150	150	110	60

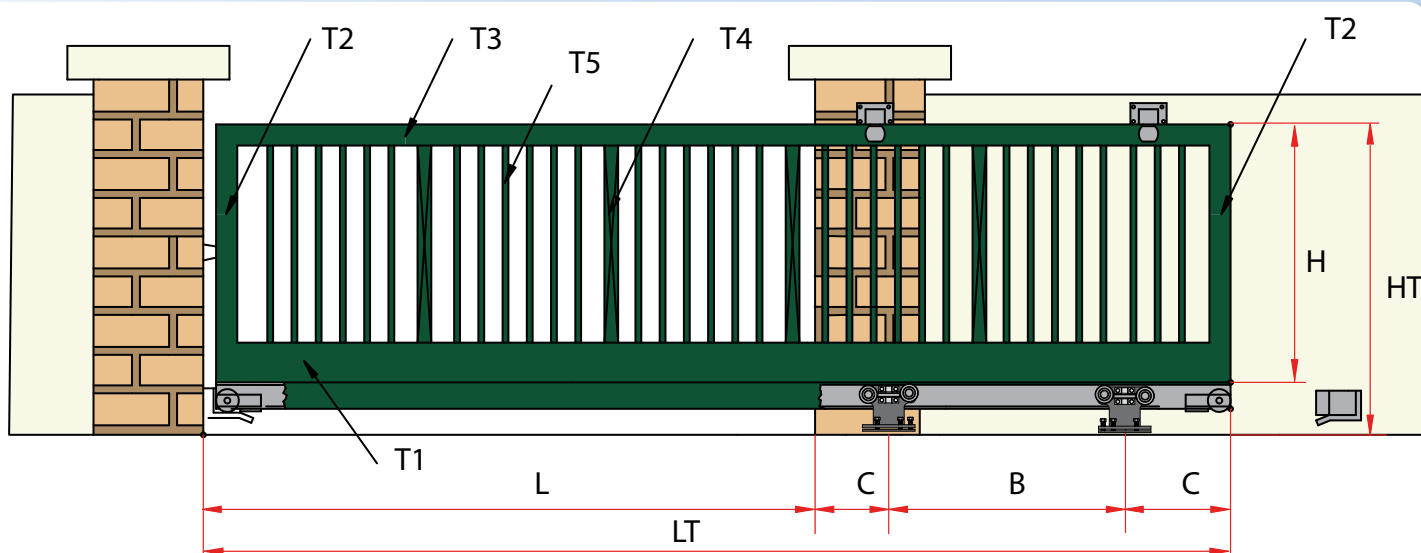


PROPOSED STRUCTURES FOR GATES FROM 3 TO 5.50 M OPENING WIDTH



see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
3	1,00	0,9	4.37	0.9	240	9952PAF	90	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	116
	1,10	1	4.37	0.9	240	9952PAF	95	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	121
	1,20	1,1	4.37	0.9	240	9952PAF	99	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	125
	1,30	1,2	4.37	0.9	240	9952PAF	104	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	130
	1,40	1,3	4.37	0.9	240	9952PAF	109	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	135
	1,50	1,4	4.37	0.9	240	9952PAF	113	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	139
3,5	1,00	0,9	5.02	1.05	240	9952PAF	103	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	133
	1,10	1	5.02	1.05	240	9952PAF	108	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	138
	1,20	1,1	5.02	1.05	240	9952PAF	113	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	143
	1,30	1,2	5.02	1.05	240	9952PAF	119	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	149
	1,40	1,3	5.02	1.05	240	9952PAF	124	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	154
	1,50	1,4	5.04	1.07	240	9952PAF	129	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	159
4	1,00	0,9	5.67	1.20	240	9952PAF	116	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	150
	1,10	1	5.67	1.20	240	9952PAF	122	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	156
	1,20	1,1	5.70	1.23	240	9952PAF	128	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	162
	1,30	1,2	5.78	1.31	240	9952PAF	134	60x60x3	60x60x3	60x60x3	20x20x2	44	x	x	168
	1,40	1,3	5.86	1.39	240	9952PAF	140	60x60x3	60x60x3	60x60x3	20x20x2	44	x	x	175
	1,50	1,4	5.95	1.48	240	9952PAF	146	60x60x3	60x60x3	60x60x3	20x20x2	45	x	x	181
4,5	1,00	0,9	6.62	1.65	240	9952PAF	144	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	183
	1,00	0,9	6.47	1.35	310	9958PAF	144	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	182
	1,20	1,08	6.47	1.35	310	9958PAF	160	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	199
	1,40	1,28	6.47	1.35	310	9958PAF	172	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	210
	1,60	1,48	6.52	1.40	310	9958PAF	192	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	226
5	1,00	0,88	7.16	1.54	310	9958PAF	189	80x80x3	80x80x3	80x80x3	25x25x2	51	40x40x2	4	227
	1,20	1,08	7.40	1.78	310	9958PAF	209	80x80x3	80x80x3	80x80x3	25x25x2	54	40x40x2	4	249
	1,40	1,28	7.67	2.05	310	9958PAF	229	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	271
	1,40	1,24	7.02	1.50	260	9962PAF	205	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	271
	1,60	1,48	7.02	2.35	260	9962PAF	231	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	291
	1,80	1,64	7.02	1.50	260	9962PAF	247	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	307
	2,00	1,84	7.06	1.55	260	9962PAF	271	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	331
5,5	1,20	1,04	7.67	1.65	260	9962PAF	207	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	273
	1,40	1,24	7.67	1.65	260	9962PAF	229	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	295
	1,60	1,44	7.67	1.65	260	9962PAF	250	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	316
	1,80	1,64	7.73	1.71	260	9962PAF	269	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	334
	2,00	1,84	7.96	1.94	260	9962PAF	294	80x80x3	80x80x3	80x80x3	25x25x2	56	40x40x2	4	362

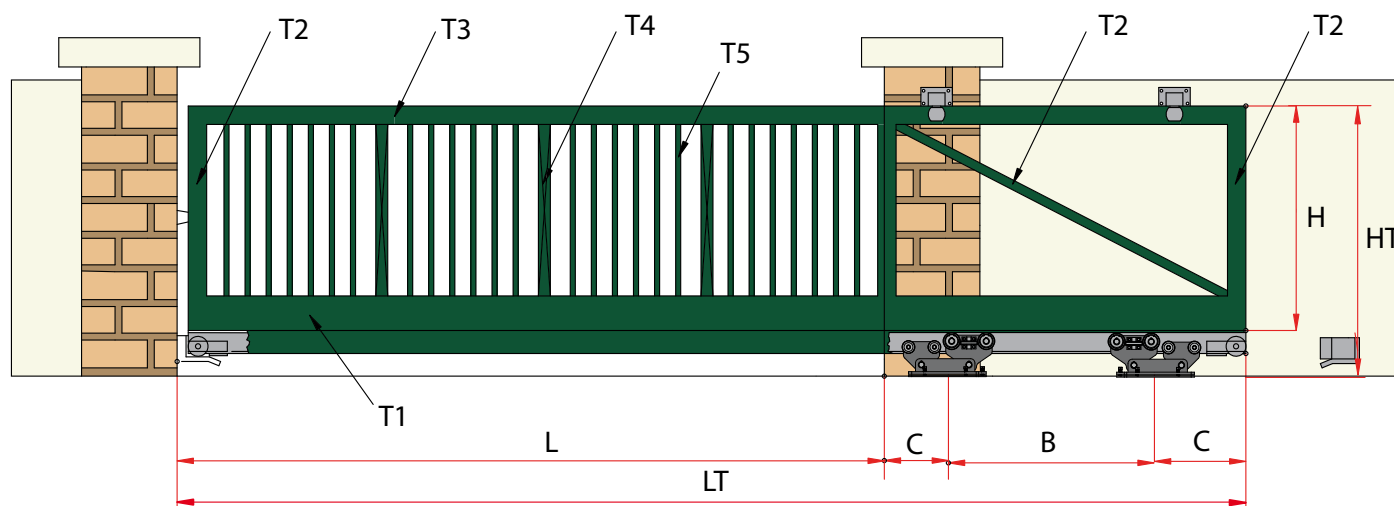


PROPOSED STRUCTURES FOR GATES FROM 6 TO 8.5 M OPENING WIDTH

see carriages dimensions on pages 14 and 15



Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Renfort digital T2	Higher beam T3	Bar T5	Qty	Internal support T4	Qty	Total Weight included track
6	1,20	1,04	8.32	1.80	260	9962PAF	227	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	298
	1,40	1,24	8.32	1.80	260	9962PAF	250	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	321
	1,60	1,44	8.47	1.96	260	9962PAF	274	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	346
	1,80	1,64	8.96	2.45	260	9962PAF	319	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	396
	2,00	1,84	8.50	1.80	350	9968PAF	360	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	433
6,5	1,20	1,04	8.97	1.95	260	9962PAF	243	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	320
	1,40	1,24	9.13	2.11	260	9962PAF	269	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	347
	1,60	1,44	9.15	1.95	350	9968PAF	320	120x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	399
	1,80	1,64	9.15	1.95	350	9968PAF	348	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	45	40x40x2	4	427
	2,00	1,84	9.15	1.95	350	9968PAF	375	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	45	40x40x2	4	454
7	1,20	1,04	10.03	2.51	260	9962PAF	284	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	370
	1,20	1,04	9.80	2.10	350	9968PAF	274	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	358
	1,40	1,24	9.80	2.10	350	9968PAF	303	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	387
	1,60	1,44	9.80	2.10	350	9968PAF	332	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	416
	1,80	1,64	9.80	2.10	350	9968PAF	372	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	48	40x40x2	4	456
	2,00	1,84	9.80	2.10	350	9968PAF	401	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	48	40x40x2	4	485
7,5	1,20	1,04	10.45	2.25	350	9968PAF	294	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	384
	1,40	1,24	10.45	2.25	350	9968PAF	325	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	415
	1,60	1,44	10.45	2.25	350	9968PAF	356	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	446
	1,80	1,64	10.45	2.25	350	9968PAF	399	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	489
	2,00	1,84	10.45	2.25	350	9968PAF	430	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	520
8	1,20	1,04	11.10	2.40	350	9968PAF	319	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	414
	1,40	1,24	11.10	2.40	350	9968PAF	351	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	446
	1,60	1,44	11.10	2.40	350	9968PAF	384	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	479
	1,80	1,64	11.10	2.40	350	9968PAF	430	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	525
	2,00	1,84	11.10	2.40	350	9968PAF	462	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	557
8,5	1,20	1,04	11.75	2.55	350	9968PAF	339	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	440
	1,40	1,24	11.75	2.55	350	9968PAF	373	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	474
	1,60	1,44	11.75	2.55	350	9968PAF	408	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	509
	1,80	1,64	11.75	2.55	350	9968PAF	457	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	558
	2,00	1,84	11.75	2.55	350	9968PAF	492	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	593

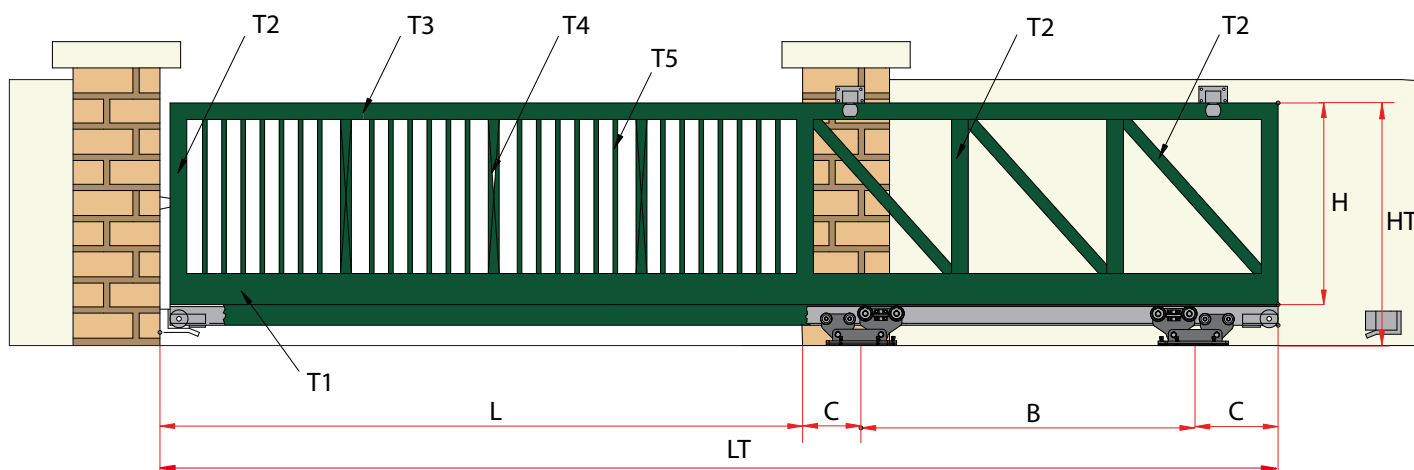




PROPOSED STRUCTURES FOR GATES FROM 9 TO 10.50 M OPENING WIDTH

see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Diagonal support T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
9	1,30	1,14	12.40	2.70	350	9968PAF	492	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	598
	1,40	1,24	12.51	2.80	350	9968PAF	618	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	623
	1,60	1,44	12.89	3.19	350	9968PAF	585	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	686
	1,60	1,39	12.45	2.70	380	9978PAF	561	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	748
	1,80	1,59	12.45	2.70	380	9978PAF	616	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	803
	2,00	1,79	12.45	2.70	380	9978PAF	664	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	851
9,5	1,30	1,09	13.10	2.85	380	9978PAF	524	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	721
	1,40	1,19	13.10	2.85	380	9978PAF	550	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	747
	1,60	1,39	13.10	2.85	380	9978PAF	602	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	799
	1,80	1,59	13.10	2.85	380	9978PAF	664	180x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	861
	2,00	1,79	13.10	2.85	380	9978PAF	766	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	60	60x60x3	7	963
10	1,40	1,19	13.75	3	380	9978PAF	654	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	860
	1,50	1,29	13.75	3	380	9978PAF	682	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	888
	1,60	1,39	13.75	3	380	9978PAF	711	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	917
	1,80	1,59	13.75	3	380	9978PAF	778	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	984
	2,00	1,79	13.75	3	380	9978PAF	835	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	62	80x80x3	7	1041
10,5	1,4	1,19	14.40	3.15	380	9978PAF	683	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	899
	1,5	1,29	14.40	3.15	380	9978PAF	713	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	929
	1,6	1,39	14.40	3.15	380	9978PAF	742	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	958
	1,8	1,59	14.40	3.15	380	9978PAF	813	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1029
	2	1,79	14.58	3.33	380	9978PAF	871	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1090



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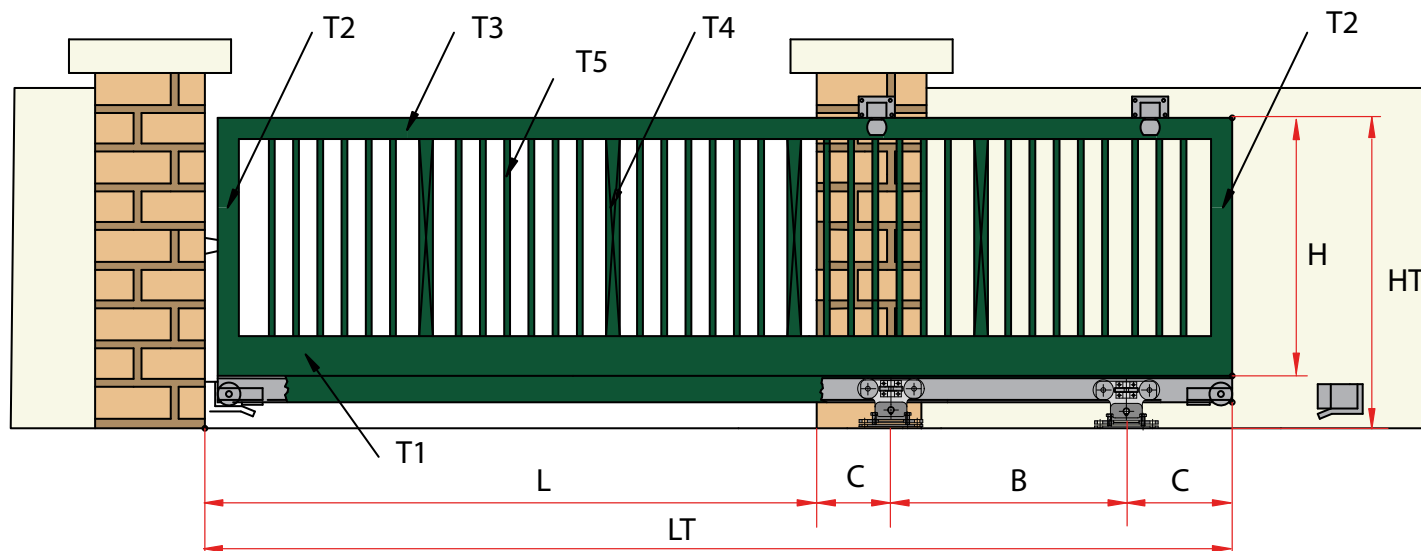


PROPOSED STRUCTURES FOR GATES FROM 3 TO 5.50 M OPENING WIDTH

see carriages dimensions on pages 14 and 15



Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
3	1,00	0,9	4.46	0.9	280	9952S	77	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	103
	1,10	1	4.46	0.9	280	9952S	81	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	107
	1,20	1,1	4.46	0.9	280	9952S	86	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	112
	1,30	1,2	4.46	0.9	280	9952S	91	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	117
	1,40	1,3	4.46	0.9	280	9952S	95	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	121
	1,50	1,4	4.46	0.9	280	9952S	100	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	126
3,5	1,00	0,9	5.11	1.05	280	9952S	88	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	118
	1,10	1	5.11	1.05	280	9952S	93	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	123
	1,20	1,1	5.11	1.05	280	9952S	98	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	128
	1,30	1,2	5.11	1.05	280	9952S	103	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	133
	1,40	1,3	5.11	1.05	280	9952S	109	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	139
	1,50	1,4	5.11	1.05	280	9952S	114	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	144
4	1,00	0,9	5.76	1.20	280	9952S	99	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	133
	1,10	1	5.76	1.20	280	9952S	104	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	138
	1,20	1,1	5.76	1.20	280	9952S	110	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	144
	1,30	1,2	5.76	1.20	280	9952S	116	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	150
	1,40	1,3	5.79	1.23	280	9952S	122	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	156
	1,50	1,4	5.87	1.31	280	9952S	127	60x60x3	60x60x3	60x60x3	20x20x2	44	x	x	162
4,5	1,00	0,9	6.48	1.42	280	9952S	122	60x60x3	60x60x3	60x60x3	25x25x2	47	x	x	160
	1,20	1,1	6.73	1.67	280	9952S	137	60x60x3	60x60x3	60x60x3	25x25x2	49	x	x	177
	1,20	1,06	6.47	1.35	310	9958S	141	60x60x3	60x60x3	60x60x3	25x25x2	49	x	x	179
	1,40	1,29	7.02	1.96	280	9952S	156	60x60x3	60x60x3	60x60x3	25x25x2	49	x	x	198
	1,40	1,26	6.47	1.35	310	9958S	150	60x60x3	60x60x3	60x60x3	25x25x2	47	x	x	188
	1,60	1,46	6.47	1.35	310	9958S	166	60x60x3	60x60x3	60x60x3	25x25x2	47	x	x	204
5	1,00	0,86	7.12	1.50	310	9958S	162	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	204
	1,20	1,06	7.12	1.50	310	9958S	181	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	223
	1,40	1,26	7.12	1.50	310	9958S	201	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	243
	1,60	1,46	7.12	1.50	310	9958S	221	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	263
	1,80	1,66	7.12	1.50	310	9958S	237	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	279
	2,00	1,86	7.12	1.50	310	9958S	260	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	302
5,5	1,00	0,86	7.77	1.65	310	9958S	177	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	222
	1,20	1,06	7.77	1.65	310	9958S	198	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	243
	1,40	1,26	7.77	1.65	310	9958S	219	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	264
	1,60	1,46	7.77	1.65	310	9958S	240	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	285
	1,80	1,66	7.77	1.65	310	9958S	258	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	303
	2,00	1,86	7.92	1.80	310	9958S	282	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	329

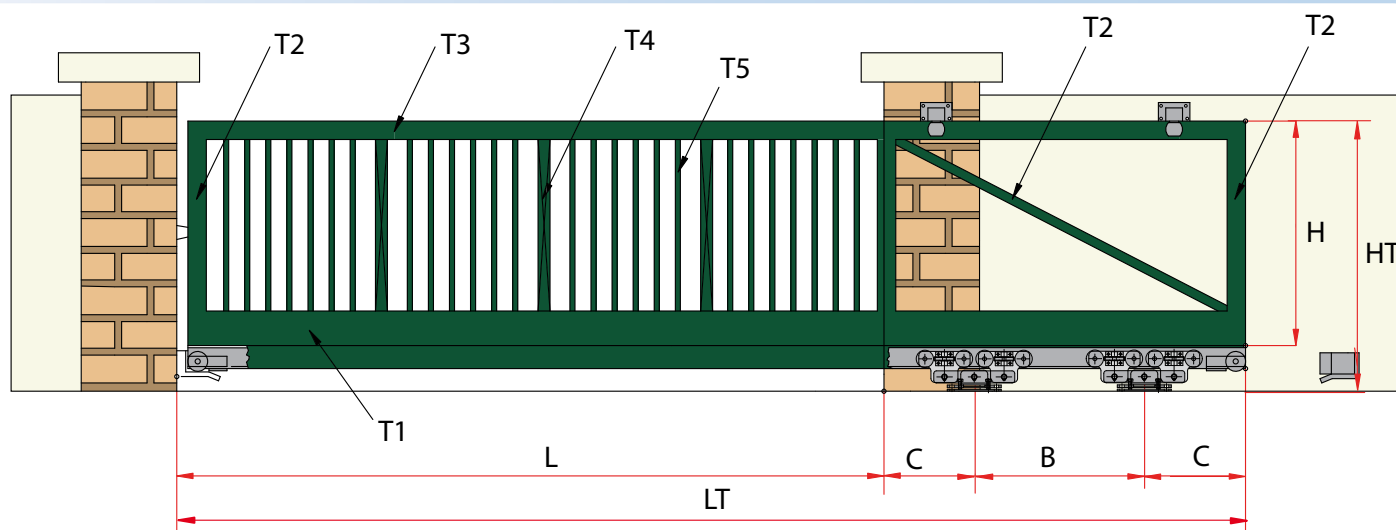


PROPOSED STRUCTURES FOR GATES FROM 6 TO 8.50 M OPENING WIDTH



see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	center distance of shaft B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Reinfort digital T2	Higher beam T3	Bar T5	Qty	Internal support T4	Qty	Total Weight included track
6	1,20	1,06	8.42	1.80	310	9958S	215	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	265
	1,40	1,26	8.42	1.80	310	9958S	238	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	288
	1,60	1,46	8.42	1.80	310	9958S	262	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	312
	1,80	1,66	8.86	2.24	310	9958S	305	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	358
	1,80	1,65	8.55	1.80	380	9968S	340	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	390
6,5	1,20	1,06	9.07	1.95	310	9958S	231	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	285
	1,40	1,26	9.07	1.95	310	9958S	256	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	310
	1,60	1,46	9.58	2.47	310	9958S	306	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	45	40x40x2	4	363
	1,60	1,45	9.20	1.95	380	9968S	318	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	45	40x40x2	4	397
	1,80	1,65	9.20	1.95	380	9968S	348	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	45	40x40x2	4	427
	2,00	1,85	9.20	1.95	380	9968S	375	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	45	40x40x2	4	454
7	1,20	1,06	9.86	2.24	310	9958S	276	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	334
	1,40	1,25	9.85	2.10	380	9968S	302	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	387
	1,60	1,45	9.85	2.10	380	9968S	331	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	416
	1,80	1,65	9.85	2.10	380	9968S	372	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	48	40x40x2	4	457
	2,00	1,85	9.85	2.10	380	9968S	400	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	48	40x40x2	4	485
7,5	1,20	1,06	10.79	2.67	310	9958S	295	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	359
	1,20	1,05	10.50	2.25	380	9968S	294	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	384
	1,40	1,25	10.50	2.25	380	9968S	325	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	415
	1,60	1,45	10.50	2.25	380	9968S	356	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	446
	1,80	1,65	10.50	2.25	380	9968S	400	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	490
	2,00	1,85	10.66	2.40	380	9968S	430	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	522
8	1,20	1,05	11.15	2.40	380	9968S	318	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	414
	1,40	1,25	11.15	2.40	380	9968S	351	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	447
	1,60	1,45	11.15	2.40	380	9968S	383	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	479
	1,80	1,65	11.34	2.59	380	9968S	430	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	527
	2,00	1,85	11.63	2.87	380	9968S	462	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	562
8,5	1,20	1,05	11.80	2.55	380	9968S	339	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	440
	1,40	1,25	11.80	2.55	380	9968S	374	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	475
	1,60	1,45	11.85	2.60	380	9968S	408	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	510
	1,80	1,65	12.30	3.05	380	9968S	451	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	563
	2,00	1,85	12.65	3.40	380	9968S	492	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	601
	2,00	1,79	11.93	2.55	440	9978S	514	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	693

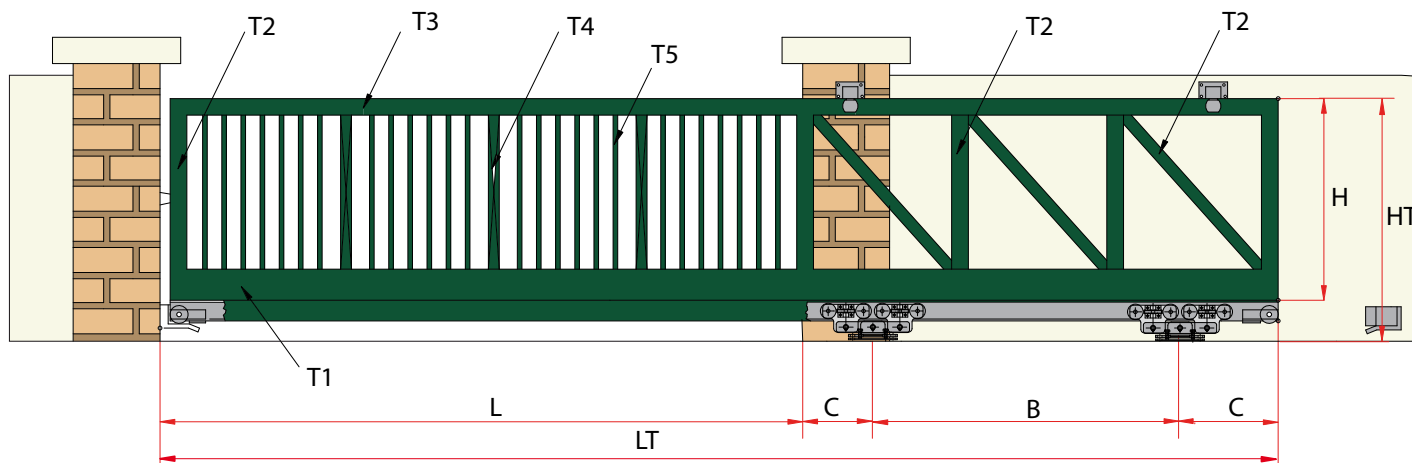




PROPOSED STRUCTURES FOR GATES FROM 9 TO 10.50 M OPENING WIDTH

see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	center distance of shaft B	C	Part Nr. Carriage	Weight	Lower beam T1	Vertical frame T2	Diagonal support T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
9	1,30	1,15	13,40	3,63	380	99685	498	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	610
	1,30	1,35	12,58	2,70	440	99785	479	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	705
	1,40	1,25	12,58	2,70	440	99785	504	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	730
	1,60	1,39	12,58	2,70	440	99785	549	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	750
	1,80	1,59	12,58	2,70	440	99785	604	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	805
	2,00	1,79	12,58	2,70	440	99785	654	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	855
9,5	1,30	1,09	13,23	2,85	440	99785	519	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	723
	1,40	1,19	13,23	2,85	440	99785	539	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	749
	1,60	1,39	13,23	2,85	440	99785	589	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	801
	1,80	1,59	13,23	2,85	440	99785	654	180x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	863
	2,00	1,79	13,23	2,85	440	99785	754	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	60	60x60x3	7	965
10	1,40	1,19	13,88	3,00	440	99785	643	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	862
	1,50	1,29	13,88	3,00	440	99785	668	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	890
	1,60	1,39	13,88	3,00	440	99785	698	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	919
	1,80	1,59	13,88	3,00	440	99785	768	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	62	80x80x3	7	986
	2,00	1,79	14,06	3,18	440	99785	828	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	62	80x80x3	7	1046
10,5	1,40	1,19	14,53	3,15	440	99785	668	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	901
	1,50	1,29	14,53	3,15	440	99785	698	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	931
	1,60	1,39	14,53	3,15	440	99785	728	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	960
	1,80	1,59	14,53	3,25	440	99785	818	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1032
	2,00	1,79	14,96	3,5	440	99785	863	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1097



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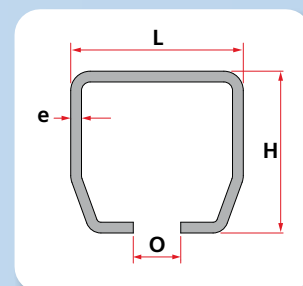
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STEEL TRACK

HEL STEEL TRACKS (HIGH ELASTIC LIMIT)							
Item Nr	Material	Length	Weight	L	H	O	e
9050/600*	Galvanized steel	6 m	35,5 Kg	65	60	18	3,5
9050N/600*	Plain Steel						
9060/600*	Galvanized steel	6 m	51,5 Kg	80	75	22	4,5
9060N/600*	Plain Steel						
9060/900*	Galvanized steel	9 m	77 Kg	90	110	25	6
9060N/900*	Plain Steel						
9070/600*	Galvanized steel	6 m	90 Kg	90	110	25	6
9070N/600*	Plain Steel						
9070/900*	Galvanized steel	9 m	135 Kg	90	110	25	6
9070N/900*	Plain Steel						

* SPECIAL LENGHTS UPON REQUESTS.



PAF series Carriages

HIGH PERFORMANCE SINGLE CARRIAGE	
9952 PAF	Carriage equipped with reinforced ball bearings. For track : 9050
9962 PAF	Carriage equipped with reinforced ball bearings. For track : 9060
9972 PAF	Carriage equipped with reinforced ball bearings. For track 9070

HIGH PERFORMANCE DOUBLE CARRIAGE	
9958 PAF	Carriage equipped with reinforced ball bearings. For track : 9050
9968 PAF	Carriage equipped with reinforced ball bearings. For track : 9060
9978 PAF	Carriage equipped with reinforced ball bearings. For track 9070

ALL CARRIAGES ARE EQUIPPED WITH WATERPROOF BEARINGS



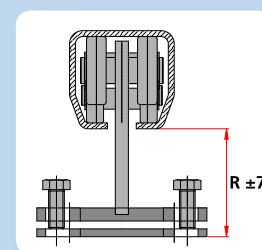
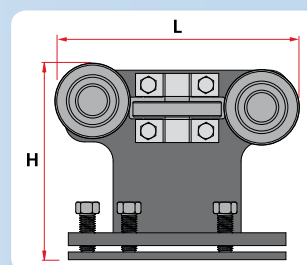
9952 PAF / 9962 PAF
9972 PAF



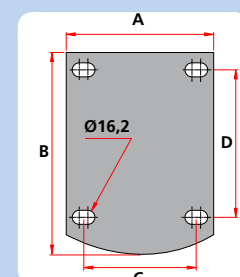
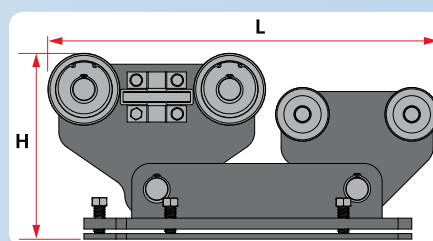
9958 PAF / 9968 PAF
9978 PAF

DIMENSIONAL CHARACTERISTICS

HIGH PERFORMANCE SINGLE CARRIAGE									
Item Nr	L	H	I	R	A	B	C	D	
9952 PAF	151	98	100	42	100	135	60	92	
9962 PAF	191	153	130	81	130	185	90	135	
9972 PAF	230	205	170	99	170	230	130	170	



HIGH PERFORMANCE DOUBLE CARRIAGE									
Item Nr	L	H	I	R	A	B	C	D	
9958 PAF	297	117	130	61	130	235	90	100	
9968 PAF	379	153	150	81	150	310	110	165	
9978 PAF	429	206	200	99	200	360	160	260	



S series CARRIAGES

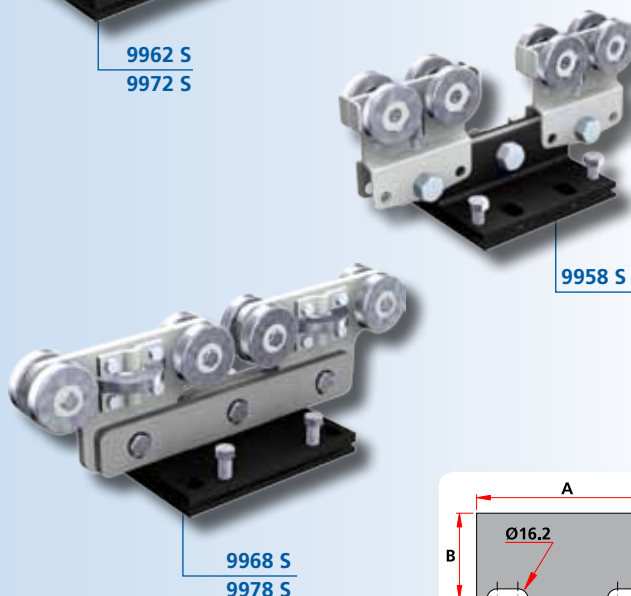
SINGLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

9952 S	Carriage with steel wheels mounted on high-precision ball bearings. For track : 9050
9962 S	Carriage with steel wheels mounted on high-precision ball bearings. For track : 9060
9972 S	Carriage with steel wheels mounted on high-precision ball bearings. For track : 9070



DOUBLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

9958 S	Carriage with steel wheels mounted on high-precision ball bearings. For track : 9050
9968 S	Carriage with steel wheels mounted on high-precision ball bearings. For track : 9060
9978 S	Carriage with steel wheels mounted on high-precision ball bearings. For track : 9070



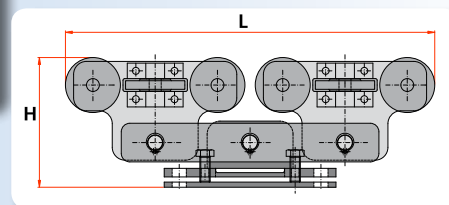
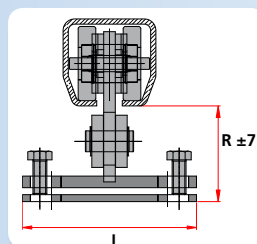
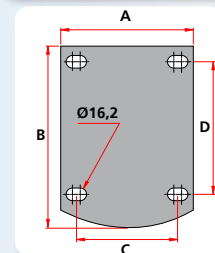
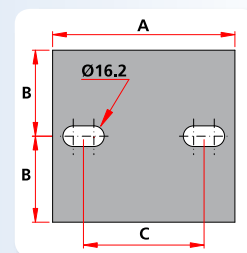
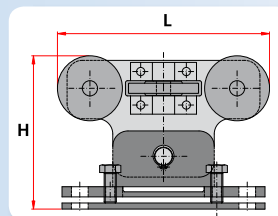
DIMENSIONAL CHARACTERISTICS

SINGLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

Item Nr	L	H	I	R	A	B	C	D
9952 S	241	90	106	45	106	50	70	
9962 S	209	141	130	83	130	170	90	135
9972 S	275	196	170	103	170	210	130	170

DOUBLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

Item Nr	L	H	I	R	A	B	C	D
9958 S	300	140	150	83	150	150	110	60
9968 S	430	145	150	83	150	200	110	165
9978 S	560	196	200	103	200	300	160	260

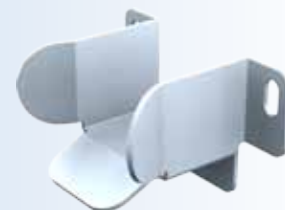


ACCESSORIES

Item Nr	Designation
1050 E	Bottom end guide for track 9050
1060 E	Bottom end guide for track 9060
1070 E	Bottom end guide for track 9070
1051 G	End wheel for track 9050
1061 G	End wheel for track 9060
1071 G	End wheel for track 9070



1051 G/1061 G/1071 G



1050 E /1060 E/1070 E

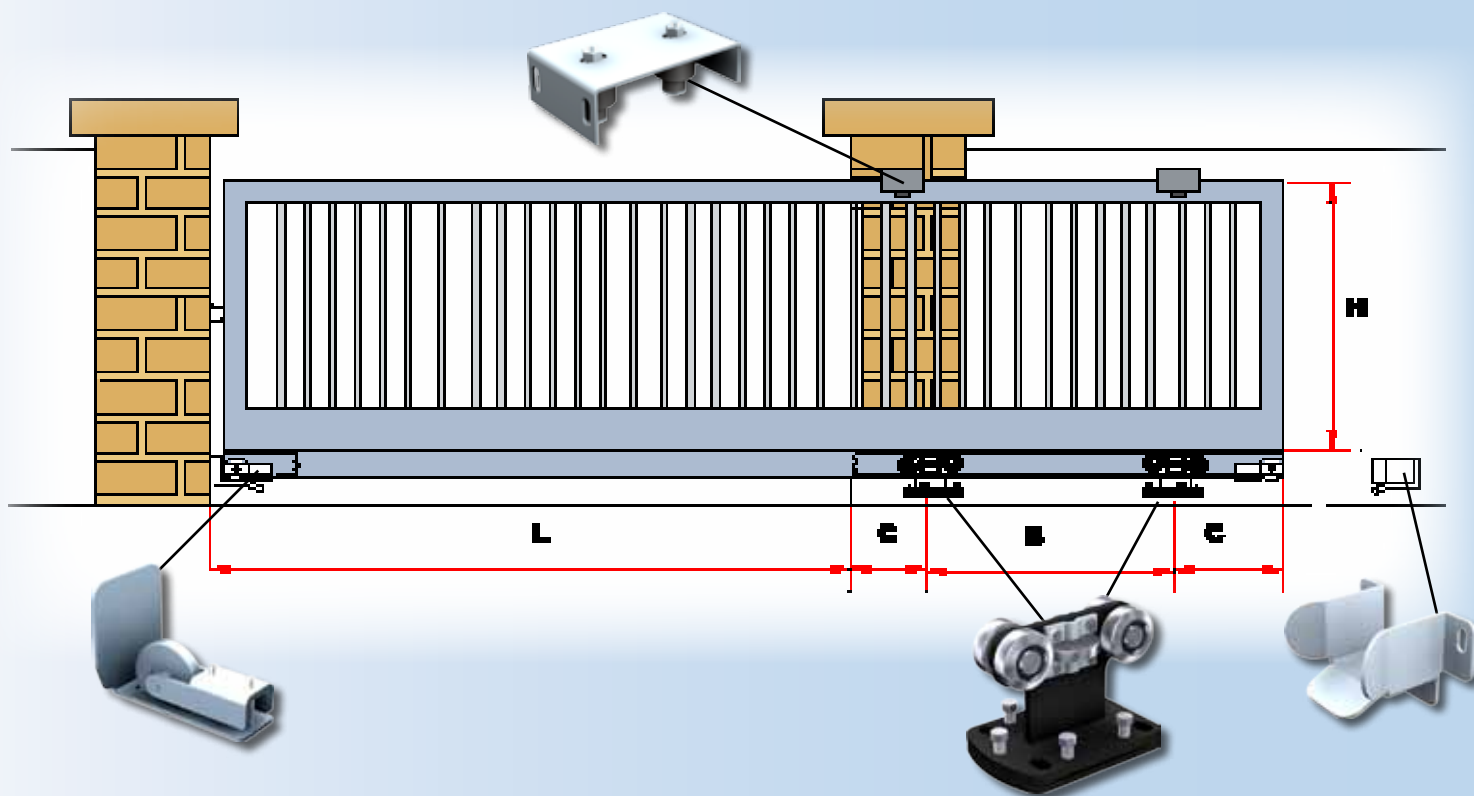
SPECIAL GEAR FOR STEEL CANTILEVER GATE UP TO : 4 M WIDTH AND 200 KG

GEAR	
9050 GPAF	Gear including :
	→ 2 carriages 9952 PAF
	→ 2 end wheels 1051 G
	→ 2 bottom end guides 1050 E
	→ 2 upper guides 1062

TRACK	
9050/600	Galvanized steel for carriages 9952 PAF Length = 6 m.
9050N/600	Plain steel for carriages 9952 PAF Length = 6 m.



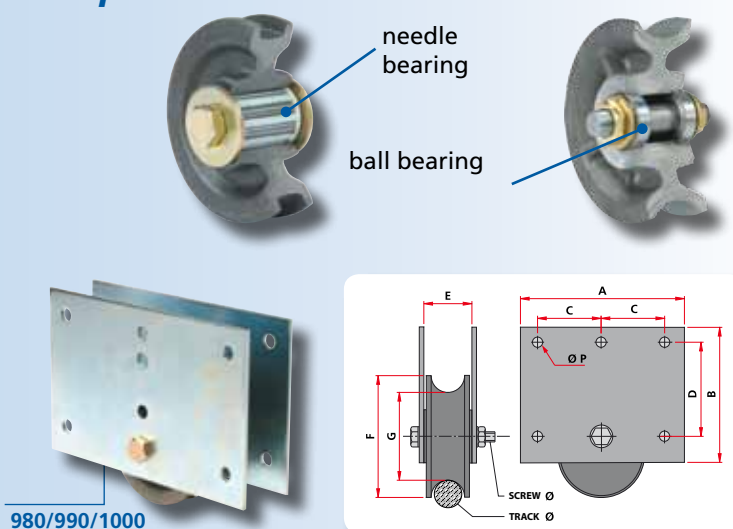
Steel cantilever gate structure :





CAST IRON WHEELS for round or square tracks

Item Nr	Designation
980 GR	Round groove cast iron wheel with internal plate
980 GC	Square groove cast iron wheel with internal plate
990 GR	Round groove cast iron wheel with internal plate
990 GC	Square groove cast iron wheel with internal plate
1000 GR	Round groove cast iron wheel with internal plate
1000 GC	Square groove cast iron wheel with internal plate
1008 GR	Round groove wheel with needle bearing
1008 GC	Square groove wheel with needle bearing
1009 GR	Round groove wheel with ball bearings
1009 GC	Square groove wheel with ball bearings
1010 GR	Round groove wheel with ball bearings
1010 GC	Square groove wheel with ball bearings



CHARACTERISTICS OF CAST IRON WHEELS																		
ROUND GROOVE WHEEL WITH INTERNAL PLATE "GR"													SQUARE GROOVE WHEEL WITH INTERNAL PLATE "GC"					
Item Nr	Capacity / wheel	A	B	C	D	E	F	G	Ø Track	Ø P	Ø Screw M	Equipped with the wheel	Item Nr	outside Ø	Ø Base of the wheel	Width of the wheel	□	Equipped with wheel
980 GR	150 kg	220	140	90	95	43	102	83	20	11	12x60	1008 GR	980 GC	102	86	16	14X14	1008 GC
990 GR	250 kg	300	180	125	130	60	150	123	30	15	20x100	1009 GR	990 GC	150	124	28	25x25	1009 GC
1000 GR	500 kg	300	180	125	130	71	180	152	35	15	20x100	1010 GR	1000 GC	180	154	34	30x30	1010 GC

TRACKS - SCREWING AND SEALING TYPE (for wheels listed p.18 and 19)

SCREWING TYPE TRACKS FOR ROUND GROOVE WHEEL - LENGTH 3 M

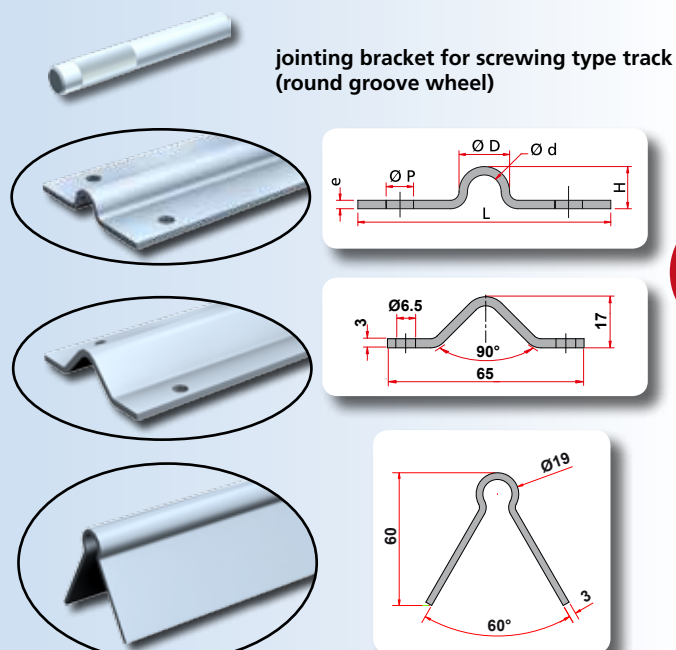
20012 RV/3	Galvanized steel track D = 12 , d = 8 , e = 2 , H = 10 , P = 6,5 , L = 60
20016 RV/3	Galvanized steel track D = 15,5 , d = 10,5 , e = 2,5 , H = 16 , P = 6,5 , L = 60
20016 M	Joining bracket for track 20016RV/3
20020 RV/3	Galvanized steel track D = 19 , d = 12 , e = 3,5 , H = 15 , P = 8,5 , L = 80
20020 M	Joining bracket for track 20020RV/3
20021 RV/3	Galvanized steel track D = 19 , d = 13 , e = 3 , H = 16 , P = 6,5 , L = 60

SCREWING TYPE TRACK FOR TRIANGULAR GROOVE WHEEL - LENGTH 3 M

20021 VV/3	Galvanized steel track - H = 17 ; P = 6,5 ; L = 65 ; e = 3
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SEALING TYPE TRACK FOR ROUND GROOVE WHEEL - LENGTH 3 M

20021 RS/3	Galvanized steel track - D = 19 ; d = 13 ; e = 3 ; H = 60
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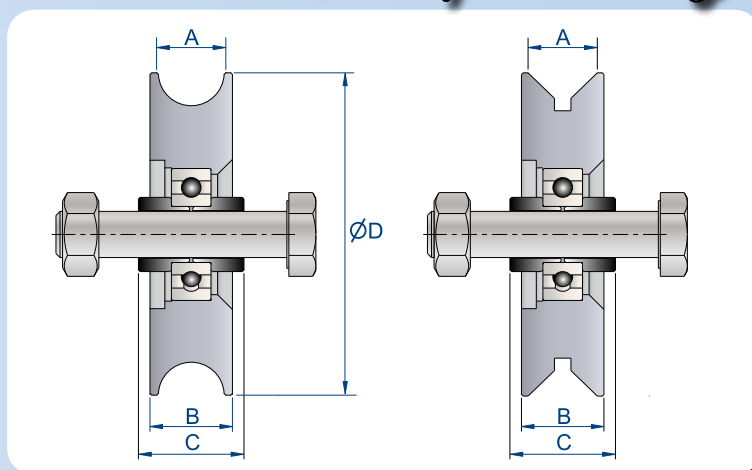


STEEL WHEELS ON ROUND AND TRIANGULAR TRACKS



ALL OUR WHEELS ARE WHITE ZINC PLATED

*** reinforced bearing



STAINLESS STEEL WHEELS

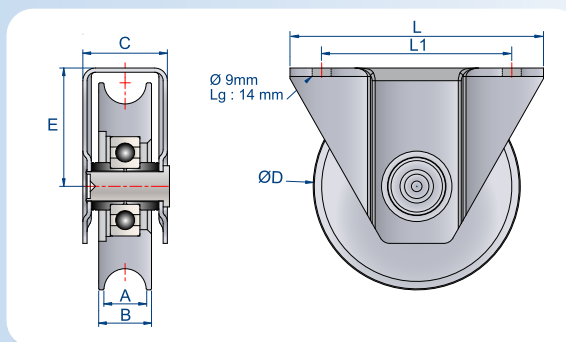
round groove wheels	"V" shape groove wheels	Capacity / wheel* (Kg)	Capacity / bearing (Kg)	Ø D	A	B	C	Screw dimension
-	20061 V10	100	315	60	10	14	19	M 10x45
20061 R12	20061 V12	100	315	60	12	16	19	M 10x45
20061 R16	-	100	315	60	16	20	32	M 10x60
20081 R12	20081 V12	200	455	80	12	16	32	M 14x70
20081 R16	-	200	455	80	16	20	32	M 14x70
20081 R20	20081 V20	200	455	80	20	25	32	M 14x70
20091 R12	20091 V12	200	455	90	12	16	32	M 14x70
20091 R16	-	200	455	90	16	20	32	M 14x70
20101 R12	20101 V12	200	455	100	12	16	32	M 14x70
20101 R16	-	200	455	100	16	20	32	M 14x70
20101 R20	20101 V20	200	455	100	20	25	32	M 14x70
20100 R20 ***	20100 V20 ***	400	670	100	20	25	32	M 14x70
20121 R16	-	225	455	120	16	20	32	M 14x70
20121 R20	20121 V20	225	455	120	20	25	32	M 14x70
20120 R20 ***	20120 V20 ***	500	670	120	20	25	32	M 14x70
20141 R16	-	250	455	140	16	20	32	M 14x70
20141 R20	20141 V20	250	455	140	20	25	32	M 14x70
20140 R20 ***	20140 V20 ***	550	670	140	20	25	32	M 14x70
20161 R16	-	300	455	160	16	20	32	M 14x70
20161 R20	20161 V20	300	455	160	20	25	32	M 16x70
20160 R20 ***	20160 V20 ***	700	880	160	20	25	32	M 16x70
20200 R20 ***	20200 V20 ***	750	880	200	20	25	32	M 16x70

* It's the weight of the gates which determines the choice of wheels.

(The bearing capacity is for illustrative purposes only).

Example : 2 wheels 20100R20 will be selected for an 800 kg gate.

WHEELS WITH STEEL EXTERNAL PLATE



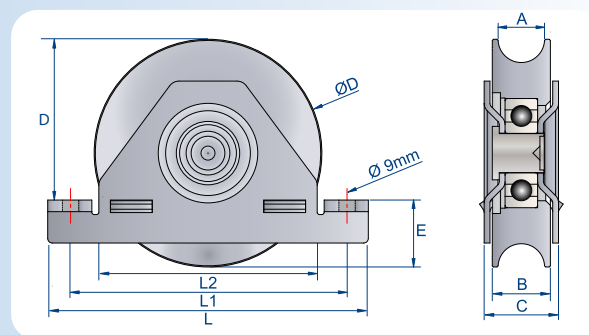
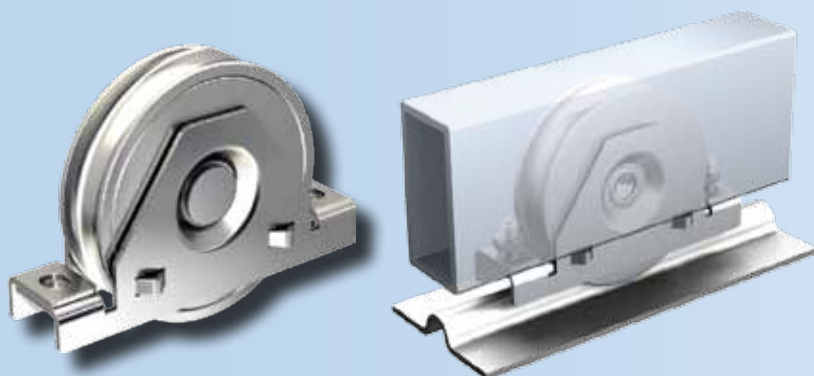
WHEELS WITH STEEL EXTERNAL PLATE

round groove wheels	"V" shape groove wheels	Capacity / wheel (kg)	Capacity / bearing (kg)	Ø D	L	L1	A	B	C	E
21081 R16	-	200	455	80	120	90	16	20	40	46
21081 R20	21081 V20	200	455	80	120	90	20	25	40	46
21101 R16	-	200	315	100	120	90	16	20	40	56
21101 R20	21101 V20	200	455	100	120	90	20	25	40	46
21100 R20 ★★	21100 V20 ★★	400	670	100	120	90	20	25	40	56



WHEELS WITH STEEL INTERNAL PLATE

*to be fitted in a
40 mm section tube*



EASY and QUICK mounting, minimal space between the gate and the ground, welding or screwing type.

WHEELS WITH STEEL INTERNAL PLATE

round groove wheels	"V" shape groove wheels	Capacity / wheel (kg)	Capacity / bearing (kg)	Ø D	L	L1	L2	A	B	C	D	E
22081 R16	-	200	455	80	138	119	98	16	20	32	52.5	25.5
22081 R20	22081 V20	200	455	80	138	119	98	20	25	32	52.5	25.5
22101 R16	-	200	455	100	138	119	98	16	20	32	69	35.5
22101 R20	22101 V20	200	455	100	138	119	98	20	25	32	69	35.5
22100 R20 ★★	22100 V20 ★★	400	670	100	138	119	98	20	25	32	69	35.5
22121 R16	-	225	455	120	186	162	138	16	20	32	73.5	45.5
22121 R20	22121 V20	225	455	120	186	162	138	20	25	32	73.5	45.5
22120 R20 ★★	22120 V20 ★★	500	670	120	186	162	138	20	25	32	73.5	45.5
22141 R16	-	250	455	140	186	162	138	16	20	32	89.5	48.5
22141 R20	22141 V20	250	455	140	186	162	138	20	25	32	89.5	48.5
22140 R20 ★★	22140 V20 ★★	550	670	140	186	162	138	20	25	32	89.5	48.5

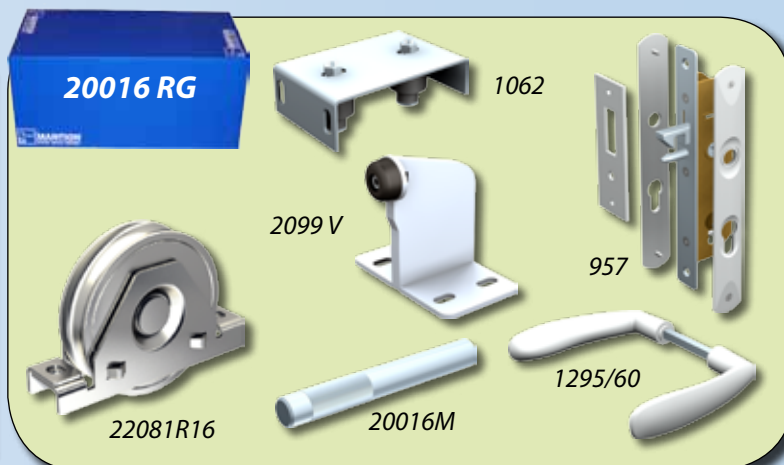
GEAR FOR SLIDING GATES WITH BALL BEARING WHEELS: 200 AND 400 KG

GEAR for 200 KG manual gate

20016 RG

Gear including :

- 2 steel wheels with internal plate 22081R16
- 2 jointing brackets for profile 20016M
- 2 upper-guides 1062
- 1 stopper screwing type 2099 V
- 1 lock 957 (Ø 7)
- 1 double handle 1295/60 (Ø 7)

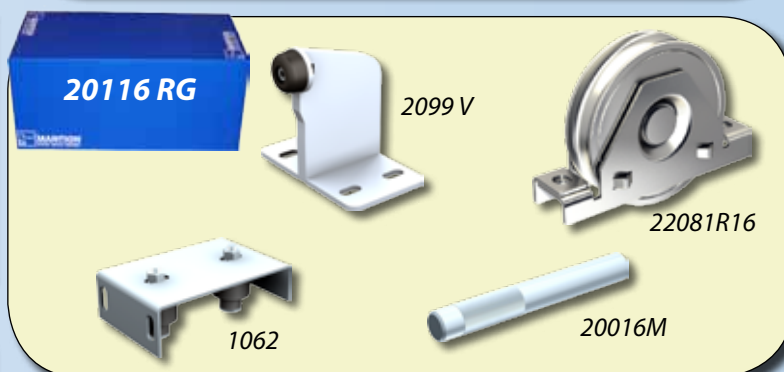


GEAR for 200 Kg motorized* gate

20116 RG

Gear including :

- 2 steel wheels with internal plate 22081R16
- 2 jointing brackets for profile 20016M
- 2 upper-guides 1062
- 1 stopper screwing type 2099 V



*motorisation is not included 16 mm Ø track for gates up to 200 Kg

20016 RV/3

Galvanised steel track - Screwing type
Length = 3 m. - Width = 60 mm - Thickness = 2.5 mm

20 mm Ø track for gates up to 400 Kg

20021 RV/3

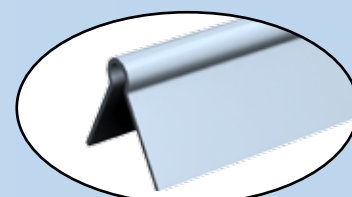
Galvanised steel track - Screwing type
Length = 3 m. - Width = 60 mm - Thickness = 3 mm

20021 RS/3

Galvanised steel track - Sealing type
Length = 3 m. - Width = 60 mm - Thickness = 3 mm



20016 RV/3 / 20021 RV/3



20021 RS/3

GEAR for 400 KG manual gate

20021 RG

Gear including :

- 2 steel wheels with internal plate 22100R20
- 2 jointing brackets for profile 20020M
- 1 upper-guide 1065
- 1 stopper screwing type 2099 V
- 1 lock 957 (Ø 7)
- 1 double handle 1295/60 (Ø 7)

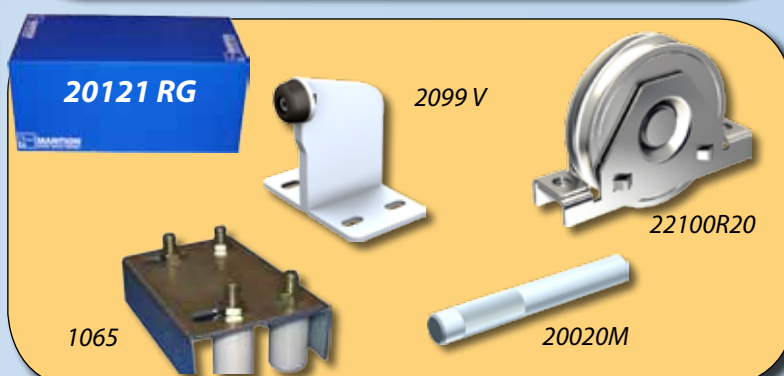


GEAR for 400 Kg motorized* gate

20121 RG

Gear including :

- 2 steel wheels with internal plate 22100R20
- 2 jointing brackets for profile 20020M
- 1 upper-guide 1065
- 1 stopper screwing type 2099 V



*motorisation is not included

STAINLESS STEEL TRACKS - Screwing and sealing type

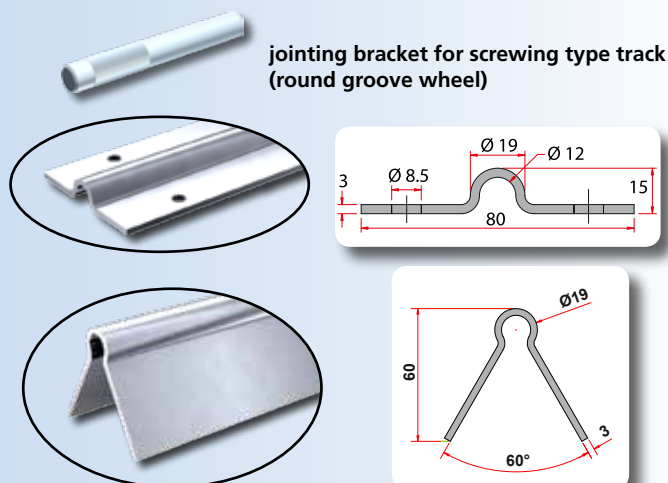
SCREWING TYPE TRACKS FOR ROUND GROOVE WHEEL Length : 3 M

20020 RVX/3 STAINLESS STEEL track Ø 20 - Length = 3 m.

20020M Joining bracket

SEALING TYPE TRACK FOR ROUND GROOVE WHEEL Length : 3 M

20020 RSX/3 STAINLESS STEEL track Ø 20 - Length = 3 m.



STAINLESS STEEL WHEELS ON ROUND TRACKS *reinforced bearings*



STAINLESS STEEL WHEELS

round groove wheels	Capacity / wheel*(kg)	Capacity / bearing (Kg)	Ø D	A	B	C	Screw dimension
20100 R20 X	400	670	100	20	25	32	M 14x70
20120 R20 X	500	670	120	20	25	32	M 14x70

WHEELS WITH STAINLESS STEEL INTERNAL PLATES

round groove wheels	Capacity / wheel*(kg)	Capacity / bearing (Kg)	Ø D	L	L1	L2	A	B	C	D	E
22100 R20 X	400	670	100	138	119	98	20	25	32	69	35.5
22120 R20 X	500	670	120	186	162	138	20	25	32	79.5	38.5

* see box page 18

STAINLESS STEEL ACCESSORIES



lock **954 X**
see detail on page 22



lock **958**
see detail on page 22



Handle **1290 X**
see detail on page 22



guide **23040 X**
see detail on page 22

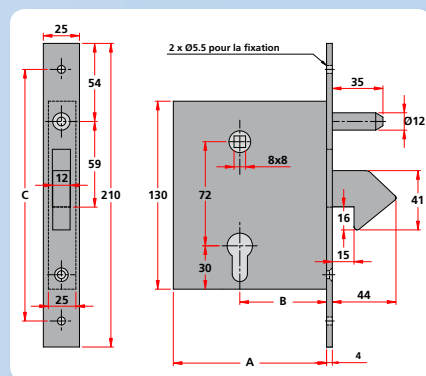
HOOK LOCKS

HOOK LOCKS with 8 mm square

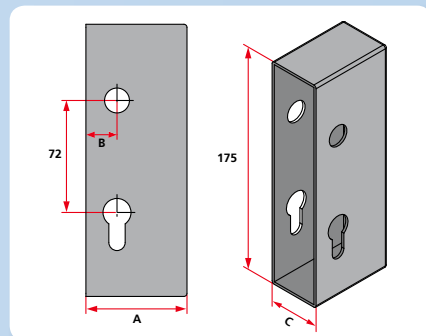
Item Nr.	Designation
954	Hook lock in galvanised steel. Supplied with European Cylinder and 3 keys. A = 96 ; B = 60 ; C = 174
954 X	Hook lock in stainless steel. Supplied with European Cylinder and 3 keys. A = 106 ; B = 60 ; C = 185
955	Monoblock lock, in galvanised steel. Supplied with a strike without cylinder. A = 96 ; B = 60 ; C = 174
954 C40	Box for lock 954 and 955. For a $\varnothing 40$ mm tube. A = 65 ; B = 20 ; C = 40
954 C50	Box for lock 954 and 955. For a $\varnothing 50$ mm tube. A = 65 ; B = 10 ; C = 50



954
955



954 C

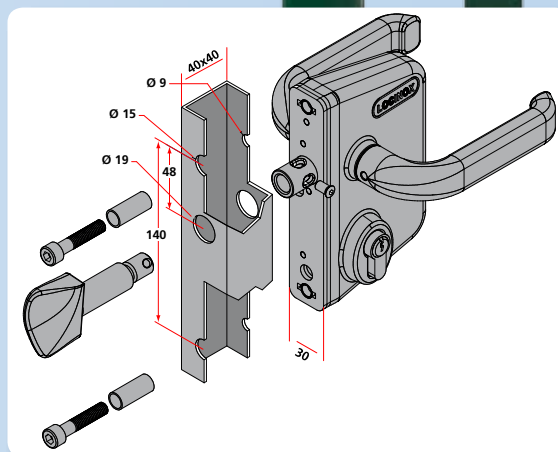


LOCKS with 8 mm square - Surface mounted

Item Nr.	Designation
958-40-A	Frame, mecanism and sliding bolt in STAINLESS STEEL. Box and handles in aluminium, silver colour. Nickel cylinder 54 mm. European profile + 3 keys For a $\varnothing 40$ mm tube.
958-50-A	Ditto for a $\varnothing 50$ mm tube.
958-40-B	Frame, mecanism and sliding bolt in STAINLESS STEEL. Box and handles in aluminium, white painted. Nickel cylinder 54 mm. European profile + 3 keys For a $\varnothing 40$ mm tube.
958-50-B	Ditto for a $\varnothing 50$ mm tube.



958

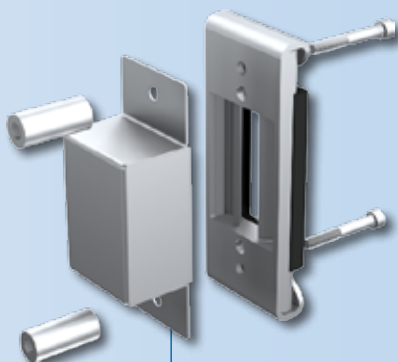
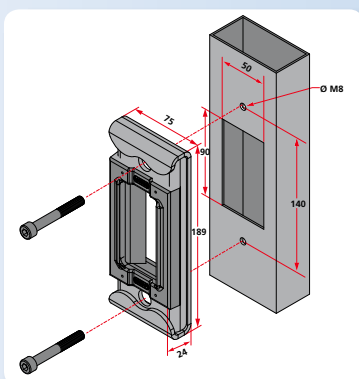


KEEPER for locks 958

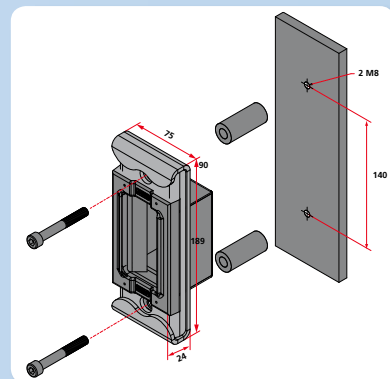
Item Nr.	Designation
958 G	Keeper of lock in STAINLESS STEEL for a tube of min $\varnothing 80 \times 40$. Equipped with a rubber joint as shock absorber.
958 GC	Ditto with frame. To be used with a flat bar.



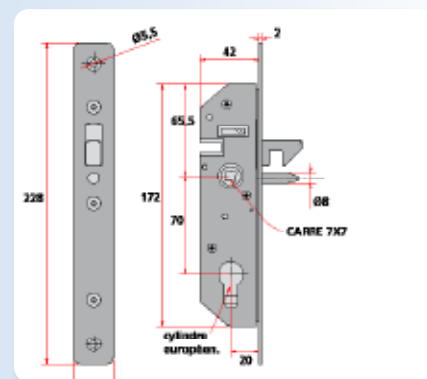
958 G



958 GC



Item Nr.	Designation
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Item Nr.	Designation
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1295

1295/60

A rectangular metal plate with a central rectangular opening. The plate is light-colored and has four small circular holes at the corners. The central opening is a darker, recessed rectangular area, showing a cross-section of the casting process.



1290

1297

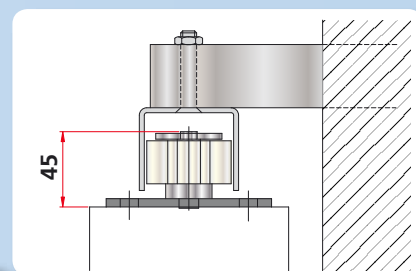
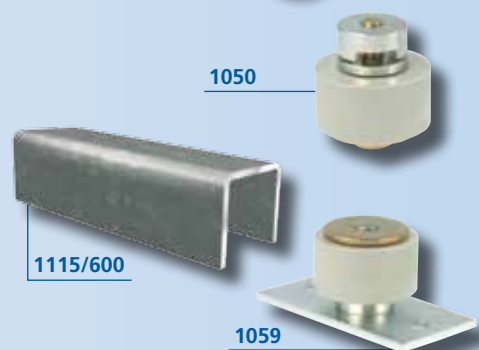
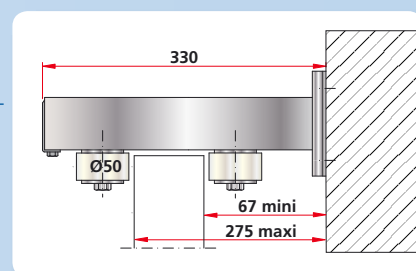
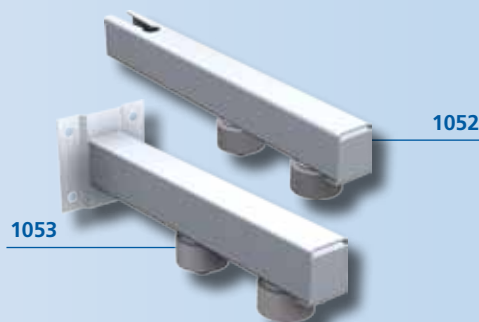
1298

2222 CR	Rack for motorized gates. Length : 1 m. Module 4.
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ACCESSORIES - GUIDES, SQUARE STEEL PILLARS COVERS AND STOPPERS

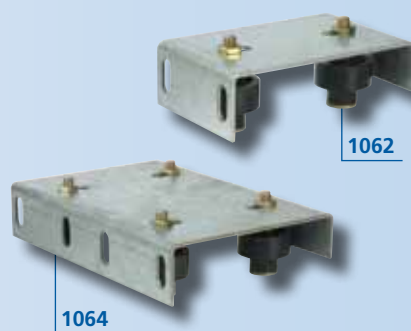
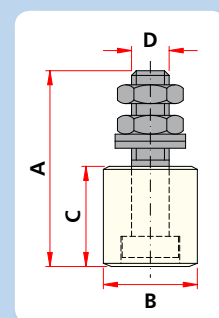
GUIDES	
Item Nr.	Designation
1052	Adjustable upper guide, sealing type. For bottom sliding gate. Equipped with guide 1050.
1052 L	Ditto equipped with the guide 23040 L.
1053	Adjustable upper guide, screwing type. For bottom sliding gate. Equipped with the guide 1050.
1053 L	Ditto equipped with the guide 23040 L.
1050	Guide without plate mounted on needle bearing with a nylon olive. Installed on the guides 1052 et 1053. Ø 50 ; height : 25 mm
1059	Lower guide mounted on needle bearing with a nylon olive and fixed on a screwing plate. For U 50 x 60. Ø 50; height : 25 mm.
1115/600	U-channel 50 x 60 in galvanized steel - Length : 6 meters.
23025	Guide with a nylon olive. A = 65 - B = 25 - C = 35 - D = 14
23030	Guide with a nylon olive. A = 80 - B = 30 - C = 40 - D = 14
23040 B	Guide with a convex nylon olive. A = 84 - B = 40 - C = 40 - D = 14
23040	Guide with a nylon olive. A = 84 - B = 40 - C = 40 - D = 14
23040 L	Long guide with a nylon olive. A = 102 - B = 40 - C = 60 - D = 16
23040 X	Guide with a stainless steel shaft and a nylon olive. A = 84 - B = 40 - C = 40 - D = 14
1062	Upper guide with two adjustable nylon olives, Ø 40 for 40 to 70 mm tube. Length : 105 mm.
1064	Upper guide with four adjustable nylon olives, Ø 40 for 40 to 70 mm tube. Length : 245 mm.
1065	Adjustable upper guide with four adjustable nylon olives, Ø 40 for 40 to 60 mm tube. Length : 220 mm.
OCP20	Square steel pillar cover to be welded, 20 x 20 mm
OCP30	Ditto 30 x 30 mm
OCP40	Ditto 40 x 40 mm
OCP50	Ditto 50 x 50 mm
OCP60	Ditto 60 x 60 mm
OCP80	Ditto 80 x 80 mm
OCP100	Ditto 100 x 100 mm
OCP120	Ditto 120 x 120 mm
OCP150	Ditto 150 x 150 mm
2099	Galvanized stopper, welding type - For bottom sliding gates.
2099 V	Ditto screwing type



23040 B

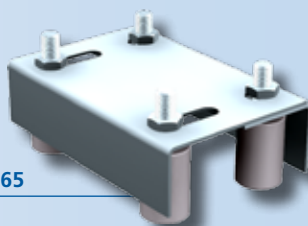
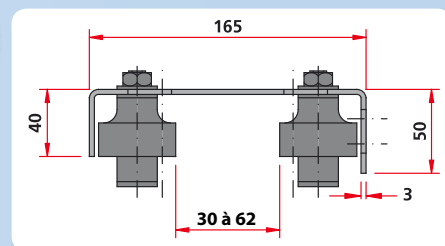


23025
23030
23040

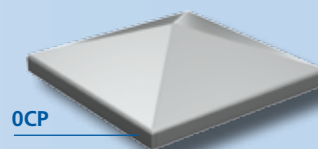


1062

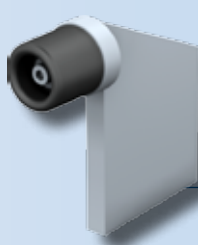
1064



1065



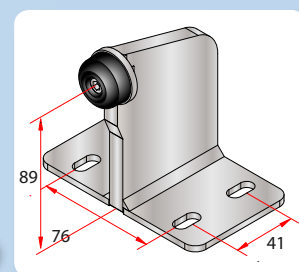
OCP



2099



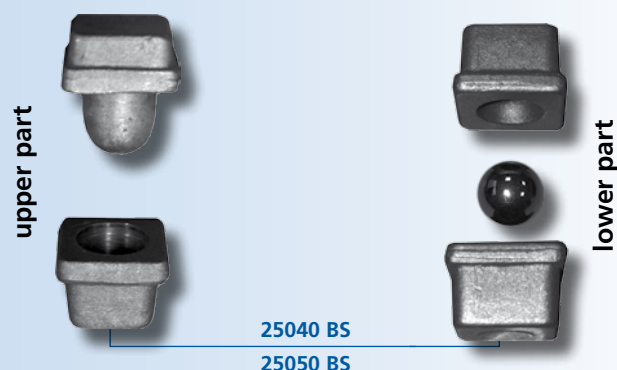
2099 V





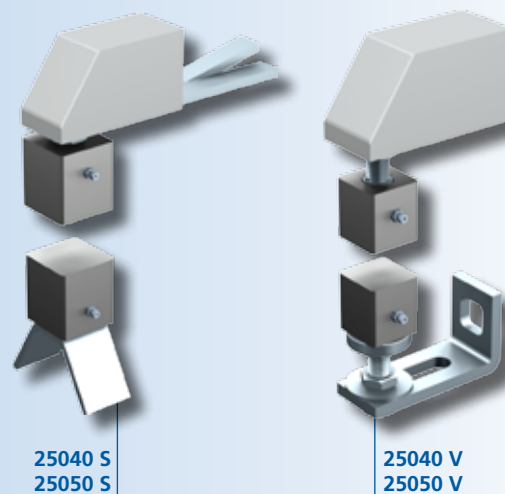
CAST IRON PIVOTS for gates up to 80 KG

25040 BS	Cast iron pivot, welding type, including : 1 upper part 1 lower part (on ball), for tubular profile of $\varnothing$ 40 mm	Pivot $\varnothing$ 35 mm
25050 BS	Cast iron pivot, welding type, including : 1 upper part, 1 lower part (on ball), for tubular profile of $\varnothing$ 50 mm	Pivot $\varnothing$ 45 mm



PIVOTS WITH BRACKETS for gates up to 80 KG

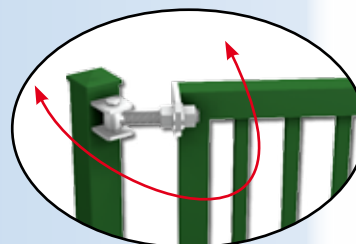
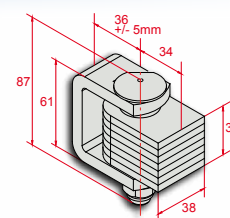
25040 S	Pivot for gate in $\varnothing$ 40 tube, sealing type.	Pivot $\varnothing$ 35 mm
25040 V	Pivot for gate in $\varnothing$ 40 tube, screwing type.	
25050 S	Pivot for gate in $\varnothing$ 50 tube, sealing type.	Pivot $\varnothing$ 45 mm
25050 V	Pivot for gate in $\varnothing$ 50 tube, screwing type.	



ALL PIVOTS ARE EQUIPPED WITH A GREASER

EXTENSIBLE HINGE - WELDING TYPE

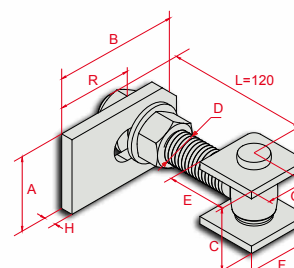
25060 SO	Hinge, welding type - +/- 5 mm extensible This hinge allows a setting of 10 mm. Just loosen the bottom nut and tighten once the required position is obtained.
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opening 180° !

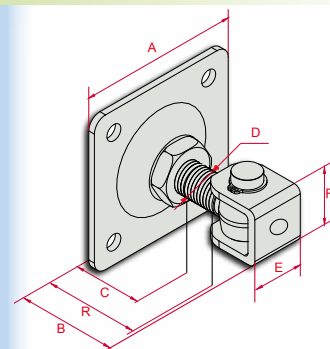
HINGES - WELDING TYPE opening 180°

Part Nr.	A	B	R	C	D	E	F	G	H	Gate weight (kg)
25184 SO	50	100	29 to 49	35	M18	40	42	22	8	100
25204 SO	50	100	31 to 51	35	M20	40	42	22	8	100
25224 SO	60	100	38 to 58	35	M22	70	50	30	10	150
25244 SO	60	100	40 to 60	35	M24	70	50	30	10	150



HINGES ON PLATE - SCREWING TYPE

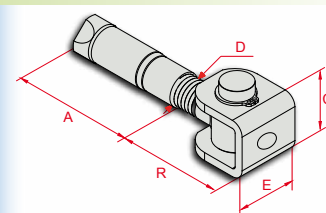
Item Nr.	A	B	R	C	D	E	F	Gate weight (kg)
25165	80	76	25 to 34	25	M16	42	35	100
25185	100	80	25 to 38	25	M18	42	35	150
25205	100	84	25 to 42	25	M20	42	35	150
25225	120	88	29 to 45	29	M22	42	35	200
25245	120	92	29 to 50	29	M24	42	35	200



ADJUSTABLE HINGES FOR GATES UP TO 300 KG

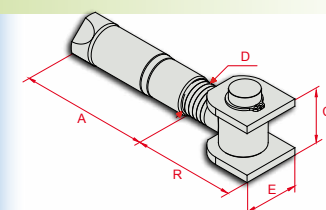
HINGES - SEALING TYPE with screwing type cap

Item Nr.	A	R	C	D	E	Gate weight (kg)
25162	60	42 to 60	25	M16	38	80
25182	64	42 to 62	25	M18	38	100
25202	75	40 to 62	25	M20	38	100
25222	80	43 to 66	25	M22	38	150
25242	80	43 to 69	25	M24	38	150



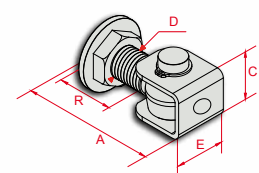
HINGES - SEALING TYPE with welding type cap

Item Nr.	A	R	C	D	E	Gate weight (kg)
25162 SO	60	42 to 60	25	M16	38	80
25182 SO	64	42 to 62	25	M18	38	100
25202 SO	75	40 to 62	25	M20	38	100
25222 SO	80	43 to 66	25	M22	38	150
25242 SO	80	43 to 69	25	M24	38	150



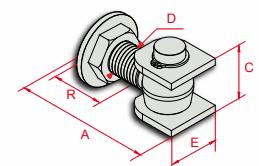
HINGES - WELDING TYPE with screwing type cap

Item Nr.	A	R	C	D	E	Gate weight (kg)
25163	76	10 to 30	25	M16	34	100
25183	80	12 to 34	25	M18	34	150
25203	84	14 to 38	25	M20	34	150
25223	88	14 to 41	25	M22	34	200
25243	92	17 to 46	25	M24	34	200



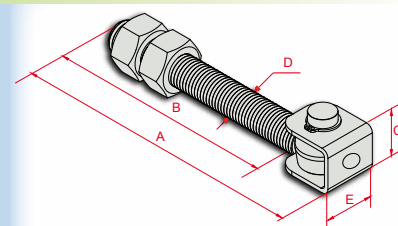
HINGES - WELDING TYPE with welding type cap

Item Nr.	A	R	C	D	E	Gate weight (kg)
25163 SO	74	10 to 30	25	M16	34	100
25183 SO	78	12 to 34	25	M18	34	150
25203 SO	82	14 to 38	25	M20	34	150
25223 SO	86	14 to 41	25	M22	34	200
25243 SO	90	17 to 46	25	M24	34	200



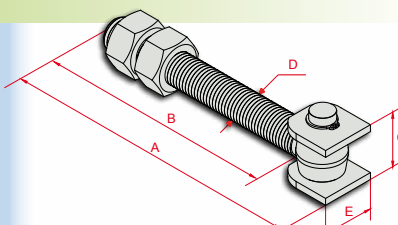
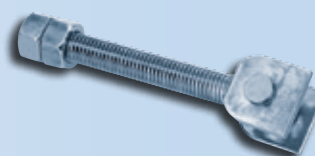
HINGES - SCREWING TYPE with screwing type cap

Item Nr.	A	B	C	D	E	Gate weight (kg)
25163 L	172	125	25	M16	38	100
25183 L	182	135	25	M18	38	150
25203 L	192	143	25	M20	38	200
25223 L	202	152	25	M22	38	200
25243 L	212	160	25	M24	38	300



HINGES - SCREWING TYPE with welding type cap

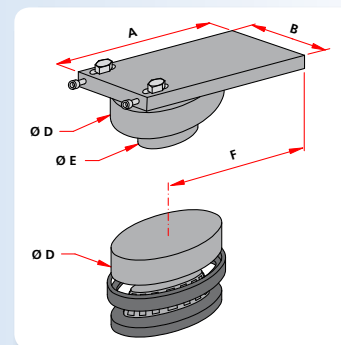
Item Nr.	A	B	C	D	E	Gate weight (kg)
25163 SOL	170	125	25	M16	38	100
25183 SOL	180	135	25	M18	38	150
25203 SOL	190	143	25	M20	38	200
25223 SOL	200	152	25	M22	38	200
25243 SOL	210	160	25	M24	38	300



PIVOT WITH BALL BEARING FOR GATES WEIGHING UP TO 750 KG

ADJUSTABLE PIVOTS - WELDING TYPE

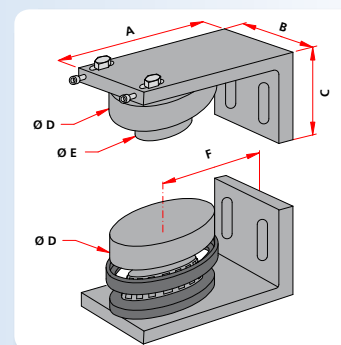
Item Nr.	Designation
25051 X	Stainless steel pivot Ø 50, with welding fastener for heavy manual or motorized gates. Adjustable on the upper part. Including : - upper part - lower part
25051	Galvanized steel pivot Ø 50 with welding fastener for heavy manual or motorized gates. Adjustable on the upper part. Including : - upper part - lower part
25051 B	Lower part of pivot 25051.
25051 H	Upper part of pivot 25051.
25071	Galvanized steel pivot Ø 70 , with welding fastener for heavy manual or motorized gates. Including : - upper part - lower part
25071 B	Lower part of pivot 25071.
25071 H	Upper part of pivot 25071.



Part Nr.	A	B	ØD	ØE	F
25051 X	100	50	50	25	77±7
25051	100	50	50	25	77±7
25071	120	60	70	30	97±7

ADJUSTABLE PIVOTS - SCREWING TYPE

25052	Galvanized adjustable steel pivot Ø 70 with "L" screwing fastener, for heavy manual or motorized gates. Including : - upper part - lower part The screws enable an adjustment on both upper and lower part.
25052 B	Lower part of pivot 25052.
25052 H	Upper part of pivot 25052.
25072	Galvanized steel pivot Ø 70 with "L" fastener, for heavy manual or motorized gates. Including : - upper part - lower part The screws enable an adjustment on both upper and lower parts.
25072 B	Lower part of pivot 25072.
25072 H	Upper part of pivot 25072.



Item Nr.	A	B	C	ØD	ØE	F
25052	110	50	60	50	25	85±7
25072	130	60	60	70	30	108±7

PIVOTS 25051 and 25052								
MAX. GATE WEIGHT (KG) ACCORDING TO WIDTH "L" AND HEIGHT "H"								
H \ L	1.5 m	2 m	2.5 m	3 m	3.5 m	4 m	4.5 m	5 m
1 m	350	350	300	250	214	187	166	150
1.5 m	350	350	350	350	320	280	250	225
2 m	350	350	350	350	350	350	333	300
2.5 m	350	350	350	350	350	350	350	350
3 m and +	350	350	350	350	350	350	350	350

PIVOTS 25071 and 25072											
MAX. GATE WEIGHT (KG) ACCORDING TO WIDTH "L" AND HEIGHT "H"											
H \ L	1.5 m	2 m	2.5 m	3 m	3.5 m	4 m	4.5 m	5 m	5.5 m	6 m	
1 m	750	750	600	500	428	375	333	300	272	250	
1.5 m	750	750	750	750	643	562	500	450	409	375	
2 m	750	750	750	750	750	750	666	600	545	500	
2.5 m	750	750	750	750	750	750	750	750	681	625	
3 m and +	750	750	750	750	750	750	750	750	750	750	

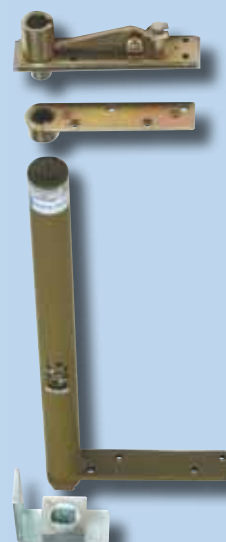
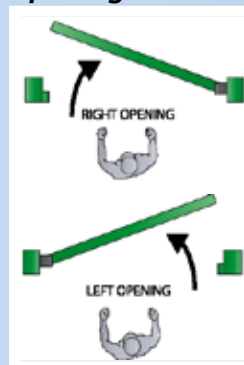
INVISIBLE DOOR-CLOSER

Capacity per door

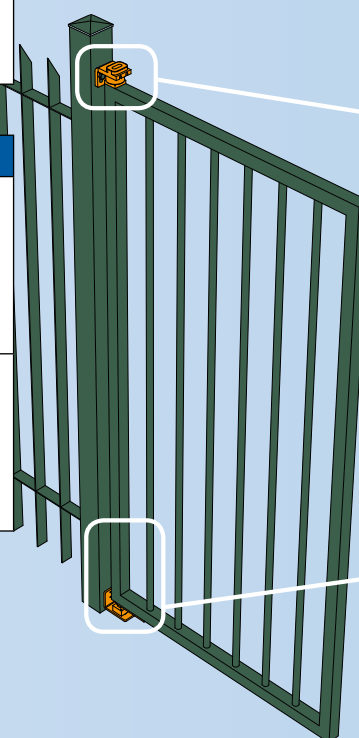
INVISIBLE DOOR-CLOSER		
Item Nr.	Designation	
25310 D	85 kg	Single action 180° pivot integrable into tubular section from 40 mm. Entirely hidden to avoid any damage. Designed for doors up to 1000 x 2000 max.
25310 G		25310 D : right opening 25310 G : left opening
25314 D	130 kg	Ditto for doors up to 1400 x 2100 max and tubular section from 40 mm
25314 G		25314 D : right opening 25314 G : left opening
25318 D	200 kg	Ditto for doors up to 1400 x 2100 max and tubular section from 50 mm
25318 G		25318 D : right opening 25318 G : left opening

HIDDEN INTO THE DOOR FRAME:
prevents from damages !

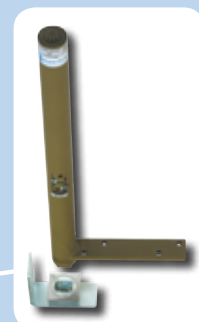
Choice of the
opening direction



INVISIBLE DOOR-CLOSER SET FOR GATES		
25310 D52	85 kg	Set including 25310 invisible door closer reference and 25052H upper part pivot. Integrable into tubular section from 40 mm and designed for doors up to 1000 x 2000 max.
25310 G52		25310 D52 : right opening 25310 G52 : left opening
25314 D52	130 kg	Set including 25314 invisible door closer reference and 25052H upper part pivot. Integrable into tubular section from 40 mm and designed for doors up to 1400 x 2100 max.
25314 G52		25314 D52 : right opening 25314 G52 : left opening



Upper part of pivot
25052H



invisible door closer

EASY SPEED ADJUSTMENT

By moving the adjusting wheel in both direction.
High precision and large range of adjustment.

SMOOTH CLOSING

The hydraulic mechanism of this door closer guarantees a silent and smooth closing for all kinds of gates and doors and a durability of over 500 000 opening/closing cycles.

ADJUSTABLE CLOSING STRENGTH

Through adjustment of the spring.

HIGH-CLOSING STRENGTH

Thanks to a special high performance spring.

EASY MOUNTING

The small sized fixing plate enables the utilization of this pivot for all types of doors and gates.

SLIDING SEAT

Facilitates this installation on site.



ACCESSORIES

Item Nr.	Designation
1297	Handle on a 265 mm plate in galvanized steel.
1298	Pressed handle with fastening hooks in galvanized steel. Length : 245 mm.
1314	Reinforced cane bolt. Screwing type. Length : 300 mm - Ø 14 mm.
1314 E	Reinforced narrow cane bolt 23 mm. Screwing type. Removable pin (2 positions). Length : 300 mm - Ø 14 mm.
1314 EF	Mounting kit for narrow reinforced cane bolt 23 mm (1314E and 1316E). Comprising 2 screw TF M8x30 and 2 inserts.
1314 SO	Ditto, welding type. Length : 300 mm - Ø 14 mm.
1316	Reinforced cane bolt, screwing type - Height : 500 mm - Ø 16 mm.
1316 E	Reinforced narrow cane bolt. screwing type. Length : 500 mm - Ø 14 mm.
1316 SO	Ditto welding type. Length : 500 mm - Ø 16 mm.
1316 B	Barrel bolt with cast iron chassis and steel cane and steel keeper. Weight : 660 gr. - Ø 16 mm.
1314 GP	Keeper of bolt for 1314 and 1314 SO.
1316 GP	Keeper of bolt for 1316 and 1316 SO.
1314 GE	Keeper of bolt for 1314 and 1314 SO. Inlet type.
1316 GE	Keeper of bolt for 1316 et 1316 SO. Inlet type.
1303 S	Adjustable swing gate stop with cataphoresis protection, sealing type. Adjustment : 40-70 mm - Height : 50 mm - Width : 40 mm - Length : 150 mm.
1303 V	Adjustable swing gate stop in galvanized steel, sealing type. Adjustment : 40-70 mm - Height : 120 mm - Width : 40 mm - Length : 145 mm.
2090 S	Middle gate stop, sealing type. Height : 85 mm - Width : 60 mm - Length : 100 mm.
2090 V	Middle gate stop, screwing type. Width : 60 mm - Length : 100 mm.
2097 S	Middle gate stop, sealing type. Height : 115 mm - Width : 100 mm - Length : 160 mm.
2097 V	Middle gate stop, screwing type. Height : 40 mm - Width : 100 mm - Length : 140 mm.



DO NOT HESITATE TO ASK FOR OUR BROCHURE ON :

THE MINISPORT® RANGE :

- **MINITUB**, sliders and accessories for light doors up to 6 kg on aluminium track.
- **PICO**, accessories for doors up to 25 kg on PVC track and for doors up to 55 kg on aluminium track.
- **MEDIUM**, fittings for light doors up to 14 kg and for curtains up to 4 kg maxi/carriage.
- **TUBEL**, fittings for doors up to 38 kg on aluminium or galvanized tracks.
- **CADETTE-SUPER CADETTE**, fittings for doors up to 60 kg on galvanized steel track.
- **OLYMPIC**, fittings for doors up to 50 kg on differential telescopic gear.
- **MA**, fittings for doors up to 80 kg on aluminium track.
- **SAF**, fittings for doors up to 120 kg on aluminium track with aluminium anodized pelmet.
- **Série 5300**, fittings for folding doors up to 15 kg.
- **Série 1300**, «MANTION» shutter stays.



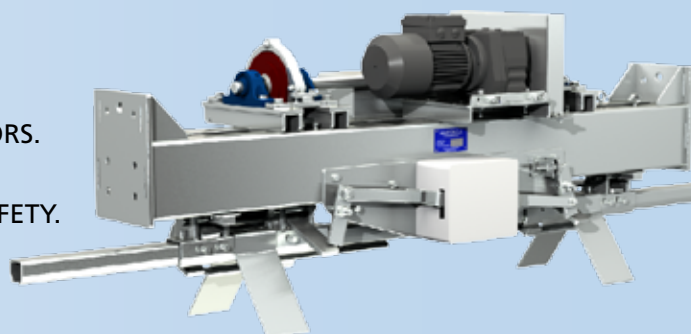
THE SPORTUB® RANGE :

- **Serie 200 et 2200**, fittings for straight SLIDING doors up to 2000 kg on 35 x 30 to 85 x 70 tubular tracks.
- **Serie 300**, fittings for ANGLE sliding doors on 35 x 30 to 85 x 70 tubular tracks.
- **Serie 500**, fittings for FOLDING doors with equal panels on 35 x 30 to 85 x 70 tubular tracks.
- **Serie 600**, fittings for FOLDING doors with half panels on 35 x 30 to 85 x 70 tubular tracks.
- **Serie 4000**, fittings for up and over doors.
- **Serie 7000**, fitting for sectional doors.
- **SPORT**, fittings for straight SLIDING doors on a flat bars.
- **BOB**, fittings for ANGLE sliding doors on a flat bars.
- **HANDLING**, tubular monorails, switches and cable carriers.
- **TUBULAR TRACKS** and FIXING ACCESSORIES.



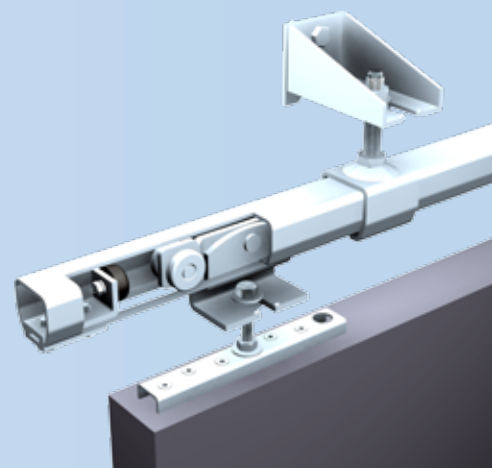
HANDLING :

- **TROLLEYS** and **LOAD CARRIERS**.
- **CURVES**, **SWITCHES**, **ELEVATING STATIONS** and **CONVEYORS**.
- **OVERHEAD CRANES**, **CABLE CARRIERS** and **JIBS**.
- **SPECIAL ITEMS** : **CURTAINS**, **ALUMINIUM RANGE** AND **SAFETY**.
- **ALUMINIUM** AND **STEEL TRACKS**.
- **FIXING ACCESSORIES**.



THE HERCULE® RANGE :

- **Série 9200**, fittings for straight SLIDING doors up to 3000 kg.
- **Série 9300**, fittings for ANGLE sliding doors.
- **Série 9500**, fittings for FOLDING doors with equal panels.
- **Série 9600**, fittings for FOLDING doors with a half panels.
- **VARIOUS TROLLEY**
- **STAINLESS STEEL PRODUCTS**.
- **AIRSTOP**, fittings for FOLDING doors up to 400 kg.
- **ALUMINIUM** and **STEEL TRACKS**
- **VARIOUS TRACKS** AND **PROFILES**.
- **FIXING ACCESSORIES**



954	HOOK LOCK	22	2097 S	GATE STOP	29	20101 R20	STEEL WHEEL	18	25051 X	PIVOT IN STAINLESS STEEL	27
954 X	HOOK LOCK	22	2097 V	GATE STOP	29	20101 V12	STEEL WHEEL	18	25052	PIVOT	27
954 C40	BOX FOR LOCK	22	2099	GATE STOP	24	20101 V20	STEEL WHEEL	18	25052 B	PIVOT	27
954 C50	BOX FOR LOCK	22	2099V	GATE STOP	24	20116 RG	STEEL WHEEL	20	25052 H	PIVOT	27
955	HOOK LOCK	22	2222 CR	RACK	23	20120V20	STEEL WHEEL	18	25060 SO	HINGE	25
957	HOOK LOCK	23	3012 CR	RACK	23	20120R20	STEEL WHEEL	18	25071	PIVOT	27
958-40-A	HOOK LOCK	22	3012 CP	RACK	23	20120R20X	STEEL WHEEL	21	25071 B	PIVOT	27
958-40-B	HOOK LOCK	22	9050/600	TRACK	14	20121 R20	STEEL WHEEL	18	25071 H	PIVOT	27
958-50-A	HOOK LOCK	22	9050 GPAF	TRACK	16	20121R16	STEEL WHEEL	18	25072	PIVOT	27
958-50-B	HOOK LOCK	22	9050N/600	TRACK	14	20121 RG	STEEL WHEEL	20	25072 B	PIVOT	27
958 G	KEEPER OF LOCK	22	9060/600	TRACK	14	20121 V20	STEEL WHEEL	18	25072 H	PIVOT	27
958 GC	KEEPER OF LOCK	22	9060N/600	TRACK	14	20140 V20	STEEL WHEEL	18	25162	HINGE	26
980 GC	Carriage	17	9060/900	TRACK	14	20140 R20	STEEL WHEEL	18	25162 SO	HINGE	26
980 GR	Carriage	17	9060N/900	TRACK	14	20141R16	STEEL WHEEL	18	25163	HINGE	26
990 GC	Carriage	17	9070N/600	TRACK	14	20141 R20	STEEL WHEEL	18	25163 L	HINGE	26
990 GR	Carriage	17	9070N/900	TRACK	14	20141 V20	STEEL WHEEL	18	25163 SO	HINGE	26
1000 GC	Carriage	17	9952 N	Carriage	7	20160 V20	STEEL WHEEL	18	25163 SOL	HINGE	26
1000 GR	Carriage	17	9952 PAF	Carriage	14	20160 R20	STEEL WHEEL	18	25182	HINGE	26
1008 GC	CAST IRON WHEEL	17	9952 S	Carriage	15	20161 R16	STEEL WHEEL	18	25182 SO	HINGE	26
1008 GR	CAST IRON WHEEL	17	9958 N	Carriage	7	20161 R20	STEEL WHEEL	18	25183	HINGE	26
1009 GC	CAST IRON WHEEL	17	9958 PAF	Carriage	14	20161 V20	STEEL WHEEL	18	25183 L	HINGE	26
1009 GR	CAST IRON WHEEL	17	9958 S	Carriage	15	20200 V20	STEEL WHEEL	18	25183 SO	HINGE	26
1010 GC	GUIDE	17	9962 N	Carriage	7	20200 R20	STEEL WHEEL	18	25183 SOL	HINGE	26
1010 GR	CAST IRON WHEEL	17	9962 PAF	Carriage	14	21081 R16	Carriage	19	25184 SO	HINGE	25
1050	GUIDE	24	9962 S	Carriage	15	21081 R20	Carriage	19	25185	HINGE	26
1050 E	GUIDE	15	9968 N	Carriage	7	21081 V20	Carriage	19	25202	HINGE	16
1050 GA	WHEEL	7	9968 PAF	Carriage	14	21100 V20	Carriage	19	25202 SO	HINGE	26
1051 G	BRACKETS	15	9968 S	Carriage	15	21100 R20	Carriage	19	25203	HINGE	26
1052	GUIDE	24	9972 PAF	Carriage	14	21101 R16	Carriage	19	25203 L	HINGE	26
1052 L	GUIDE	24	9972 S	Carriage	15	21101 R20	Carriage	19	25203 SO	HINGE	26
1053	GUIDE	24	9978 PAF	Carriage	14	21101 V20	Carriage	19	25203 SOL	HINGE	26
1053 L	GUIDE	24	9978 S	Carriage	15	22081 R16	Carriage	19	25204 SO	HINGE	25
1059	GUIDE	16	10500 PAF6	TRACK	7	22081 R20	Carriage	19	25205	HINGE	26
1060 E	GUIDE	15	10510 PAF	CAP	7	22081 V20	Carriage	19	25222	HINGE	26
1060 GA	WHEEL	7	10600 PAF6	TRACK	7	22100 V20	Carriage	19	25222 SO	HINGE	26
1061 G	BRACKETS	15	10600 PAF9	TRACK	7	22100 R20	Carriage	19	25223	HINGE	26
1062	GUIDE	24	10610 PAF	CAP	7	22100R20X	Carriage	21	25223 L	HINGE	26
1064	GUIDE	24	20012 RV/3	PROFILE	17	22101 R16	Carriage	19	25223 SO	HINGE	26
1065	GUIDE	24	20016 M	BRACKET	17	22101 R20	Carriage	19	25223 SOL	HINGE	26
1070 E	GUIDE	15	20016 RG	BRACKET	20	22101 V20	Carriage	19	25224 SO	HINGE	25
1071 G	BRACKETS	15	20016 RV/3	PROFILE	17	22120 V20	Carriage	19	25225	HINGE	26
1115/600	U - PROFILE	24	20020 M	BRACKET	17	22120 R20	Carriage	19	25242	HINGE	26
1290	HANDLE	23	20020 RV/3	PROFILE	17	22120R20X	Carriage	21	25242 SO	HINGE	26
1290 X	HANDLE	23	20020 RVX/3	PROFILE	21	22121 R16	Carriage	19	25243	HINGE	26
1295/50	LEVER HANDLE	23	20021 RG	BRACKET	20	22121 R20	Carriage	19	25243 L	HINGE	26
1295/60	LEVER HANDLE	23	20021 RS/3	PROFILE	17	22121 V20	Carriage	19	25243 SO	HINGE	26
1295/70	LEVER HANDLE	23	20021 RSX/3	PROFILE	20	22140 R20	Carriage	19	25243 SOL	HINGE	26
1297	HANDLE	23	20021 RV/3	PROFILE	17	22140 V20	Carriage	19	25244 SO	HINGE	25
1298	HANDLE	23	20021 VV/3	PROFILE	17	22141 R16	Carriage	19	25245	HINGE	26
1303 S	GATE STOP	29	20061 R12	STEEL WHEEL	18	22141 R20	Carriage	19	25310 D	DOOR CLOOSER	28
1303 V	GATE STOP	29	20061 V10	STEEL WHEEL	18	22141 V20	Carriage	19	25310 G	DOOR CLOOSER	28
1314	CANE BOLT	29	20061V12	STEEL WHEEL	18	23025	GUIDE	24	25318 D	DOOR CLOOSER	28
1314 E	CANE BOLT	29	20061R16	STEEL WHEEL	18	23030	GUIDE	24	25318 G	DOOR CLOOSER	28
1314 EF	FIXING KIT	29	20081 R12	STEEL WHEEL	18	23040	GUIDE	24	0CP20	SQUARE STEEL PILLAR	24
1314 GE	KEEPER OF BOLT	29	20081R16	STEEL WHEEL	18	23040 B	GUIDE	24	0CP30	SQUARE STEEL PILLAR	24
1314 GP	KEEPER OF BOLT	29	20081 R20	STEEL WHEEL	18	23040 L	GUIDE	24	0CP40	SQUARE STEEL PILLAR	24
1314 SO	CANE BOLT	29	20081V12	STEEL WHEEL	18	23040 X	GUIDE	24	0CP50	SQUARE STEEL PILLAR	24
1316	CANE BOLT	29	20081 V20	STEEL WHEEL	18	25040 S	PIVOT	25	0CP60	SQUARE STEEL PILLAR	24
1316 E	CANE BOLT	29	20091R12	STEEL WHEEL	18	25040 BS	PIVOT	25	0CP80	SQUARE STEEL PILLAR	24
1316 B	CANE BOLT	29	20091R16	STEEL WHEEL	18	25040 V	PIVOT	25	0CP100	SQUARE STEEL PILLAR	24
1316 GE	KEEPER OF BOLT	29	20091V12	STEEL WHEEL	18	25050 S	PIVOT	25	0CP120	SQUARE STEEL PILLAR	24
1316 GP	KEEPER OF BOLT	29	20100R20	STEEL WHEEL	18	25050BS	PIVOT	25	0CP150	SQUARE STEEL PILLAR	24
1316 SO	CANE BOLT	29	20100V20	STEEL WHEEL	18	25050 V	PIVOT	25			
1708 PL	PINS	23	20100R20X	STEEL WHEEL	21	25051	PIVOT	27			
2090 S	GATE STOP	29	20101 R12	STEEL WHEEL	18	25051 B	PIVOT	27			
2090 V	GATE STOP	29	20101R16	STEEL WHEEL	18	25051 H	PIVOT	27			



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