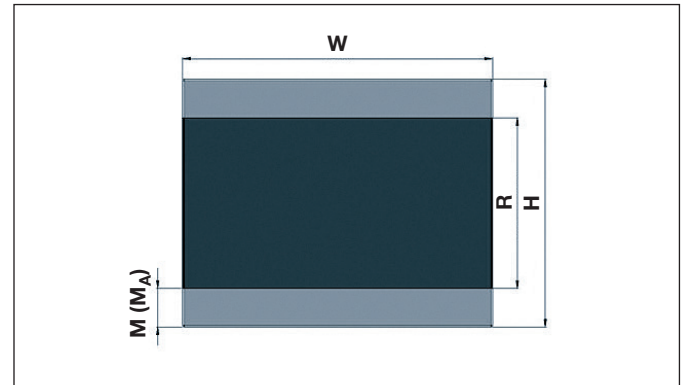
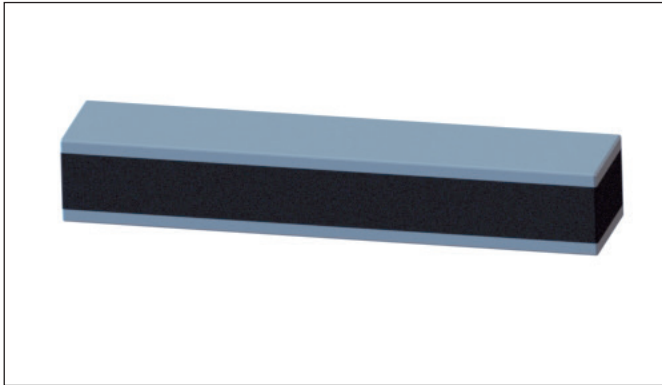


# Rubber-Metal Rail Type B

with metal on both sides



## Product description

Rails are used often where the use of buffers is not possible due to lack of space or high loads.

## Application

Gripper Rails are suitable for the storage of the heaviest machines, plants, aggregates and foundations. In addition they are suitable for the storage of marine engines, large stationary motors, lathes, elevator machines and vibrating machines.

## Benefits

- Can be stored individually
- Flexible according to each load
- Universal application / multiple use options
- RoHS compliant

## Operating temperature

- Natural Rubber (NR): - 50 °C until + 90 °C

## Standard quality

Natural Rubber (NR)

## Special qualities

- Nitrile-Butadiene Rubber (NBR)
  - Chloroprene Rubber (CR)
  - Fluoro Rubber (FPM)
  - Ethylene-Propylene-Diene-Rubber (EPDM)
  - Polyurethan (PUR)
  - Silicon
  - H-NBR
- More qualities on request

## Metal parts

- Black steel or steel lacquered
- Alternative support members, e. g. Stainless steel, brass, aluminum, etc. available on request

Width W	Height H	Length L	Metal		Rubber R	Shore ° Shore	Deflection **			Pressure Stress Fz ***		
			M	M <sub>A</sub> *			5%	10%	15%	5%	10%	15%
mm	mm	mm	mm	mm	mm		mm	mm	mm	N	N	N
20	30	2'000	5	10	20	45	1	2	3	107	251	390
						55	1	2	3	219	514	792
						70	1	2	3	460	1'079	1'670
25	25	2'000	5	10	15	45	0,75	1,50	2,25	186	437	677
						55	0,75	1,50	2,25	379	897	1'385
						70	0,75	1,50	2,25	794	1'875	2'897

Width	Height	Length	Metal		Rubber	Shore	Deflection **			Pressure Stress Fz ***		
			M	M <sub>A</sub> *			5%	10%	15%	5%	10%	15%
W	H	L	mm	mm	R	° Shore	mm	mm	mm	N	N	N
25	30	2'000	5	10	20	45	1	2	3	176	382	661
						55	1	2	3	343	803	1'242
						70	1	2	3	737	1'726	2'668
30	20	2'000	5	10	10	45	0,50	1	1,50	352	818	1'263
						55	0,50	1	1,50	721	1'676	2'590
						70	0,50	1	1,50	1'47	3'415	5'278
30	25	2'000	5	10	15	45	0,75	1,50	2,25	293	690	1'068
						55	0,75	1,50	2,25	564	1'33	2'055
						70	0,75	1,50	2,25	1'212	2'856	4'411
30	30	2'000	5	10	20	45	1	2	3	266	624	965
						55	1	2	3	545	1'208	1'867
						70	1	2	3	1'105	2'593	4'008
40	20	2'000	5	10	10	45	0,50	1	1,50	775	1'800	2'781
						55	0,50	1	1,50	1'588	3'691	5'703
						70	0,50	1	1,50	3'154	7'330	11'326
40	25	2'000	5	10	15	45	0,75	1,50	2,25	603	1'403	2'168
						55	0,75	1,50	2,25	1'155	2'682	4'148
						70	0,75	1,50	2,25	2'477	5'756	8'898
40	30	2'000	10	5	10	45	0,50	1	1,50	775	1'800	2'781
						55	0,50	1	1,50	1'588	3'691	5'703
						70	0,50	1	1,50	3'154	7'330	11'326
40	35	2'000	10	5	15	45	0,75	1,50	2,25	604	1'403	2'168
						55	0,75	1,50	2,25	1'155	2'682	4'148
						70	0,75	1,50	2,25	2'477	5'756	8'898
40	40	2'000	10	5	20	45	1	2	3	524	1'232	1'905
						55	1	2	3	1'009	2'371	3'664
						70	1	2	3	2'163	5'085	7'858
40	45	2'000	10	5	25	45	1,25	2,50	3,75	489	1'149	1'776
						55	1,25	2,50	3,75	945	2'218	3'426
						70	1,25	2,50	3,75	2'028	4'756	7'352
40	50	2'000	10	5	30	45	1,50	3	4,50	465	1'089	1'685
						55	1,50	3	4,50	900	2'108	3'257
						70	1,50	3	4,50	1'932	4'523	6'992
40	55	2'000	10	5	35	45	1,75	3,50	5,25	451	1'056	1'631
						55	1,75	3,50	5,25	872	2'046	3'160
						70	1,75	3,50	5,25	1'876	4'391	6'786
50	30	2'000	10	5	10	45	0,50	1	1,50	1'464	3'398	5'299
						55	0,50	1	1,50	2'999	6'969	10'896
						70	0,50	1	1,50	5'835	13'558	21'105
50	35	2'000	10	5	15	45	0,75	1,50	2,25	1'058	2'459	3'801
						55	0,75	1,50	2,25	2'169	5'038	7'788
						70	0,75	1,50	2,25	4'382	10'181	15'734
50	40	2'000	10	5	20	45	1	2	3	879	2'045	3'158
						55	1	2	3	1'801	4'186	6'470
						70	1	2	3	3'726	8'657	13'381
50	45	2'000	10	5	25	45	1,25	2,50	3,75	838	1'947	3'009
						55	1,25	2,50	3,75	1'704	3'745	5'790
						70	1,25	2,50	3,75	3'480	8'090	12'500

Width	Height	Length	Metal		Rubber	Shore	Deflection **			Pressure Stress Fz ***		
			M	M <sub>A</sub> *			R	5%	10%	15%	5%	10%
mm	mm	mm	mm	mm	mm	° Shore	mm	mm	mm	N	N	N
50	50	2'000	10	5	30	45	1,50	3	4,50	813	1'815	2'805
							55	3	4,50	1'531	3'555	5'500
							70	3	4,50	3'298	7'661	11'844
50	55	2'000	10	5	35	45	1,75	3,50	5,25	763	1'774	2'740
							55	3,50	5,25	1'474	3'424	5'292
							70	3,50	5,25	3'163	7'349	11'356
50	60	2'000	10	5	40	45	2	4	6	742	1'719	2'657
							55	4	6	1'433	3'329	5'151
							70	4	6	3'065	7'248	11'009
50	65	2'000	10	5	45	45	2,25	4,50	6,75	717	1'666	2'566
							55	4,50	6,75	1'394	3'230	5'002
							70	4,50	6,75	3'455	8'029	10'672
50	70	2'000	10	5	50	45	2,50	5	7,50	716	1'665	2'565
							55	5	7,50	1'384	3'213	4'957
							70	5	7,50	2'950	6'860	10'598
60	20	2'000	5	10	10	45	0,50	1	1,50	1'398	3'246	5'014
							55	1	1,50	2'861	6'648	10'272
							70	1	1,50	5'875	13'650	21'097
60	30	2'000	10	5	10	45	0,50	1	1,50	1'398	3'246	5'014
							55	1	1,50	2'861	6'648	10'272
							70	1	1,50	5'875	13'650	21'097
60	35	2'000	10	5	15	45	0,75	1,50	2,25	1'819	4'226	6'531
							55	1,50	2,25	3'749	8'711	12'276
							70	1,50	2,25	7'419	17'235	26'635
60	40	2'000	10	5	20	45	1	2	3	1'519	3'529	5'455
							55	2	3	2'957	6'869	10'617
							70	2	3	6'207	14'424	22'291
60	50	2'000	10	5	30	45	1,50	3	4,50	1'236	2'874	4'438
							55	3	4,50	2'542	6'503	11'027
							70	3	4,50	5'103	11'846	18'325
60	60	2'000	10	5	40	45	2	4	6	1'136	2'642	4'087
							55	4	6	2'204	5'122	7'916
							70	4	6	4'693	10'903	16'854
60	70	2'000	10	5	50	45	2,50	5	7,50	1'077	2'502	3'866
							55	5	7,50	2'097	4'874	7'542
							70	5	7,50	4'478	10'407	16'075
60	80	2'000	10	5	60	45	3	6	9	1'040	2'414	3'732
							55	6	9	2'025	4'712	7'271
							70	6	9	4'335	10'076	15'565
70	35	2'000	10	5	15	45	0,75	1,50	2,25	2'657	6'215	9'604
							55	1,50	2,25	5'448	12'742	19'692
							70	1,50	2,25	10'76	25'001	38'848
70	40	2'000	10	5	20	45	1	2	3	2'133	4'956	7'686
							55	2	3	4'375	10'165	15'757
							70	2	3	8'848	20'558	31'771
70	45	2'000	10	5	25	45	1,25	2,50	3,75	2'020	4'698	7'250
							55	2,50	3,75	3'931	9'136	14'128
							70	2,50	3,75	8'274	19'226	29'714

Width	Height	Length	Metal		Rubber	Shore	Deflection **			Pressure Stress Fz ***		
			M	M <sub>A</sub> *			5%	10%	15%	5%	10%	15%
			mm	mm								
70	50	2'000	10	5	30	45	1,50	3	4,50	1'841	4'278	6'608
							55	3	4,50	3'585	8'332	12'874
							70	3	4,50	7'584	17'619	27'228
70	55	2'000	10	5	35	45	1,75	3,50	5,25	1'714	3'983	6'155
							55	3,50	5,25	3'342	7'765	12'005
							70	3,50	5,25	7'097	16'494	25'489
70	60	2'000	10	5	40	45	2	4	6	1'643	3'818	5'900
							55	4	6	3'198	7'433	11'484
							70	4	6	6'800	15'800	24'421
70	70	2'000	10	5	50	45	2,50	5	7,50	1'540	3'579	5'528
							55	5	7,50	3'008	6'985	10'789
							70	5	7,50	6'410	14'890	23'012
70	80	2'000	10	5	60	45	3	6	9	1'521	3'479	5'388
							55	6	9	2'916	6'778	10'485
							70	6	9	6'221	14'458	22'334
80	40	2'000	10	5	20	45	1	2	3	3'091	7'184	11'141
							55	2	3	6'337	14'721	22'829
							70	2	3	12'710	29'538	45'778
80	45	2'000	10	5	25	45	1,25	2,50	3,75	2'887	6'709	10'369
							55	2,50	3,75	5'622	13'062	20'189
							70	2,50	3,75	11'805	27'428	42'393
80	50	2'000	10	5	30	45	1,50	3	4,50	2'619	6'087	9'406
							55	3	4,50	5'107	11'867	18'337
							70	3	4,50	10'770	25'022	38'674
80	60	2'000	10	5	40	45	2	4	6	2'304	5'353	8'270
							55	4	6	4'486	10'423	16'110
							70	4	6	9'517	22'105	34'167
80	70	2'000	10	5	50	45	2,50	5	7,50	2'132	4'956	7'655
							55	5	7,50	4'156	9'658	14'923
							70	5	7,50	8'850	20'571	31'792
80	75	2'000	10	5	55	45	2,75	5,50	8,25	2'081	4'836	7'467
							55	5,50	8,25	4'055	9'418	14'567
							70	5,50	8,25	8'637	20'037	31'022
80	80	2'000	10	5	60	45	3	6	9	2'037	4'737	7'316
							55	6	9	3'971	9'226	14'265
							70	6	9	8'471	19'682	30'422
90	45	2'000	10	5	25	45	1,25	2,50	3,75	3'530	8'203	12'707
							55	2,50	3,75	7'235	16'810	26'046
							70	2,50	3,75	14'731	34'231	53'025
100	40	2'000	10	15	20	45	1	2	3	5'862	13'713	21'193
							55	2	3	12'015	28'107	43'434
							70	2	3	23'493	54'892	84'836
100	45	2'000	15	10	15	45	0,75	1,50	2,25	8'027	18'653	28'824
							55	1,50	2,25	16'455	38'236	59'090
							70	1,50	2,25	30'399	70'635	109'165
100	50	2'000	15	10	20	45	1	2	3	5'862	13'713	21'193
							55	2	3	12'015	28'107	43'434
							70	2	3	23'493	54'892	84'836

Width	Height	Length	Metal		Rubber	Shore	Deflection **			Pressure Stress Fz ***		
			M	M <sub>A</sub> *			5%	10%	15%	5%	10%	15%
W	H	L	mm	mm	R	° Shore	mm	mm	mm	N	N	N
100	55	2'000	15	10	25	45	1,25	2,50	3,75	5'506	12'794	19'836
						55	1,25	2,50	3,75	10'729	24'931	38'664
						70	1,25	2,50	3,75	22'27	51'746	80'216
100	60	2'000	15	10	30	45	1,50	3	4,50	4'808	11'176	17'305
						55	1,50	3	4,50	9'368	21'767	33'712
						70	1,50	3	4,50	19'611	45'570	70'564
100	65	2'000	15	10	35	45	1,75	3,50	5,25	4'302	9'997	15'451
						55	1,75	3,50	5,25	8'385	19'482	30'112
						70	1,75	3,50	5,25	17'682	41'085	63'493
100	70	2'000	15	10	40	45	2	4	6	4'021	9'339	14'438
						55	2	4	6	7'828	18'191	28'109
						70	2	4	6	16'559	38'478	59'471
100	80	2'000	15	10	50	45	2,50	5	7,50	3'704	8'609	13'302
						55	2,50	5	7,50	7'216	16'759	25'904
						70	2,50	5	7,50	15'297	35'548	54'936
100	90	2'000	15	10	60	45	3	6	9	3'490	8'112	12'535
						55	3	6	9	6'794	15'787	24'405
						70	3	6	9	14'445	33'561	51'871
100	100	2'000	15	10	70	45	3,50	7	10,50	3'326	7'730	11'942
						55	3,50	7	10,50	6'488	15'071	23'290
						70	3,50	7	10,50	13'831	32'138	49'674
120	45	2'000	15	10	15	45	0,75	1,50	2,25	14'17	33'162	51'254
						55	0,75	1,50	2,25	29'041	67'963	105'035
						70	0,75	1,50	2,25	51'359	119'338	185'274
120	50	2'000	15	10	20	45	1	2	3	10'267	23'854	36'870
						55	1	2	3	21'041	48'89	75'557
						70	1	2	3	39'773	93'220	144'071
120	60	2'000	15	10	30	45	1,50	3	4,50	7'981	18'617	28'760
						55	1,50	3	4,50	15'549	36'256	56'026
						70	1,50	3	4,50	32'359	75'437	116'581
120	70	2'000	15	10	40	45	2	4	6	6'687	15'568	24'060
						55	2	4	6	13'022	30'319	46'860
						70	2	4	6	27'342	63'530	98'366
120	80	2'000	15	10	50	45	2,50	5	7,50	5'901	13'712	21'222
						55	2,50	5	7,50	11'498	26'715	41'327
						70	2,50	5	7,50	24'296	56'458	87'251
120	100	2'000	15	10	70	45	3,50	7	10,50	5'304	12'332	19'056
						55	3,50	7	10,50	10'322	23'985	37'085
						70	3,50	7	10,50	21'953	51'031	78'855
150	50	2'000	15	10	20	45	1	2	3	20'579	47'819	74'194
						55	1	2	3	42'183	98'017	152'071
						70	1	2	3	76'853	178'573	275'98
150	60	2'000	15	10	30	45	1,50	3	4,50	13'183	30'792	47'591
						55	1,50	3	4,50	27'025	63'126	97'558
						70	1,50	3	4,50	53'088	123'897	191'469
150	70	2'000	15	10	40	45	2	4	6	11'072	25'731	39'830
						55	2	4	6	21'554	50'086	77'525
						70	2	4	6	45'481	105'676	163'570

Width	Height	Length	Metal		Rubber	Shore	Deflection **			Pressure Stress Fz ***		
			M	M <sub>A</sub> *			5%	10%	15%	5%	10%	15%
W	H	L	M	M <sub>A</sub> *	R	° Shore	mm	mm	mm	N	N	N
mm	mm	mm	mm	mm	mm		mm	mm	mm	N	N	N
150	80	2'000	15	10	50	45	2,50	5	7,50	9'887	22'974	35'475
							55	5	7,50	19'264	44'759	69'207
							70	5	7,50	40'864	94'961	146'747
150	90	2'000	15	10	60	45	3	6	9	9'261	21'505	33'209
							55	6	9	18'006	41'839	64'620
							70	6	9	37'376	88'914	137'383
150	100	2'000	15	10	70	45	3,50	7	10,50	8'844	20'559	31'763
							55	7	10,50	17'230	40'055	61'890
							70	7	10,50	36'701	85'284	131'780
200	60	2'000	15	10	30	45	1,50	3	4,50	32'006	74'369	114'935
							55	3	4,50	65'618	152'456	235'620
							70	3	4,50	123'536	287'036	443'630
200	70	2'000	15	10	40	45	2	4	6	23'076	53'852	83'224
							55	4	6	47'311	110'339	170'621
							70	4	6	93'950	219'090	338'608
200	80	2'000	15	10	50	45	2,50	5	7,50	21'109	49'162	75'920
							55	5	7,50	41'129	95'714	147'902
							70	5	7,50	86'505	200'995	311'077
200	100	2'000	15	10	70	45	3,50	7	10,50	17'698	41'152	63'659
							55	7	10,50	34'538	72'952	112'739
							70	7	10,50	66'224	153'888	237'825

\* Alternative metal thickness

\*\* Spring deflection at 5%, 10% and 15% of the rubber thickness

\*\*\* Rail width  $\times 2$  is defined as the calculated length for the pressure load

If you need other types of rubber-metal rails than listed, please contact us directly.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.