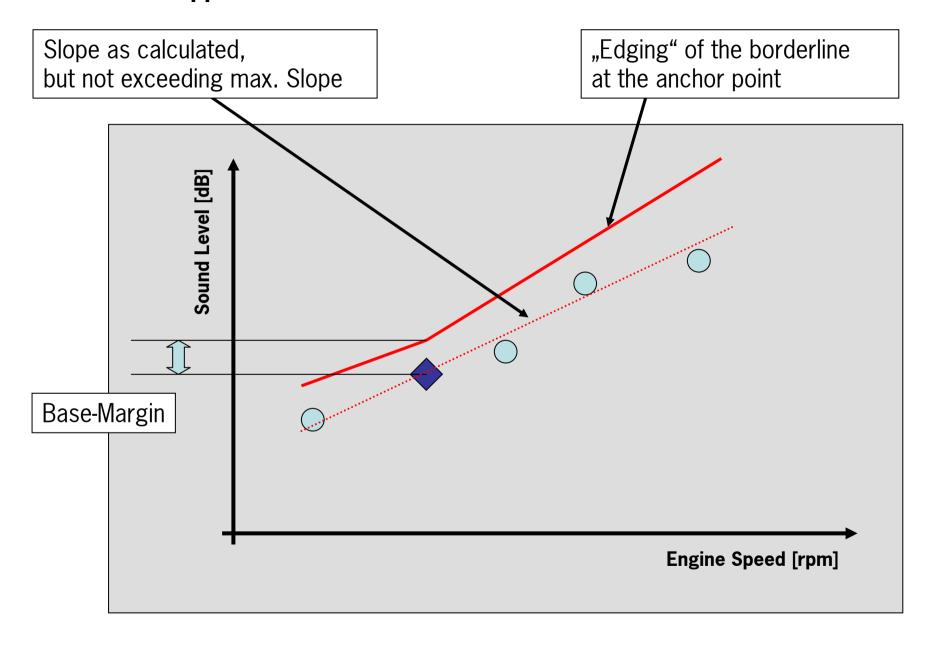
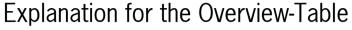
Analysis Principles of the Database

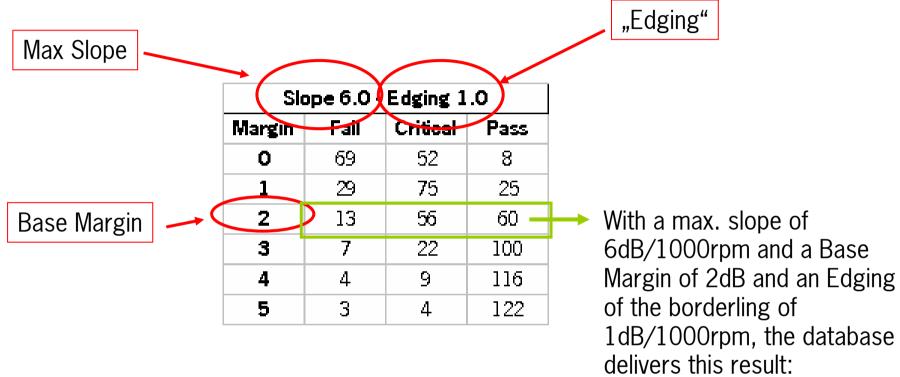
- The database contains about 130 vehicles that can be analyzed. Electrical vehicles are not considered. Some vehicle are two times in the database, and thus two times analyzed.
- The rating critical is used for vehicles which have less than 2 dB distance from the borderline. This is necessary because for a statement of compliance this is the absolute minimum.
- The majority of the market must be considered as uncritical vehicles. Thus a big majority of the vehicles must be able to pass ASEP easily.
- With a Base Margin of 1 dB this cannot be achieved. A minimum of 2dB has to be considered.
- Together with the edging it is possible to keep the margin around the anchor point low but allow more far away from the anchor point a margin, that avoids making normal vehicles fail the test.

Application of Parameters for Construction of the Borderline



Data Base Analysis with various Limitation Parameters





13 vehicles fail56 vehicles are critical60 vehicles pass

Data Base Analysis with various Limitation Parameters

Slope 5.0 - Edging 0.0				Slope 5.5 - Edging 0.0				Slope 6.0 - Edging 0.0				Slo	Slope 6.5 - Edging 0.0				Slope 7.0 - Edging 0.0			
Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	
0	111	18	0	0	111	18	0	0	108	21	0	0	105	24	0	0	104	25	0	
1	50	77	2	1	46	81	2	1	43	84	2	1	41	86	2	1	41	86	2	
2	22	90	17	2	20	92	17	2	20	89	20	2	20	86	23	2	18	88	23	
3	18	32	79	3	17	29	83	3	16	27	86	3	14	27	88	3	11	30	88	
4	11	11	107	4	10	10	109	4	8	12	109	4	6	14	109	4	5	13	111	
5	8	10	111	5	8	9	112	5	б	10	113	5	5	9	115	5	5	6	118	
Slope 5.0 - Edging 0.5			Slope 5.5 - Edging 0.5			Slope 6.0 - Edging 0.5				Sid	Slope 6.5 - Edging 0.5			Slope 7.0 - Edging 0.5						
Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	
0	87	41	1	0	82	46	1	0	79	49	1	0	78	50	1	0	78	50	1	
1	39	80	10	1	37	82	10	1	34	85	10	1	34	84	11	1	34	84	11	
2	18	69	42	2	18	64	47	2	18	61	50	2	16	62	51	2	14	64	51	
3	14	25	90	3	13	24	92	3	11	23	95	3	8	26	95	3	7	27	95	
4	10	8	111	4	8	10	111	4	6	12	111	4	5	11	113	4	5	9	115	
5	б	8	115	5	4	9	116	5	3	8	118	5	3	5	121	5	2	5	122	
Slo	pe 5.0	- Edging 1	.0	Sic	pe 5.5	- Edging 1	.0	Sic	pe 6.0	- Edging 1	.0	Sid	pe 6.5	- Edging 1	.0	Sid	pe 7.0	- Edging 1	1.0	
Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	
0	76	46	7	0	72	49	8	0	69	52	8	0	67	54	8	0	67	54	8	
1	32	74	23	1	29	76	24	1	29	75	25	1	29	75	25	1	25	79	25	
2	16	60	53	2	15	57	57	2	13	56	60	2	11	56	62	2	9	58	62	
3	12	20	97	3	10	19	100	3	7	22	100	3	6	23	100	3	6	19	104	
4	7	9	113	4	5	10	114	4	4	9	116	4	4	7	118	4	4	5	120	
5	4	8	117	5	3	7	119	5	3	4	122	5	2	4	123	5	2	4	123	
			_				_			-11.1	_	-			_					
	Slope 5.0 - Edging 1.5			Slope 5.5 - Edging 1.5			Slope 6.0 - Edging 1.5					Slope 6.5 - Edging 1.5				Slope 7.0 - Edging 1.5				
Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	Margin	Fail	Critical	Pass	
0	68	48	13	0	65	51	13	0	62	54	13	0	62	54	13	0	61	55	13	
1	25	71	33	1	25	69	35	1	24	69	36	1	20	73	36	1	17	76	36	
2	15	53	61	2	13	52	64	2	11	51	67	2	9	53	67	2	8	53	68	
3	10	15	104	3	7	18	104	3	6	18	105	3	6	14	109	3	6	11	112	
4	4	11	114	4	4	9	116	4	4	7	118	4	4	5	120	4	3	5	121	
5	3	7	119	5	3	4	122	5	2	4	123	5	2	4	123	5	2	4	123	