

We store: high. wide. deep. safe.



Cantilever racks

System K100

single-sided

double-sided

Economical Use of Space

The K100 cantilever rack from Vogelsang meets all of the requirements when it comes to economically storing long and heavy goods. These include a clear and space-saving storage, a secure storage and fast access in addition to a high load-bearing capacity and flexible storage possibilities.

The K100 rack system has the best requirements for this. Stands with heights of between 2000 mm and 6000 mm are available, in addition to such for the most diverse loads. Higher racks are also available upon request.

All of the stand designs are available as a single-tier and a multi-tier version. The single-sided stand design also enables wall surfaces to be used for racks, in addition to it being possible to enhance them with double-sided cantilever racks. The range is rounded off with a comprehensive cantilever arms offer.

High degree of flexibility due to the advantageous plug-in system

The stable stands have slotted perforations on the side in a 100 mm raster. The cantilever arms are positioned at the required height in keeping with the height of the stored goods before being locked in place by special bolts. This screwless plug-in principle enables cantilever arms to be moved or replaced without difficulty at all times.

Cantilever arm designs for all requirements

Cantilever arms are available in 9 different lengths within a range of 400 mm and 2000 mm and for loads of between 400 kg and 1000 kg. This large offer provides numerous storage possibilities. All of the cantilever arms can be combined in a single rack as the width of the stand profile remains the same: designs for light and heavy goods or long and short arms.

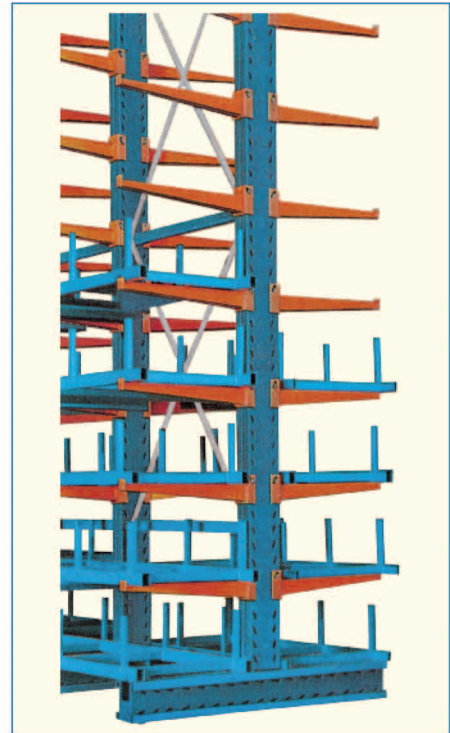
When combining different arm lengths, they should be gradually shorter from bottom to top. This arrangement increases the stability of the rack and simplifies its use.

Practice-oriented possibilities when selecting the stand clearances

Vogelsang offers horizontal bracings for nominal dimensions of the centre stand clearances of between 850 mm and 2000 mm so that they match the stored goods requirements. This offer of lengths in 5 graduations enables the stand clearances to be adapted to the length of the stored goods.

When mounting the cantilever arms, their quantity is calculated on the basis of the required storage levels and the stored goods; the length is also determined by the stored goods.

The load that can be applied to the cantilever arms can be roughly calculated as follows: The weight of the stored goods per storage level divided by the number of cantilever arms per storage level. The stand load is calculated by multiplying this weight by the number of cantilever arms per stand.



An exemplary solution for special tasks in the practice

Almost all branches are able to benefit from an economical rack solution as a result of the comprehensive range offered by the K100 cantilever rack. In addition to the numerous possibilities of horizontal storage, Vogelsang is also able to supply exemplary solutions for the suspended storage of goods such as coils. This is provided for by special, stackable cantilever arms.

Not only is a large range of cantilever arms available with various lengths and various loads, special designs are also available upon request. The support surfaces can be provided with wood or rubber strips for the storing of sensitive goods for example.

The use of the stand feet is exemplary for the well thought-out rack design. They can be used as a storage level when using the rack in addition to them also being available with anti-rollaway systems for round goods.

Optimal storage possibility for sheet materials

The space-saving storage of sheet materials such as in the timber industry, creates special challenges: different widths and depths of the wooden sheets, heavy loads, different heights of the individual stacks and long parts that are not to sag.

This is where the K100 cantilever rack comes into its own. Stable stand designs and cantilever arms for the most diverse loads are able to support even the heaviest goods.

Cantilever arm lengths of up to 2000 mm are best suited to the storage of especially wide sheets.

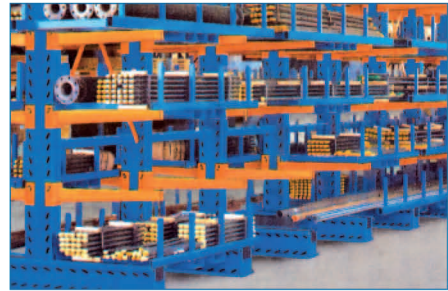
In the event of there being sensitive sheet material that is only to be stored separately, the raster perforation with 100 mm clearances provides for a space-saving and dense grading. If necessary, the cantilever arms can be provided with rounded front edges, this being an advantage when storing sensitive large sheets.

Economical storage of round goods/materials in storage cassettes

The storage of tubes, profiles and rods does not pose a problem for the K100. This is where special anti-rollaway systems on the cantilever arms provide a good service. Available as a plug-in or as a welded on version.

Should the shelf lifting height only be low or should it be necessary to simplify the removal of the goods manually, or should the type of goods that is stored change frequently, it is recommended that the plug-in anti-rollaway system be used. The storage in the offered long goods cassettes and storage trays provides even more possibilities. This enables goods to be moved efficiently in complete transport units.

Parts with different lengths such as residues from steel tubes that have been processed piece by piece, can be stored economically.



Simplified handling and logical design

The creation of the first rack bay requires the use of two stands. Only one stand is then required for each of the additional rack bays. Matching horizontal bracings connect the stands with the required clearances. It is to be taken into account when calculating the length of the stand foot that the dimensions of the longest cantilever arm determines the size of the foot. The appropriate cantilever rack can be calculated using one of the following possibilities:

Here, the first one in a sample calculation:

Arm length: 500 mm
Number of cantilever arms: 8
Stand height: 4000 mm
Load per arm: 750 kg.

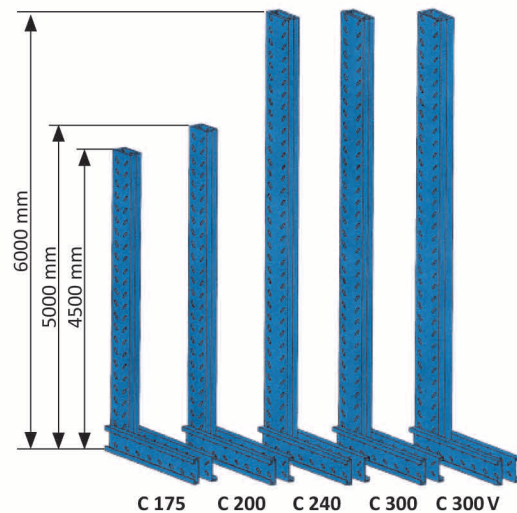
This results in a single-sided load of
 $8 \times 750 \text{ kg} = 6000 \text{ kg}$.

When referring to Table 1, the stand profile C 240 with a maximum load of 6430 kg is appropriate for this practical case. The same calculation process has validity for the double-sided rack.

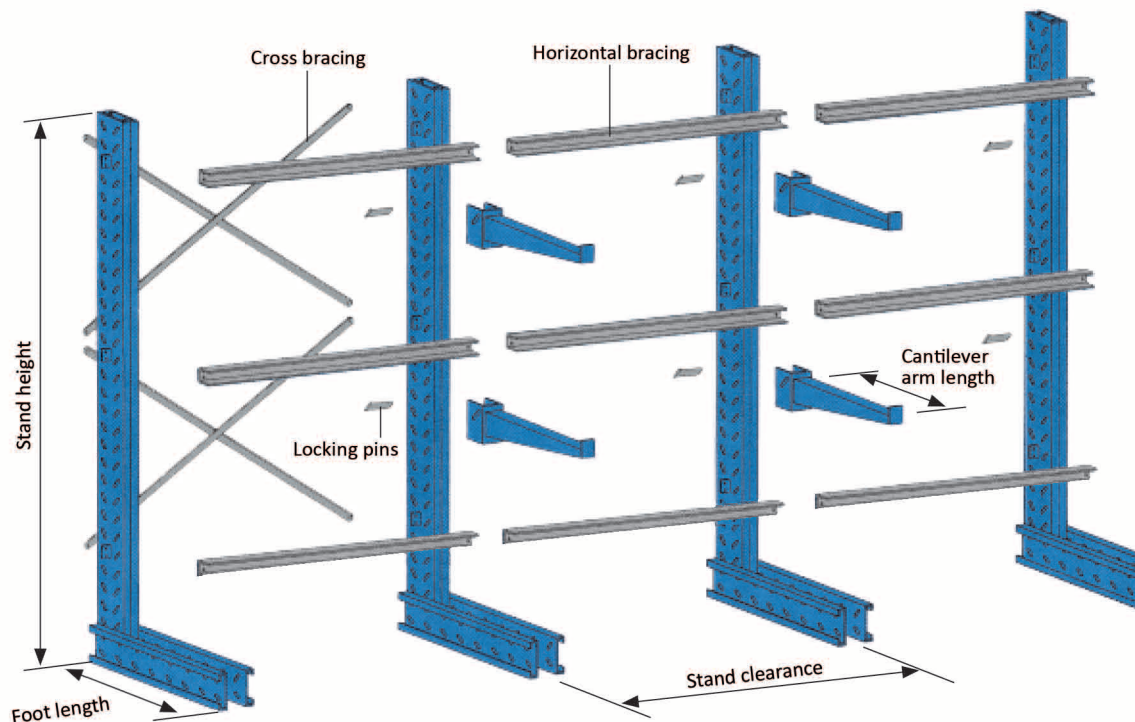
With the second possibility, the stand profile C 240 is preselected with 4000 mm for example.

The load per arms is to be 750 kg.

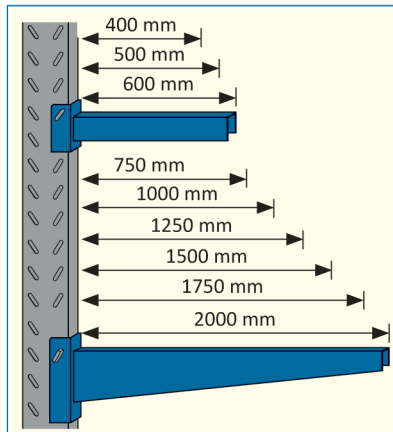
When referring to the table, the stand is suitable for a maximum load of 6430 kg. This results in 8 arms per stand.



The range includes various stand designs – from the appropriate profile C175 to the profile C300V that has a very high load-bearing capacity. The fixed foot ensures a high degree of stability. Is is anchored to the floor of the hall by means of welded-on plates and heavy-duty anchors.



Practice-oriented in detail

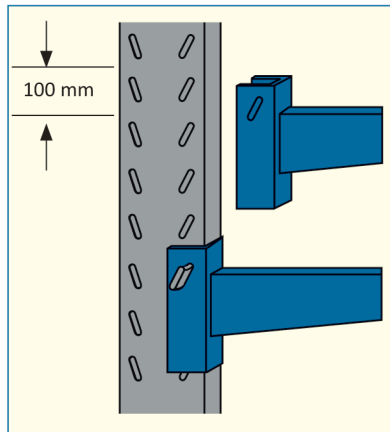


Cantilever arms in diverse lengths and designs

Cantilever arms are available in 9 lengths as standard. The loads range between 400 and 1000 kg, based on these lengths.

The longer versions from 500 mm have a storage-friendly, chamfered profile with a low space loss in order to enhance the stability.

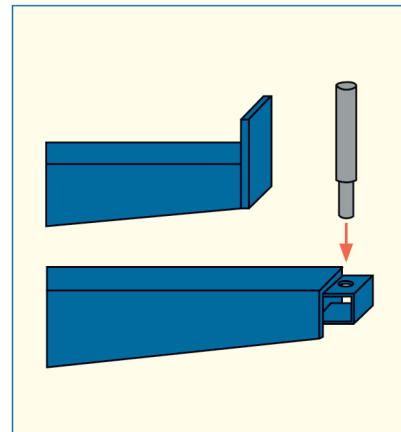
The length of the U-shaped connecting profile is also extended conform with the cantilever arm length (please refer to the table). This construction method also ensures a friction-type seating should the arms be longer and the loads heavier.



The 100 mm raster provides for a variable height adjustment

The rack stands have slotted perforations 100 mm apart. The cantilever arms are positioned at the required height before being locked in position with a locking pin.

The special form of these pins that have a collar on one side prevents the stand profiles from being pushed through and falling in.



Advantageous anti-rollaway systems for round goods

In addition to the standard design, Vogelsang also offers cantilever arms with two different anti-rollaway systems.

The welded version is recommended when exclusively storing round goods.

Should the goods be changed frequently or should the shelf lifting height only be low, the flexible push-on version is advantageous.

Special designs such as front edges that are rounded off for bay goods are available upon request.

Cantilever arms						
Cantilever arm length „L” mm	Maximum load kg	Profile height „h” mm	Connection „H” mm	in the normal version Art. No.	with a welded on anti-rollaway system Art. No.	with a plug-in anti-rollaway system Art. No.
400	500	60	200	190000	190200	190400
500	400	60	200	190020	190220	190420
500	750	75	200	190022	190222	190422
600	350	60	200	190031	190231	190431
600	1000	100	200	190033	190233	190433
750	500	75	200	190041	190241	190441
750	1000	110	200	190043	190243	190443
1000	500	90	200	190061	190261	190461
1000	1000	135	270	190063	190263	190463
1250	500	100	200	190081	190281	190481
1250	1000	155	270	190083	190283	190483
1500	500	110	200	190101	190301	190501
1500	1000	175	270	190103	190303	190503
1750	500	120	200	190121	190321	190521
1750	1000	195	270	190123	190323	190523
2000	500	135	270	190141	190341	190541
2000	1000	220	270	190143	190343	190543

Cantilever arms and stands have a painted surface protection.

Other designs upon request.

Locking pins Art. No. 172999







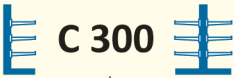
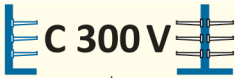
Table 1		 C 175 				 C 200 				 C 240 			
Stand height mm	Foot/ arm length mm	Cantilever arm single-sided		Cantilever arm double-sided		Cantilever arm single-sided		Cantilever arm double-sided		Cantilever arm single-sided		Cantilever arm double-sided	
		Stand load kg	Article No.	Stand load kg	Article No.	Stand load kg	Article No.	Stand load kg	Article No.	Stand load kg	Article No.	Stand load kg	Article No.
2000	400	3260	175000	6520	185000	4450	170000	8900	180000	7630	170500	15260	180500
	500	2840	175001	5680	185001	3920	170001	7840	180001	6780	170501	13560	180501
	600	2530	175008	5060	185008								
	750	2160	175002	4320	185002	3020	170002	6040	180002	5290	170502	10580	180502
	1000	1740	175003	3480	185003	2450	170003	4900	180003	4340	170503	8680	180503
	1250	1460	175004	2920	185004	2060	170004	4120	180004	3680	170504	7360	180504
	1500	1250	175005	2500	185005	1780	170005	3560	180005	3190	170505	6380	180505
	1750	1100	175006	2200	185006	1570	170006	3140	180006	2810	170506	5620	180506
2500	400	3260	175020	6460	185020	4380	170020	8760	180020	7550	170520	15100	180520
	500	2820	175021	5640	185021	3870	170021	7740	180021	6710	170521	13420	180521
	600	2490	175028	4980	185028								
	750	2150	175022	4300	185022	2980	170022	5960	180022	5250	170522	10500	180522
	1000	1730	175023	3460	185023	2430	170023	4860	180023	4310	170523	8620	180523
	1250	1450	175024	2900	185024	2050	170024	4100	180024	3660	170524	7320	180524
	1500	1200	175025	2400	185025	1770	170025	3540	180025	3170	170525	6340	180525
	1750	1100	175026	2200	185026	1560	170026	3120	180026	2800	170526	5600	180526
3000	400	3190	175040	6380	185040	4300	170040	8600	180040	7440	170540	14880	180540
	500	2790	175041	5580	185041	3800	170041	7600	180041	6630	170541	13260	180541
	600	2480	175048	4960	185048								
	750	2130	175042	4260	185042	2950	170042	5900	180042	5200	170542	10400	180542
	1000	1720	175043	3440	185043	2410	170043	4820	180043	4280	170543	8560	180543
	1250	1450	175044	2900	185044	2030	170044	4060	180044	3630	170544	7260	180544
	1500	1200	175045	2400	185045	1760	170045	3520	180045	3150	170545	6300	180545
	1750	1090	175046	2180	185046	1550	170046	3100	180046	2790	170546	5580	180546
3500	400	3120	175060	6240	185060	4220	170060	8440	180060	7330	170560	14660	180560
	500	2670	175061	5340	185061	3740	170061	7480	180061	6530	170561	13060	180561
	600	2330	175068	4660	185068								
	750	1960	175062	3920	185062	2910	170062	5820	180062	5140	170562	10280	180562
	1000	1550	175063	3100	185063	2380	170063	4760	180063	4240	170563	8480	180563
	1250	1280	175064	2560	185064	2010	170064	4020	180064	3610	170564	7220	180564
	1500	1050	175065	2100	185065	1740	170065	3480	180065	3130	170565	6260	180565
	1750	950	175066	1900	185066	1540	170066	3080	180066	2770	170566	5540	180566
4000	400	2680	175080	5360	185080	4120	170080	8240	180080	7190	170580	14380	180580
	500	2290	175081	4580	185081	3660	170081	7320	180081	6430	170581	12860	180581
	600	2010	175088	4020	185088								
	750	1690	175082	3380	185082	2860	170082	5720	180082	5080	170582	10160	180582
	1000	1330	175083	2660	185083	2330	170083	4660	180083	4200	170583	8400	180583
	1250	1100	175084	2200	185084	1930	170084	3860	180084	3570	170584	7140	180584
	1500	900	175085	1800	185085	1650	170085	3300	180085	3110	170585	6220	180585
	1750	820	175086	1640	185086	1440	170086	2880	180086	2750	170586	5500	180586
4500	400	2350	175100	4700	185100	4010	170100	8020	180100	7040	170600	14080	180600
	500	2010	175101	4020	185101	3450	170101	6900	180101	6310	170601	12620	180601
	600	1760	175108	3520	185108								
	750	1480	175102	2960	185102	2570	170102	5140	180102	5000	170602	10000	180602
	1000	1170	175103	2340	185103	2040	170103	4080	180103	4140	170603	8280	180603
	1250	970	175104	1940	185104	1690	170104	3380	180104	3540	170604	7080	180604
	1500	750	175105	1500	185105	1450	170105	2900	180105	3080	170605	6160	180605
	1750	640	175106	1280	185106	1260	170106	2520	180106	2730	170606	5460	180606
5000	400					1120	170107	2240	180107	2450	170607	4900	180607
	500					3560	170120	7120	180120	6870	170620	13740	180620
	750					3070	170121	6140	180121	6170	170621	12340	180621
	1000					2280	170122	4560	180122	4910	170622	9820	180622
	1250					1820	170123	3640	180123	3960	170623	7920	180623
	1500					1510	170124	3020	180124	3310	170624	6620	180624
	1750					1290	170125	2580	180125	2830	170625	5660	180625
	2000					1130	170126	2260	180126	2480	170626	4960	180626
5500	400					1000	170127	2000	180127	2210	170627	4420	180627
	500									6700	170640	13400	180640
	750									5880	170641	11760	180641
	1000									4440	170642	8880	180642
	1250									3560	170643	7120	180643
	1500									2970	170644	5940	180644
	1750									2550	170645	5100	180645
	2000									2230	170646	4460	180646
6000	400									1990	170647	3980	180647
	500									6130	170660	12260	180660
	750									5340	170661	10680	180661
	1000									4030	170662	8060	180662
	1250									3230	170663	6460	180663
	1500									2700	170664	5400	180664
	1750									2310	170665	4620	180665
	2000									2030	170666	4060	180666
										1800	170667	3600	180667

Table 2		 C 300				 C 300 V			
Stand height mm	Foot/arm length mm	Cantilever arm single-sided Stand load kg	Article No.	Cantilever arm double-sided Stand load kg	Article No.	Cantilever arm single-sided Stand load kg	Article No.	Cantilever arm double-sided Stand load kg	Article No.
2000	400	11570	171000	23140	181000				
	500	10380	171001	20760	181001				
	600								
	750	8250	171002	16500	181002				
	1000	6850	171003	13700	181003				
	1250	5850	171004	11700	181004				
	1500	5110	171005	10220	181005				
	1750	4530	171006	9060	181006				
2500	2000	4080	171007	8160	181007				
	400	11480	171020	22960	181020				
	500	10300	171021	20600	181021				
	600								
	750	8200	171022	16400	181022				
	1000	6820	171023	13640	181023				
	1250	5830	171024	11660	181024				
	1500	5090	171025	10180	181025				
3000	1750	4520	171026	9040	181026				
	2000	4060	171027	8120	181027				
	400	11350	171040	22700	181040				
	500	10200	171041	20400	181041				
	600								
	750	8140	171042	16280	181042				
	1000	6770	171043	13540	181043				
	1250	5800	171044	11600	181044				
3500	1500	5070	171045	10140	181045				
	1750	4500	171046	9000	181046				
	2000	4050	171047	8100	181047				
	400	11210	171060	22420	181060				
	500	10080	171061	20160	181061	17345	171561	34690	181561
	600								
	750	8060	171062	16120	181062	13990	171562	27980	181562
	1000	6720	171063	13440	181063	11720	171563	23440	181563
4000	1250	5760	171064	11520	181064	10090	171564	20180	181564
	1500	5040	171065	10080	181065	8850	171565	17700	181565
	1750	4480	171066	8960	181066	7890	171566	15780	181566
	2000	4030	171067	8060	181067	7110	171567	14220	181567
	400	11060	171080	22120	181080				
	500	9970	171081	19940	181081	17150	171581	34300	181581
	600								
	750	7990	171082	15980	181082	13860	171582	27720	181582
4500	1000	6670	171083	13340	181083	11630	171583	23260	181583
	1250	5720	171084	11440	181084	10020	171584	20040	181584
	1500	5010	171085	10020	181085	8800	171585	17600	181585
	1750	4450	171086	8900	181086	7845	171586	15690	181586
	2000	4010	171087	8020	181087	7080	171587	14160	181587
	400	10910	171100	21820	181100				
	500	9840	171101	19680	181101	16920	171601	33840	181601
	600								
5000	750	7910	171102	15820	181102	13715	171602	27430	181602
	1000	6610	171103	13220	181103	11530	171603	23060	181603
	1250	5680	171104	11360	181104	9940	171604	19880	181604
	1500	4980	171105	9960	181105	8740	171605	17480	181605
	1750	4430	171106	8860	181106	7800	171606	15600	181606
	2000	3990	171107	7980	181107	7040	171607	14080	181607
	400	10710	171120	21420	181120				
	500	9680	171121	19360	181121	16670	171621	33340	181621
5500	750	7800	171122	15600	181122	13550	171622	27100	181622
	1000	6540	171123	13080	181123	11410	171623	22820	181623
	1250	5620	171124	11240	181124	9855	171624	19710	181624
	1500	4930	171125	9860	181125	8675	171625	17350	181625
	1750	4400	171126	8800	181126	7745	171626	15490	181626
	2000	3960	171127	7920	181127	7000	171627	14000	181627
	400	10510	171140	21020	181140				
	500	9520	171141	19040	181141	16400	171641	32800	181641
6000	750	7700	171142	15400	181142	13370	171642	26740	181642
	1000	6460	171143	12920	181143	11280	171643	22560	181643
	1250	5570	171144	11140	181144	9760	171644	19520	181644
	1500	4890	171145	9780	181145	8600	171645	17200	181645
	1750	4360	171146	8720	181146	7690	171646	15380	181646
	2000	3940	171147	7880	181147	6950	171647	13900	181647
	400	10310	171160	20620	181160				
	500	9350	171161	18700	181161	16110	171661	32220	181661
	750	7590	171162	15180	181162	13180	171662	26360	181662
	1000	6380	171163	12760	181163	11150	171663	22300	181663
	1250	5510	171164	11020	181164	9640	171664	19280	181664
	1500	4800	171165	9600	181165	8320	171665	16640	181665
	1750	4220	171166	8440	181166	7320	171666	14640	181666
	2000	3770	171167	7540	181167	6530	171667	13060	181667

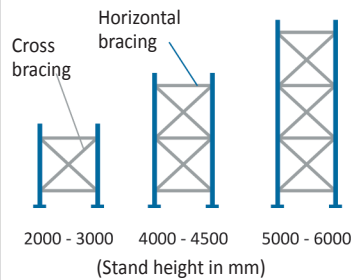
Roof construction for the K 100 cantilever rack

You can expand your cantilever rack with a roof construction. Roof beams with positive or negative inclination are available in the lengths 1250, 1500, 1750 and 2000 mm.

The substructure is formed by longitudinal beams and roof beams.

With this construction, we recommend the use of E 85 trapezoidal sheets that are coated on both sides in addition to them matching the length of the rack with an additional lateral overlap in diverse lengths. Our offers are rounded off by terminal angles, wall connecting profiles, ridge profiles and verge profiles in addition to rain gutters.

Quantity Horizontal bracing and cross bracing



Horizontal bracings are required in each of the rack bays. Cross bracings are used one for every 5 rack bays, but at least 1 cross bracing per rack row.

4 fastening screws with washer and nut have to be ordered for each horizontal bracing and cross bracing.

Horizontal bracings (HB)		
Stand clearance mm	Length mm	Article No.
850	730	191000
1000	880	191001
1250	1130	191002
1500	1380	191003
2000	1880	191004

Cross bracings (CB)		
Stand clearance mm	Length mm	Article No.
850	1596	191100
1000	1669	191101
1250	1810	191102
1500	1974	191103
2000	2348	191104

Heavy duty anchor
2 per stand
Article No. 900986

Recess for the plug-in anti-rollaway system
on the foot
Article No. 172992

Load label
1 per rack
Article No. 924150

Anti-rollaway system
galvanized
Article No. 901310

Screw plate on the foot
as an anti-rollaway system
Article No. 172990



Pallet Rack MP 800



Shelving rack A 5 / A 3



Shelving rack C 50



Cantilever rack K 100



Flow racks



Drive-in racks



Push-back racks



External warehouse



Warehouse platforms

Vogelsang offers a comprehensive range of diverse rack systems. From single-tier to multi-tier shelving rack systems to external warehouses. From the most diverse rack systems for the storage of pallets, containers and small parts to cantilever racks for bulky stored goods.

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