

**Załącznik nr 6.1: Dane i wyniki obliczeń propagacji hałasu z programu SON2 –
pora dzienna, wysokość 1,5m npt.**

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HAŁAS PRZEMYSŁOWY i DROGOWY
PROGRAM SON2 WERSJA 3.3

Właściciel licencji: Biuro Geologii i Sozologii "GEOTECHNIKA"
Al. Sienkiewicza 44 99-400 Łowicz
Licencja nr GEO/99400/ORV_S12_C/09/11 z dnia 09.09.2009

DANE WEJŚCIOWE

Rodzaj obliczeń: Poziom hałasu równoważnego

1. Nazwa projektu: Zespół inwentarski na dz. nr 325, 326, 327 i 328 w m. Mastki
2. Temperatura powietrza [st C.] = 10
3. Wilgotność względna powietrza [%] = 70
4. Tło akustyczne dB(A):
Pora dnia : 0
Pora nocy : 0
5. Rodzaj gruntu : grunt mieszany, wskaźnik gruntu G = 0.9

6. Punktowe źródła hałasu

Lp	Symbol	Współrzędne źródła			Rodzaj	LAW	tD	tN
		x	y	z	źródła			
		m	m	m		dB (A)	h	h
1	W1	113.6	119.0	4.5	wszechkier.	78.2	8.000	
2	W2	116.7	153.7	4.5	wszechkier.	75.2	8.000	
3	W3	115.9	145.3	4.5	wszechkier.	75.2	8.000	
4	W4	114.7	133.9	4.5	wszechkier.	75.2	8.000	
5	W5	114.1	126.8	4.5	wszechkier.	78.2	8.000	
6	W6	154.8	124.7	4.5	wszechkier.	75.2	8.000	
7	W7	154.1	116.5	4.5	wszechkier.	75.2	8.000	
8	W8	131.8	186.6	4.5	wszechkier.	78.2	8.000	
9	W9	131.2	178.9	4.5	wszechkier.	78.2	8.000	
10	W10	130.7	171.0	4.5	wszechkier.	78.2	8.000	
11	W11	130.2	163.6	4.5	wszechkier.	78.2	8.000	
12	k1	142.8	91.2	0.8	wszechkier.	82.3	8.000	
13	k2	142.9	101.2	0.8	wszechkier.	82.3	8.000	
14	k3	143.5	111.4	0.8	wszechkier.	82.3	8.000	
15	k4	144.3	121.3	0.8	wszechkier.	82.3	8.000	
16	k5	145.1	131.3	0.8	wszechkier.	82.3	8.000	
17	k6	135.0	131.8	0.8	wszechkier.	82.3	8.000	
18	k7	134.1	121.8	0.8	wszechkier.	82.3	8.000	
19	k8	133.5	112.0	0.8	wszechkier.	82.3	8.000	
20	k9	125.3	141.2	0.8	wszechkier.	82.3	8.000	
21	k10	125.0	132.3	0.8	wszechkier.	82.3	8.000	
22	k11	124.4	122.5	0.8	wszechkier.	82.3	8.000	
23	k12	123.2	112.8	0.8	wszechkier.	82.3	8.000	
24	k13	102.3	92.4	0.8	wszechkier.	82.3	8.000	
25	k14	103.1	102.3	0.8	wszechkier.	75.1	8.000	
26	k15	104.0	112.3	0.8	wszechkier.	75.1	8.000	
27	k16	104.7	122.4	0.8	wszechkier.	75.1	8.000	
28	k17	105.5	132.3	0.8	wszechkier.	75.1	8.000	
29	k18	106.3	142.3	0.8	wszechkier.	75.1	8.000	
30	k19	107.1	152.3	0.8	wszechkier.	75.1	8.000	
31	k20	107.9	162.3	0.8	wszechkier.	75.1	8.000	
32	k21	108.6	172.2	0.8	wszechkier.	75.1	8.000	
33	k22	109.4	182.4	0.8	wszechkier.	75.1	8.000	
34	k23	110.3	192.3	0.8	wszechkier.	75.1	8.000	

35	k24	120.4	194.3	0.8	wszechkier.	82.3	8.000
36	k25	130.5	193.6	0.8	wszechkier.	82.3	8.000
37	k26	140.5	192.9	0.8	wszechkier.	82.3	8.000
38	k27	143.4	183.0	0.8	wszechkier.	82.3	8.000
39	k28	142.8	173.2	0.8	wszechkier.	82.3	8.000
40	k29	142.3	163.0	0.8	wszechkier.	82.3	8.000
41	k30	150.1	189.5	0.8	wszechkier.	82.3	8.000
42	k31	157.2	182.1	0.8	wszechkier.	82.3	8.000
43	k32	158.3	172.2	0.8	wszechkier.	82.3	8.000

LAW - poziom mocy akustycznej źródła nominalny

tD - czas pracy źródła w przedziale 8 kolejnych najmniej korzystnych godzin dnia

tN - czas pracy źródła w przedziale 1 najmniej korzystnej godziny nocy

7. Źródła hałasu typu budynek

Lp	Symbol	Współrzędne wierzchołków budynku [m]								ho	h1
		A(x1,	y1)	B(x2,	y2)	C(x3,	y3)	D(x4,	y4)		
1	B1	112.2	122.3	118.6	121.7	117.0	104.4	110.7	105.1	0.0	4.4
2	B2a	112.2	157.6	120.7	156.6	119.4	138.7	110.5	139.4	0.0	3.5
3	B2b	110.5	139.4	119.4	138.7	117.9	122.5	108.9	123.1	0.0	3.5
4	B3	151.5	128.2	158.4	127.7	157.3	114.7	150.5	115.3	0.0	3.5
5	B4	148.8	155.5	157.4	155.0	157.0	148.3	148.4	148.7	0.0	4.0
6	B5	124.9	190.4	137.9	189.5	135.7	159.9	122.9	160.6	0.0	4.4
7	B6	148.4	148.6	158.1	148.0	157.4	133.2	147.8	133.6	0.0	6.0

7.1 Opis ścian budynków

Lp	Budynek	Wielkość	Jedn.	Ściana AB	Ściana BC	Ściana CD	Ściana DA	dach
1 B1		Wsp. odbicia	-	0.8	0.8	0.8	0.8	0.8
		L _{Awew} dzień	dB (A)	75.0	75.0	75.0	75.0	75.0
		Izolacyjność	dB (A)	46.0	46.0	46.0	46.0	18.0
2 B2a		Wsp. odbicia	-	0.8	0.8	0.8	0.8	0.8
		L _{Awew} dzień	dB (A)	75.0	75.0	75.0	75.0	75.0
		Izolacyjność	dB (A)	46.0	46.0	46.0	46.0	18.0
3 B2b		Wsp. odbicia	-	0.8	0.8	0.8	0.8	0.8
		L _{Awew} dzień	dB (A)	75.0	75.0	75.0	75.0	75.0
		Izolacyjność	dB (A)	46.0	46.0	46.0	46.0	25.0
4 B3		Wsp. odbicia	-	0.8	0.8	0.8	0.8	0.8
		L _{Awew} dzień	dB (A)	75.0	75.0	75.0	75.0	75.0
		Izolacyjność	dB (A)	46.0	46.0	46.0	46.0	25.0
5 B4		Wsp. odbicia	-	0.8	0.8	0.8	0.8	0.8
		L _{Awew} dzień	dB (A)	75.0	75.0	75.0	75.0	75.0
		Izolacyjność	dB (A)	46.0	46.0	46.0	46.0	18.0
6 B5		Wsp. odbicia	-	0.8	0.8	0.8	0.8	0.8
		L _{Awew} dzień	dB (A)	75.0	75.0	75.0	75.0	75.0
		Izolacyjność	dB (A)	46.0	46.0	46.0	46.0	25.0
7 B6		Wsp. odbicia	-	0.8	0.8	0.8	0.8	0.8
		L _{Awew} dzień	dB (A)	70.0	70.0	70.0	70.0	70.0
		Izolacyjność	dB (A)	46.0	46.0	46.0	46.0	18.0

L_{Awew} dzień - poziom dźwięku A wewnątrz budynku w przedziale 8 kolejnych najmniej korzystnych godzin dnia

8. Ekrany - budynki

Lp	Symbol	Wia		Współrzędne x,y wierzchołków ekranu[m]								ho	h1	Współczynniki				
		ta		x1	y1		x2	y2		x3	y3		x4	y4		m	m	odbicia scian
		(W)																nr 1 - 4
=====																		
1	E1			120.8	156.6		132.3	155.5		131.7	143.4		119.9	143.7		0.0	3.5	0.8 0.8 0.8 0.8
2	E2a			132.5	156.4		148.7	155.4		148.3	148.7		132.1	149.6		0.0	4.0	0.8 0.8 0.8 0.8
3	E2b			132.1	149.5		148.4	148.5		147.7	135.9		131.6	137.0		0.0	6.0	0.8 0.8 0.8 0.8
4	E2c			131.6	136.8		135.6	136.4		135.3	134.1		131.5	134.2		0.0	3.5	0.8 0.8 0.8 0.8
5	E3			150.5	115.2		157.3	114.6		155.8	95.9		148.9	96.5		0.0	3.5	0.8 0.8 0.8 0.8
6	E4a			124.2	108.0		136.8	107.0		135.6	97.0		122.9	98.1		0.0	7.0	0.8 0.8 0.8 0.8
7	E4b			128.2	109.0		136.8	108.1		136.8	107.0		128.1	108.2		0.0	7.0	0.8 0.8 0.8 0.8
8	E4c			128.7	97.2		135.6	96.8		135.3	95.4		128.6	95.9		0.0	7.0	0.8 0.8 0.8 0.8
9	E5a			171.8	141.2		195.0	139.1		194.3	130.0		171.1	131.9		0.0	4.5	0.8 0.8 0.8 0.8
10	E5b			171.1	131.8		175.5	131.4		175.4	129.1		171.0	129.5		0.0	4.5	0.8 0.8 0.8 0.8
11	E5c			179.1	131.1		183.7	130.7		183.4	128.6		178.8	128.9		0.0	4.5	0.8 0.8 0.8 0.8
12	E5d			190.1	130.2		194.3	130.0		194.1	127.7		189.9	128.0		0.0	4.5	0.8 0.8 0.8 0.8
13	E6			160.6	114.2		167.0	113.7		166.6	98.0		160.0	98.2		0.0	4.5	0.8 0.8 0.8 0.8
14	E7			136.4	65.0		150.6	63.7		148.1	33.5		133.9	34.4		0.0	4.0	0.8 0.8 0.8 0.8

9. Współrzędne wierzchołków wieloboku terenu zakładu

Lp	Współrzędne wierzchołków	
	x	y
	m	m
1	113.3	199.4
2	139.7	197.4
3	163.8	195.1
4	160.0	144.4
5	158.8	127.7
6	156.3	95.9
7	155.6	87.0
8	104.8	92.4
9	109.4	148.3

Koniec danych

L_{Aeq} , pory dnia i nocy

Nr punktu	Współrzędne punktów			Poziom dźwięku w porze	
	x	y	z	dnia	nocy
	m	m	m	dB (A)	dB (A)
1	0.0	270.0	1.5	29.1	
2	10.0	270.0	1.5	29.6	
3	20.0	270.0	1.5	30.0	
4	30.0	270.0	1.5	30.6	
5	40.0	270.0	1.5	31.0	
6	50.0	270.0	1.5	31.6	
7	60.0	270.0	1.5	32.2	
8	70.0	270.0	1.5	32.6	
9	80.0	270.0	1.5	33.0	
10	90.0	270.0	1.5	33.4	
11	100.0	270.0	1.5	33.7	
12	110.0	270.0	1.5	34.1	
13	120.0	270.0	1.5	34.6	
14	130.0	270.0	1.5	34.4	
15	140.0	270.0	1.5	34.6	
16	150.0	270.0	1.5	34.3	
17	160.0	270.0	1.5	34.0	
18	170.0	270.0	1.5	33.9	
19	180.0	270.0	1.5	33.5	
20	190.0	270.0	1.5	33.1	
21	200.0	270.0	1.5	32.5	
22	210.0	270.0	1.5	32.0	
23	220.0	270.0	1.5	31.5	
24	230.0	270.0	1.5	31.1	
25	240.0	270.0	1.5	30.6	
26	250.0	270.0	1.5	30.1	
27	260.0	270.0	1.5	29.8	
28	270.0	270.0	1.5	29.5	
29	0.0	260.0	1.5	29.5	
30	10.0	260.0	1.5	30.0	
31	20.0	260.0	1.5	30.4	
32	30.0	260.0	1.5	30.9	
33	40.0	260.0	1.5	31.5	
34	50.0	260.0	1.5	32.2	
35	60.0	260.0	1.5	32.9	
36	70.0	260.0	1.5	33.4	
37	80.0	260.0	1.5	33.9	
38	90.0	260.0	1.5	34.5	
39	100.0	260.0	1.5	34.8	
40	110.0	260.0	1.5	35.4	
41	120.0	260.0	1.5	35.8	
42	130.0	260.0	1.5	35.6	
43	140.0	260.0	1.5	35.7	
44	150.0	260.0	1.5	35.5	

45	160.0	260.0	1.5	35.1
46	170.0	260.0	1.5	34.8
47	180.0	260.0	1.5	34.5
48	190.0	260.0	1.5	34.0
49	200.0	260.0	1.5	33.3
50	210.0	260.0	1.5	32.7
51	220.0	260.0	1.5	32.2
52	230.0	260.0	1.5	31.6
53	240.0	260.0	1.5	31.2
54	250.0	260.0	1.5	30.7
55	260.0	260.0	1.5	30.3
56	270.0	260.0	1.5	29.8
57	0.0	250.0	1.5	29.9
58	10.0	250.0	1.5	30.4
59	20.0	250.0	1.5	30.9
60	30.0	250.0	1.5	31.4
61	40.0	250.0	1.5	31.9
62	50.0	250.0	1.5	32.7
63	60.0	250.0	1.5	33.5
64	70.0	250.0	1.5	34.2
65	80.0	250.0	1.5	34.8
66	90.0	250.0	1.5	35.6
67	100.0	250.0	1.5	36.2
68	110.0	250.0	1.5	36.7
69	120.0	250.0	1.5	37.3
70	130.0	250.0	1.5	37.2
71	140.0	250.0	1.5	37.2
72	150.0	250.0	1.5	36.9
73	160.0	250.0	1.5	36.7
74	170.0	250.0	1.5	36.3
75	180.0	250.0	1.5	35.7
76	190.0	250.0	1.5	35.0
77	200.0	250.0	1.5	34.2
78	210.0	250.0	1.5	33.5
79	220.0	250.0	1.5	32.9
80	230.0	250.0	1.5	32.3
81	240.0	250.0	1.5	31.7
82	250.0	250.0	1.5	31.2
83	260.0	250.0	1.5	30.6
84	270.0	250.0	1.5	30.2
85	0.0	240.0	1.5	30.1
86	10.0	240.0	1.5	30.7
87	20.0	240.0	1.5	31.4
88	30.0	240.0	1.5	31.9
89	40.0	240.0	1.5	32.5
90	50.0	240.0	1.5	33.2
91	60.0	240.0	1.5	34.0
92	70.0	240.0	1.5	35.0
93	80.0	240.0	1.5	35.9
94	90.0	240.0	1.5	36.8
95	100.0	240.0	1.5	37.6
96	110.0	240.0	1.5	38.2
97	120.0	240.0	1.5	39.0
98	130.0	240.0	1.5	39.0
99	140.0	240.0	1.5	39.0
100	150.0	240.0	1.5	38.6
101	160.0	240.0	1.5	38.3
102	170.0	240.0	1.5	37.6
103	180.0	240.0	1.5	36.9
104	190.0	240.0	1.5	36.0
105	200.0	240.0	1.5	35.2
106	210.0	240.0	1.5	34.3
107	220.0	240.0	1.5	33.6
108	230.0	240.0	1.5	32.9
109	240.0	240.0	1.5	32.3
110	250.0	240.0	1.5	31.7
111	260.0	240.0	1.5	31.2
112	270.0	240.0	1.5	30.4
113	0.0	230.0	1.5	30.2
114	10.0	230.0	1.5	31.0
115	20.0	230.0	1.5	31.6
116	30.0	230.0	1.5	32.4
117	40.0	230.0	1.5	33.1
118	50.0	230.0	1.5	33.9

119	60.0	230.0	1.5	34.8
120	70.0	230.0	1.5	35.6
121	80.0	230.0	1.5	36.9
122	90.0	230.0	1.5	38.1
123	100.0	230.0	1.5	39.1
124	110.0	230.0	1.5	40.3
125	120.0	230.0	1.5	41.0
126	130.0	230.0	1.5	41.3
127	140.0	230.0	1.5	41.2
128	150.0	230.0	1.5	40.8
129	160.0	230.0	1.5	40.3
130	170.0	230.0	1.5	39.2
131	180.0	230.0	1.5	38.2
132	190.0	230.0	1.5	37.2
133	200.0	230.0	1.5	36.1
134	210.0	230.0	1.5	35.0
135	220.0	230.0	1.5	34.1
136	230.0	230.0	1.5	33.3
137	240.0	230.0	1.5	32.6
138	250.0	230.0	1.5	32.0
139	260.0	230.0	1.5	31.1
140	270.0	230.0	1.5	30.6
141	0.0	220.0	1.5	30.5
142	10.0	220.0	1.5	31.1
143	20.0	220.0	1.5	31.7
144	30.0	220.0	1.5	32.8
145	40.0	220.0	1.5	33.7
146	50.0	220.0	1.5	34.6
147	60.0	220.0	1.5	35.5
148	70.0	220.0	1.5	36.5
149	80.0	220.0	1.5	37.7
150	90.0	220.0	1.5	39.5
151	100.0	220.0	1.5	41.0
152	110.0	220.0	1.5	42.7
153	120.0	220.0	1.5	44.0
154	130.0	220.0	1.5	44.3
155	140.0	220.0	1.5	44.2
156	150.0	220.0	1.5	43.7
157	160.0	220.0	1.5	42.7
158	170.0	220.0	1.5	41.2
159	180.0	220.0	1.5	39.9
160	190.0	220.0	1.5	38.5
161	200.0	220.0	1.5	37.0
162	210.0	220.0	1.5	35.8
163	220.0	220.0	1.5	34.7
164	230.0	220.0	1.5	33.9
165	240.0	220.0	1.5	33.0
166	250.0	220.0	1.5	32.2
167	260.0	220.0	1.5	31.6
168	270.0	220.0	1.5	30.9
169	0.0	210.0	1.5	30.7
170	10.0	210.0	1.5	31.5
171	20.0	210.0	1.5	32.2
172	30.0	210.0	1.5	32.9
173	40.0	210.0	1.5	34.0
174	50.0	210.0	1.5	35.0
175	60.0	210.0	1.5	36.1
176	70.0	210.0	1.5	37.3
177	80.0	210.0	1.5	38.7
178	90.0	210.0	1.5	40.6
179	100.0	210.0	1.5	43.4
180	110.0	210.0	1.5	46.0
181	120.0	210.0	1.5	48.1
182	130.0	210.0	1.5	48.6
183	140.0	210.0	1.5	48.4
184	150.0	210.0	1.5	47.5
185	160.0	210.0	1.5	45.8
186	170.0	210.0	1.5	43.7
187	180.0	210.0	1.5	41.6
188	190.0	210.0	1.5	39.6
189	200.0	210.0	1.5	37.8
190	210.0	210.0	1.5	36.3
191	220.0	210.0	1.5	35.3
192	230.0	210.0	1.5	34.5

193	240.0	210.0	1.5	33.5
194	250.0	210.0	1.5	32.7
195	260.0	210.0	1.5	32.0
196	270.0	210.0	1.5	31.3
197	0.0	200.0	1.5	31.2
198	10.0	200.0	1.5	31.7
199	20.0	200.0	1.5	32.5
200	30.0	200.0	1.5	33.4
201	40.0	200.0	1.5	34.4
202	50.0	200.0	1.5	35.5
203	60.0	200.0	1.5	36.8
204	70.0	200.0	1.5	38.1
205	80.0	200.0	1.5	39.6
206	90.0	200.0	1.5	41.8
207	100.0	200.0	1.5	45.5
208	110.0	200.0	1.5	50.4
209	120.0	200.0	1.5	56.0
210	130.0	200.0	1.5	56.1
211	140.0	200.0	1.5	55.3
212	150.0	200.0	1.5	53.0
213	160.0	200.0	1.5	49.7
214	170.0	200.0	1.5	46.1
215	180.0	200.0	1.5	43.2
216	190.0	200.0	1.5	40.7
217	200.0	200.0	1.5	38.7
218	210.0	200.0	1.5	37.1
219	220.0	200.0	1.5	35.9
220	230.0	200.0	1.5	34.8
221	240.0	200.0	1.5	33.8
222	250.0	200.0	1.5	33.0
223	260.0	200.0	1.5	32.3
224	270.0	200.0	1.5	31.8
225	0.0	190.0	1.5	31.5
226	10.0	190.0	1.5	32.1
227	20.0	190.0	1.5	33.0
228	30.0	190.0	1.5	33.8
229	40.0	190.0	1.5	34.7
230	50.0	190.0	1.5	35.9
231	60.0	190.0	1.5	37.1
232	70.0	190.0	1.5	38.7
233	80.0	190.0	1.5	40.5
234	90.0	190.0	1.5	42.9
235	100.0	190.0	1.5	47.1
236	110.0	190.0	1.5	57.1
237	120.0	190.0	1.5	58.3
239	140.0	190.0	1.5	62.5
240	150.0	190.0	1.5	72.6
241	160.0	190.0	1.5	54.4
242	170.0	190.0	1.5	48.7
243	180.0	190.0	1.5	44.5
244	190.0	190.0	1.5	41.5
245	200.0	190.0	1.5	39.2
246	210.0	190.0	1.5	37.7
247	220.0	190.0	1.5	36.4
248	230.0	190.0	1.5	35.2
249	240.0	190.0	1.5	34.2
250	250.0	190.0	1.5	33.3
251	260.0	190.0	1.5	32.1
252	270.0	190.0	1.5	31.3
253	0.0	180.0	1.5	31.6
254	10.0	180.0	1.5	32.4
255	20.0	180.0	1.5	33.3
256	30.0	180.0	1.5	34.2
257	40.0	180.0	1.5	35.3
258	50.0	180.0	1.5	36.3
259	60.0	180.0	1.5	37.7
260	70.0	180.0	1.5	39.1
261	80.0	180.0	1.5	41.0
262	90.0	180.0	1.5	43.5
263	100.0	180.0	1.5	47.6
264	110.0	180.0	1.5	56.3
265	120.0	180.0	1.5	50.7
267	140.0	180.0	1.5	60.4
268	150.0	180.0	1.5	58.2

269	160.0	180.0	1.5	60.5
270	170.0	180.0	1.5	50.5
271	180.0	180.0	1.5	45.4
272	190.0	180.0	1.5	42.0
273	200.0	180.0	1.5	40.0
274	210.0	180.0	1.5	38.2
275	220.0	180.0	1.5	36.7
276	230.0	180.0	1.5	35.5
277	240.0	180.0	1.5	34.5
278	250.0	180.0	1.5	33.2
279	260.0	180.0	1.5	32.0
280	270.0	180.0	1.5	31.2
281	0.0	170.0	1.5	31.7
282	10.0	170.0	1.5	32.5
283	20.0	170.0	1.5	33.4
284	30.0	170.0	1.5	34.6
285	40.0	170.0	1.5	35.5
286	50.0	170.0	1.5	36.6
287	60.0	170.0	1.5	38.2
288	70.0	170.0	1.5	39.7
289	80.0	170.0	1.5	41.5
290	90.0	170.0	1.5	44.1
291	100.0	170.0	1.5	48.3
292	110.0	170.0	1.5	55.9
293	120.0	170.0	1.5	49.5
295	140.0	170.0	1.5	60.4
296	150.0	170.0	1.5	56.9
297	160.0	170.0	1.5	61.9
298	170.0	170.0	1.5	50.1
299	180.0	170.0	1.5	45.2
300	190.0	170.0	1.5	42.2
301	200.0	170.0	1.5	40.2
302	210.0	170.0	1.5	38.7
303	220.0	170.0	1.5	37.2
304	230.0	170.0	1.5	35.9
305	240.0	170.0	1.5	34.3
306	250.0	170.0	1.5	32.8
307	260.0	170.0	1.5	32.0
308	270.0	170.0	1.5	31.1
309	0.0	160.0	1.5	31.8
310	10.0	160.0	1.5	32.6
311	20.0	160.0	1.5	33.6
312	30.0	160.0	1.5	34.6
313	40.0	160.0	1.5	35.6
314	50.0	160.0	1.5	36.9
315	60.0	160.0	1.5	38.5
316	70.0	160.0	1.5	39.9
317	80.0	160.0	1.5	42.1
318	90.0	160.0	1.5	44.8
319	100.0	160.0	1.5	49.2
320	110.0	160.0	1.5	54.9
321	120.0	160.0	1.5	49.1
323	140.0	160.0	1.5	60.3
324	150.0	160.0	1.5	55.4
325	160.0	160.0	1.5	51.6
326	170.0	160.0	1.5	47.1
327	180.0	160.0	1.5	43.9
328	190.0	160.0	1.5	42.4
329	200.0	160.0	1.5	40.6
330	210.0	160.0	1.5	38.9
331	220.0	160.0	1.5	37.6
332	230.0	160.0	1.5	35.2
333	240.0	160.0	1.5	33.9
334	250.0	160.0	1.5	32.9
335	260.0	160.0	1.5	32.0
336	270.0	160.0	1.5	31.5
337	0.0	150.0	1.5	32.1
338	10.0	150.0	1.5	32.8
339	20.0	150.0	1.5	33.7
340	30.0	150.0	1.5	34.8
341	40.0	150.0	1.5	35.8
342	50.0	150.0	1.5	37.2
343	60.0	150.0	1.5	38.7
344	70.0	150.0	1.5	40.4

345	80.0	150.0	1.5	42.6
346	90.0	150.0	1.5	45.5
347	100.0	150.0	1.5	50.2
353	160.0	150.0	1.5	45.4
354	170.0	150.0	1.5	44.9
355	180.0	150.0	1.5	44.3
356	190.0	150.0	1.5	42.9
357	200.0	150.0	1.5	41.2
358	210.0	150.0	1.5	38.9
359	220.0	150.0	1.5	36.3
360	230.0	150.0	1.5	34.6
361	240.0	150.0	1.5	33.4
362	250.0	150.0	1.5	32.5
363	260.0	150.0	1.5	31.7
364	270.0	150.0	1.5	31.3
365	0.0	140.0	1.5	31.9
366	10.0	140.0	1.5	32.7
367	20.0	140.0	1.5	33.7
368	30.0	140.0	1.5	34.6
369	40.0	140.0	1.5	36.0
370	50.0	140.0	1.5	37.5
371	60.0	140.0	1.5	38.9
372	70.0	140.0	1.5	40.6
373	80.0	140.0	1.5	43.1
374	90.0	140.0	1.5	46.0
375	100.0	140.0	1.5	51.1
378	130.0	140.0	1.5	60.8
381	160.0	140.0	1.5	44.2
382	170.0	140.0	1.5	45.4
384	190.0	140.0	1.5	44.7
385	200.0	140.0	1.5	37.4
386	210.0	140.0	1.5	36.2
387	220.0	140.0	1.5	35.4
388	230.0	140.0	1.5	34.5
389	240.0	140.0	1.5	33.5
390	250.0	140.0	1.5	32.8
391	260.0	140.0	1.5	32.0
392	270.0	140.0	1.5	31.7
393	0.0	130.0	1.5	31.9
394	10.0	130.0	1.5	32.8
395	20.0	130.0	1.5	33.7
396	30.0	130.0	1.5	34.7
397	40.0	130.0	1.5	36.0
398	50.0	130.0	1.5	37.4
399	60.0	130.0	1.5	39.0
400	70.0	130.0	1.5	40.9
401	80.0	130.0	1.5	43.2
402	90.0	130.0	1.5	46.2
403	100.0	130.0	1.5	51.4
406	130.0	130.0	1.5	61.5
407	140.0	130.0	1.5	60.9
408	150.0	130.0	1.5	59.1
409	160.0	130.0	1.5	51.6
410	170.0	130.0	1.5	50.2
412	190.0	130.0	1.5	39.3
413	200.0	130.0	1.5	35.4
414	210.0	130.0	1.5	36.7
415	220.0	130.0	1.5	36.2
416	230.0	130.0	1.5	34.8
417	240.0	130.0	1.5	33.7
418	250.0	130.0	1.5	33.0
419	260.0	130.0	1.5	32.3
420	270.0	130.0	1.5	31.4
421	0.0	120.0	1.5	31.8
422	10.0	120.0	1.5	32.6
423	20.0	120.0	1.5	33.8
424	30.0	120.0	1.5	34.8
425	40.0	120.0	1.5	35.9
426	50.0	120.0	1.5	37.5
427	60.0	120.0	1.5	39.1
428	70.0	120.0	1.5	40.7
429	80.0	120.0	1.5	43.2
430	90.0	120.0	1.5	46.3
431	100.0	120.0	1.5	51.6

432	110.0	120.0	1.5	52.9
434	130.0	120.0	1.5	61.4
435	140.0	120.0	1.5	61.3
437	160.0	120.0	1.5	45.3
438	170.0	120.0	1.5	45.5
439	180.0	120.0	1.5	42.6
440	190.0	120.0	1.5	40.4
441	200.0	120.0	1.5	38.1
442	210.0	120.0	1.5	37.6
443	220.0	120.0	1.5	35.6
444	230.0	120.0	1.5	34.6
445	240.0	120.0	1.5	33.7
446	250.0	120.0	1.5	32.9
447	260.0	120.0	1.5	32.3
448	270.0	120.0	1.5	31.5
449	0.0	110.0	1.5	31.8
450	10.0	110.0	1.5	32.6
451	20.0	110.0	1.5	33.6
452	30.0	110.0	1.5	34.6
453	40.0	110.0	1.5	35.5
454	50.0	110.0	1.5	37.2
455	60.0	110.0	1.5	38.9
456	70.0	110.0	1.5	40.5
457	80.0	110.0	1.5	43.0
458	90.0	110.0	1.5	46.2
459	100.0	110.0	1.5	52.4
461	120.0	110.0	1.5	60.1
462	130.0	110.0	1.5	62.2
463	140.0	110.0	1.5	61.6
464	150.0	110.0	1.5	60.0
465	160.0	110.0	1.5	43.7
466	170.0	110.0	1.5	38.7
467	180.0	110.0	1.5	40.7
468	190.0	110.0	1.5	39.6
469	200.0	110.0	1.5	37.3
470	210.0	110.0	1.5	36.1
471	220.0	110.0	1.5	34.6
472	230.0	110.0	1.5	34.5
473	240.0	110.0	1.5	33.7
474	250.0	110.0	1.5	32.7
475	260.0	110.0	1.5	31.9
476	270.0	110.0	1.5	31.7
477	0.0	100.0	1.5	31.6
478	10.0	100.0	1.5	32.3
479	20.0	100.0	1.5	33.1
480	30.0	100.0	1.5	34.2
481	40.0	100.0	1.5	35.2
482	50.0	100.0	1.5	36.7
483	60.0	100.0	1.5	38.4
484	70.0	100.0	1.5	40.1
485	80.0	100.0	1.5	42.9
486	90.0	100.0	1.5	47.2
487	100.0	100.0	1.5	54.8
488	110.0	100.0	1.5	50.9
489	120.0	100.0	1.5	52.6
491	140.0	100.0	1.5	61.8
493	160.0	100.0	1.5	43.2
494	170.0	100.0	1.5	36.7
495	180.0	100.0	1.5	38.8
496	190.0	100.0	1.5	38.0
497	200.0	100.0	1.5	36.7
498	210.0	100.0	1.5	35.7
499	220.0	100.0	1.5	34.3
500	230.0	100.0	1.5	33.1
501	240.0	100.0	1.5	32.7
502	250.0	100.0	1.5	32.0
503	260.0	100.0	1.5	32.0
504	270.0	100.0	1.5	31.5
505	0.0	90.0	1.5	31.3
506	10.0	90.0	1.5	32.1
507	20.0	90.0	1.5	32.9
508	30.0	90.0	1.5	33.8
509	40.0	90.0	1.5	34.8
510	50.0	90.0	1.5	36.2

511	60.0	90.0	1.5	37.7
512	70.0	90.0	1.5	39.6
513	80.0	90.0	1.5	42.4
514	90.0	90.0	1.5	47.5
515	100.0	90.0	1.5	60.0
516	110.0	90.0	1.5	52.0
517	120.0	90.0	1.5	48.7
518	130.0	90.0	1.5	49.4
519	140.0	90.0	1.5	61.1
520	150.0	90.0	1.5	53.9
521	160.0	90.0	1.5	47.2
522	170.0	90.0	1.5	40.5
523	180.0	90.0	1.5	38.5
524	190.0	90.0	1.5	37.0
525	200.0	90.0	1.5	35.9
526	210.0	90.0	1.5	35.1
527	220.0	90.0	1.5	33.4
528	230.0	90.0	1.5	32.4
529	240.0	90.0	1.5	32.2
530	250.0	90.0	1.5	31.4
531	260.0	90.0	1.5	31.1
532	270.0	90.0	1.5	30.5
533	0.0	80.0	1.5	31.2
534	10.0	80.0	1.5	31.9
535	20.0	80.0	1.5	32.6
536	30.0	80.0	1.5	33.4
537	40.0	80.0	1.5	34.4
538	50.0	80.0	1.5	35.6
539	60.0	80.0	1.5	37.0
540	70.0	80.0	1.5	38.7
541	80.0	80.0	1.5	40.9
542	90.0	80.0	1.5	44.2
543	100.0	80.0	1.5	47.3
544	110.0	80.0	1.5	46.4
545	120.0	80.0	1.5	45.8
546	130.0	80.0	1.5	46.8
547	140.0	80.0	1.5	49.6
548	150.0	80.0	1.5	48.4
549	160.0	80.0	1.5	44.4
550	170.0	80.0	1.5	41.6
551	180.0	80.0	1.5	38.8
552	190.0	80.0	1.5	36.3
553	200.0	80.0	1.5	35.1
554	210.0	80.0	1.5	34.6
555	220.0	80.0	1.5	33.1
556	230.0	80.0	1.5	32.3
557	240.0	80.0	1.5	31.5
558	250.0	80.0	1.5	31.1
559	260.0	80.0	1.5	30.8
560	270.0	80.0	1.5	30.3
561	0.0	70.0	1.5	30.8
562	10.0	70.0	1.5	31.5
563	20.0	70.0	1.5	32.2
564	30.0	70.0	1.5	33.2
565	40.0	70.0	1.5	34.1
566	50.0	70.0	1.5	35.1
567	60.0	70.0	1.5	36.1
568	70.0	70.0	1.5	37.5
569	80.0	70.0	1.5	38.8
570	90.0	70.0	1.5	41.0
571	100.0	70.0	1.5	42.3
572	110.0	70.0	1.5	42.9
573	120.0	70.0	1.5	42.7
574	130.0	70.0	1.5	43.2
575	140.0	70.0	1.5	46.5
576	150.0	70.0	1.5	46.4
577	160.0	70.0	1.5	41.8
578	170.0	70.0	1.5	39.6
579	180.0	70.0	1.5	38.1
580	190.0	70.0	1.5	35.9
581	200.0	70.0	1.5	34.6
582	210.0	70.0	1.5	33.0
583	220.0	70.0	1.5	32.1
584	230.0	70.0	1.5	32.2

585	240.0	70.0	1.5	31.6
586	250.0	70.0	1.5	30.4
587	260.0	70.0	1.5	30.4
588	270.0	70.0	1.5	30.0
589	0.0	60.0	1.5	30.5
590	10.0	60.0	1.5	31.3
591	20.0	60.0	1.5	32.1
592	30.0	60.0	1.5	33.0
593	40.0	60.0	1.5	33.6
594	50.0	60.0	1.5	34.5
595	60.0	60.0	1.5	35.2
596	70.0	60.0	1.5	36.1
597	80.0	60.0	1.5	37.6
598	90.0	60.0	1.5	38.7
599	100.0	60.0	1.5	39.6
600	110.0	60.0	1.5	40.3
601	120.0	60.0	1.5	40.2
602	130.0	60.0	1.5	41.4
605	160.0	60.0	1.5	39.2
606	170.0	60.0	1.5	37.2
607	180.0	60.0	1.5	36.7
608	190.0	60.0	1.5	35.1
609	200.0	60.0	1.5	33.8
610	210.0	60.0	1.5	32.4
611	220.0	60.0	1.5	31.7
612	230.0	60.0	1.5	30.7
613	240.0	60.0	1.5	30.9
614	250.0	60.0	1.5	30.5
615	260.0	60.0	1.5	29.8
616	270.0	60.0	1.5	29.5
617	0.0	50.0	1.5	30.5
618	10.0	50.0	1.5	31.2
619	20.0	50.0	1.5	31.8
620	30.0	50.0	1.5	32.2
621	40.0	50.0	1.5	32.8
622	50.0	50.0	1.5	33.5
623	60.0	50.0	1.5	34.3
624	70.0	50.0	1.5	35.3
625	80.0	50.0	1.5	36.2
626	90.0	50.0	1.5	37.2
627	100.0	50.0	1.5	37.8
628	110.0	50.0	1.5	38.3
629	120.0	50.0	1.5	39.1
630	130.0	50.0	1.5	39.8
632	150.0	50.0	1.5	32.8
633	160.0	50.0	1.5	36.7
634	170.0	50.0	1.5	36.1
635	180.0	50.0	1.5	34.7
636	190.0	50.0	1.5	34.5
637	200.0	50.0	1.5	33.2
638	210.0	50.0	1.5	32.3
639	220.0	50.0	1.5	31.6
640	230.0	50.0	1.5	30.8
641	240.0	50.0	1.5	30.1
642	250.0	50.0	1.5	30.0
643	260.0	50.0	1.5	29.6
644	270.0	50.0	1.5	28.8
645	0.0	40.0	1.5	30.3
646	10.0	40.0	1.5	30.5
647	20.0	40.0	1.5	31.1
648	30.0	40.0	1.5	31.5
649	40.0	40.0	1.5	32.2
650	50.0	40.0	1.5	32.9
651	60.0	40.0	1.5	33.6
652	70.0	40.0	1.5	34.5
653	80.0	40.0	1.5	35.1
654	90.0	40.0	1.5	35.8
655	100.0	40.0	1.5	36.8
656	110.0	40.0	1.5	37.1
657	120.0	40.0	1.5	37.5
658	130.0	40.0	1.5	38.1
660	150.0	40.0	1.5	32.7
661	160.0	40.0	1.5	34.8
662	170.0	40.0	1.5	34.5

663	180.0	40.0	1.5	33.7
664	190.0	40.0	1.5	32.8
665	200.0	40.0	1.5	32.6
666	210.0	40.0	1.5	31.5
667	220.0	40.0	1.5	31.0
668	230.0	40.0	1.5	30.1
669	240.0	40.0	1.5	29.7
670	250.0	40.0	1.5	29.3
671	260.0	40.0	1.5	28.8
672	270.0	40.0	1.5	28.7
673	0.0	30.0	1.5	29.7
674	10.0	30.0	1.5	30.2
675	20.0	30.0	1.5	30.5
676	30.0	30.0	1.5	31.0
677	40.0	30.0	1.5	31.7
678	50.0	30.0	1.5	32.3
679	60.0	30.0	1.5	32.9
680	70.0	30.0	1.5	33.5
681	80.0	30.0	1.5	34.6
682	90.0	30.0	1.5	35.0
683	100.0	30.0	1.5	35.5
684	110.0	30.0	1.5	36.0
685	120.0	30.0	1.5	36.2
686	130.0	30.0	1.5	36.8
687	140.0	30.0	1.5	29.3
688	150.0	30.0	1.5	32.4
689	160.0	30.0	1.5	33.2
690	170.0	30.0	1.5	32.9
691	180.0	30.0	1.5	32.7
692	190.0	30.0	1.5	31.8
693	200.0	30.0	1.5	31.3
694	210.0	30.0	1.5	31.3
695	220.0	30.0	1.5	30.5
696	230.0	30.0	1.5	29.8
697	240.0	30.0	1.5	29.2
698	250.0	30.0	1.5	28.8
699	260.0	30.0	1.5	28.2
700	270.0	30.0	1.5	27.9
701	0.0	20.0	1.5	29.4
702	10.0	20.0	1.5	29.6
703	20.0	20.0	1.5	30.1
704	30.0	20.0	1.5	30.6
705	40.0	20.0	1.5	31.3
706	50.0	20.0	1.5	31.7
707	60.0	20.0	1.5	32.2
708	70.0	20.0	1.5	33.1
709	80.0	20.0	1.5	33.5
710	90.0	20.0	1.5	34.0
711	100.0	20.0	1.5	34.7
712	110.0	20.0	1.5	34.7
713	120.0	20.0	1.5	34.9
714	130.0	20.0	1.5	33.1
715	140.0	20.0	1.5	31.0
716	150.0	20.0	1.5	32.0
717	160.0	20.0	1.5	32.1
718	170.0	20.0	1.5	31.6
719	180.0	20.0	1.5	31.0
720	190.0	20.0	1.5	31.0
721	200.0	20.0	1.5	30.5
722	210.0	20.0	1.5	30.0
723	220.0	20.0	1.5	29.9
724	230.0	20.0	1.5	29.6
725	240.0	20.0	1.5	28.9
726	250.0	20.0	1.5	28.4
727	260.0	20.0	1.5	27.9
728	270.0	20.0	1.5	27.4
729	0.0	10.0	1.5	28.8
730	10.0	10.0	1.5	29.3
731	20.0	10.0	1.5	29.7
732	30.0	10.0	1.5	30.1
733	40.0	10.0	1.5	30.6
734	50.0	10.0	1.5	31.2
735	60.0	10.0	1.5	31.5
736	70.0	10.0	1.5	32.4

737	80.0	10.0	1.5	32.7
738	90.0	10.0	1.5	33.3
739	100.0	10.0	1.5	33.6
740	110.0	10.0	1.5	33.7
741	120.0	10.0	1.5	32.6
742	130.0	10.0	1.5	31.9
743	140.0	10.0	1.5	30.2
744	150.0	10.0	1.5	29.9
745	160.0	10.0	1.5	30.4
746	170.0	10.0	1.5	30.4
747	180.0	10.0	1.5	30.4
748	190.0	10.0	1.5	30.0
749	200.0	10.0	1.5	29.8
750	210.0	10.0	1.5	29.3
751	220.0	10.0	1.5	28.9
752	230.0	10.0	1.5	29.0
753	240.0	10.0	1.5	28.6
754	250.0	10.0	1.5	28.3
755	260.0	10.0	1.5	27.6
756	270.0	10.0	1.5	27.2
757	0.0	0.0	1.5	28.6
758	10.0	0.0	1.5	28.8
759	20.0	0.0	1.5	29.2
760	30.0	0.0	1.5	29.7
761	40.0	0.0	1.5	30.2
762	50.0	0.0	1.5	30.6
763	60.0	0.0	1.5	31.2
764	70.0	0.0	1.5	31.4
765	80.0	0.0	1.5	31.9
766	90.0	0.0	1.5	32.5
767	100.0	0.0	1.5	32.8
768	110.0	0.0	1.5	32.0
769	120.0	0.0	1.5	31.5
770	130.0	0.0	1.5	30.6
771	140.0	0.0	1.5	29.7
772	150.0	0.0	1.5	29.6
773	160.0	0.0	1.5	29.0
774	170.0	0.0	1.5	29.7
775	180.0	0.0	1.5	29.7
776	190.0	0.0	1.5	29.0
777	200.0	0.0	1.5	29.3
778	210.0	0.0	1.5	28.4
779	220.0	0.0	1.5	27.9
780	230.0	0.0	1.5	28.3
781	240.0	0.0	1.5	28.3
782	250.0	0.0	1.5	27.9
783	260.0	0.0	1.5	27.7
784	270.0	0.0	1.5	27.0

LAeq , dzień: wartość największa poza terenem zakładu występuje w punkcie (100,90,1.5)
i wynosi 60.0 dB(A)

Koniec obliczeń