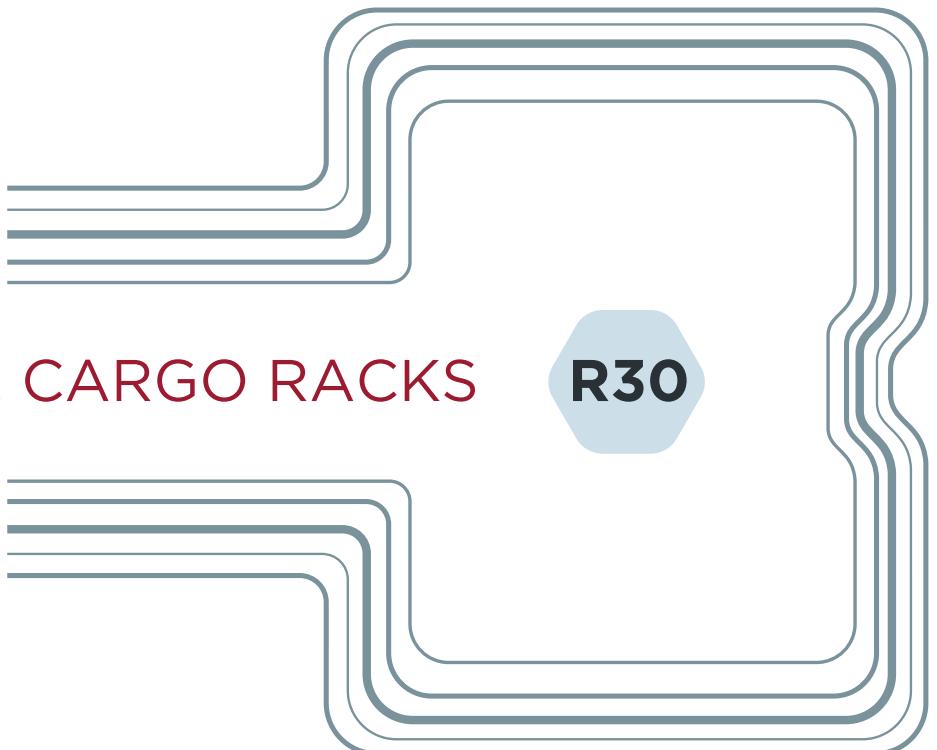


‘19

MID-RANGE CARGO RACKS



**BERNMAX OU**  
PRODUCTION OF SHELVING EQUIPMENT

**GENERAL INFORMATION**

Mid-range cargo racks of R30 series represent a lightened series of storage racks. Their distinctive feature is a reasonable, less metal-consuming structure. Due to their features the racks of R30 series can be used in any warehouses and sales areas. The improved design of the racks makes them suitable for use in any field of activities. Mid-range cargo racks of R30 series are installed in a line of unlimited length, with any number of levels and with the possibility to adjust beams in height with 30 mm pitch.

The basic components of the rack R30 series structure are uprights, beams and shelves.

Uprights of two standard sizes with the cross section of 40x54 mm and 55x54 mm present a solid cold-rolled profile, with inclined perforation on the front surface for installing beams. The possibility of choosing the upright profile section allows to select the rack for the required operational load.

Beams with the profile height of 50mm and 65mm are horizontal bearing elements on which shelves for placing the loads are installed. Profile selection is based on the loads per a storage level. The beam is fastened to the upright backlash-free with the effect of jamming. Thanks to this innovative solution the beam is rigidly fixed to the upright and its deflection is greatly reduced, resulting in an increased load on a beam, that is confirmed by the loading tests. The assembled structure gets increased rigidity, stability and capacity.

Shelves and beams form a working plane on which the goods are laid out. R30 Rack can be equipped by either metal shelves or by decking of chipboard or plywood.

To protect against accidental removal of the hooks from the engagement a lock installed in each bracket is used.

The rack level load capacity is up to 1,5 ton. The total load per a section is up to 7 tons.

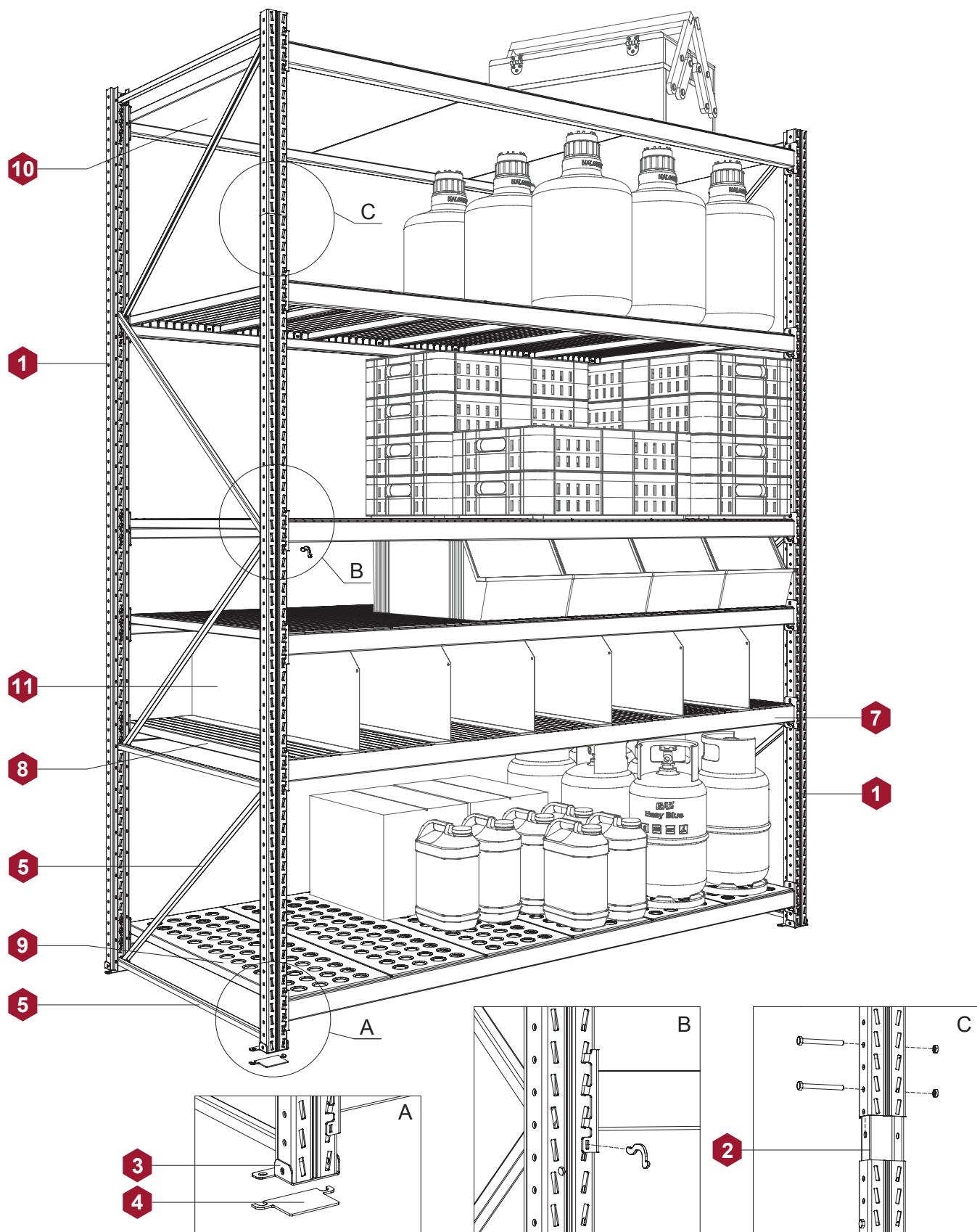
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## TECHNICAL DATA

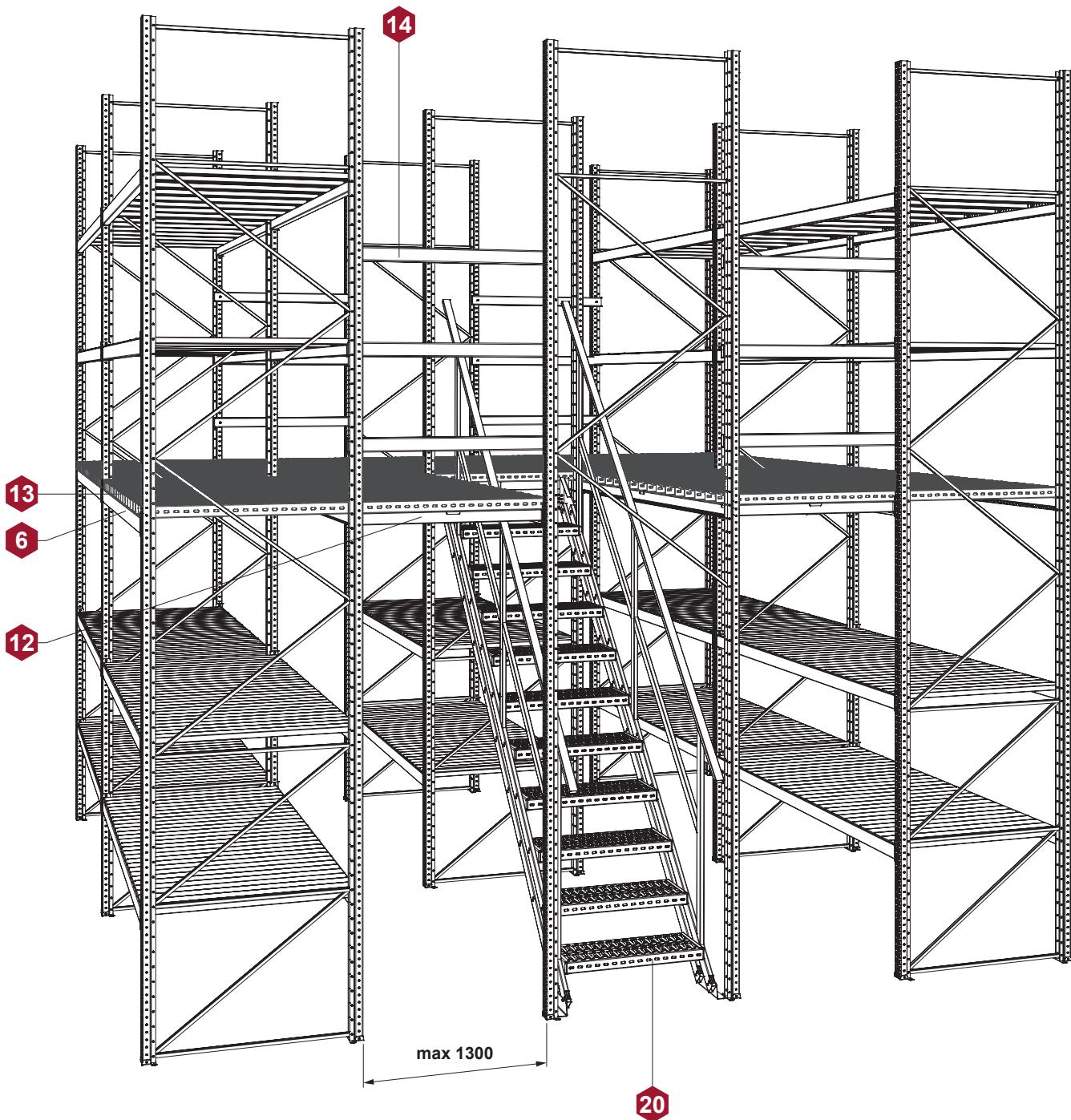


LONG SPAN SHELVING



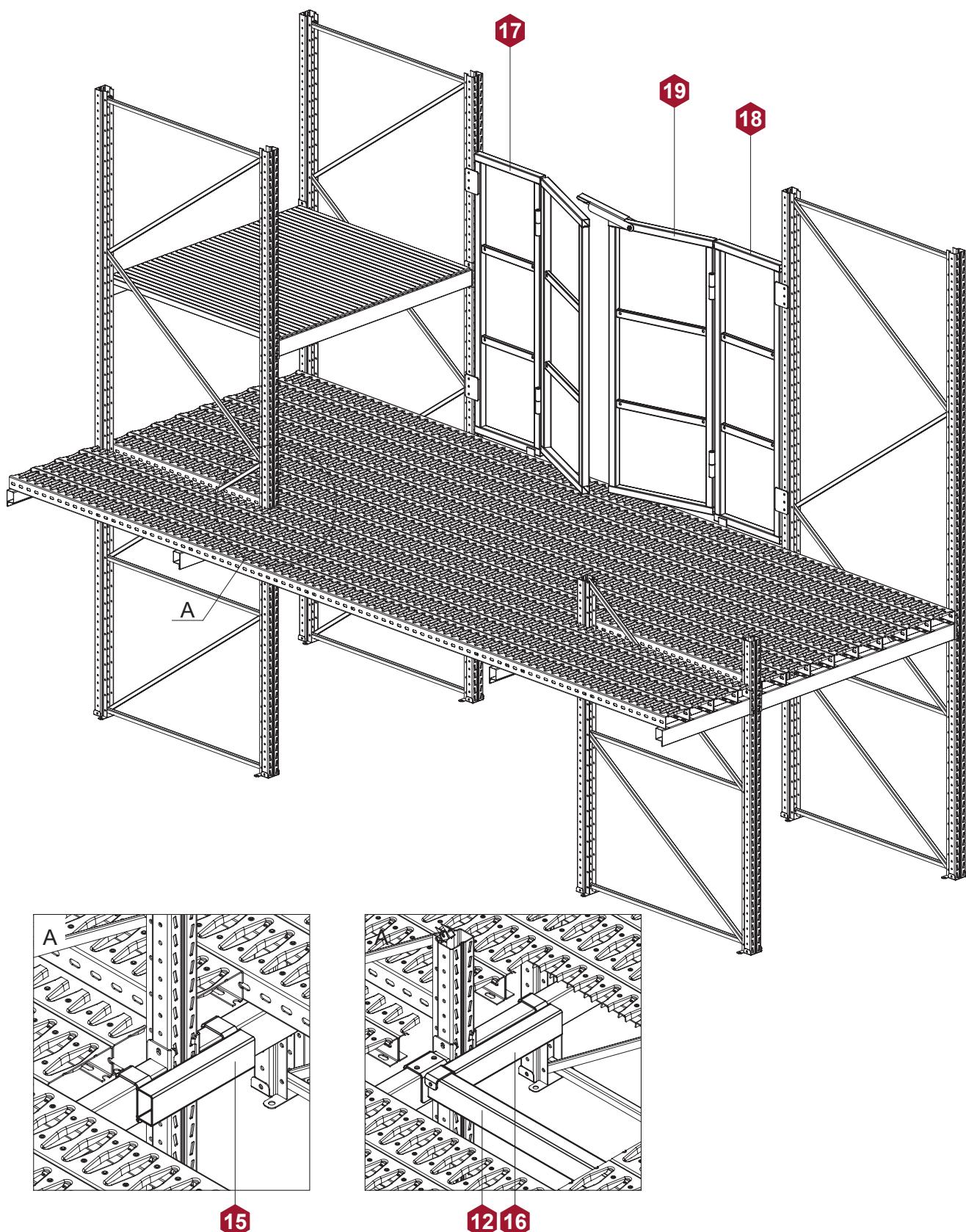
Products with the indicated item numbers are shown on p. 22-29.

## MULTILEVEL SHELVING



Products with the indicated item numbers are shown on p. 25-33.

MULTILEVEL SHELVING



Products with the indicated item numbers are shown on p. 30-32.

**FRAME LOAD CAPACITY**

Frame load capacity depends on the maximum distance between the beam levels or on the distance from the floor to the first level. When increasing the distance between the levels the frame load capacity decreases.

**FRAME MAXIMUM SAFE LOAD CAPACITY (UPRIGHTS FROM SREEL St3 GOST 16523-97), KG**

Upright section	S, mm	Distance between beams hmax, mm							
		480	720	840	960	1200	1440	1680	1920
40	1,2	4 250	3 500	3 125	2 750	1 750	1 250	1 000	750
	1,5	5 000	4 350	4 050	3 750	2 250	1 750	1 250	900
	2,0	7 000	5 750	5 100	4 500	3 000	2 000	1 500	1 200
55	1,2	5 000	4 650	4 500	4 300	4 000	3 000	2 000	1 500
	1,5	6 000	5 650	5 500	5 300	5 000	3 500	2 500	2 000
	2,0	8 000	7 100	6 750	6 300	5 500	4 500	3 250	2 500

**FRAME MAXIMUM SAFE LOAD CAPACITY (UPRIGHTS FROM SREEL S355MC EN10149-2), KG**

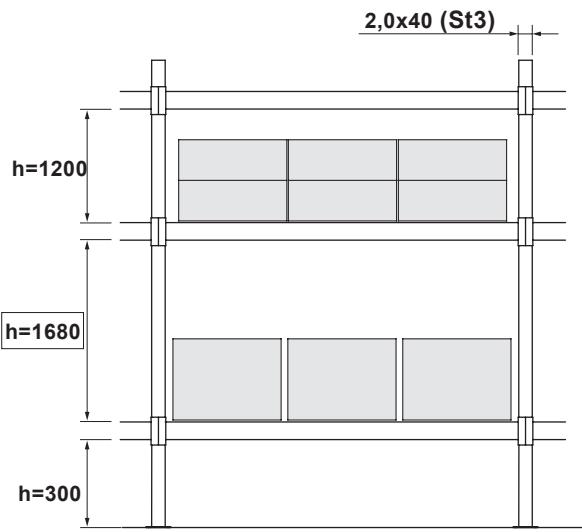
Upright section	S, mm	Distance between beams hmax, mm							
		480	720	840	960	1200	1440	1680	1920
40	1,5	7 250	6 000	5 000	3 750	2 250	1 750	1 250	900
	2,0	10 000	8 000	6 250	4 500	3 000	2 000	1 500	1 200
55	1,5	8 500	7 300	6 750	6 100	5 000	3 500	2 500	2 000
	2,0	11 500	9 650	8 750	7 800	6 000	4 500	3 250	2 500

**Attention!** Maximum permissible load capacity is specified for the standard complete set of frames (pages 14-19) and for the number of storage tiers more than 3.

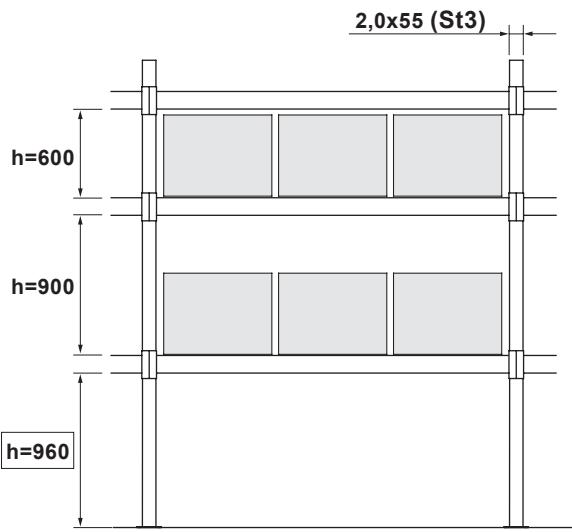
If there is a significant reduction of the load on the rack frame, or when the number of storage tiers is less than 3, the number of braces in the frame complement can be reduced. Information on completing frames is available upon request.

**FRAME LOAD CAPACITY**

**Calculation example:**



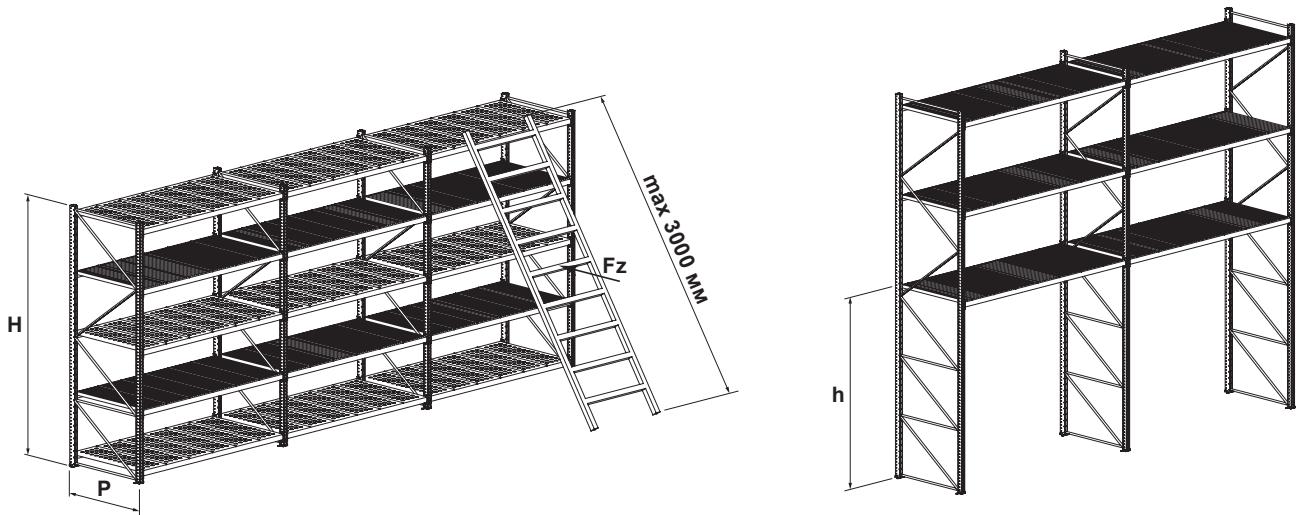
**h 1680 max = 1500 kg**



**h 960max = 6300 kg**

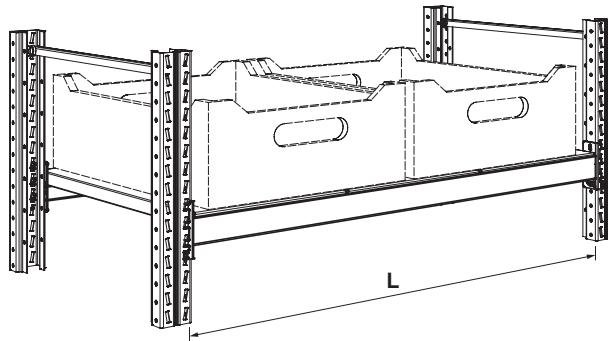
Fastening the rack frames to the floor is mandatory in cases:

1. Excess of the ratio of the rack height (H) to the section depth (T)  $H:T \geq 5:1$ ;
2. If there is lateral tilting force (for example stairs  $F_z \geq 5 \text{ kg}$ )
3. When the first tier height  $h \geq 600 \text{ mm}$



**BEAM LOAD CAPACITY**

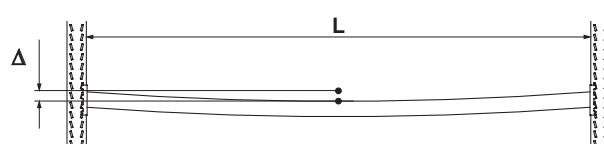
Maximum safe load capacity of beam pair is calculated at condition of even static load and depends on profile cross-section and beam length.

**MAXIMUM SAFE LOAD CAPACITY OF BEAM PAIR, KG**

Beam length L, mm	Beam profile			
	50x35	50x35	65x35	65x35
	50 1,2 35	50 1,5 35	65 1,2 35	65 1,5 35
500	1 200	1 480	1 500	1 500
600	1 100	1 380	1 500	1 500
700	1 000	1 270	1 500	1 500
800	930	1 170	1 500	1 500
900	850	1 080	1 460	1 500
1000	780	960	1 350	1 500
1100	700	880	1 230	1 500
1250	620	760	1 050	1 300
1300	580	700	970	1 220
1500	450	550	780	940
1800	330	410	580	730
2000	280	340	500	620
2300	210	250	400	500
2500	180	220	350	430
3000	100	150	240	320

During the operation the deflection of beams under load is permitted. The maximum permissible beam deflection ( $\Delta$ ):

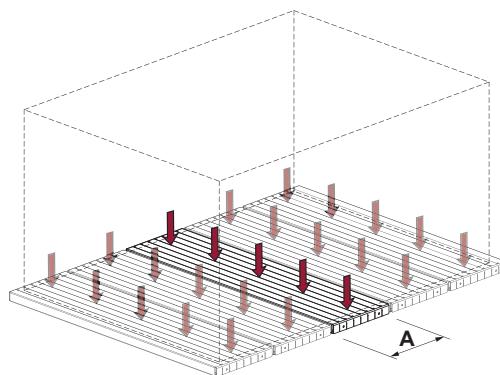
$$\Delta \leq \frac{L}{200}$$



**Example:** for beam with length 2100 mm,  
 $\Delta=2100/200=10,5$  mm.

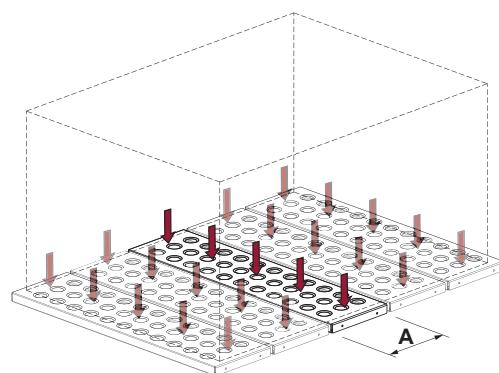
**SHELF LOAD CAPACITY**

Maximum safe load capacity of shelf is calculated at condition of even static load.



**MAXIMUM SAFE LOADING CAPACITY OF SHELF, KG.**

Metal sheet thickness A, mm	Shelf width A, mm	Frame width, mm								
		400	500	600	700	800	900	1000	1050	1100
0,6 (0,65)	100	178	164	150	136	122	108	94	87	80
0,8		270	220	200	180	160	140	120	110	100
1	200	300	275	250	225	200	175	150	137	125
		300	275	250	225	200	175	150	137	125



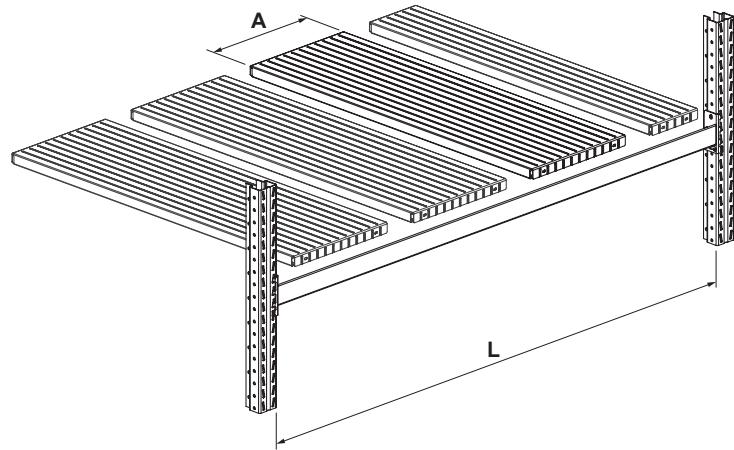
**MAXIMUM SAFE LOADING CAPACITY OF FIRE PROTECTION SHELF, KG.**

Metal sheet thickness A, mm	Shelf width A, mm	Frame width, mm								
		400	500	600	700	800	900	1000	1050	1100
0,6 (0,65)	100	178	164	150	136	122	108	94	87	80
0,8		270	220	200	180	160	140	120	110	100
1	200	300	275	250	225	200	175	150	137	125
		300	275	250	225	200	175	150	137	125

## DATA SHEETS



**SHELVES SET FOR MGK BEAMS**



**NUMBER OF SHELVES WITH A BASE SIZE A=100 mm.**

A, MM	L, MM														
	500	600	700	800	900	1000	1100	1250	1300	1500	1800	2000	2300	2500	3000
30									1						
100	5	6	7	8	9	10	11	12	13	15	18	20	23	25	30

**NUMBER OF SHELVES WITH A BASE SIZE A=150 mm.**

A, MM	L, MM														
	500	600	700	800	900	1000	1100	1250	1300	1500	1800	2000	2300	2500	3000
30															
100	2		1	2		1	2	2	1			2	2	1	
150	2	4	4	4	6	6	6	7	8	10	12	12	14	16	20

**NUMBER OF SHELVES WITH A BASE SIZE A=200 mm.**

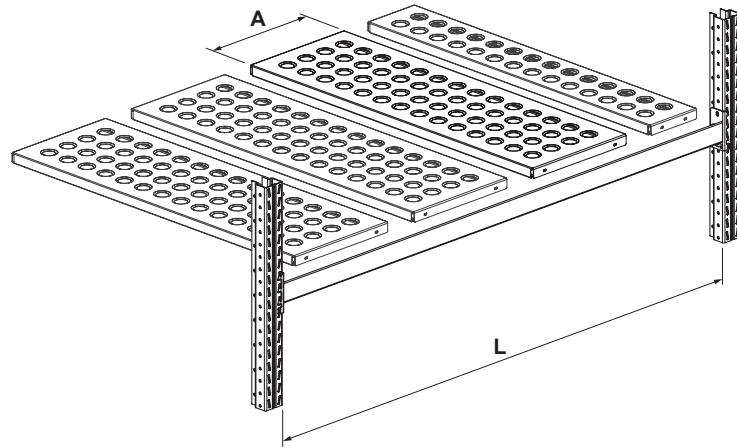
A, MM	L, MM														
	500	600	700	800	900	1000	1100	1250	1300	1500	1800	2000	2300	2500	3000
30															
100	1		1		1		1	1	1	1			1	1	
150								1							
200	2	3	3	4	4	5	5	5	6	7	9	10	11	12	15

**NUMBER OF SHELVES WITH A BASE SIZE A=300 mm.**

A, MM	L, MM														
	500	600	700	800	900	1000	1100	1250	1300	1500	1800	2000	2300	2500	3000
30															
100			1			1				1				1	
150									1						
200	1			1			1	1				1	1		
300	1	2	2	2	3	3	3	3	4	5	6	6	7	8	10

**Example:** for beam of L=1300 mm 8 shelves with the basic size A=150 mm and 1 shelves with size A=100 mm are required.

## FIRE PROTECTION SHELVES SET FOR MGK BEAMS



NUMBER OF SHELVES WITH A BASE SIZE A=150 mm.

A, MM	L, MM														
	500	600	700	800	900	1000	1100	1250	1300	1500	1800	2000	2300	2500	3000
30															
150	2	4	2	4	6	4	6	7	6	10	12	12	14	14	15
200	1		2	1		2	1	1	2			1	1	2	
300															

NUMBER OF SHELVES WITH A BASE SIZE A=200 mm.

A, MM	L, MM														
	500	600	700	800	900	1000	1100	1250	1300	1500	1800	2000	2300	2500	3000
30															
150	2		2		2		2	3	2	2			2	2	
200	1	3	2	4	3	5	4	4	5	6	9	10	10	11	15
300															

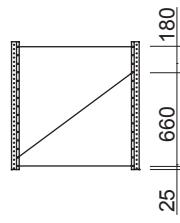
NUMBER OF SHELVES WITH A BASE SIZE A=300 mm.

A, MM	L, MM														
	500	600	700	800	900	1000	1100	1250	1300	1500	1800	2000	2300	2500	3000
30															
150								1							
200	1		2	1		2	1	1	2			1	1		
300	1	2	1	2	3	2	3	3	3	5	6	6	7	8	10

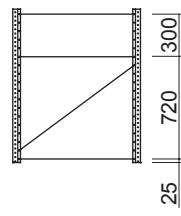
**Example:** for beam of L=1100 mm 6 shelves with the basic size A=150 mm and 1 shelves with size A=200 mm are required.

**FRAME SET FOR R30 SHELVING**

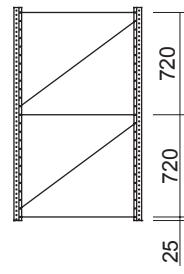
**FRAME ASSEMBLED WITH UPRIGHTS 40 mm**



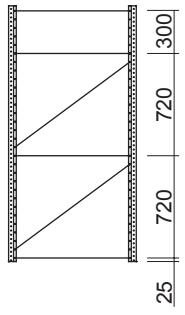
**900**



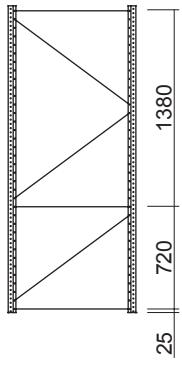
**1080**



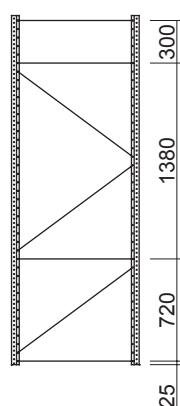
**1500**



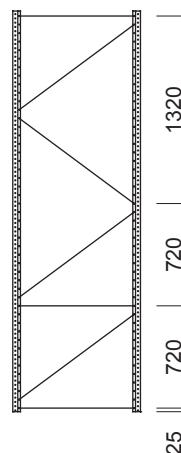
**1800**



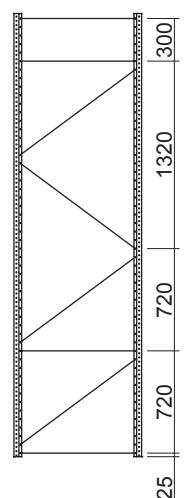
**2160**



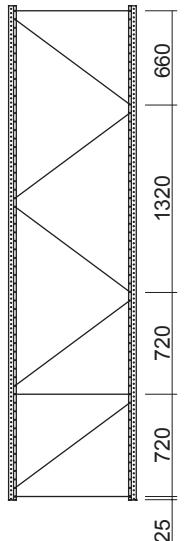
**2460**



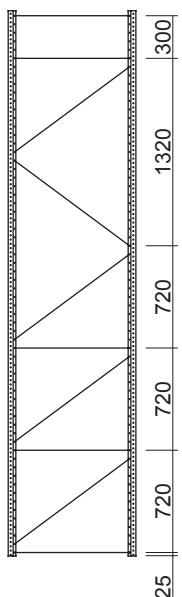
**2820**



**3120**



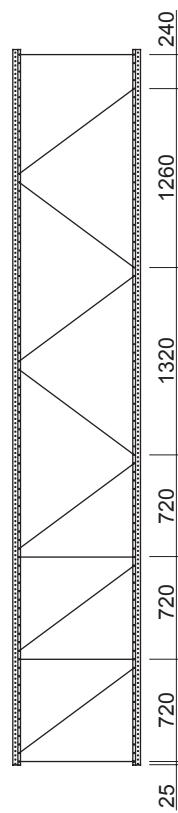
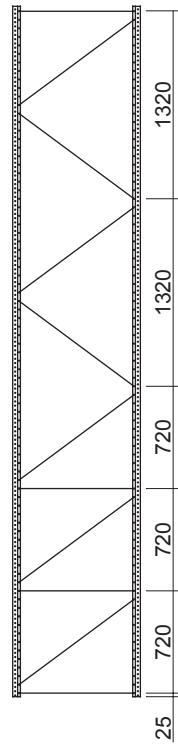
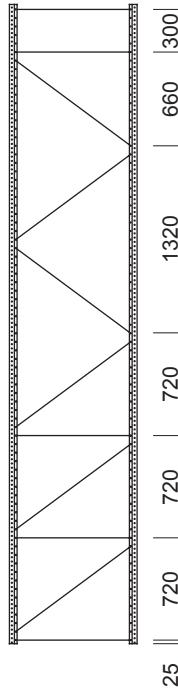
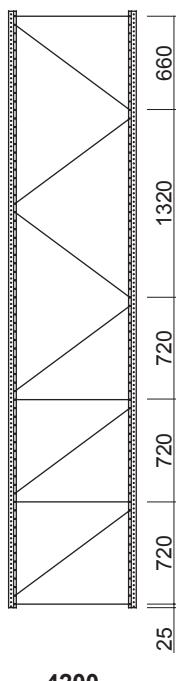
**3480**



**3840**

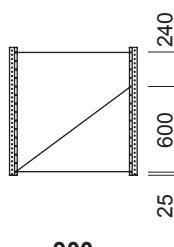
## FRAME SET FOR R30 SHELVING

FRAME ASSEMBLED WITH UPRIGHTS 40 mm

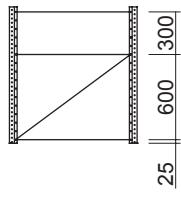


**FRAME SET FOR R30 SHELVING**

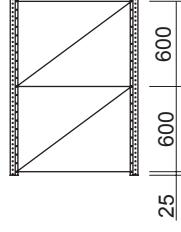
**FRAME ASSEMBLED WITH UPRIGHTS 55 mm**



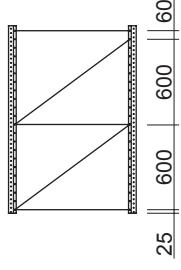
900



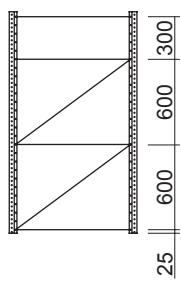
960



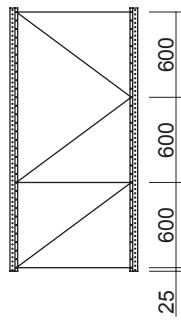
1260



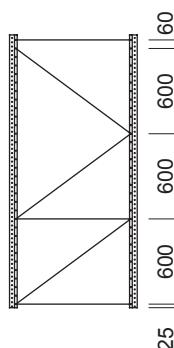
1320



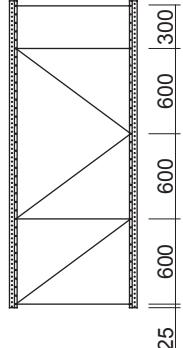
1560



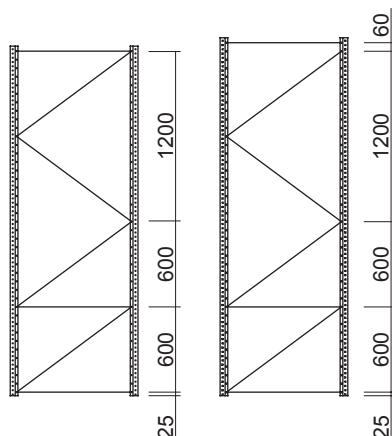
1860



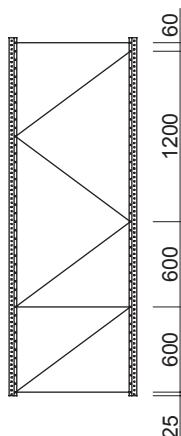
1920



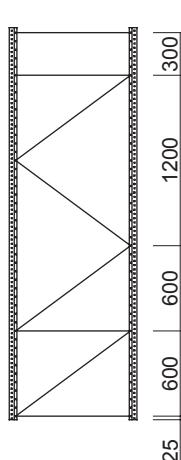
2160



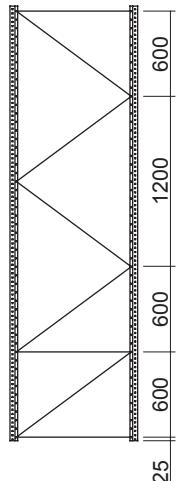
2460



2520



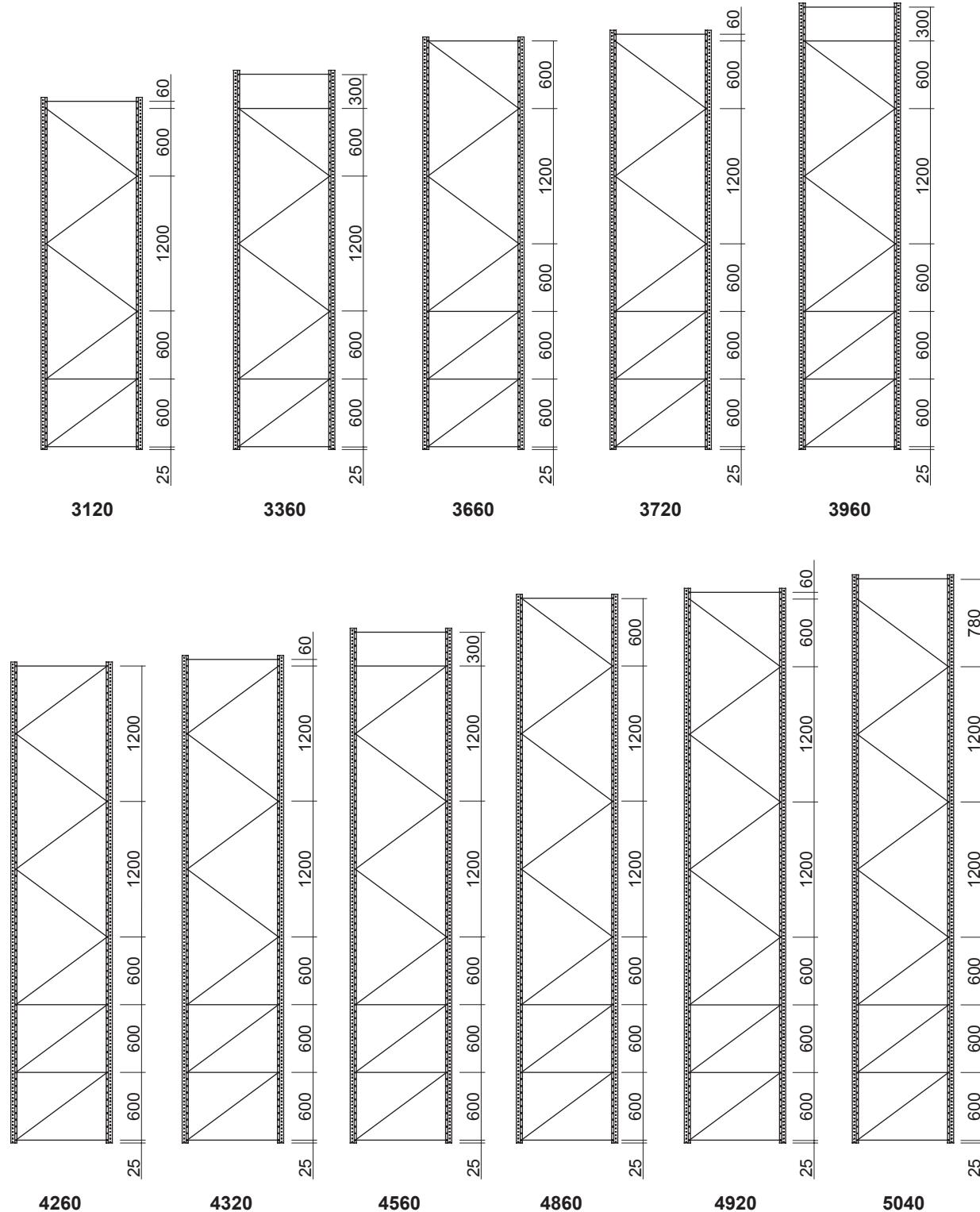
2760



3060

## FRAME SET FOR R30 SHELVING

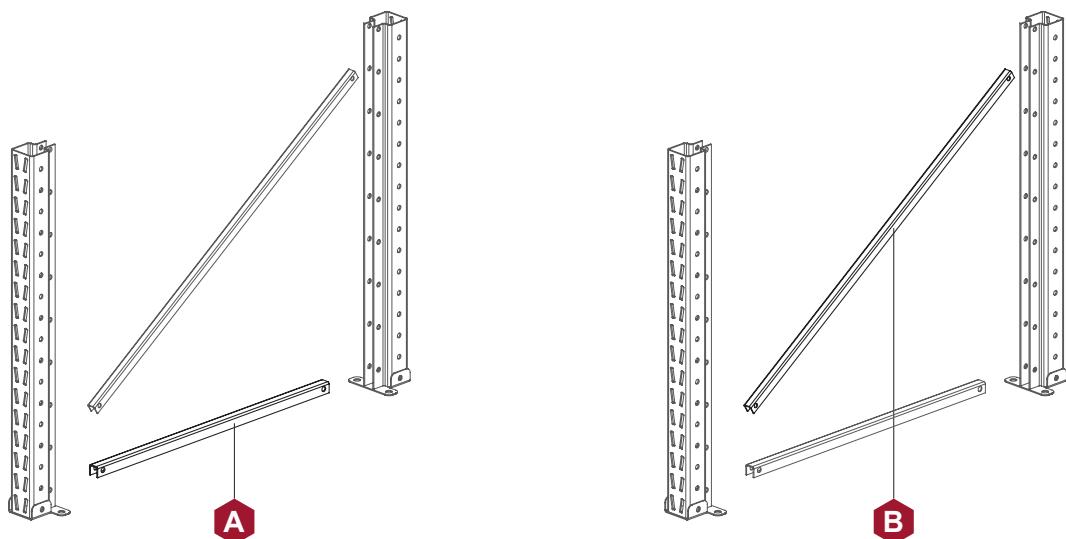
FRAME ASSEMBLED WITH UPRIGHTS 55 mm



**FRAME SET FOR R30 SHELVING**

**FRAME ASSEMBLED WITH UPRIGHTS 40 mm**

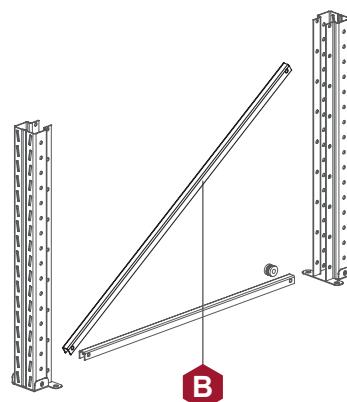
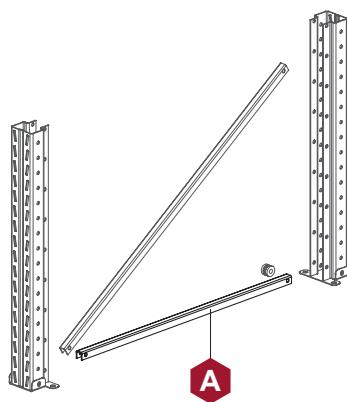
Frame height, mm.	Braces*, pcs.		Bolts M6x25, pcs.	Nuts M6, pcs.
	horizontal	diagonal		
<b>900</b>	2	1	6	6
<b>1080</b>	3	1	8	8
<b>1500</b>	3	2	10	10
<b>1800</b>	4	2	12	12
<b>2160</b>	3	3	12	12
<b>2460</b>	4	3	14	14
<b>2820</b>	3	4	14	14
<b>3120</b>	4	4	16	16
<b>3480</b>	3	5	16	16
<b>3840</b>	5	5	20	20
<b>4200</b>	4	6	20	20
<b>4500</b>	5	6	22	22
<b>4860</b>	4	7	22	22
<b>5040</b>	4	7	22	22



\* The detailed description see on page 24.

**FRAME SET FOR R30 SHELVING****FRAME ASSEMBLED WITH UPRIGHTS 55 mm**

Frame height, mm.	Braces*, pcs.		Inserts, pcs.	Bolts M6x40, pcs.	Nuts M6, pcs.
	horizontal	A	diagonal	B	
900	2		1	4	5
960	3		1	4	6
1260	3		2	2	6
1320	3		2	4	7
1560	4		2	4	8
1860	3		3	2	7
1920	3		3	4	8
2160	4		3	4	9
2460	3		4	2	8
2520	3		4	4	9
2760	4		4	4	10
3060	3		5	2	9
3120	3		5	4	10
3360	4		5	4	11
3660	4		6	2	11
3720	4		6	4	12
3960	5		6	4	13
4260	4		7	2	12
4320	4		7	4	13
4560	5		7	4	14
4860	4		8	2	13
4920	4		8	4	14
5040	4		8	4	14

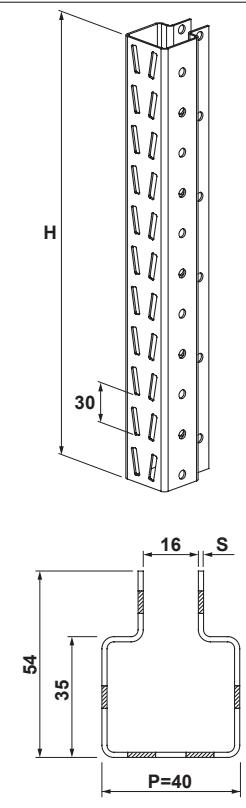


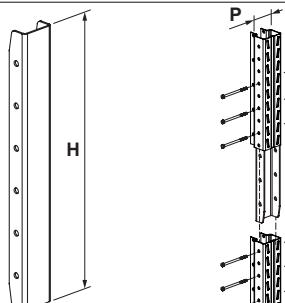
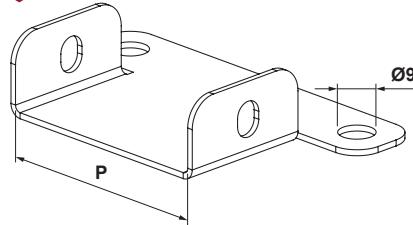
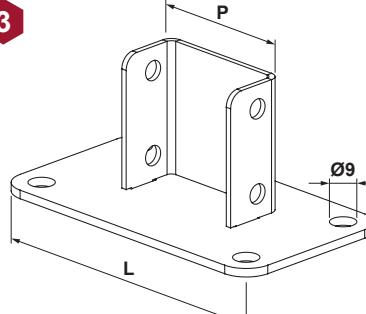
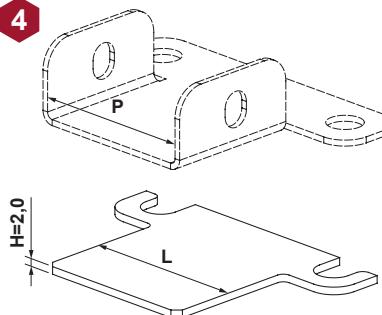
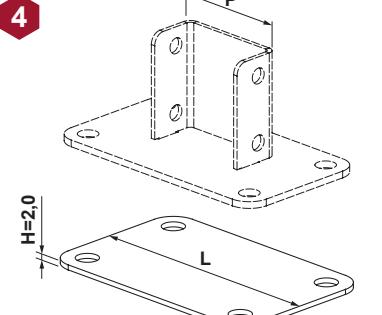
\* The detailed description see on page 24.



## STRUCTURAL COMPONENTS

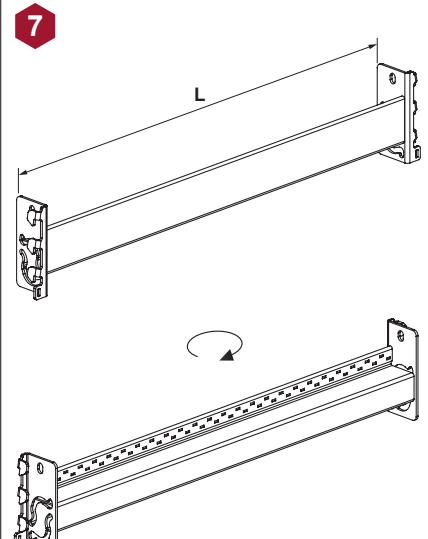
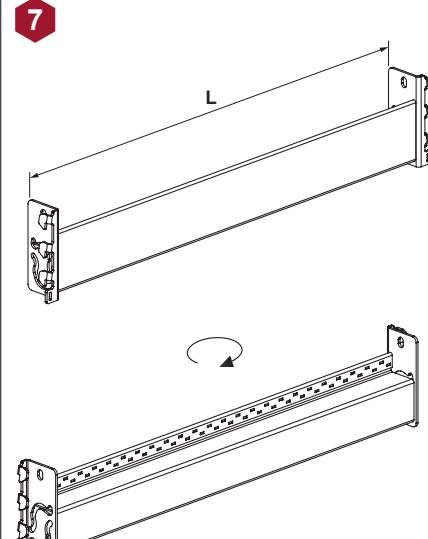


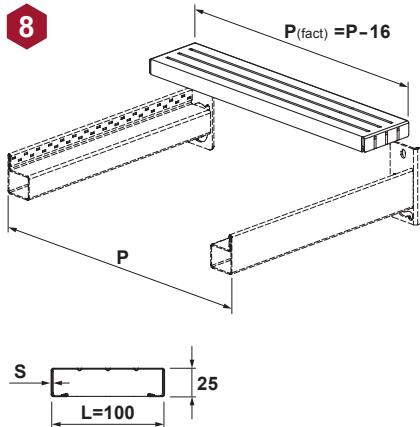
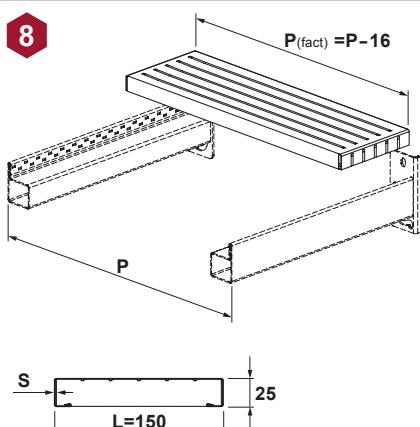
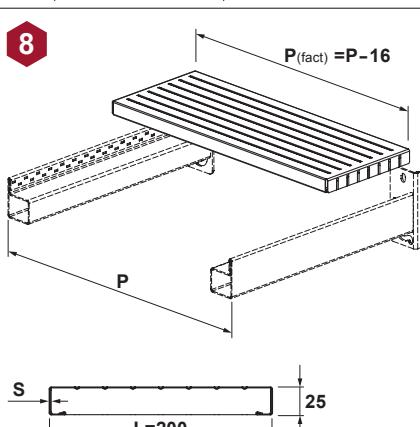
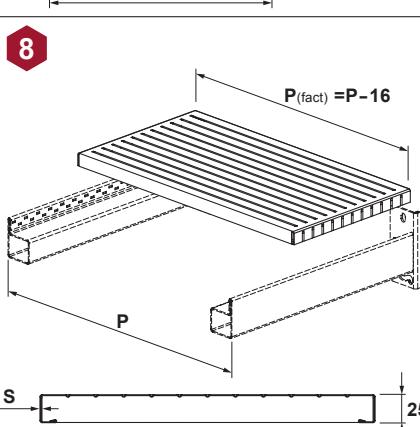
UPRIGHTS				S	P	H	Part No.	
FINISHING	RAL		ZINC	 <p>It is possible to produce uprights with H=180...5040 mm, pitch 60 mm.</p>	1,2	40	900	RC00-0120090
UPRIGHT 40				1,2	40	1980	RC00-0120198	
				1,2	40	2040	RC00-0120204	
				1,2	40	2100	RC00-0120210	
				1,2	40	2160	RC00-0120216	
				1,2	40	2220	RC00-0120222	
				1,2	40	2280	RC00-0120228	
				1,2	40	2340	RC00-0120234	
				1,2	40	2400	RC00-0120240	
				1,2	40	2460	RC00-0120246	
				1,2	40	2520	RC00-0120252	
				1,2	40	5040	RC00-0120504	
UPRIGHT 55				1,5	40	900	RC00-0150090	
				1,5	40	1980	RC00-0150198	
				1,5	40	2040	RC00-0150204	
				1,5	40	2100	RC00-0150210	
				1,5	40	2160	RC00-0150216	
				1,5	40	2220	RC00-0150222	
				1,5	40	2280	RC00-0150228	
				1,5	40	2340	RC00-0150234	
				1,5	40	2400	RC00-0150240	
				1,5	40	2460	RC00-0150246	
				1,5	40	2520	RC00-0150252	
				1,5	40	5040	RC00-0150504	
FINISHING				2,0	40	900	RC00-0200090	
				2,0	40	1980	RC00-0200198	
				2,0	40	2040	RC00-0200204	
				2,0	40	2100	RC00-0200210	
				2,0	40	2160	RC00-0200216	
				2,0	40	2220	RC00-0200222	
				2,0	40	2280	RC00-0200228	
				2,0	40	2340	RC00-0200234	
				2,0	40	2400	RC00-0200240	
				2,0	40	2460	RC00-0200246	
				2,0	40	2520	RC00-0200252	
FINISHING				2,0	40	5040	RC00-0200504	

CONNECTING INSERT, FOOT STEP, LEVELLING PLATE				L	P	H	Part No.		
CONNECTING INSERT									
 Hex head screw M6 - 6 pcs. (option)	Designation	Bolt length	Upright profile	2		40 55	390 390	RA00-0050040 RA00-0050055	
 Self-locking nut M6 RV60-3006000-0001 - 6 pcs. (option)									
FINISHING	RAL			Does not influence loading capacity of frames.					
FOOT STEP				3		40 55		RA00-0030040 RA00-0030055	
 Hex head screw M6 - 2 pcs. (option)	Designation	Bolt length	Upright profile						
 Self-locking nut M6 RV60... - 2 pcs. (option)									
 Wedge anchor M8x80 GV60... - 2 pcs. (option)									
FINISHING	RAL		ZINC						
REINFORCED FOOT STEP				3		100 115	40 55	RA00-0033040 RA00-0033055	
 Hex head screw M6 - 2 pcs. (option)	Designation	Bolt length	Upright profile						
 Self-locking nut M6 RV60... - 2 pcs. (option)									
 Wedge anchor M8x80 GV60... - 2 pcs. (option)									
FINISHING	RAL		ZINC						
LEVELLING PLATE				4		45 60	40 55	2,0 2,0	RU40-0400020 RU40-0550020
FINISHING	0000								
LEVELING PLATE FOR REINFORCED FOOT STEP				4		100 115	40 55	2,0 2,0	RU40-0401020 RU40-0551020
FINISHING	0000		ZINC						

BRACE	L	P	H	Part No.
BRACE 15x15	330	400		RA00-0000330
	380	450		RA00-0000380
	430	500		RA00-0000430
	480	550		RA00-0000480
	530	600		RA00-0000530
	580	650		RA00-0000580
	630	700		RA00-0000630
	680	750		RA00-0000680
	730	800		RA00-0000730
	780	850		RA00-0000780
	830	900		RA00-0000830
	880	950		RA00-0000880
	930	1000		RA00-0000930
	980	1050		RA00-0000980
	1030	1100		RA00-0001030
Number depends on frame set, see page 18				
Hex head bolt M6x25 RV60-1006025-0001 (option) Self-locking nut M6 RV60-3006000-0001 (option)				
Number depends on frame set, see page 19				
Insert GA00-0000000-0014 (option) Bolt head bolt M6x40 RV60-1006040-0001 (option) Self-locking nut M6 RV60-3006000-0001 (option)				
FINISHING	RAL		ZINC	

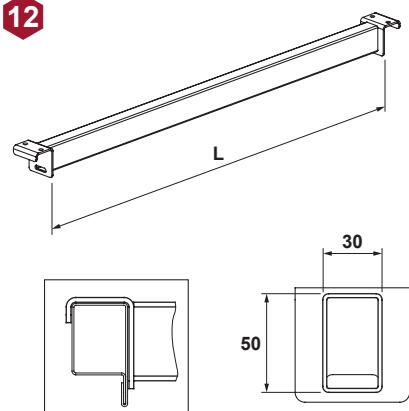
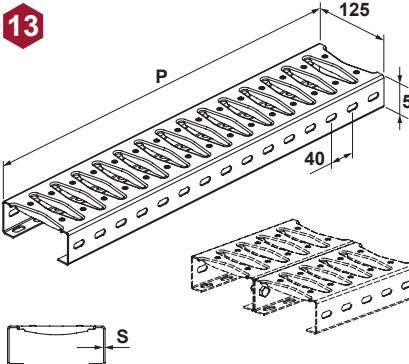
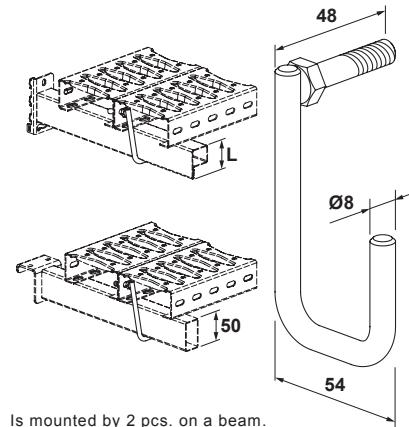
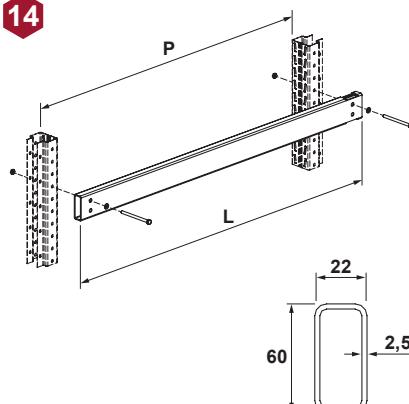
BEAMS MG				L	S	H	Part No.
BEAM MG 50				6			
				500	1,2	50	RE04-0500500
				900	1,2	50	RE04-0500900
				1000	1,2	50	RE04-0501000
				1100	1,2	50	RE04-0501100
				1200	1,2	50	RE04-0501200
				1300	1,2	50	RE04-0501300
				1400	1,2	50	RE04-0501400
				1500	1,2	50	RE04-0501500
				1600	1,2	50	RE04-0501600
				1700	1,2	50	RE04-0501700
				1800	1,2	50	RE04-0501800
				1900	1,2	50	RE04-0501900
				2000	1,2	50	RE04-0502000
				2100	1,2	50	RE04-0502100
				2200	1,2	50	RE04-0502200
				2300	1,2	50	RE04-0502300
				2400	1,2	50	RE04-0502400
				2500	1,2	50	RE04-0502500
				3000	1,2	50	RE04-0503000
				500	1,5	50	RE05-0500500
				900	1,5	50	RE05-0500900
				1000	1,5	50	RE05-0501000
				1100	1,5	50	RE05-0501100
				1200	1,5	50	RE05-0501200
				1300	1,5	50	RE05-0501300
				1400	1,5	50	RE05-0501400
				1500	1,5	50	RE05-0501500
				1600	1,5	50	RE05-0501600
				1700	1,5	50	RE05-0501700
				1800	1,5	50	RE05-0501800
				1900	1,5	50	RE05-0501900
				2000	1,5	50	RE05-0502000
				2100	1,5	50	RE05-0502100
				2200	1,5	50	RE05-0502200
				2300	1,5	50	RE05-0502300
				2400	1,5	50	RE05-0502400
				2500	1,5	50	RE05-0502500
				3000	1,5	50	RE05-0503000
ZINC	Beam lock RU00-0000000-0001 - 2 pcs. (option)						
FINISHING	RAL						
BEAM MG 65				6			
				500	1,2	65	RE04-0650500
				900	1,2	65	RE04-0650900
				1000	1,2	65	RE04-0651000
				1100	1,2	65	RE04-0651100
				1200	1,2	65	RE04-0651200
				1300	1,2	65	RE04-0651300
				1400	1,2	65	RE04-0651400
				1500	1,2	65	RE04-0651500
				1600	1,2	65	RE04-0651600
				1700	1,2	65	RE04-0651700
				1800	1,2	65	RE04-0651800
				1900	1,2	65	RE04-0651900
				2000	1,2	65	RE04-0652000
				2100	1,2	65	RE04-0652100
				2200	1,2	65	RE04-0652200
				2300	1,2	65	RE04-0652300
				2400	1,2	65	RE04-0652400
				2500	1,2	65	RE04-0652500
				3000	1,2	65	RE04-0653000
ZINC	Beam lock RU00-0000000-0001 - 2 pcs. (option)						
FINISHING	RAL						

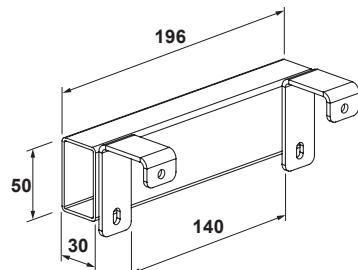
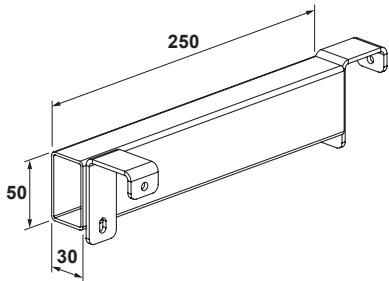
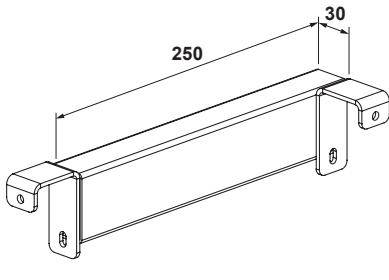
<b>BEAMS MGK</b>				<b>L</b>	<b>S</b>	<b>H</b>	<b>Part No.</b>
BEAM MGK 50				7			
							
							500 1,2 50 RE01-0500500
							900 1,2 50 RE01-0500900
							1000 1,2 50 RE01-0501000
							1100 1,2 50 RE01-0501100
							1200 1,2 50 RE01-0501200
							1300 1,2 50 RE01-0501300
							1400 1,2 50 RE01-0501400
							1500 1,2 50 RE01-0501500
							1600 1,2 50 RE01-0501600
							1700 1,2 50 RE01-0501700
							1800 1,2 50 RE01-0501800
							1900 1,2 50 RE01-0501900
							2000 1,2 50 RE01-0502000
							2100 1,2 50 RE01-0502100
							2200 1,2 50 RE01-0502200
							2300 1,2 50 RE01-0502300
							2400 1,2 50 RE01-0502400
							2500 1,2 50 RE01-0502500
							3000 1,2 50 RE01-0503000
							500 1,5 50 RE02-0500500
							900 1,5 50 RE02-0500900
							1000 1,5 50 RE02-0501000
							1100 1,5 50 RE02-0501100
							1200 1,5 50 RE02-0501200
							1300 1,5 50 RE02-0501300
							1400 1,5 50 RE02-0501400
							1500 1,5 50 RE02-0501500
							1600 1,5 50 RE02-0501600
							1700 1,5 50 RE02-0501700
							1800 1,5 50 RE02-0501800
							1900 1,5 50 RE02-0501900
							2000 1,5 50 RE02-0502000
							2100 1,5 50 RE02-0502100
							2200 1,5 50 RE02-0502200
							2300 1,5 50 RE02-0502300
							2400 1,5 50 RE02-0502400
							2500 1,5 50 RE02-0502500
							3000 1,5 50 RE02-0503000
 Lock for bracing MGK beams RU80-0000001 - 1 pcs. (used with beams from 1800 mm long) (option)	ZINC						
 Beam lock RU00-0000000-0001 - 2 pcs. (option)	ZINC						
<b>FINISHING</b>	<b>RAL</b>						
BEAM MGK 65				7			
							
							500 1,2 65 RE01-0650500
							900 1,2 65 RE01-0650900
							1000 1,2 65 RE01-0651000
							1100 1,2 65 RE01-0651100
							1200 1,2 65 RE01-0651200
							1300 1,2 65 RE01-0651300
							1400 1,2 65 RE01-0651400
							1500 1,2 65 RE01-0651500
							1600 1,2 65 RE01-0651600
							1700 1,2 65 RE01-0651700
							1800 1,2 65 RE01-0651800
							1900 1,2 65 RE01-0651900
							2000 1,2 65 RE01-0652000
							2100 1,2 65 RE01-0652100
							2200 1,2 65 RE01-0652200
							2300 1,2 65 RE01-0652300
							2400 1,2 65 RE01-0652400
							2500 1,2 65 RE01-0652500
							3000 1,2 65 RE01-0653000
 Lock for bracing MGK beams RU80-0000001 - 1 pcs. (used with beams from 1800 mm long) (option)	ZINC						
 Beam lock RU00-0000000-0001 - 2 pcs. (option)	ZINC						
<b>FINISHING</b>	<b>RAL</b>						

SHELVES				L	P	S	Part No.
SHELF 100				100 100 100	400 ... 1100	0,6 0,6 0,6	RG00-6100400 RG00-6101100
				100 100 100	400 ... 1100	0,8 0,8 0,8	RG00-8100400 RG00-8101100
				100 100 100	400 ... 1100	1 1 1	RG00-1000400 RG00-1001100
FINISHING	RAL		ZINC				
SHELF 150				150 150 150	400 ... 1100	0,6 0,6 0,6	RG00-6150400 RG00-6151100
				150 150 150	400 ... 1100	0,8 0,8 0,8	RG00-8150400 RG00-8151100
				150 150 150	400 ... 1100	1 1 1	RG00-1500400 RG00-1501100
FINISHING	RAL		ZINC				
SHELF 200				200 200 200	400 ... 1100	0,6 0,6 0,6	RG00-6200400 RG00-6201100
				200 200 200	400 ... 1100	0,8 0,8 0,8	RG00-8200400 RG00-8201100
				200 200 200	400 ... 1100	1 1 1	RG00-2000400 RG00-2001100
FINISHING	RAL		ZINC				
SHELF 300				300 300 300	400 ... 1100	0,6 0,6 0,6	RG00-6300400 RG00-6301100
				300 300 300	400 ... 1100	0,8 0,8 0,8	RG00-8300400 RG00-8301100
				300 300 300	400 ... 1100	1 1 1	RG00-3000400 RG00-3001100
FINISHING	RAL		ZINC				

FIRE PROTECTION SHELF				L	P	S	Part No.
FIRE PROTECTION SHELF 150				150 150 150 150 150 150 150 150 150 150	400 500 600 700 800 900 1000 1050 1100	0,6 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0,6	RG01-6150400 RG01-6150500 RG01-6150600 RG01-6150700 RG01-6150800 RG01-6150900 RG01-6151000 RG01-6151050 RG01-6151100
				150 150 150 150 150 150 150 150 150 150	400 500 600 700 800 900 1000 1050 1100	0,8 0,8 0,8 0,8 0,8 0,8 0,8 0,8 0,8	RG01-8150400 RG01-8150500 RG01-8150600 RG01-8150700 RG01-8150800 RG01-8150900 RG01-8151000 RG01-8151050 RG01-8151100
				150 150 150 150 150 150 150 150 150 150	400 500 600 700 800 900 1000 1050 1100	1 1 1 1 1 1 1 1 1	RG01-1500400 RG01-1500500 RG01-1500600 RG01-1500700 RG01-1500800 RG01-1500900 RG01-1501000 RG01-1501050 RG01-1501100
FINISHING      RAL           ZINC							
FIRE PROTECTION SHELF 200				200 200 200 200 200 200 200 200 200	400 500 600 700 800 900 1000 1050 1100	0,6 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0,6	RG01-6200400 RG01-6200500 RG01-6200600 RG01-6200700 RG01-6200800 RG01-6200900 RG01-6201000 RG01-6201050 RG01-6201100
				200 200 200 200 200 200 200 200 200	400 500 600 700 800 900 1000 1050 1100	0,8 0,8 0,8 0,8 0,8 0,8 0,8 0,8 0,8	RG01-8200400 RG01-8200500 RG01-8200600 RG01-8200700 RG01-8200800 RG01-8200900 RG01-8201000 RG01-8201050 RG01-8201100
				200 200 200 200 200 200 200 200 200	400 500 600 700 800 900 1000 1050 1100	1 1 1 1 1 1 1 1 1	RG01-2000400 RG01-2000500 RG01-2000600 RG01-2000700 RG01-2000800 RG01-2000900 RG01-2001000 RG01-2001050 RG01-2001100
FINISHING      RAL           ZINC							

FIRE PROTECTION SHELF, LAMINATED CHIPBOARD FLOORING, SOLID DIVIDER				L	P	S	Part No.
FIRE PROTECTION SHELF 300				300	400	0,6	RG01-6300400
				300	500	0,6	RG01-6300500
				300	600	0,6	RG01-6300600
				300	700	0,6	RG01-6300700
				300	800	0,6	RG01-6300800
				300	900	0,6	RG01-6300900
				300	1000	0,6	RG01-6301000
				300	1050	0,6	RG01-6301050
				300	1100	0,6	RG01-6301100
				300	400	0,8	RG01-8300400
				300	500	0,8	RG01-8300500
				300	600	0,8	RG01-8300600
				300	700	0,8	RG01-8300700
				300	800	0,8	RG01-8300800
				300	900	0,8	RG01-8300900
				300	1000	0,8	RG01-8301000
				300	1050	0,8	RG01-8301050
				300	1100	0,8	RG01-8301100
				300	400	1	RG01-3000400
				300	500	1	RG01-3000500
				300	600	1	RG01-3000600
				300	700	1	RG01-3000700
				300	800	1	RG01-3000800
				300	900	1	RG01-3000900
				300	1000	1	RG01-3001000
				300	1050	1	RG01-3001050
				300	1100	1	RG01-3001100
FINISHING	RAL		ZINC				
LAMINATED CHIPBOARD FLOORING FOR MGK BEAM				1000	500		RG11-0501000-0012
				1250	500		RG11-0501250-0012
				1500	500		RG11-0501500-0012
				1800	500		RG11-0501800-0012
				1000	600		RG11-0601000-0012
				1250	600		RG11-0601250-0012
				1500	600		RG11-0601500-0012
				1800	600		RG11-0601800-0012
				1000	700		RG11-0701000-0012
				1250	700		RG11-0701250-0012
				1500	700		RG11-0701500-0012
				1800	700		RG11-0701800-0012
				1000	800		RG11-0801000-0012
				1250	800		RG11-0801250-0012
				1500	800		RG11-0801500-0012
				1800	800		RG11-0801800-0012
MATERIAL	0012						
SOLID DIVIDER ON A SHELF 250				383	400		RT05-2500400
				483	500		RT05-2500500
				583	600		RT05-2500600
				683	700		RT05-2500700
				783	800		RT05-2500800
				883	900		RT05-2500900
				983	1000		RT05-2501000
				1083	1100		RT05-2501100
FINISHING	RAL						

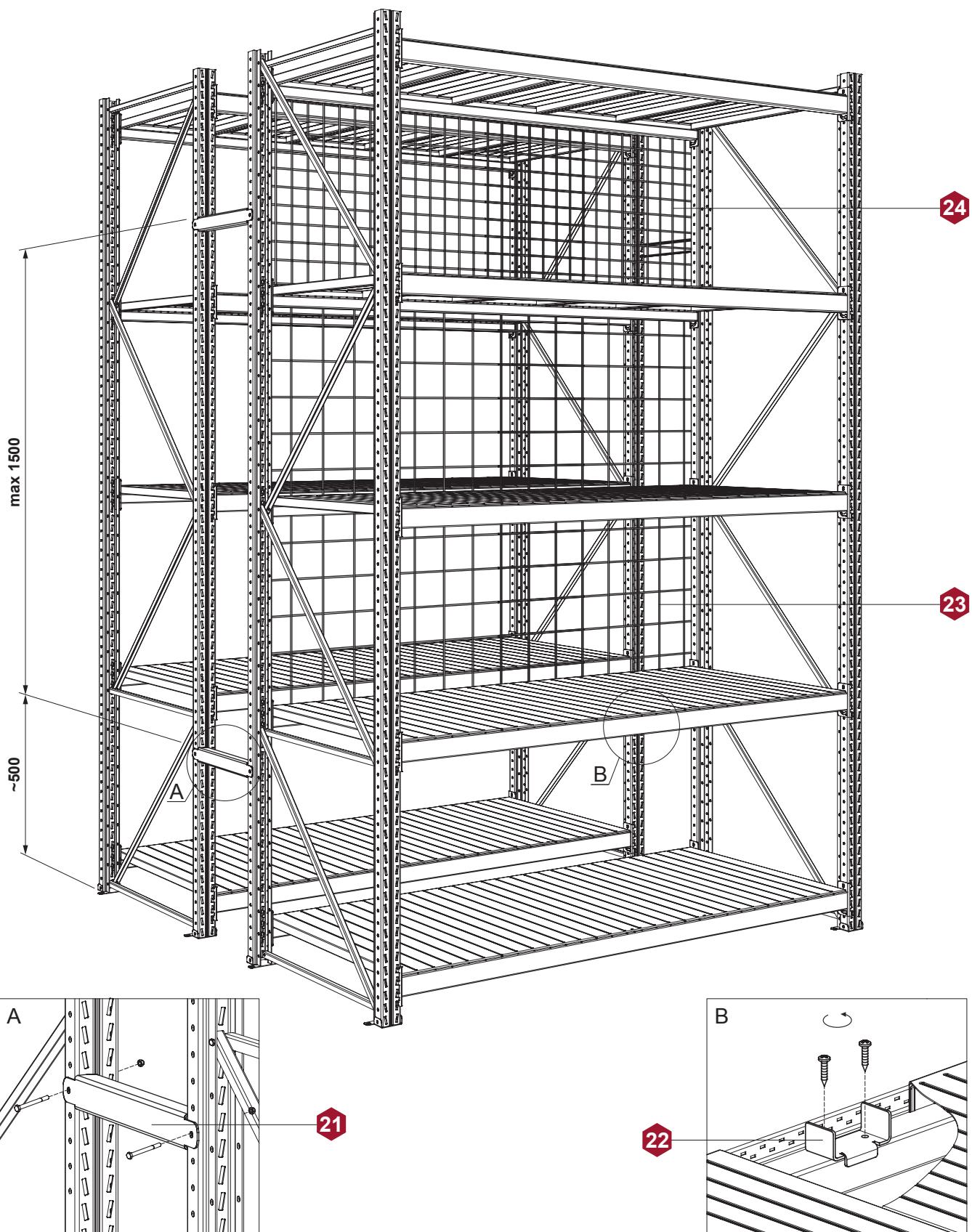
MULTILEVEL SHELVINGS				L	P	S	Part No.
FINISHING	RAL		ZINC				
OUTER CROSS BEAM 50 (FOR AISLE)					800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800		RE13-0500800 RE13-0500850 RE13-0500900 RE13-0500950 RE13-0501000 RE13-0501050 RE13-0501100 RE13-0501150 RE13-0501200 RE13-0501250 RE13-0501300 RE13-0501350 RE13-0501400 RE13-0501450 RE13-0501500 RE13-0501700 RE13-0501750 RE13-0501800
PROFILED FLOORING WITH PERFORATION 125					400 440 480 ... 7960 8000  400 440 480 ... 7960 8000  400 440 480 ... 7960 8000	1,2 1,2 1,2 ... 1,2 1,2  1,5 1,5 1,5 ... 1,5 1,5  2,0 2,0 2,0 ... 2,0 2,0	GP21-1200400 GP21-1200440 GP21-1200480 ... GP21-1207960 GP21-1208000  GP21-1500400 GP21-1500440 GP21-1500480 ... GP21-1507960 GP21-1508000  GP21-2000400 GP21-2000440 GP21-2000480 ... GP21-2007960 GP21-2008000
* The quantity depends on the decking length.				The recommended pitch of bolt placing - 320 mm.			
DECKING LOCK ON A BEAM					50 65		RP30-0000050 RP30-0000065
PROTECTION BAR 60x22					895 995 1095 1195 1245 1295 1345 ... 1395	800 900 1000 1100 1150 1200 1250 ... 1300	GU00-6020895 GU00-6020095 GU00-6021095 GU00-6021195 GU00-6021245 GU00-6021295 GU00-6021345 ... GU00-6021395
FINISHING	RAL		ZINC				

MULTILEVEL SHELVINGS				S	P	H	 kg	Part No.	
CANTILEVER DECKING SUPPORT FOR BEAM R30				15				600	RP32-0000190
FINISHING	RAL			16				600	RP32-0010250
RIGHT CANTILEVER DECKING SUPPORT FOR BEAM R30				16				600	RP32-0020250
FINISHING	RAL								
LEFT CANTILEVER DECKING SUPPORT FOR BEAM R30									
FINISHING	RAL								

MULTILEVEL SHELVINGS				S	P	H	Part No.									
LEFT FENCE 1100 FOR HINGED GATES				17												
 Hex head bolt M6 - 6 pcs. (option)																
<table border="1"> <thead> <tr> <th>Designation</th> <th>Bolt length</th> <th>Upright profile</th> </tr> </thead> <tbody> <tr> <td>RV60-1006050-0001</td> <td>50</td> <td>40</td> </tr> <tr> <td>RV60-1006065-0001</td> <td>65</td> <td>55</td> </tr> </tbody> </table>	Designation	Bolt length	Upright profile	RV60-1006050-0001	50	40	RV60-1006065-0001	65	55							
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RV60-1006050-0001	50	40														
RV60-1006065-0001	65	55														
 Self-locking nut M6 RV60-3006000-0001 - 6 pcs. (option)																
 Screw M8x20 GV60-1008020 - 1 pcs. (option)																
 Self-locking nut M8 GV60-3008000 - 1 pcs. (option)																
<b>FINISHING</b>	RAL															
RIGHT FENCE 1100 FOR HINGED GATES				18												
 Hex head bolt M6 - 6 pcs. (option)																
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 Self-locking nut M8 GV60-3008000 - 1 pcs. (option)																
<b>FINISHING</b>	RAL															
HINGED GATES 1100				19												
Included in the complete set:																
 Right leaf 1100 GP40-1100... - 1 pcs.																
 Left leaf 1100 GP40-1110... - 1 pcs.																
 Lock GP40-1110500 - 1 pcs.																
 Bolt M8x50 - 1 pcs.																
 Self-locking nut M8 GV60-3008000-0001 - 1 pcs.																
<b>FINISHING</b>	RAL															

MULTILEVEL SHELVINGS				L	P	H	Part No.
STAIR 45°				3130	700	2100	GP00-2107045
Included in the set:				3250	700	2300	GP00-2307045
Left railing GP00... - 1 pcs.	Plug 20x40 E2.92.100.0014 - 4 pcs.			3580	700	2500	GP00-2507045
Right railing GP00... - 1 pcs.	Step 250 (see the table) GP00-280...			4250	700	3000	GP00-3007045
Труба GP00... - 2 шт. / Pipe GP00... - 2 pcs.	Screw M8x45 (see the table) GV60-1008045.			1620	800	1100	GP00-1108045
Right lower holder GP00-2808045 - 1 pcs.	Nut M8 (see the table) GV60-3008000.			2170	800	1500	GP00-1508045
Left lower holder GP00-2808045 - 1 pcs.				2320	800	1600	GP00-1608045
Right upper holder GP00-2808045-120 - 1 pcs.				2720	800	1900	GP00-1908045
Left upper holder GP00-2808045-130 - 1 pcs.				2980	800	2100	GP00-2108045
Wedge anchor M10x100 GV60-0010100 - 2 pcs. (option)				3130	800	2200	GP00-2208045
<b>FINISHING</b>	<b>RAL</b>			3250	800	2300	GP00-2308045
<b>ЛЕСТНИЦА 45°, (ОЦ. СТУПЕНИ)</b> <b>STAIR 45°, (GALVANIZED STEP)</b>				3580	800	2500	GP00-2508045
В комплект поставки входит / Included in the set:				3860	800	2700	GP00-2708045
Left railing GP00... - 1 pcs.	Plug 20x40 E2.92.100.0014 - 4 pcs.			4250	800	3000	GP00-3009045
Right railing GP00... - 1 pcs.	Decking 760 (see the table) GP21-1500760-0001			3130	1000	2200	GP00-2201045
Pipe GP00... - 2 pcs.	Step bracket (see the table) GP01-02507609			3540	1000	2500	GP00-2501045
Right lower holder GP00-2808045 - 1 pcs.	Screw M8x16 (see the table) B3.86.006.0001			3860	1000	2700	GP00-2701045
Left lower holder GP00-2808045 - 1 pcs.	Screw M8x45 (see the table) GV60-1008045.			5740	1000	4000	GP00-4001045
Right upper holder GP00-2808045 - 1 pcs.	Nut M8 (see the table) GV60-3008000.			3860	1200	2700	GP00-2701245
Wedge anchor M10x100 GV60-0010100 - 2 pcs. (option)							
<b>FINISHING</b>	<b>RAL</b>						
<b>20</b>		<b>Size specification</b>					
		<b>P</b>	<b>N</b>	<b>K</b>			
	700	656	776				
	800	776	896				
	900	856	976				
	1000	976	1096				
	1200	1176	1296				
<b>20</b>		<b>Size specification</b>					
	<b>P</b>	<b>N</b>	<b>K</b>				
3130	800	2200	GP01-2208045				
3540	800	2500	GP01-2508045				
3860	800	2700	GP01-2708045				
4000	800	2800	GP01-2808045				
4250	800	3000	GP01-3008045				
5150	800	3600	GP01-3608045				
3420	1200	2400	GP01-2401245				
3540	1200	2500	GP01-2501245				
<b>FINISHING</b>	<b>RAL</b>						
<b>20</b>		<b>Size specification</b>					
	<b>P</b>	<b>N</b>	<b>K</b>				
800	776	896					
1200	1176	1296					
<small>* Used with stairs P=1200 (page 47)</small>							

**SAFETY ELEMENTS**



SAFETY ELEMENTS				L	P	H	Part No.	
CONNECTOR OF ADJACENT ROWS								
	Hex head bolt M6 - 2 pcs. (option)			<b>21</b>				
	Designation	Bolt length	Upright profile					
RV60-1006050-0001	50	40			50		RU60-0000050	
RV60-1006065-0001	65	55			70		RU60-0000070	
	Self-locking nut M6 RV60-3006000-0001 - 2 pcs. (option)							
<b>FINISHING</b>	<b>RAL</b>							
LOCK FOR BRACING MGK BEAMS				<b>22</b>				
	Screw for mtl. 4,8x19 GV60-5048019-0001 - 2 pcs. (included in the complete set)						RU80-0000001	
<b>FINISHING</b>	<b>RAL</b>							
WIRE MESH BACK PANEL				<b>23</b>	1040 1290	1000 1250	900 900	RH10-9001000 RH10-9001250
	Clamp 5x400 GV61-0500400 - 6 pcs. (included in the complete set)				1040 1290	1000 1250	1100 1100	RH10-1101000 RH10-1101250
WIRE MESH BACK PANEL (CELL SIZE 50X50)				<b>24</b>	1040 1290	900 900	900 900	RH11-9001000 RH11-9001250
	Clamp 5x400 GV61-0500400 - 6 pcs. (included in the complete set)				1040 1290	1100 1100	1100 1100	RH11-1101000 RH11-1101250

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PRODUCTION OF SHELVING EQUIPMENT