

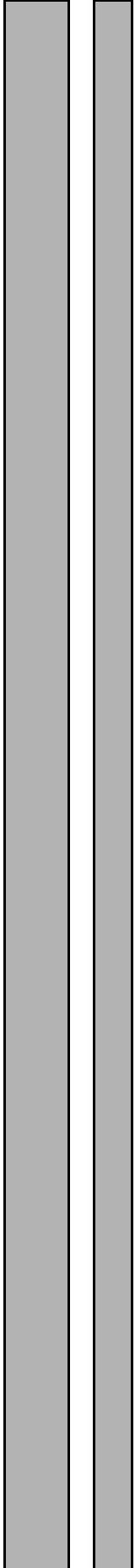
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# Reference Brake Force for P, G, R, S Series



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# General information

## Purpose

The tables in this document should be used together with a roller brake tester. The values in the tables determine if the axle brake force is enough to achieve the legal requirements described in ECE R.13, §5.1.4.6.

## Instruction how to use the document

Find the correct vehicle type with the corresponding maximum technical GVW and use the reference brake force specified. If the technical GVW is between 2 specified weight values, choose the chapter with the highest closest weight value.

The gross vehicle weights in this document is valid for in regards to vehicle type described in each heading. The maximum technical GVW (Gross vehicle weight) was used to calculate the reference brake forces. The reference brake forces are calculated according to ISO 21995-2008.

The values in the tables correspond to a deceleration of 50 % (% of g). In tables stated as  $Z=0.5$ , a proportion to acceleration due to gravity.

# EBS

## EBS Disc brake 4x2

Applies to vehicles with maximum total weight of 20 tonnes.

**Z=0,5**

Axle	Reference braking force per axle (N) at brake pressure (bar)															
	0,4	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
Front axle	738	4430	8121	11813	15504	19196	22887	26579	30270	33962	37653	41345	45036	48728	52419	56111
Driving axle	552	3315	6077	8840	11602	14365	17127	19890	22652	25415	28177	30939	33702	36464	39227	41989

## EBS Disc brake 4x2

Applies to vehicles with maximum total weight of 25 tonnes.

**Z=0,5**

Axle	Reference braking force per axle (N) at brake pressure (bar)															
	0,4	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
Front axle	932	5589	10247	14905	19563	24221	28878	33536	38194	42852	47510	52167	56825	61483	66141	70799
Driving axle	697	4183	7668	11154	14639	18125	21611	25096	28582	32067	35553	39038	42524	46010	49495	52981

## EBS Disc brake 6x2, 6x2\*4, 6x2/2, 6x2/4

Applies to vehicles with maximum total weight of 31 tonnes.

**Z=0,5**

Axle	Reference braking force per axle (N) at brake pressure (bar)															
	0,4	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
Front axle	826	4957	9089	13220	17351	21482	25613	29744	33876	38007	42138	46269	50400	54531	58663	62794
Driving axle	618	3710	6801	9893	12984	16076	19167	22259	25350	28442	31533	34624	37716	40807	43899	46990
Tag axle	618	3710	6801	9893	12984	16076	19167	22259	25350	28442	31533	34624	37716	40807	43899	46990

## EBS Disc brake 6x2/2 MLA3

Applies to vehicles with maximum total weight of 28 tonnes.

**Z=0,5**

Axle	Reference braking force per axle (N) at brake pressure (bar)															
	0,4	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
Front axle	815	4891	8967	13042	17118	21194	25269	29345	33421	37496	41572	45648	49723	53799	57875	61951
Tag axle	382	2292	4202	6112	8021	9931	11841	13751	15661	17571	19481	21391	23300	25210	27120	29030
Driving axle	610	3660	6710	9760	12810	15860	18910	21960	25010	28060	31110	34160	37209	40259	43309	46359