

DECIBEL - Main Result

Calculation: Madalsageduslik müra

Noise calculation model:

Finland Low frequency

Wind speed (at 10 m height):

8.0 m/s

Spectral distribution:

From 20.0 Hz to 200.0 Hz

Meteorological coefficient, C0:

Selected option: Fixed value: 0.0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Pure tone penalty is subtracted from demand

Model: 5.0 dB(A)

Height above ground level, when no value in NSA object:

4.0 m; Don't allow override of model height with height from NSA object

Uncertainty margin:

0.0 dB; Uncertainty margin in NSA has priority

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

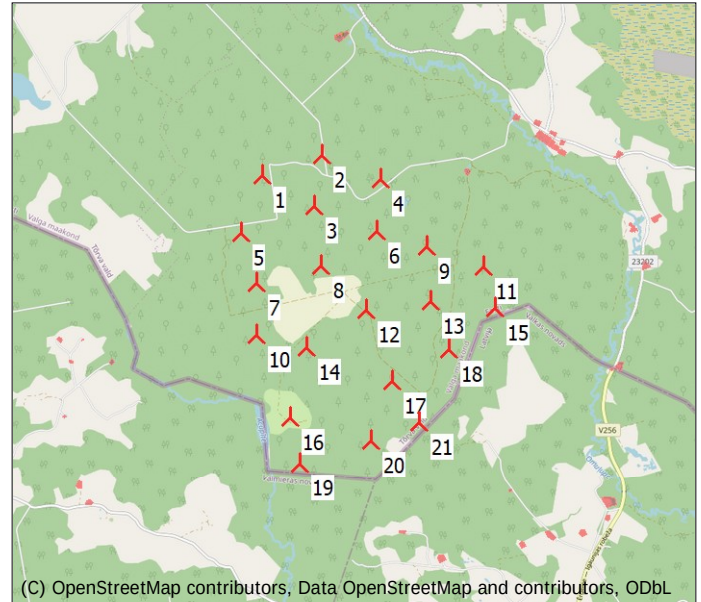
0.0 dB(A)

All coordinates are in

Estonian Lambert L-EST97-EST97 (EE)

All coordinates are in

Estonian Lambert L-EST97-EST97 (EE)



New WTG

Noise sensitive area

WTGs

East	North	Z	Row data/Description	WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data		Wind speed [m/s]	LwA,ref [dB(A)]
				Valid	Manufact.					Creator	Name		
1	599 372	6 423 253	97.6 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
2	600 152	6 423 536	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
3	600 067	6 422 858	91.8 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
4	600 940	6 423 242	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
5	599 107	6 422 478	90.8 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
6	600 901	6 422 552	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
7	599 334	6 421 822	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
8	600 171	6 422 074	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
9	601 572	6 422 363	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
10	599 345	6 421 134	88.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
11	602 341	6 422 121	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
12	600 795	6 421 507	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
13	601 638	6 421 639	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
14	600 016	6 420 991	88.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
15	602 494	6 421 569	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
16	599 816	6 420 056	80.8 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
17	601 160	6 420 567	89.9 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
18	601 897	6 421 006	90.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
19	599 963	6 419 439	80.0 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
20	600 900	6 419 774	85.6 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8
21	601 534	6 420 033	89.9 VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	PO7200 - 2024-11	8.0	99.8

Calculation Results

Sound level

Noise sensitive area No.	Name	East	North	Z	Immission height [m]	Most critical demand		Predicted sound level	
						Frequency [Hz]	Noise [dB]	WTG noise [dB]	
Ellemäe	Noise sensitive area: User defined (109)	603 147	6 423 741	81.4	4.0	50.0	43.0	36.7	
Ellj	Noise sensitive area: User defined (112)	603 206	6 423 881	83.2	4.0	50.0	43.0	36.3	
Holdre kordon	Noise sensitive area: Demands defined in calculation setup. (99)	604 108	6 420 818	86.0	4.0	50.0	43.0	36.2	

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DECIBEL - Main Result

Calculation: Madalsageduslik müra

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No.	Name	East	North	Z	Immission height [m]	Most critical demand Frequency [Hz]	Predicted sound level Noise [dB]	WTG noise [dB]
Holdre mõis	Noise sensitive area: User defined (108)	602 969	6 423 865	81.4	4.0	50.0	43.0	36.8
Jaanimäe	Noise sensitive area: User defined (110)	603 207	6 423 702	80.8	4.0	50.0	43.0	36.7
Lindmäe	Noise sensitive area: Demands defined in calculation setup. (104)	603 301	6 423 760	82.6	4.0	50.0	43.0	36.4
Luhe	Noise sensitive area: User defined (107)	600 408	6 425 096	90.0	4.0	50.0	43.0	36.8
LV_Aizupes	Noise sensitive area: User defined (122)	597 230	6 418 854	80.0	4.0	50.0	43.0	33.9
LV_Andreni	Noise sensitive area: User defined (118)	603 968	6 419 077	84.5	4.0	50.0	43.0	34.5
LV_Apsinas	Noise sensitive area: User defined (121)	602 739	6 419 152	87.6	4.0	50.0	43.0	37.3
LV_Attekas	Noise sensitive area: User defined (117)	604 054	6 418 852	84.1	4.0	50.0	43.0	34.0
LV_Cesnieki	Noise sensitive area: User defined (123)	597 076	6 419 130	81.7	4.0	50.0	43.0	33.9
LV_Dzintari	Noise sensitive area: User defined (126)	597 052	6 421 010	90.0	4.0	50.0	43.0	35.5
LV_Gundegas	Noise sensitive area: User defined (120)	601 305	6 418 583	80.0	4.0	50.0	43.0	38.3
LV_Lejasumpuli	Noise sensitive area: User defined (124)	596 841	6 419 991	90.0	4.0	50.0	43.0	34.3
LV_Medni	Noise sensitive area: User defined (115)	602 900	6 418 460	82.6	4.0	50.0	43.0	35.4
LV_Omuli RPP	Noise sensitive area: User defined (113)	604 040	6 420 788	80.6	4.0	50.0	43.0	36.4
LV_Rozas	Noise sensitive area: User defined (116)	603 714	6 418 652	85.4	4.0	50.0	43.0	34.3
LV_Strazdini	Noise sensitive area: User defined (114)	603 237	6 418 615	84.6	4.0	50.0	43.0	35.1
LV_Vecunguri	Noise sensitive area: User defined (119)	601 828	6 418 274	82.9	4.0	50.0	43.0	36.6
LV_Vilci	Noise sensitive area: User defined (128)	596 922	6 420 706	90.0	4.0	50.0	43.0	35.0
LV_Zeltkalni	Noise sensitive area: User defined (125)	597 464	6 420 724	90.0	4.0	50.0	43.0	36.4
LV_Zimelnieki	Noise sensitive area: User defined (127)	596 772	6 421 004	90.0	4.0	50.0	43.0	34.8
Mekro	Noise sensitive area: Demands defined in calculation setup. (100)	604 447	6 422 126	83.2	4.0	50.0	43.0	35.5
Männiku	Noise sensitive area: Demands defined in calculation setup. (103)	603 159	6 423 907	83.0	4.0	50.0	43.0	36.4
Pargi	Noise sensitive area: User defined (111)	603 278	6 423 652	81.3	4.0	50.0	43.0	36.6
Pelgu	Noise sensitive area: Demands defined in calculation setup. (57)	602 091	6 423 334	90.0	4.0	50.0	43.0	40.5
Pelgu	Noise sensitive area: User defined (129)	602 091	6 423 315	90.0	4.0	50.0	43.0	40.6
Sepakõrtsi	Noise sensitive area: Demands defined in calculation setup. (102)	604 023	6 423 604	87.9	4.0	50.0	43.0	35.0
Silla	Noise sensitive area: Demands defined in calculation setup. (105)	602 950	6 424 034	83.0	4.0	50.0	43.0	36.5
Vanaveski	Noise sensitive area: Demands defined in calculation setup. (101)	604 535	6 422 818	85.3	4.0	50.0	43.0	34.8
Vastseveski	Noise sensitive area: Demands defined in calculation setup. (106)	602 675	6 424 067	80.5	4.0	50.0	43.0	37.0
Veski	Noise sensitive area: User defined (131)	604 268	6 422 631	80.0	4.0	50.0	43.0	35.6
Viitaku	Noise sensitive area: User defined (130)	600 344	6 425 072	90.0	4.0	50.0	43.0	36.9
Viltaku	Noise sensitive area: Demands defined in calculation setup. (58)	600 327	6 425 047	90.0	4.0	50.0	43.0	37.0

*)Spectral distribution, please see details in report "Detailed results"

Distances (m)

NSA	WTG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Ellemäe		3806	3001	3203	2262	4232	2541	4268	3410	2092	4609	1805	3243	2587	4166	2253	4966	3744	3000	5351	4557	4035
Elli		3884	3072	3300	2353	4331	2659	4384	3531	2229	4736	1955	3382	2735	4303	2407	5109	3891	3151	5498	4705	4187
Holdre kordon		5322	4791	4524	3978	5267	3642	4877	4131	2964	4772	2187	3382	2602	4094	1779	4357	2957	2218	4367	3372	2690
Holdre mõis		3647	2835	3071	2122	4102	2449	4168	3321	2051	4536	1809	3206	2586	4119	2268	4943	3743	3006	5348	4557	4042
Jaanimäe		3860	3059	3251	2313	4278	2577	4304	3444	2113	4637	1803	3261	2592	4186	2238	4978	3743	2995	5356	4554	4028
Lindmäe		3961	3156	3357	2417	4384	2686	4414	3554	2222	4747	1899	3369	2695	4295	2334	5084	3843	3090	5459	4652	4123
Luhe		2113	1580	2263	1928	2922	2590	3444	3030	2969	4101	3546	3608	3668	4122	4096	5073	4589	4351	5672	5343	5185
LV_Aizupes		4876	5507	4899	5742	4066	5209	3630	4359	5581	3109	6064	4442	5212	3510	5921	2851	4286	5137	2794	3782	4461
LV_Andreni		6207	5867	5430	5147	5930	4633	5384	4835	4065	5058	3450	3995	3462	4389	2894	4264	3177	2829	4019	3145	2614
LV_Apsinas		5304	5088	4567	4463	4923	3862	4325	3888	3410	3928	2983	3052	2715	3284	2416	3058	2119	2032	2789	1940	1492
LV_Attekas		6423	6094	5650	5380	6131	4859	5575	5044	4298	5231	3689	4202	3687	4568	3132	4400	3363	3047	4120	3281	2782
LV_Cesnieki		4718	5372	4778	5641	3915	5131	3513	4270	5536	3027	6054	4413	5205	3479	5940	2892	4328	5172	2903	3877	4547
LV_Dzintari		3220	3992	3532	4479	2521	4145	2422	3295	4717	2296	5403	3775	4628	2963	5469	2923	4131	4844	3307	4041	4586
LV_Gundegas		5052	5084	4449	4672	4471	3988	3790	3669	3783	3216	3663	2967	3066	2730	3183	2094	1989	2476	1591	1258	1458
LV_Lejasumpuli		4127	4849	4314	5229	3363	4798	3092	3926	5290	2751	5896	4233	5070	3327	5867	2974	4355	5155	3169	4063	4691
LV_Medni		5949	5765	5227	5157	5524	4546	4900	4527	4110	4447	3685	3701	3410	3836	3116	3472	2732	2726	3095	2393	2083
LV_Omuli RPP		5277	4760	4478	3952	5213	3600	4817	4076	2927	4706	2159	3323	2548	4028	1732	4286	2888	2153	4293	3299	2617
LV_Rozas		6324	6043	5565	5361	5986	4807	5405	4924	4283	5023	3729	4081	3636	4374	3160	4141	3191	2972	3824	3028	2579
LV_Strazdini		6036	5807	5295	5165	5654	4577	5051	4621	4100	4635	3618	3784	3420	4002	3046	3711	2850	2741	3376	2608	2216
LV_Vecunguri		5549	5520	4909	5045	5006	4375	4335	4144	4095	3786	3868	3392	3369	3264	3344	2687	2387	2728	2198	1763	1782
LV_Vilci		3519	4281	3800	4742	2801	4380	2652	3521	4933	2460	5599	3954	4806	3106	5637	2965	4239	4982	3293	4084	4659
LV_Zeltkalni		3143	3871	3353	4282	2384	3890	2165	3024	4421	1924	5071	3421	4272	2565	5099	2444	3698	4440	2809	3564	4127
LV_Zimelnieki		3426	4213	3775	4726	2755	4408	2688	3562	4987	2575	5678	4053	4905	3243	5748	3187	4408	5123	3553	4306	4858
Mekro		5176	4487	4424	3649	5346	3561	5120	4274	2879	5195	2105	3702	2850	4572	2030	5071	3637	2784	5226	4254	3586
Männiku		3841	3028	3263	2315	4295	2632	4354	3504	2213	4713	1960	3367	2730	4285	2418	5097	3891	3158	5491	4708	4194
Pargi		3925	3127	3307	2373	4332	2618	4346	3484	2137	4668	1794	3280	2596	4208	2222	4990	3741	2984	5359	4547	4016
Pelgu		2688	1912	2056	1126	3083	1419	3134	2291	1099	3515	1230	2239	1750	3129	1802	3989	2915	2330	4436	3750	3342

To be continued on next page...

Project:
Tõrva

Licensed user:
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Piret Toonpere / piret@lemma.ee
Calculated:
05/20/25 19:58/4.0.552

DECIBEL - Main Result

Calculation: Madalsageduslik müra

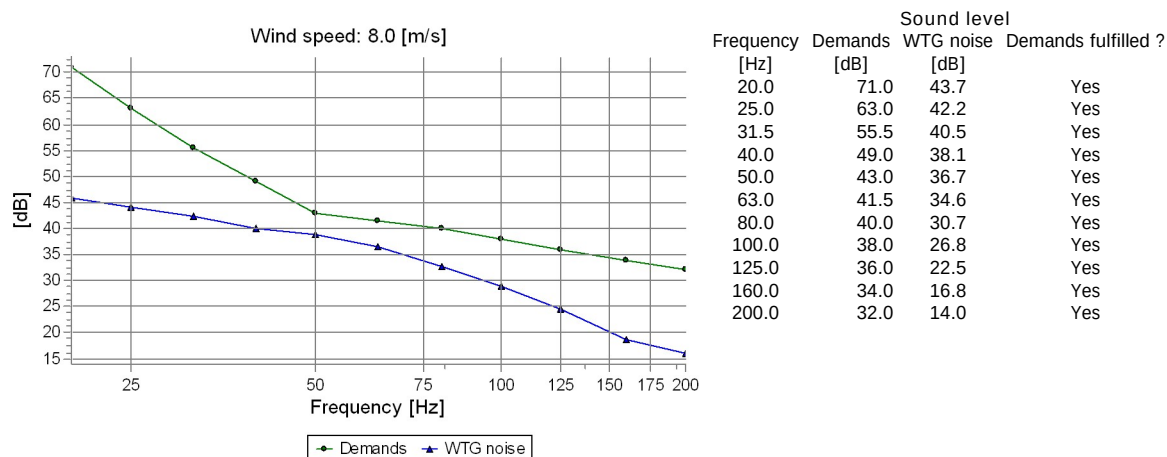
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	WTG																				
NSA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Pelgu	2678	1899	2050	1117	3077	1412	3128	2284	1084	3505	1219	2223	1735	3114	1791	3973	2900	2316	4420	3734	3328
Sepakõrtsi	4663	3871	4025	3103	5042	3294	5015	4144	2747	5289	2242	3848	3089	4782	2545	5502	4173	3356	5815	4940	4351
Silla	3661	2841	3112	2160	4144	2528	4237	3399	2165	4625	1986	3320	2724	4225	2475	5062	3892	3185	5478	4715	4223
Vanaveski	5179	4440	4466	3618	5436	3642	5293	4425	2996	5454	2301	3961	3126	4872	2387	5462	4049	3193	5675	4729	4079
Vastseveski	3394	2570	2871	1919	3902	2332	4024	3199	2029	4436	1974	3175	2639	4065	2504	4924	3813	3157	5362	4644	4191
Veski	4895	4166	4174	3339	5138	3343	4987	4120	2693	5143	1990	3649	2809	4555	2066	5141	3729	2873	5357	4415	3770
Viitaku	2048	1547	2230	1924	2862	2580	3400	3002	2973	4061	3560	3592	3667	4093	4108	5042	4577	4351	5644	5325	5176
Viltaku	2031	1520	2203	1900	2843	2557	3373	2976	2948	4033	3536	3569	3643	4066	4083	5015	4554	4326	5617	5302	5153

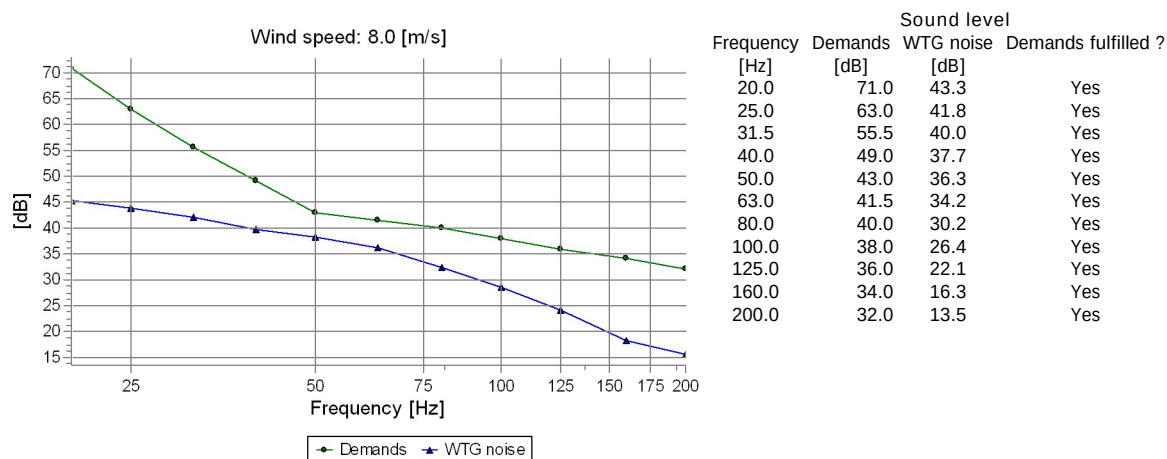
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

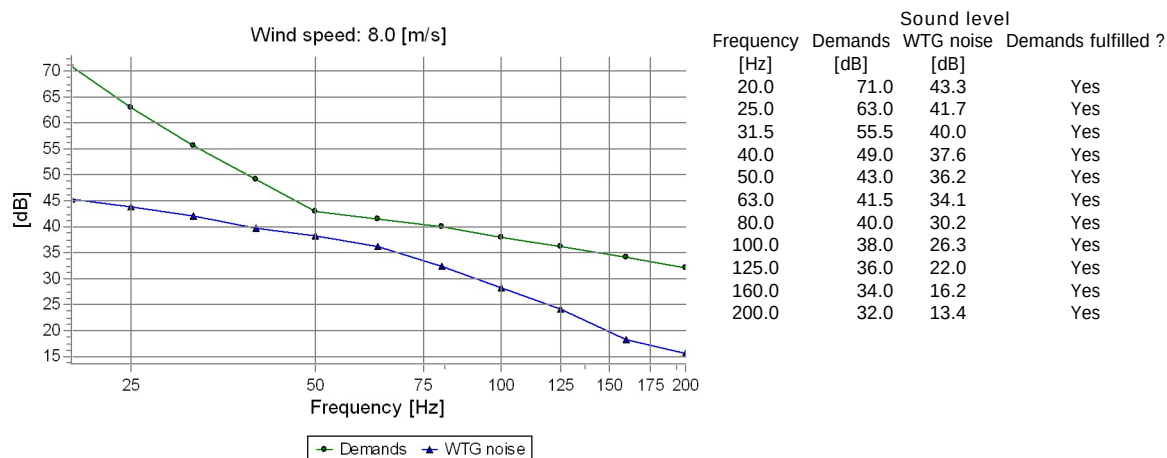
Ellemäe Noise sensitive area: User defined (109)



Elli Noise sensitive area: User defined (112)



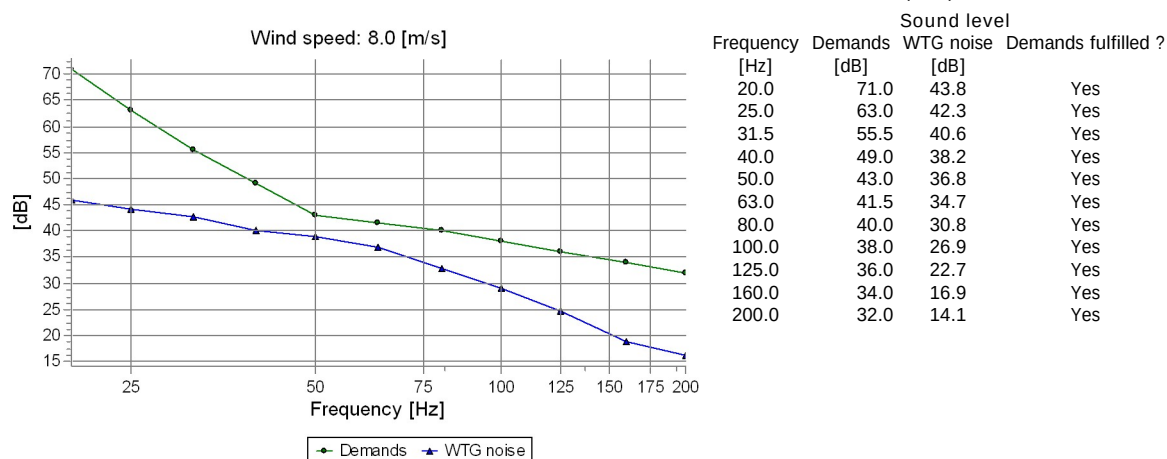
Holdre kordon Noise sensitive area: Demands defined in calculation setup. (99)



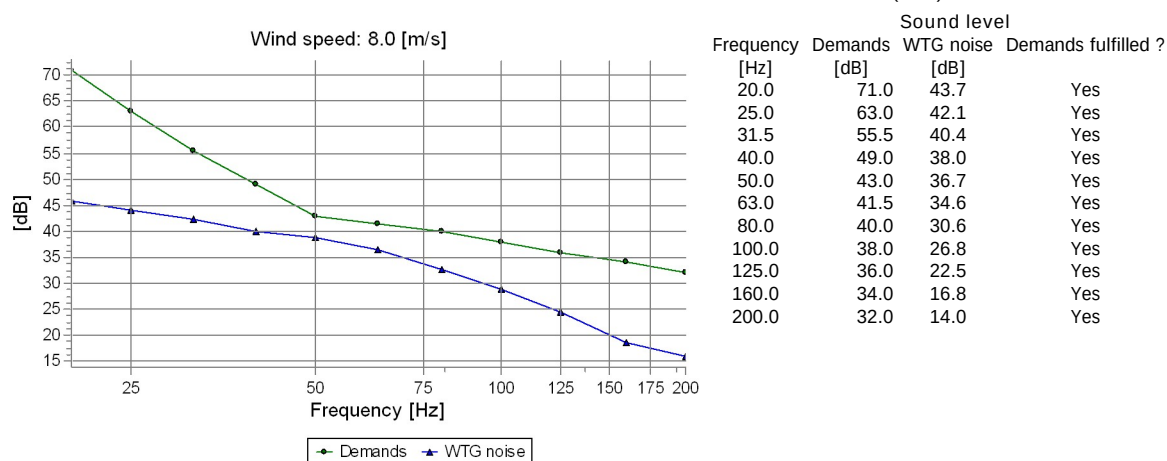
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

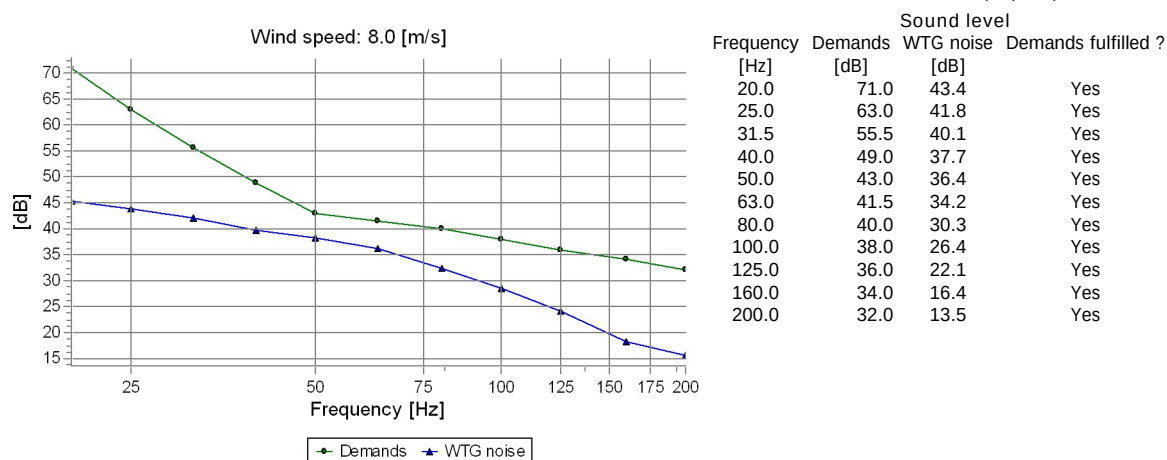
Holdre mõis Noise sensitive area: User defined (108)



Jaanimäe Noise sensitive area: User defined (110)



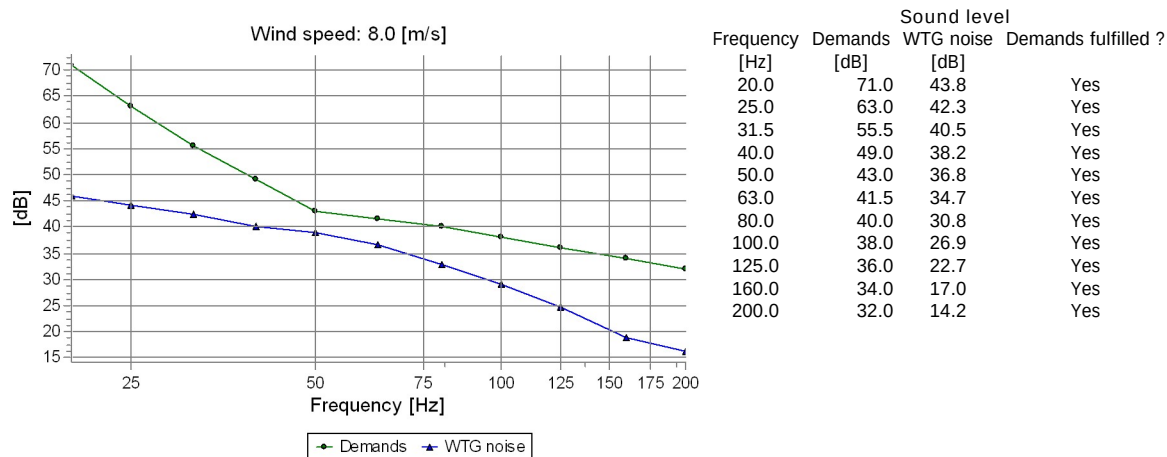
Lindmäe Noise sensitive area: Demands defined in calculation setup. (104)



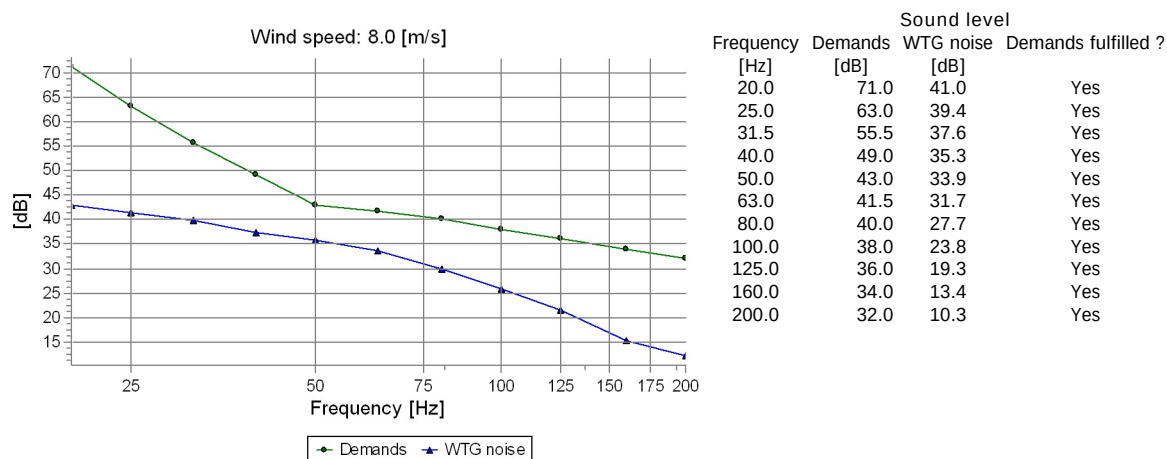
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

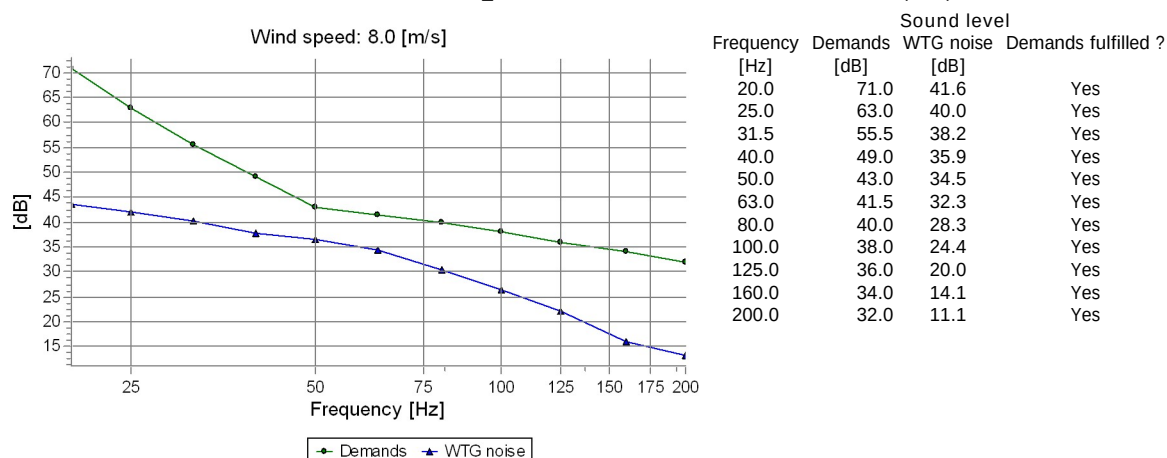
Luhe Noise sensitive area: User defined (107)



LV_Aizupes Noise sensitive area: User defined (122)



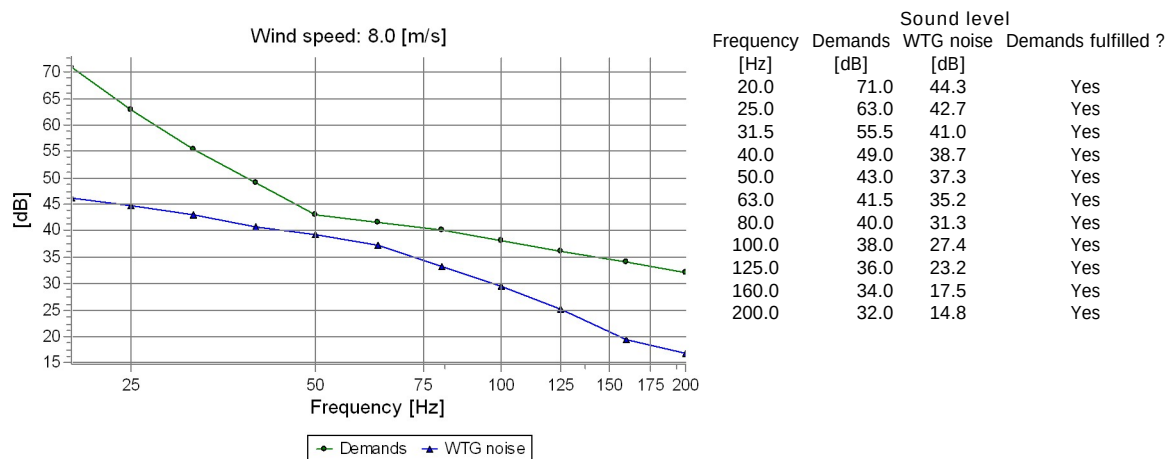
LV_Andreni Noise sensitive area: User defined (118)



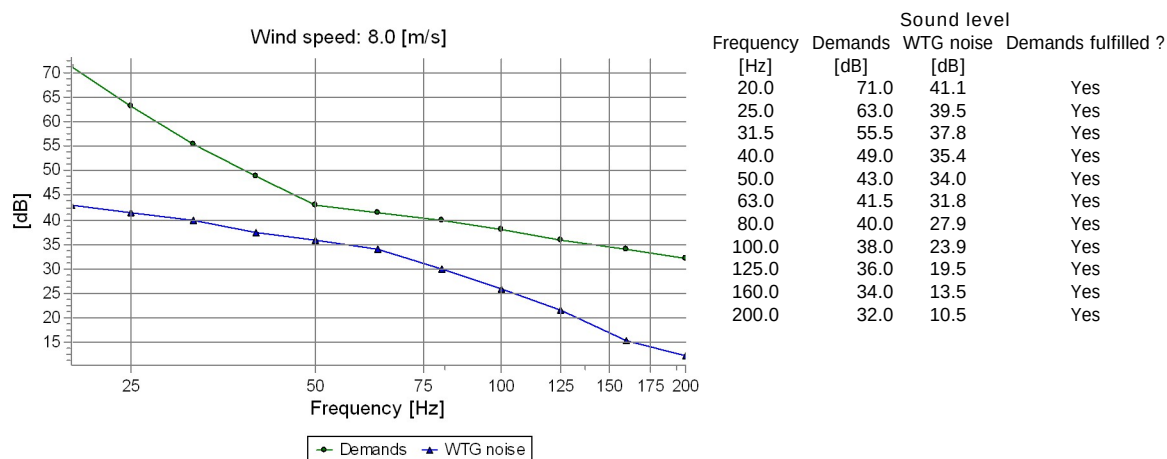
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

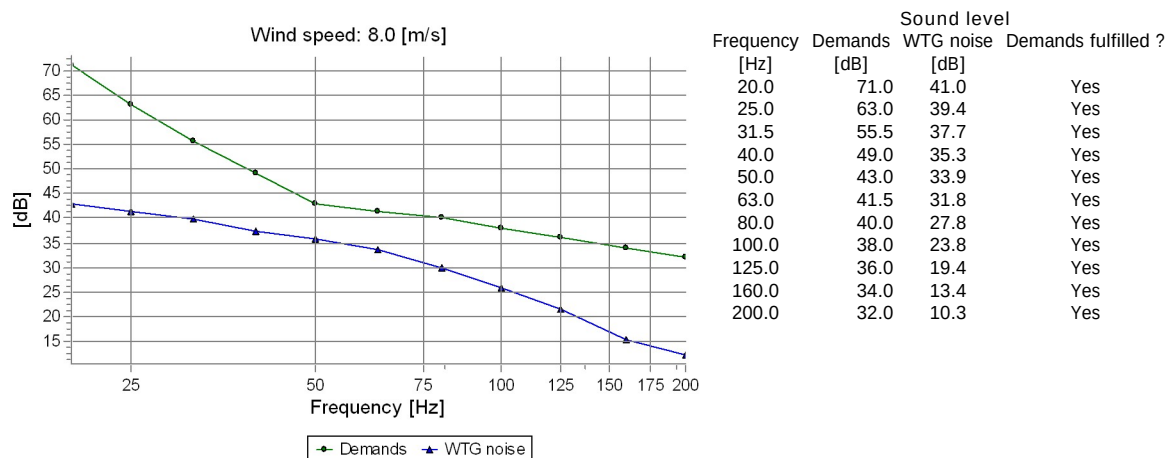
LV_Apsinas Noise sensitive area: User defined (121)



LV_Attekas Noise sensitive area: User defined (117)



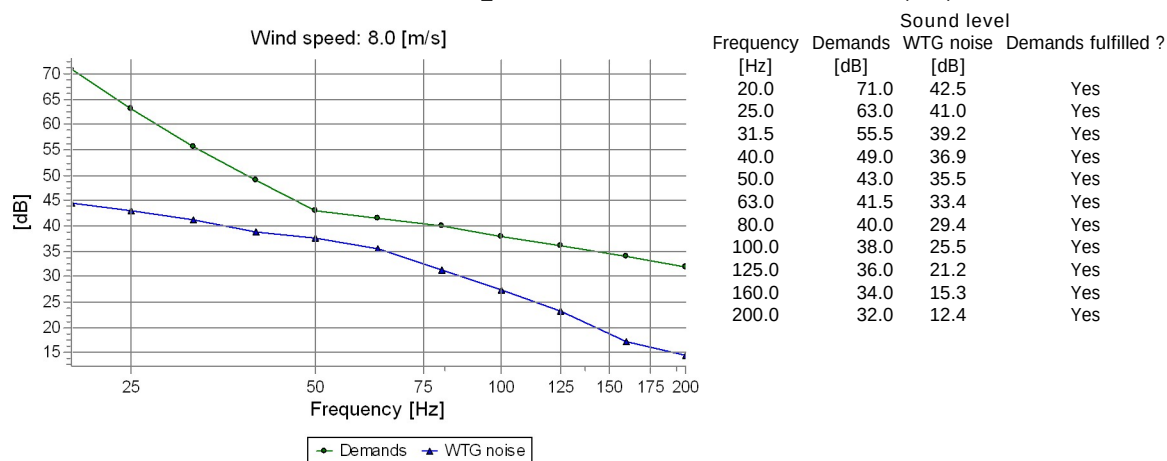
LV_Cesnieki Noise sensitive area: User defined (123)



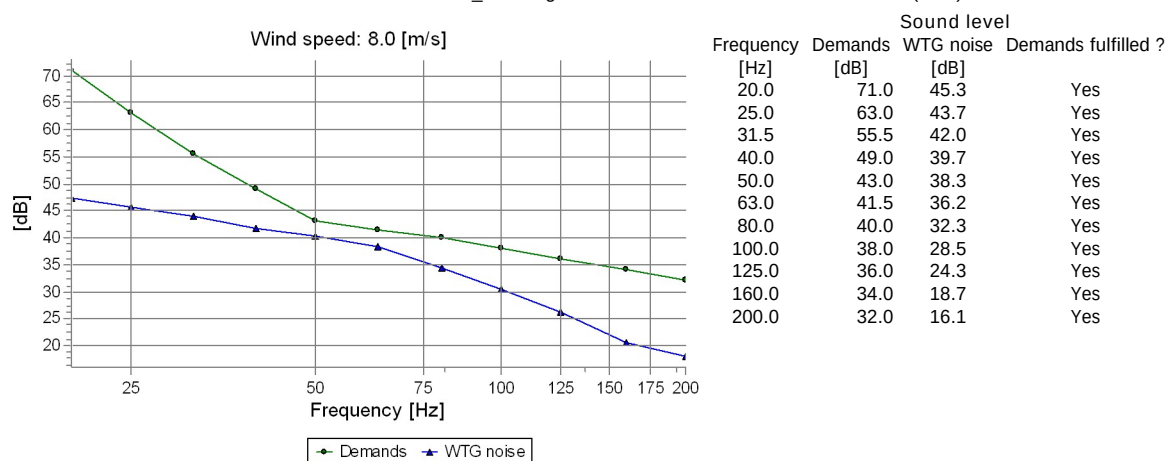
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

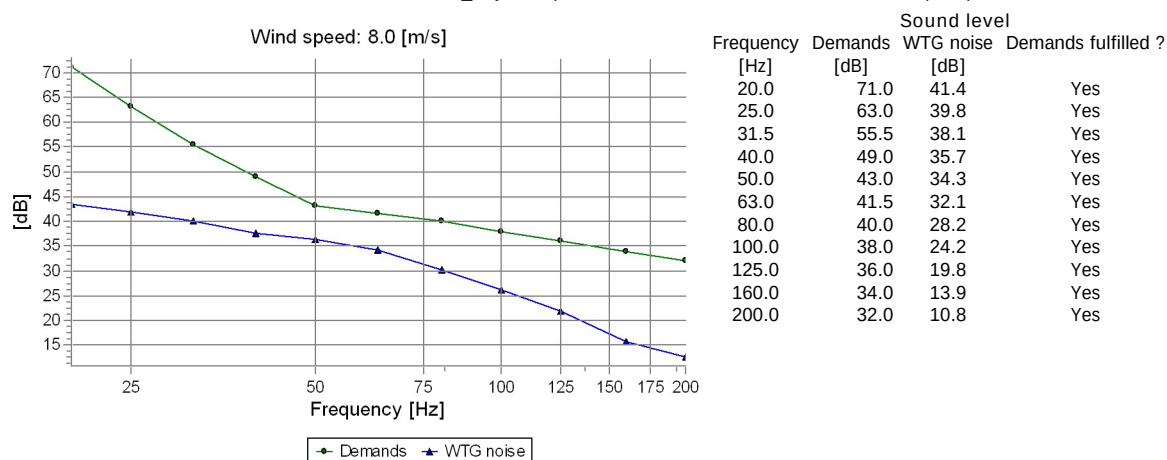
LV_Dzintari Noise sensitive area: User defined (126)



LV_Gundegas Noise sensitive area: User defined (120)



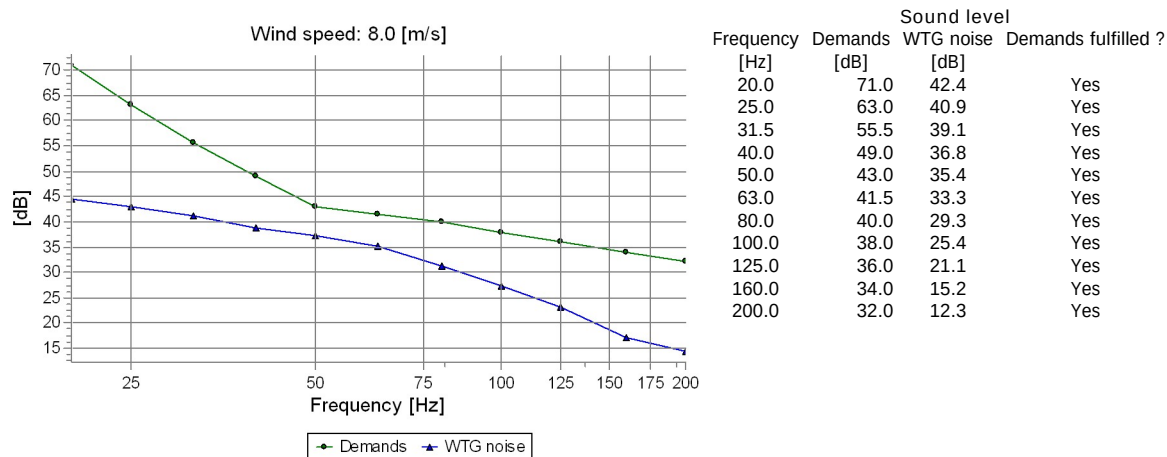
LV_Lejasumpuli Noise sensitive area: User defined (124)



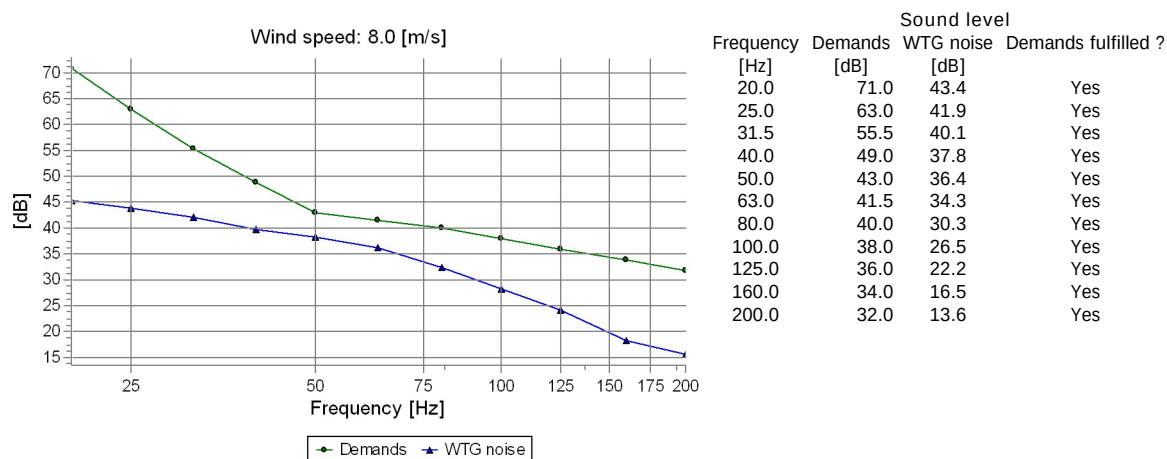
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

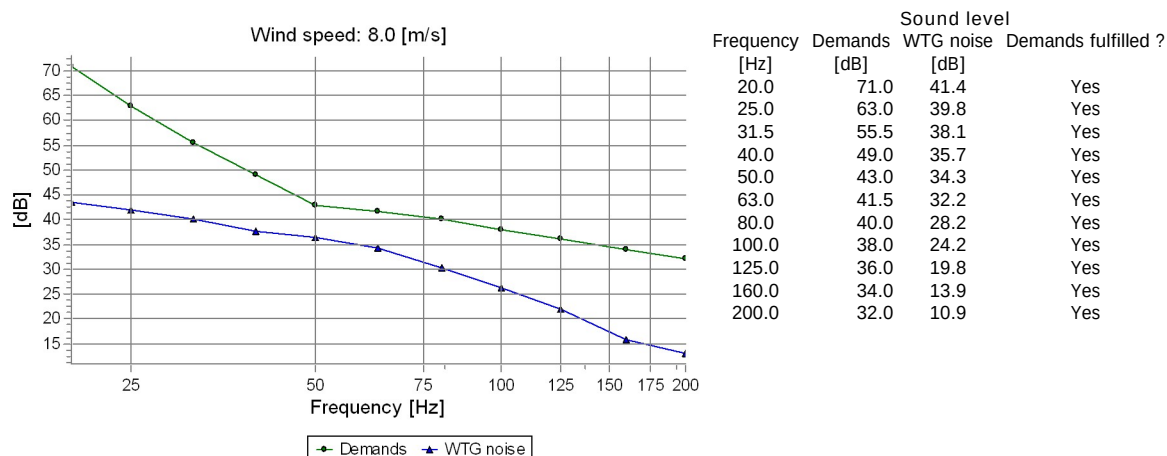
LV_Medni Noise sensitive area: User defined (115)



LV_Omul RPP Noise sensitive area: User defined (113)



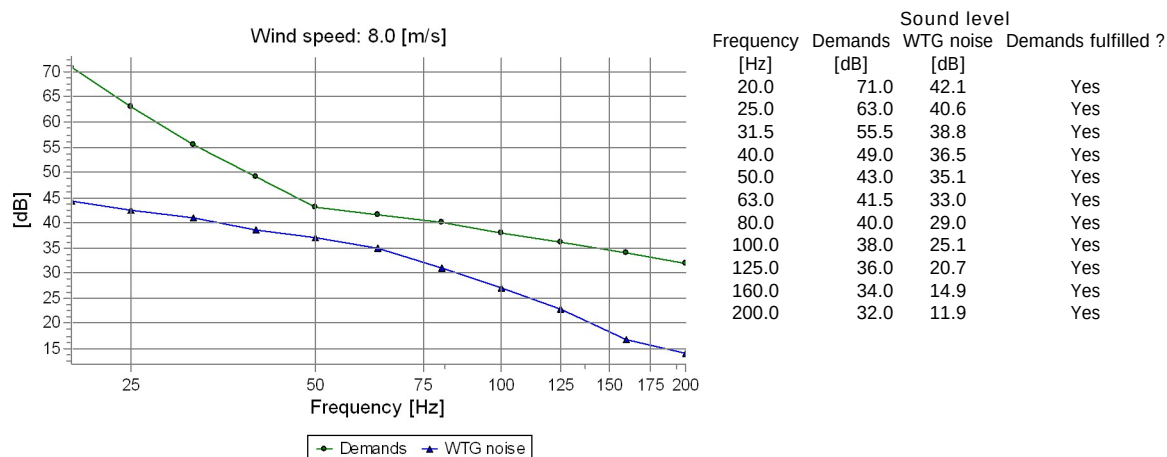
LV_Rozas Noise sensitive area: User defined (116)



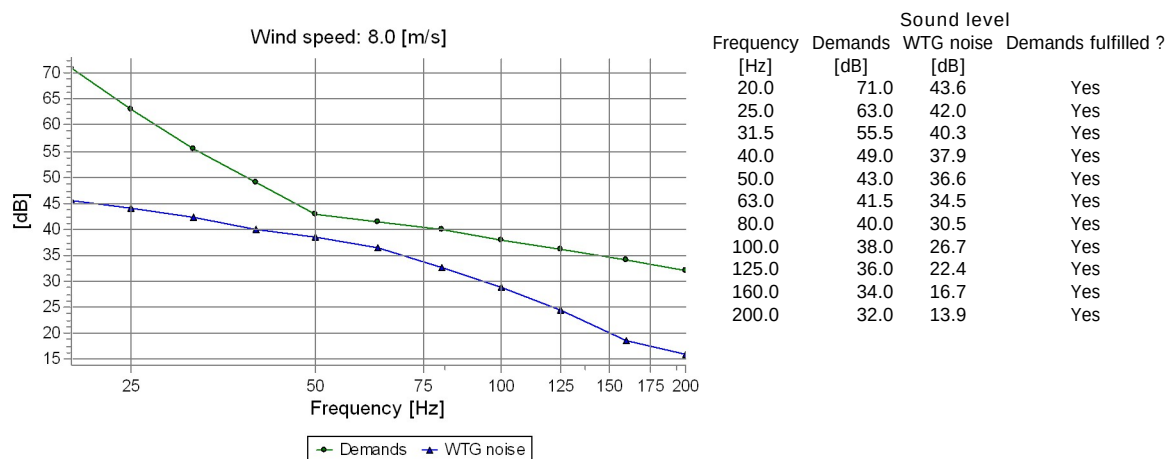
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

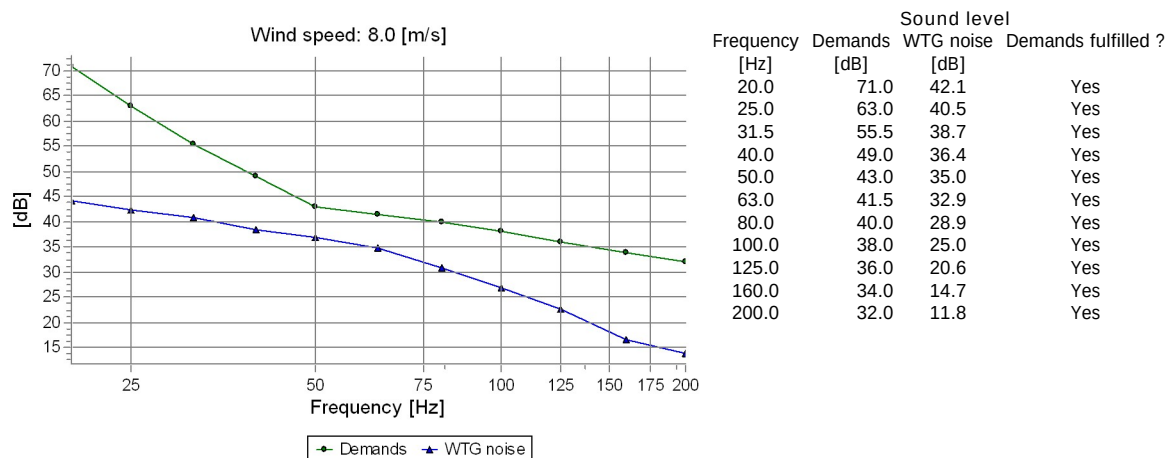
LV_Strazdini Noise sensitive area: User defined (114)



LV_Vecunguri Noise sensitive area: User defined (119)



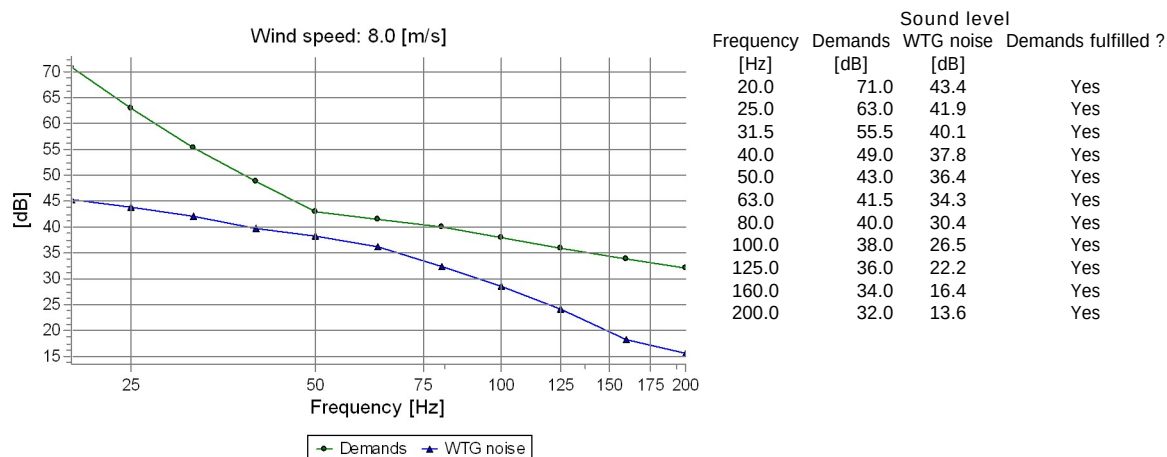
LV_Vilci Noise sensitive area: User defined (128)



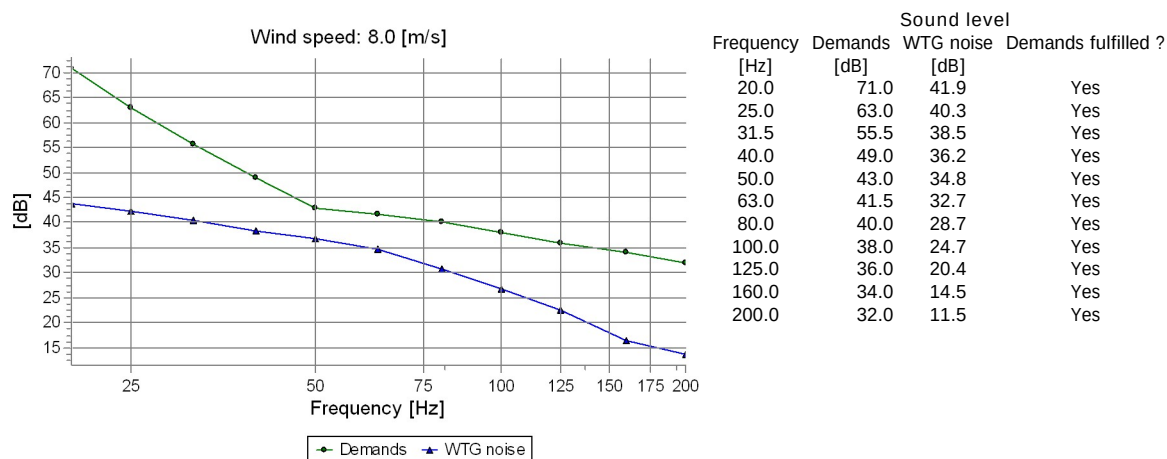
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

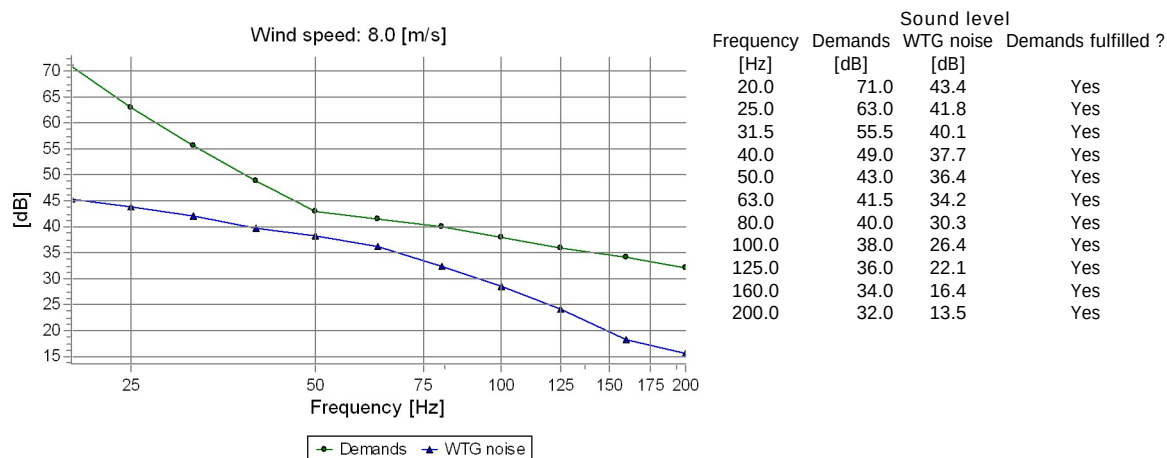
LV_Zeltnalni Noise sensitive area: User defined (125)



LV_Zimelnieki Noise sensitive area: User defined (127)



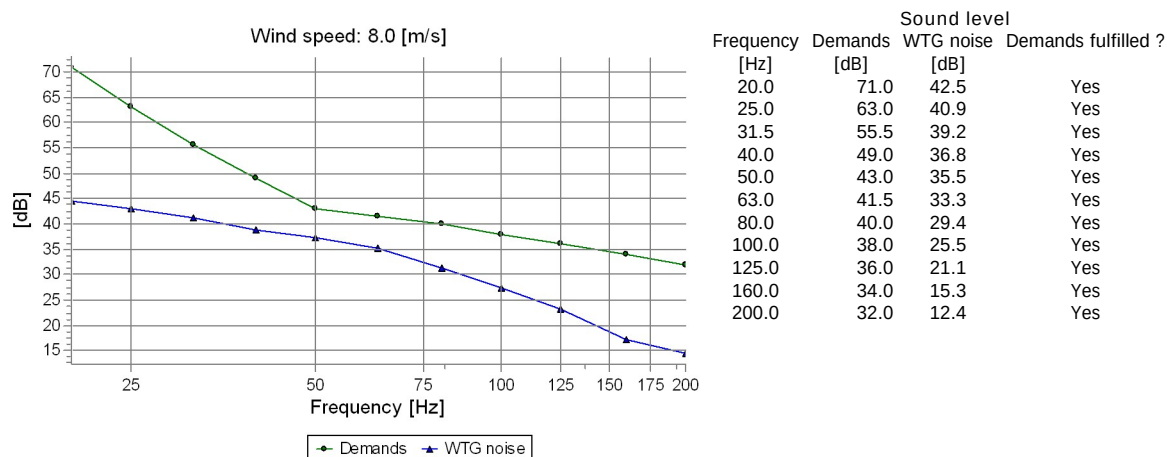
Männiku Noise sensitive area: Demands defined in calculation setup. (103)



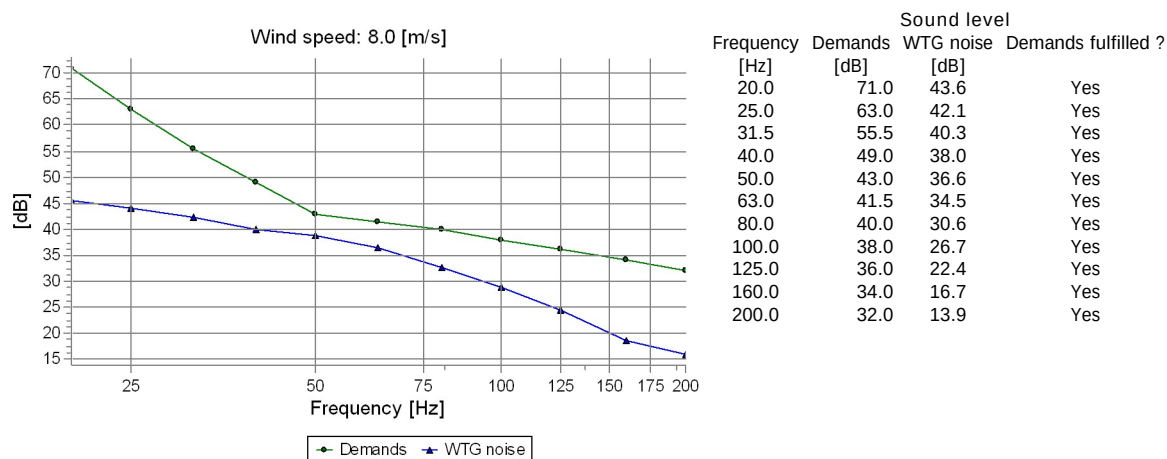
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

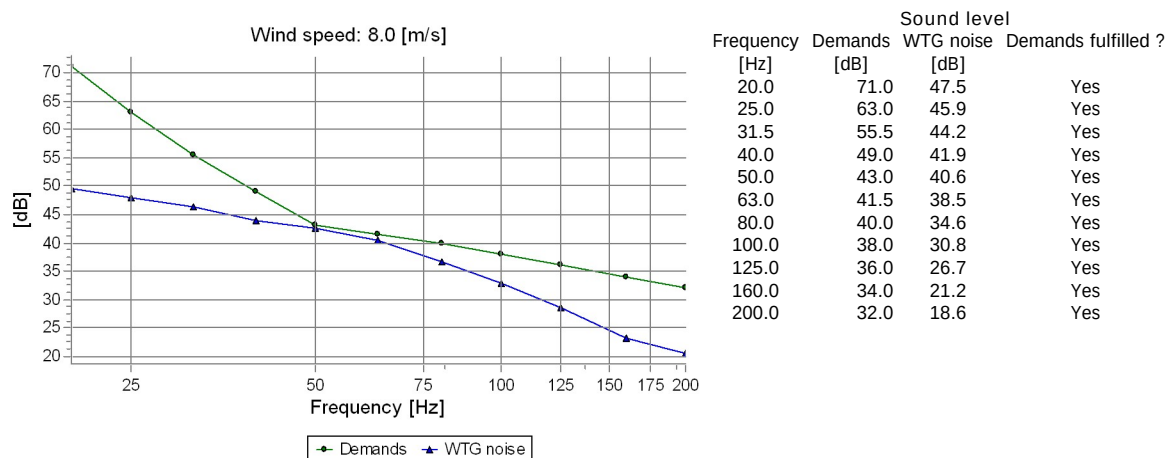
Mekro Noise sensitive area: Demands defined in calculation setup. (100)



Pargi Noise sensitive area: User defined (111)



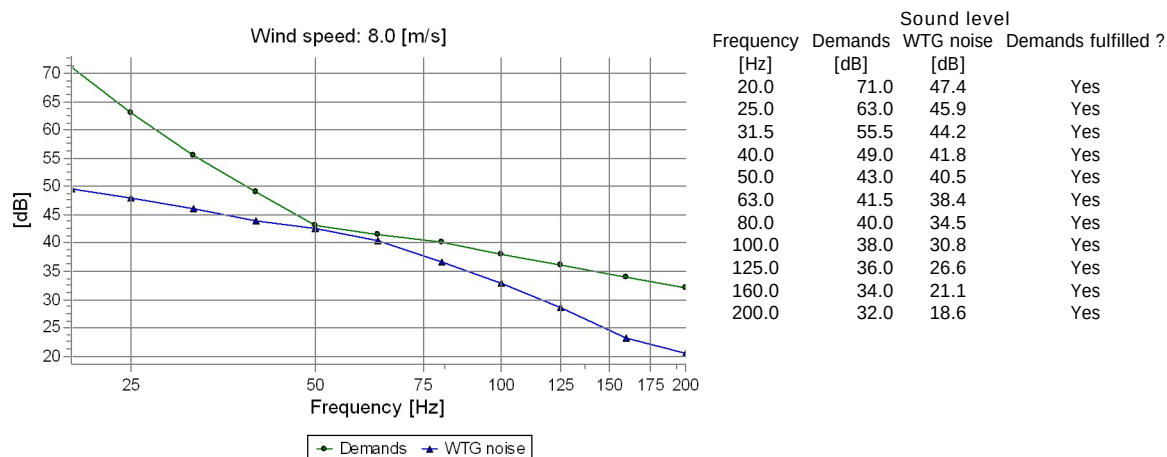
Pelgu Noise sensitive area: User defined (129)



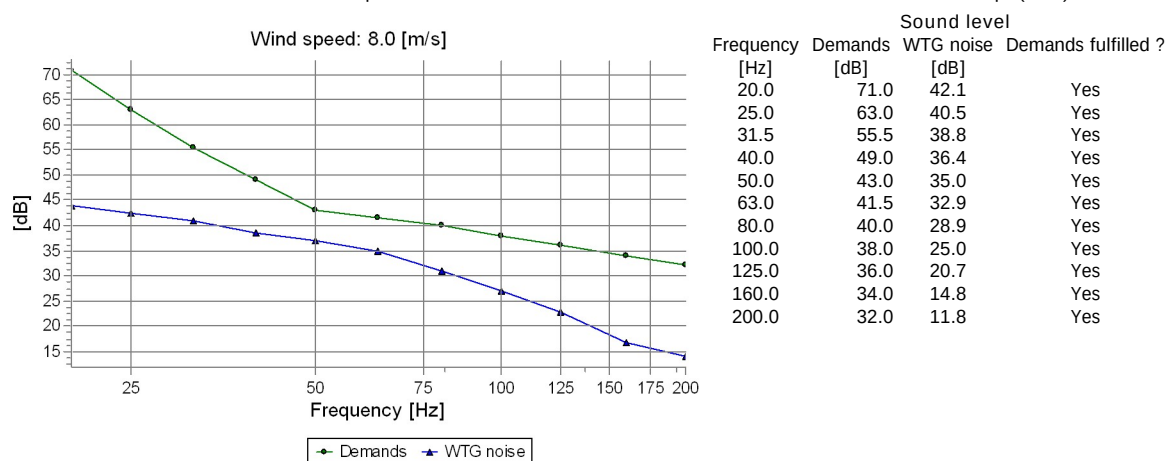
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

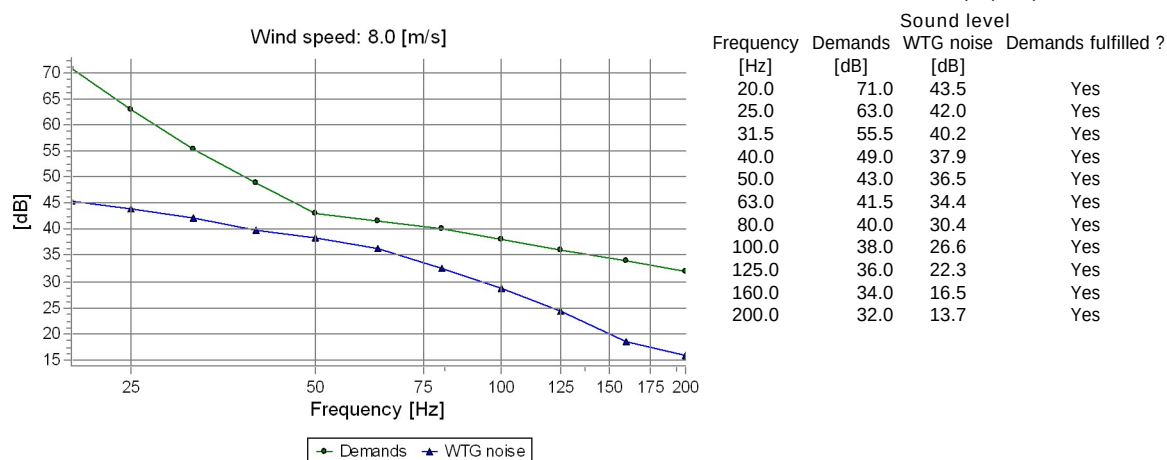
Pelgu Noise sensitive area: Demands defined in calculation setup. (57)



Sepakõrtsi Noise sensitive area: Demands defined in calculation setup. (102)



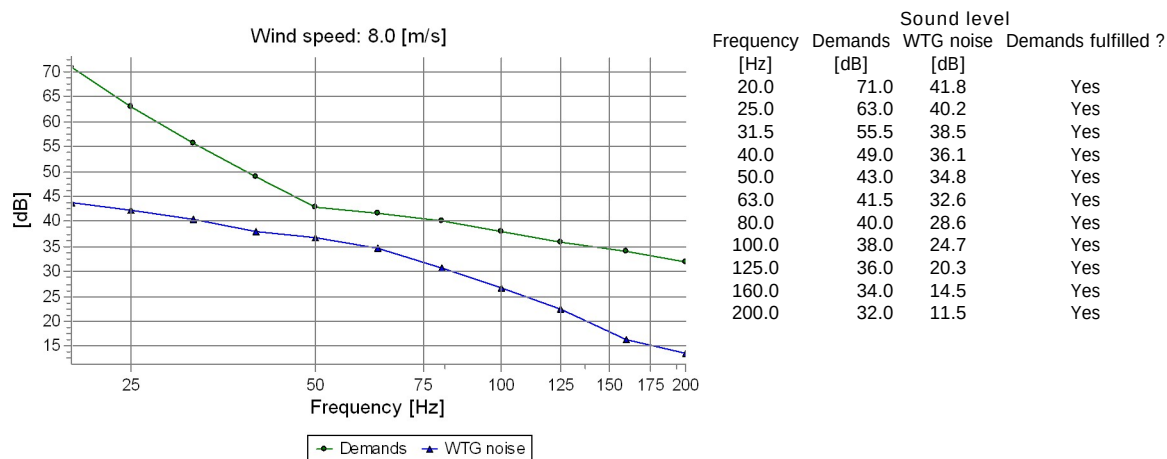
Silla Noise sensitive area: Demands defined in calculation setup. (105)



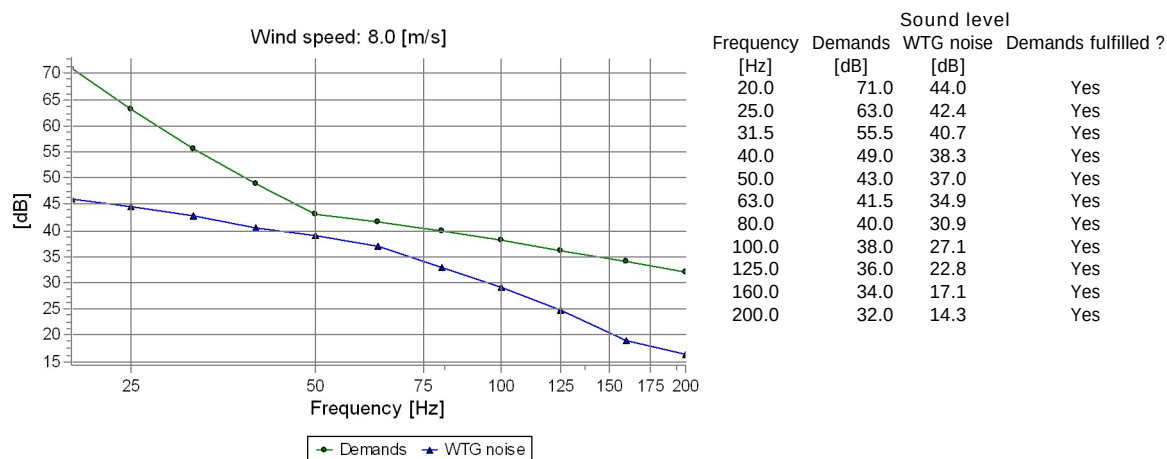
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

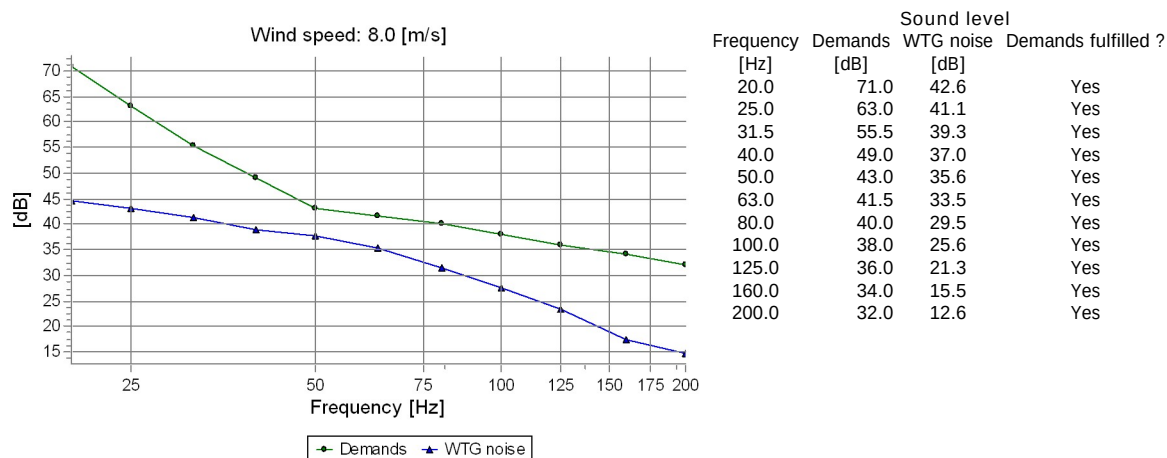
Vanaveski Noise sensitive area: Demands defined in calculation setup. (101)



Vastseveski Noise sensitive area: Demands defined in calculation setup. (106)



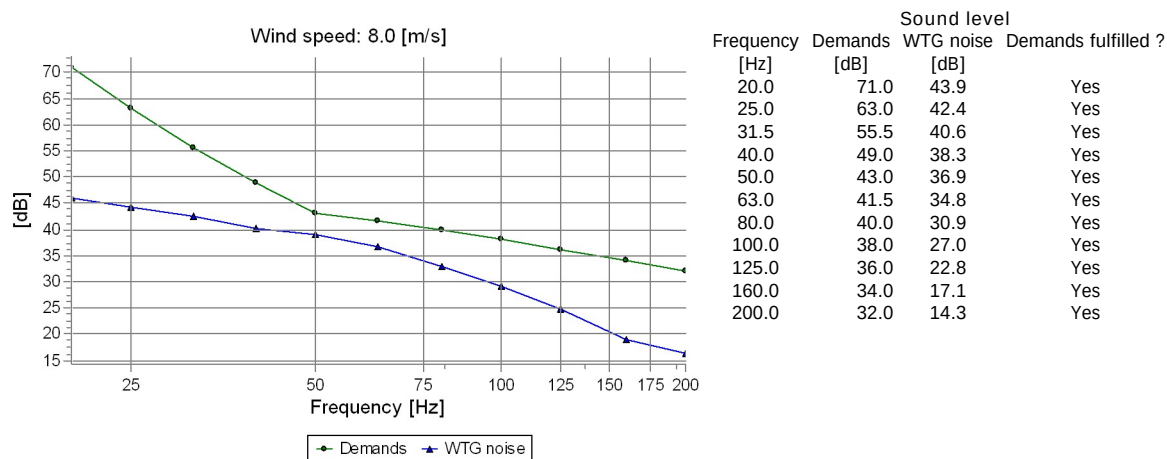
Veski Noise sensitive area: User defined (131)



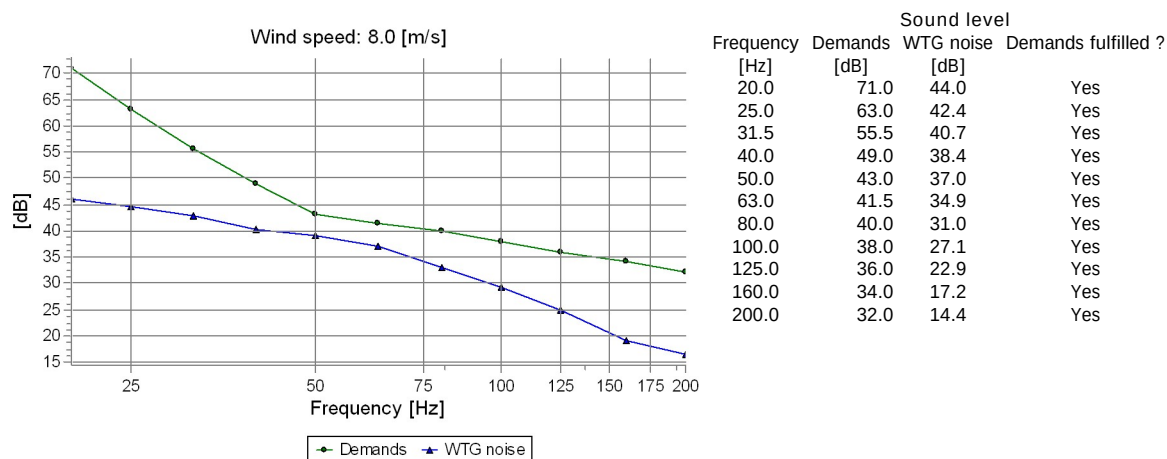
DECIBEL - Detailed results, graphic

Calculation: Madalsageduslik müra Noise calculation model: Finland Low frequency 8.0 m/s

Viitaku Noise sensitive area: User defined (130)



Viltaku Noise sensitive area: Demands defined in calculation setup. (58)



Project:
Tõrva

Licensed user:
Lemma OÜ
Värvi 5 - A308
EE-10621 Tallinn
+3725059914
Piret Toonpere / piret@lemma.ee
Calculated:
05/20/25 19:58/4.0.552

DECIBEL - Assumptions for noise calculation

Calculation: Madalsageduslik müra

Noise calculation model:

Finland Low frequency

Wind speed (at 10 m height):

8.0 m/s

Spectral distribution:

From 20.0 Hz to 200.0 Hz

Meteorological coefficient, C0:

Selected option: Fixed value: 0.0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Pure tone penalty is subtracted from demand

Model: 5.0 dB(A)

Height above ground level, when no value in NSA object:

4.0 m; Don't allow override of model height with height from NSA object

Uncertainty margin:

0.0 dB; Uncertainty margin in NSA has priority

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0.0 dB(A)

Low frequency calculation

dLsigma

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
7.6	8.3	9.2	10.3	11.5	13.0	14.8	16.8	18.8	21.1	22.8

All coordinates are in

Estonian Lambert L-EST97-EST97 (EE)

WTG: VESTAS V172-7.2 7200 172.0 !O!

Noise: PO7200 - 2024-11

Source Source/Date Creator Edited

Vestas 05/11/24 USER 05/18/25 19:37

DMS no.: 0180-4980_V01 Sound Oerformance Specification

Issued by: Vestas Power Solutions EnVentusTM

Type: T05 V172-7.2MW 50/60Hz

Date 2024-11-05

Status	Hub height	Wind speed	LwA.ref	20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
	[m]	[m/s]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
From Windcat	166.0	8.0	99.8	62.7	67.9	72.6	76.4	81.0	84.9	87.2	89.7	92.0	93.6	95.7

Noise sensitive area: Ellemäe Noise sensitive area: User defined (109)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Elli Noise sensitive area: User defined (112)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Madalsageduslik müra

Noise sensitive area: Holdre kordon Noise sensitive area: Demands defined in calculation setup. (99)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Holdre mõis Noise sensitive area: User defined (108)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Jaanimäe Noise sensitive area: User defined (110)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Lindmäe Noise sensitive area: Demands defined in calculation setup. (104)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Luhe Noise sensitive area: User defined (107)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Aizupes Noise sensitive area: User defined (122)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Andreni Noise sensitive area: User defined (118)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Madalsageduslik müra

Noise demand:
20.0 Hz 25.0 Hz 31.5 Hz 40.0 Hz 50.0 Hz 63.0 Hz 80.0 Hz 100.0 Hz 125.0 Hz 160.0 Hz 200.0 Hz
71.0 dB 63.0 dB 55.5 dB 49.0 dB 43.0 dB 41.5 dB 40.0 dB 38.0 dB 36.0 dB 34.0 dB 32.0 dB

No distance demand

Noise sensitive area: LV_Apsinas Noise sensitive area: User defined (121)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:
20.0 Hz 25.0 Hz 31.5 Hz 40.0 Hz 50.0 Hz 63.0 Hz 80.0 Hz 100.0 Hz 125.0 Hz 160.0 Hz 200.0 Hz
71.0 dB 63.0 dB 55.5 dB 49.0 dB 43.0 dB 41.5 dB 40.0 dB 38.0 dB 36.0 dB 34.0 dB 32.0 dB

No distance demand

Noise sensitive area: LV_Attekas Noise sensitive area: User defined (117)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:
20.0 Hz 25.0 Hz 31.5 Hz 40.0 Hz 50.0 Hz 63.0 Hz 80.0 Hz 100.0 Hz 125.0 Hz 160.0 Hz 200.0 Hz
71.0 dB 63.0 dB 55.5 dB 49.0 dB 43.0 dB 41.5 dB 40.0 dB 38.0 dB 36.0 dB 34.0 dB 32.0 dB

No distance demand

Noise sensitive area: LV_Cesnieki Noise sensitive area: User defined (123)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:
20.0 Hz 25.0 Hz 31.5 Hz 40.0 Hz 50.0 Hz 63.0 Hz 80.0 Hz 100.0 Hz 125.0 Hz 160.0 Hz 200.0 Hz
71.0 dB 63.0 dB 55.5 dB 49.0 dB 43.0 dB 41.5 dB 40.0 dB 38.0 dB 36.0 dB 34.0 dB 32.0 dB

No distance demand

Noise sensitive area: LV_Dzintari Noise sensitive area: User defined (126)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:
20.0 Hz 25.0 Hz 31.5 Hz 40.0 Hz 50.0 Hz 63.0 Hz 80.0 Hz 100.0 Hz 125.0 Hz 160.0 Hz 200.0 Hz
71.0 dB 63.0 dB 55.5 dB 49.0 dB 43.0 dB 41.5 dB 40.0 dB 38.0 dB 36.0 dB 34.0 dB 32.0 dB

No distance demand

Noise sensitive area: LV_Gundegas Noise sensitive area: User defined (120)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:
20.0 Hz 25.0 Hz 31.5 Hz 40.0 Hz 50.0 Hz 63.0 Hz 80.0 Hz 100.0 Hz 125.0 Hz 160.0 Hz 200.0 Hz
71.0 dB 63.0 dB 55.5 dB 49.0 dB 43.0 dB 41.5 dB 40.0 dB 38.0 dB 36.0 dB 34.0 dB 32.0 dB

No distance demand

Noise sensitive area: LV_Lejasumpuli Noise sensitive area: User defined (124)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:
20.0 Hz 25.0 Hz 31.5 Hz 40.0 Hz 50.0 Hz 63.0 Hz 80.0 Hz 100.0 Hz 125.0 Hz 160.0 Hz 200.0 Hz
71.0 dB 63.0 dB 55.5 dB 49.0 dB 43.0 dB 41.5 dB 40.0 dB 38.0 dB 36.0 dB 34.0 dB 32.0 dB

No distance demand

Project:
Tõrva

Licensed user:
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+372059914
Piret Toonpere / piret@lemma.ee
Calculated:
05/20/25 19:58/4.0.552

DECIBEL - Assumptions for noise calculation

Calculation: Madalsageduslik müra

Noise sensitive area: LV_Medni Noise sensitive area: User defined (115)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Omuli RPP Noise sensitive area: User defined (113)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Rozas Noise sensitive area: User defined (116)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Strazdini Noise sensitive area: User defined (114)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Vecunguri Noise sensitive area: User defined (119)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Vilci Noise sensitive area: User defined (128)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Zeltnalni Noise sensitive area: User defined (125)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Madalsageduslik müra

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: LV_Zimelnieki Noise sensitive area: User defined (127)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Männiku Noise sensitive area: Demands defined in calculation setup. (103)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Mekro Noise sensitive area: Demands defined in calculation setup. (100)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Pargi Noise sensitive area: User defined (111)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Pelgu Noise sensitive area: User defined (129)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Pelgu Noise sensitive area: Demands defined in calculation setup. (57)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Madalsageduslik müra

Noise sensitive area: Sepakõrtsi Noise sensitive area: Demands defined in calculation setup. (102)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Silla Noise sensitive area: Demands defined in calculation setup. (105)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Vanaveski Noise sensitive area: Demands defined in calculation setup. (101)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Vastseveski Noise sensitive area: Demands defined in calculation setup. (106)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Veski Noise sensitive area: User defined (131)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Viitaku Noise sensitive area: User defined (130)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand

Noise sensitive area: Viltaku Noise sensitive area: Demands defined in calculation setup. (58)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: 2.0 dB

No temporal binning

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DECIBEL - Assumptions for noise calculation

Calculation: Madalsageduslik müra

Noise demand:

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz	50.0 Hz	63.0 Hz	80.0 Hz	100.0 Hz	125.0 Hz	160.0 Hz	200.0 Hz
71.0 dB	63.0 dB	55.5 dB	49.0 dB	43.0 dB	41.5 dB	40.0 dB	38.0 dB	36.0 dB	34.0 dB	32.0 dB

No distance demand