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HAŁAS PRZEMYSŁOWY i DROGOWY
PROGRAM SON2 WERSJA 5.2

Właściciel licencji: Przedsiębiorstwo Projektowo Wykonawcze
"BIOPROJEKT" Grzegorz Jaśki
97-310 Moszczenica ul. Fabryczna 26
Licencja nr GJ/97310/OmSpm/15 z dnia 15.10.2015

DANE WEJSCIOWE

Rodzaj obliczeń: Poziom hałasu równoważnego

1. Nazwa projektu: Projekt nr 2 LAeq D, LAeq N
2. Temperatura powietrza [st C.]= 10
3. Wilgotność względna powietrza [%]= 70
4. Tło akustyczne dB(A):
   Pora dnia : 0.0
   Pora nocy : 0.0
5. Rodzaj gruntu : grunt twardy, wskaźnik gruntu G = 0

6. Punktowe źródła hałasu

Lp	Symbol	Współrzędne źródła				Rodzaj źródła	LAW	tD	tN	Do
		x	y	z	ht					
		m	m	m	m		dB(A)	h	h	dB
1	H2	135.5	-141.9	1.0	0.0	wszechkier.	75.0	8.000	1.000	
2	H3a	85.7	-140.0	7.0	0.0	wszechkier.	79.0	8.000	1.000	
3	H3b	101.0	-104.5	7.0	0.0	wszechkier.	79.0	8.000	1.000	
4	H1	94.3	-149.1	1.0	0.0	wszechkier.	84.0	2.000		
5	HB	83.8	-142.4	3.0	0.0	wszechkier.	70.0	8.000	1.000	

7. Liniowe źródła hałasu

Lp	Symbol	LAW 8hD	LAW 1hN	D0	Początek			Koniec		h2t
			x1	y1	z1	h1t	x2	y2	z2	
			m	m	m	m	m	m	m	m
		dBA	dBA	dB						

1	S1			139.2	-154.3	0.5	0.0	95.9	
-136.2	0.0	0.0	66.4						
2				95.9	-136.2	0.5	0.0	91.2	
-143.4	0.0	0.0	59.1						
3				91.2	-143.4	0.5	0.0	92.4	
-148.7	0.0	0.0	61.9						
4				92.4	-148.7	0.5	0.0	92.3	
-147.9	0.0	0.0	69.2						
5				92.3	-147.9	0.5	0.0	91.1	
-143.3	0.0	0.0	56.5						
6				91.1	-143.3	0.5	0.0	96.0	
-136.2	0.0	0.0	56.4						
7				96.0	-136.2	0.5	0.0	139.3	
-154.4	0.0	0.0	66.4						
8	S2			140.5	-151.6	0.5	0.0	93.5	
-131.8	0.0	0.0	59.8						
9				93.5	-131.8	0.5	0.0	85.7	
-146.5	0.0	0.0	54.9						
10				85.7	-146.5	0.5	0.0	67.8	
-139.6	0.0	0.0	55.6						
11				67.8	-139.6	0.5	0.0	72.9	
-128.3	0.0	0.0	53.7						
12				72.9	-128.3	0.5	0.0	73.9	
-126.4	0.0	0.0	54.9						
13				73.9	-126.4	0.5	0.0	74.2	
-126.0	0.0	0.0	62.2						
14				74.2	-126.0	0.5	0.0	80.5	
-111.4	0.0	0.0	54.7						
15				80.5	-111.4	0.5	0.0	81.3	
-109.9	0.0	0.0	54.9						
16				81.3	-109.9	0.5	0.0	81.4	
-109.4	0.0	0.0	62.2						
17				81.4	-109.4	0.5	0.0	87.5	
-95.1	0.0	0.0	54.6						
18				87.5	-95.1	0.5	0.0	103.0	
-101.3	0.0	0.0	54.9						
19				103.0	-101.3	0.5	0.0	100.4	
-107.3	0.0	0.0	54.9						
20				100.4	-107.3	0.5	0.0	99.7	
-108.5	0.0	0.0	54.9						
21				99.7	-108.5	0.5	0.0	99.4	
-108.7	0.0	0.0	62.2						
22				99.4	-108.7	0.5	0.0	93.4	
-122.8	0.0	0.0	54.6						
23				93.4	-122.8	0.5	0.0	93.2	
-123.7	0.0	0.0	54.9						
24				93.2	-123.7	0.5	0.0	93.0	
-124.0	0.0	0.0	62.2						
25				93.0	-124.0	0.5	0.0	93.6	
-131.8	0.0	0.0	51.6						
26				93.6	-131.8	0.5	0.0	140.7	
-151.6	0.0	0.0	59.8						
27	S3			129.3	-146.7	0.5	0.0	138.9	
-108.9	0.0	0.0	53.9						

z - wysokość źródła nad gruntem ; ht - wysokość gruntu względem płaszczyzny odniesienia
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

LAW 8hD - równoważny poziom mocy akustycznej źródła w przedziale 8 kolejnych najmniej korzystnych godzin dnia
LAW 1hN - równowazny poziom mocy akustycznej źródła w przedziale 1 najmniej korzystnej godziny nocy

8. Źródła hałasu typu budynek

Lp	Symbol	ho	h1	ht	Współrzędne wierzchołków źródła [m] A(x1, y1)	B(x2, y2)	C(x3, y3)	D(x4, y4)	m	m	m
1	H4				123.3 -133.7	123.2 -121.0	131.9 -124.8	127.1 -135.1	0.0	3.0	0.0
2	H5				85.6 -140.0	71.6 -134.0	87.5 -97.2	101.4 -103.1	0.0	7.0	0.0

8.1 Opis ścian budynków

Lp	Budynek	Wielkość	Jedn.	Ściana AB	Ściana BC	Ściana CD	Ściana DA	dach
1	H4	Wsp. odbicia	-	1.0	1.0	0.8	0.8	0.8
		LAwew dzień	dB(A)	85.0	85.0	85.0	85.0	85.0
		Izolacyjność	dB(A)	43.0	40.0	40.3	40.0	30.0
2	H5	Wsp. odbicia	-	1.0	0.8	1.0	0.8	1.0
		LAwew dzień	dB(A)	85.0	85.0	85.0	85.0	85.0
		Izolacyjność	dB(A)	25.6	25.3	25.0	25.3	25.0

ho,h1 - odpowiednio wysokość podstawy i wysokość źródła nad gruntem
ht - wysokość gruntu względem płaszczyzny odniesienia
LAwew dzień - poziom dźwięku A wewnątrz budynku w przedziale 8 kolejnych najmniej korzystnych godzin dnia

9. Ekrany - budynki

Lp	Symbol	Wia	ho	h1	ht	Współczynniki	Współrzędne x,y wierzchołków ekranu[m] x1 y1	x2 y2	x3 y3	x4 y4	m	m	m
		(W)				nr 1 - 4							
1	R1					1.0 1.0 1.0 1.0	110.6 -135.4	110.4 -123.2	123.2 -122.1	123.3 -136.7	0.0	10.0	0.0
2	R2					1.0 1.0 1.0 1.0	107.6 -115.7	116.8 -97.3	136.4 -105.3	130.4 -123.5	0.0	10.0	0.0
3	ZbUa					1.0 1.0 1.0 1.0	102.8 -149.3	106.0 -143.4	127.8 -153.1	125.2 -159.8	0.0	1.0	0.0
4	ZbUb					1.0 1.0 1.0 1.0	99.4 -155.9	102.2 -150.5	124.9 -161.2	122.2 -167.0	0.0	1.0	0.0
5	ZbS						135.8 -103.2	134.5 -94.5	145.2 -94.1				

145.9 -103.0 0.0 1.0 0.0 1.0 1.0 1.0 1.0

10. Współrzędne wierzchołków wieloboku terenu zakładu

Lp	Współrzędne wierzchołków	
	x	y
	m	m
1	57.6	-151.2
2	74.1	-111.3
3	84.5	-86.3
4	94.2	-87.0
5	114.4	-88.5
6	136.3	-89.2
7	160.6	-96.9
8	166.9	-100.7
9	156.2	-121.3
10	133.4	-165.4
11	132.6	-165.3
12	127.6	-176.5
13	64.8	-153.8

Koniec danych

LAeq , pory dnia i nocy

Nr punktu	Współrzędne punktów			Wysokość terenu	Poziom dźwięku w porze	
	x	y	z		dnia	nocy
	m	m	m	m	dB(A)	dB(A)
1	0.0	0.0	4.0	0.0	34.6	28.0
2	10.0	0.0	4.0	0.0	35.0	28.4
3	20.0	0.0	4.0	0.0	35.4	28.8
4	30.0	0.0	4.0	0.0	35.7	29.2
5	40.0	0.0	4.0	0.0	36.0	29.6
6	50.0	0.0	4.0	0.0	37.0	29.9
7	60.0	0.0	4.0	0.0	37.3	30.3
8	70.0	0.0	4.0	0.0	37.5	30.7
9	80.0	0.0	4.0	0.0	36.1	26.2
10	90.0	0.0	4.0	0.0	36.2	26.7
11	100.0	0.0	4.0	0.0	36.2	27.2
12	110.0	0.0	4.0	0.0	36.8	30.7
13	120.0	0.0	4.0	0.0	37.0	30.9
14	130.0	0.0	4.0	0.0	35.7	28.4
15	140.0	0.0	4.0	0.0	36.2	31.0
16	150.0	0.0	4.0	0.0	37.3	33.3
17	160.0	0.0	4.0	0.0	36.5	33.0
18	170.0	0.0	4.0	0.0	36.1	32.7
19	180.0	0.0	4.0	0.0	35.8	32.4
20	190.0	0.0	4.0	0.0	35.2	30.4
21	200.0	0.0	4.0	0.0	34.6	29.5
22	0.0	-10.0	4.0	0.0	35.1	28.4
23	10.0	-10.0	4.0	0.0	35.5	28.8
24	20.0	-10.0	4.0	0.0	35.9	29.2
25	30.0	-10.0	4.0	0.0	36.3	29.7
26	40.0	-10.0	4.0	0.0	36.7	30.1
27	50.0	-10.0	4.0	0.0	37.7	30.5
28	60.0	-10.0	4.0	0.0	38.0	30.9
29	70.0	-10.0	4.0	0.0	38.2	31.3
30	80.0	-10.0	4.0	0.0	38.4	31.7
31	90.0	-10.0	4.0	0.0	37.0	27.5
32	100.0	-10.0	4.0	0.0	37.0	28.0
33	110.0	-10.0	4.0	0.0	37.6	31.5
34	120.0	-10.0	4.0	0.0	37.7	31.7
35	130.0	-10.0	4.0	0.0	37.0	31.6

36	140.0	-10.0	4.0	0.0	36.9	31.9
37	150.0	-10.0	4.0	0.0	37.6	33.9
38	160.0	-10.0	4.0	0.0	37.0	33.6
39	170.0	-10.0	4.0	0.0	36.6	33.3
40	180.0	-10.0	4.0	0.0	36.0	31.4
41	190.0	-10.0	4.0	0.0	35.5	30.4
42	200.0	-10.0	4.0	0.0	34.6	29.7
43	0.0	-20.0	4.0	0.0	35.6	28.8
44	10.0	-20.0	4.0	0.0	36.1	29.2
45	20.0	-20.0	4.0	0.0	36.5	29.7
46	30.0	-20.0	4.0	0.0	37.0	30.2
47	40.0	-20.0	4.0	0.0	37.4	30.7
48	50.0	-20.0	4.0	0.0	37.7	31.1
49	60.0	-20.0	4.0	0.0	38.7	31.6
50	70.0	-20.0	4.0	0.0	39.0	32.1
51	80.0	-20.0	4.0	0.0	39.2	32.5
52	90.0	-20.0	4.0	0.0	37.9	28.3
53	100.0	-20.0	4.0	0.0	37.9	28.9
54	110.0	-20.0	4.0	0.0	38.4	32.3
55	120.0	-20.0	4.0	0.0	38.5	32.5
56	130.0	-20.0	4.0	0.0	37.8	32.6
57	140.0	-20.0	4.0	0.0	38.5	34.6
58	150.0	-20.0	4.0	0.0	38.0	34.6
59	160.0	-20.0	4.0	0.0	37.6	34.2
60	170.0	-20.0	4.0	0.0	37.5	33.9
61	180.0	-20.0	4.0	0.0	36.3	31.4
62	190.0	-20.0	4.0	0.0	35.5	30.6
63	200.0	-20.0	4.0	0.0	34.5	30.1
64	0.0	-30.0	4.0	0.0	36.1	29.1
65	10.0	-30.0	4.0	0.0	36.6	29.6
66	20.0	-30.0	4.0	0.0	37.1	30.2
67	30.0	-30.0	4.0	0.0	37.6	30.7
68	40.0	-30.0	4.0	0.0	38.1	31.2
69	50.0	-30.0	4.0	0.0	38.6	31.8
70	60.0	-30.0	4.0	0.0	38.9	32.3
71	70.0	-30.0	4.0	0.0	39.9	32.8
72	80.0	-30.0	4.0	0.0	40.2	33.3
73	90.0	-30.0	4.0	0.0	40.3	33.8
74	100.0	-30.0	4.0	0.0	38.9	29.9
75	110.0	-30.0	4.0	0.0	39.4	33.2
76	120.0	-30.0	4.0	0.0	38.8	33.4
77	130.0	-30.0	4.0	0.0	38.6	33.7
78	140.0	-30.0	4.0	0.0	39.5	35.7
79	150.0	-30.0	4.0	0.0	38.6	35.3
80	160.0	-30.0	4.0	0.0	38.5	34.9
81	170.0	-30.0	4.0	0.0	37.3	32.6
82	180.0	-30.0	4.0	0.0	36.4	31.7
83	190.0	-30.0	4.0	0.0	35.4	31.0
84	200.0	-30.0	4.0	0.0	34.8	30.5
85	0.0	-40.0	4.0	0.0	36.6	29.5
86	10.0	-40.0	4.0	0.0	37.1	30.1
87	20.0	-40.0	4.0	0.0	37.7	30.6
88	30.0	-40.0	4.0	0.0	38.3	31.2
89	40.0	-40.0	4.0	0.0	38.9	31.8
90	50.0	-40.0	4.0	0.0	39.4	32.4
91	60.0	-40.0	4.0	0.0	40.2	33.0
92	70.0	-40.0	4.0	0.0	40.6	33.6
93	80.0	-40.0	4.0	0.0	41.0	34.2
94	90.0	-40.0	4.0	0.0	41.1	34.8
95	100.0	-40.0	4.0	0.0	40.5	31.1
96	110.0	-40.0	4.0	0.0	40.4	34.3
97	120.0	-40.0	4.0	0.0	39.7	34.5
98	130.0	-40.0	4.0	0.0	40.3	36.5
99	140.0	-40.0	4.0	0.0	39.8	36.5
100	150.0	-40.0	4.0	0.0	39.3	36.0
101	160.0	-40.0	4.0	0.0	38.4	34.0
102	170.0	-40.0	4.0	0.0	37.4	32.9
103	180.0	-40.0	4.0	0.0	36.4	32.1

104	190.0	-40.0	4.0	0.0	35.7	31.5
105	200.0	-40.0	4.0	0.0	34.8	31.8
106	0.0	-50.0	4.0	0.0	37.1	30.2
107	10.0	-50.0	4.0	0.0	37.7	30.5
108	20.0	-50.0	4.0	0.0	38.4	31.1
109	30.0	-50.0	4.0	0.0	39.0	31.7
110	40.0	-50.0	4.0	0.0	39.7	32.4
111	50.0	-50.0	4.0	0.0	40.7	33.1
112	60.0	-50.0	4.0	0.0	41.3	33.8
113	70.0	-50.0	4.0	0.0	41.8	34.5
114	80.0	-50.0	4.0	0.0	42.2	35.2
115	90.0	-50.0	4.0	0.0	42.4	35.9
116	100.0	-50.0	4.0	0.0	41.7	32.4
117	110.0	-50.0	4.0	0.0	41.3	35.5
118	120.0	-50.0	4.0	0.0	41.5	37.3
119	130.0	-50.0	4.0	0.0	41.3	37.5
120	140.0	-50.0	4.0	0.0	40.6	37.4
121	150.0	-50.0	4.0	0.0	39.8	35.5
122	160.0	-50.0	4.0	0.0	38.6	34.2
123	170.0	-50.0	4.0	0.0	37.5	33.3
124	180.0	-50.0	4.0	0.0	36.8	32.6
125	190.0	-50.0	4.0	0.0	35.7	32.9
126	200.0	-50.0	4.0	0.0	35.4	33.1
127	0.0	-60.0	4.0	0.0	36.1	28.3
128	10.0	-60.0	4.0	0.0	38.3	31.1
129	20.0	-60.0	4.0	0.0	39.0	31.7
130	30.0	-60.0	4.0	0.0	39.8	32.2
131	40.0	-60.0	4.0	0.0	40.6	32.9
132	50.0	-60.0	4.0	0.0	41.4	33.7
133	60.0	-60.0	4.0	0.0	42.4	34.5
134	70.0	-60.0	4.0	0.0	43.1	35.4
135	80.0	-60.0	4.0	0.0	43.6	36.2
136	90.0	-60.0	4.0	0.0	43.9	37.1
137	100.0	-60.0	4.0	0.0	44.0	38.0
138	110.0	-60.0	4.0	0.0	42.6	36.9
139	120.0	-60.0	4.0	0.0	43.0	39.2
140	130.0	-60.0	4.0	0.0	42.3	38.7
141	140.0	-60.0	4.0	0.0	41.7	38.3
142	150.0	-60.0	4.0	0.0	40.2	35.8
143	160.0	-60.0	4.0	0.0	38.7	34.8
144	170.0	-60.0	4.0	0.0	37.3	34.0
145	180.0	-60.0	4.0	0.0	36.7	34.1
146	190.0	-60.0	4.0	0.0	35.5	34.2
147	200.0	-60.0	4.0	0.0	33.5	32.0
148	0.0	-70.0	4.0	0.0	36.5	27.9
149	10.0	-70.0	4.0	0.0	37.2	28.4
150	20.0	-70.0	4.0	0.0	38.1	29.4
151	30.0	-70.0	4.0	0.0	40.3	31.1
152	40.0	-70.0	4.0	0.0	41.4	33.4
153	50.0	-70.0	4.0	0.0	42.4	34.3
154	60.0	-70.0	4.0	0.0	43.4	35.3
155	70.0	-70.0	4.0	0.0	44.5	36.3
156	80.0	-70.0	4.0	0.0	45.3	37.4
157	90.0	-70.0	4.0	0.0	45.8	38.5
158	100.0	-70.0	4.0	0.0	45.2	39.7
159	110.0	-70.0	4.0	0.0	44.1	38.7
160	120.0	-70.0	4.0	0.0	44.3	40.8
161	130.0	-70.0	4.0	0.0	43.4	39.9
162	140.0	-70.0	4.0	0.0	41.9	37.8
163	150.0	-70.0	4.0	0.0	40.1	36.5
164	160.0	-70.0	4.0	0.0	38.5	35.5
165	170.0	-70.0	4.0	0.0	36.9	35.5
166	180.0	-70.0	4.0	0.0	34.3	32.5
167	190.0	-70.0	4.0	0.0	34.0	32.8
168	200.0	-70.0	4.0	0.0	33.1	32.0
169	0.0	-80.0	4.0	0.0	37.0	28.4
170	10.0	-80.0	4.0	0.0	37.7	28.7
171	20.0	-80.0	4.0	0.0	38.5	29.2

172	30.0	-80.0	4.0	0.0	39.5	29.8
173	40.0	-80.0	4.0	0.0	40.6	30.7
174	50.0	-80.0	4.0	0.0	43.3	32.7
175	60.0	-80.0	4.0	0.0	44.8	35.9
176	70.0	-80.0	4.0	0.0	46.3	37.1
177	80.0	-80.0	4.0	0.0	47.5	38.5
178	90.0	-80.0	4.0	0.0	48.3	40.0
179	100.0	-80.0	4.0	0.0	47.2	41.8
180	110.0	-80.0	4.0	0.0	47.2	43.4
181	120.0	-80.0	4.0	0.0	46.0	42.6
182	130.0	-80.0	4.0	0.0	43.9	39.9
183	140.0	-80.0	4.0	0.0	41.8	38.6
184	150.0	-80.0	4.0	0.0	39.7	37.3
185	160.0	-80.0	4.0	0.0	36.3	34.6
186	170.0	-80.0	4.0	0.0	34.9	33.4
187	180.0	-80.0	4.0	0.0	34.9	33.9
188	190.0	-80.0	4.0	0.0	34.1	33.1
189	200.0	-80.0	4.0	0.0	32.2	30.9
190	0.0	-90.0	4.0	0.0	37.9	29.7
191	10.0	-90.0	4.0	0.0	38.2	29.5
192	20.0	-90.0	4.0	0.0	39.1	29.8
193	30.0	-90.0	4.0	0.0	40.1	30.2
194	40.0	-90.0	4.0	0.0	41.3	30.8
195	50.0	-90.0	4.0	0.0	42.8	31.5
196	60.0	-90.0	4.0	0.0	44.4	32.2
197	70.0	-90.0	4.0	0.0	46.5	34.1
198	80.0	-90.0	4.0	0.0	50.7	39.3
199	90.0	-90.0	4.0	0.0	52.5	41.6
200	100.0	-90.0	4.0	0.0	50.2	44.7
201	110.0	-90.0	4.0	0.0	51.0	48.6
202	120.0	-90.0	4.0	0.0	47.4	44.5
203	130.0	-90.0	4.0	0.0	43.0	40.8
204	140.0	-90.0	4.0	0.0	38.6	34.6
205	150.0	-90.0	4.0	0.0	36.2	33.3
206	160.0	-90.0	4.0	0.0	36.1	34.7
207	170.0	-90.0	4.0	0.0	36.2	35.3
208	180.0	-90.0	4.0	0.0	34.2	33.0
209	190.0	-90.0	4.0	0.0	33.3	32.2
210	200.0	-90.0	4.0	0.0	32.5	31.4
211	0.0	-100.0	4.0	0.0	38.4	30.7
212	10.0	-100.0	4.0	0.0	39.2	31.0
213	20.0	-100.0	4.0	0.0	40.1	31.4
214	30.0	-100.0	4.0	0.0	40.7	31.0
215	40.0	-100.0	4.0	0.0	42.0	31.4
216	50.0	-100.0	4.0	0.0	43.6	31.9
217	60.0	-100.0	4.0	0.0	45.6	32.4
218	70.0	-100.0	4.0	0.0	48.2	32.7
219	80.0	-100.0	4.0	0.0	52.4	31.7
221	100.0	-100.0	4.0	0.0	55.1	49.0
222	110.0	-100.0	4.0	0.0	54.1	52.3
224	130.0	-100.0	4.0	0.0	29.6	26.2
225	140.0	-100.0	4.0	0.0	36.2	34.8
226	150.0	-100.0	4.0	0.0	37.9	36.7
227	160.0	-100.0	4.0	0.0	38.0	37.2
228	170.0	-100.0	4.0	0.0	35.9	34.8
229	180.0	-100.0	4.0	0.0	34.8	33.8
230	190.0	-100.0	4.0	0.0	34.0	32.9
231	200.0	-100.0	4.0	0.0	33.3	32.0
232	0.0	-110.0	4.0	0.0	39.5	33.1
233	10.0	-110.0	4.0	0.0	40.5	34.0
234	20.0	-110.0	4.0	0.0	40.6	32.8
235	30.0	-110.0	4.0	0.0	41.7	33.0
236	40.0	-110.0	4.0	0.0	42.6	32.6
237	50.0	-110.0	4.0	0.0	44.3	32.5
238	60.0	-110.0	4.0	0.0	46.5	32.7
239	70.0	-110.0	4.0	0.0	49.7	32.4
243	110.0	-110.0	4.0	0.0	54.8	53.3
246	140.0	-110.0	4.0	0.0	40.6	39.4

247	150.0	-110.0	4.0	0.0	39.5	38.4
248	160.0	-110.0	4.0	0.0	38.2	37.2
249	170.0	-110.0	4.0	0.0	36.9	36.0
250	180.0	-110.0	4.0	0.0	35.9	34.6
251	190.0	-110.0	4.0	0.0	35.8	33.5
252	200.0	-110.0	4.0	0.0	34.9	32.5
253	0.0	-120.0	4.0	0.0	40.0	33.5
254	10.0	-120.0	4.0	0.0	41.0	34.3
255	20.0	-120.0	4.0	0.0	41.7	35.4
256	30.0	-120.0	4.0	0.0	43.0	36.6
257	40.0	-120.0	4.0	0.0	43.6	35.5
258	50.0	-120.0	4.0	0.0	45.3	35.5
259	60.0	-120.0	4.0	0.0	47.2	33.8
260	70.0	-120.0	4.0	0.0	51.2	32.4
263	100.0	-120.0	4.0	0.0	54.9	50.0
264	110.0	-120.0	4.0	0.0	52.2	48.7
265	120.0	-120.0	4.0	0.0	44.1	32.7
267	140.0	-120.0	4.0	0.0	43.3	42.1
268	150.0	-120.0	4.0	0.0	41.6	40.6
269	160.0	-120.0	4.0	0.0	39.9	38.6
270	170.0	-120.0	4.0	0.0	38.9	36.9
271	180.0	-120.0	4.0	0.0	37.7	35.5
272	190.0	-120.0	4.0	0.0	35.7	32.5
273	200.0	-120.0	4.0	0.0	34.8	31.5
274	0.0	-130.0	4.0	0.0	40.1	33.7
275	10.0	-130.0	4.0	0.0	41.1	34.7
276	20.0	-130.0	4.0	0.0	42.2	35.8
277	30.0	-130.0	4.0	0.0	43.5	37.2
278	40.0	-130.0	4.0	0.0	45.0	38.7
279	50.0	-130.0	4.0	0.0	46.9	40.6
280	60.0	-130.0	4.0	0.0	49.0	42.8
281	70.0	-130.0	4.0	0.0	52.9	33.6
284	100.0	-130.0	4.0	0.0	54.5	50.5
285	110.0	-130.0	4.0	0.0	53.2	49.8
288	140.0	-130.0	4.0	0.0	47.3	46.0
289	150.0	-130.0	4.0	0.0	43.6	41.7
290	160.0	-130.0	4.0	0.0	41.1	39.0
291	170.0	-130.0	4.0	0.0	39.9	37.0
292	180.0	-130.0	4.0	0.0	38.6	35.4
293	190.0	-130.0	4.0	0.0	38.4	35.9
294	200.0	-130.0	4.0	0.0	37.4	34.9
295	0.0	-140.0	4.0	0.0	39.7	33.9
296	10.0	-140.0	4.0	0.0	40.7	34.9
297	20.0	-140.0	4.0	0.0	41.9	36.1
298	30.0	-140.0	4.0	0.0	43.1	37.5
299	40.0	-140.0	4.0	0.0	44.6	39.1
300	50.0	-140.0	4.0	0.0	46.5	41.1
301	60.0	-140.0	4.0	0.0	48.9	43.9
302	70.0	-140.0	4.0	0.0	52.7	48.0
303	80.0	-140.0	4.0	0.0	58.8	56.1
304	90.0	-140.0	4.0	0.0	61.2	59.8
305	100.0	-140.0	4.0	0.0	55.4	51.5
306	110.0	-140.0	4.0	0.0	52.5	48.5
307	120.0	-140.0	4.0	0.0	50.4	46.2
308	130.0	-140.0	4.0	0.0	52.4	51.2
309	140.0	-140.0	4.0	0.0	52.6	52.2
310	150.0	-140.0	4.0	0.0	46.3	45.0
311	160.0	-140.0	4.0	0.0	43.6	41.8
312	170.0	-140.0	4.0	0.0	41.3	38.9
313	180.0	-140.0	4.0	0.0	39.7	37.3
314	190.0	-140.0	4.0	0.0	38.7	36.0
315	200.0	-140.0	4.0	0.0	37.8	34.9
316	0.0	-150.0	4.0	0.0	39.5	33.9
317	10.0	-150.0	4.0	0.0	40.4	34.9
318	20.0	-150.0	4.0	0.0	41.6	36.0
319	30.0	-150.0	4.0	0.0	42.8	37.4
320	40.0	-150.0	4.0	0.0	44.2	38.9
321	50.0	-150.0	4.0	0.0	45.8	40.9

322	60.0	-150.0	4.0	0.0	47.9	43.5
323	70.0	-150.0	4.0	0.0	50.6	46.7
324	80.0	-150.0	4.0	0.0	54.0	50.8
325	90.0	-150.0	4.0	0.0	58.1	50.9
326	100.0	-150.0	4.0	0.0	55.9	47.8
327	110.0	-150.0	4.0	0.0	51.4	47.3
328	120.0	-150.0	4.0	0.0	49.5	45.6
329	130.0	-150.0	4.0	0.0	50.4	47.8
330	140.0	-150.0	4.0	0.0	49.7	47.9
331	150.0	-150.0	4.0	0.0	45.9	43.7
332	160.0	-150.0	4.0	0.0	42.9	40.8
333	170.0	-150.0	4.0	0.0	40.7	38.8
334	180.0	-150.0	4.0	0.0	39.3	37.4
335	190.0	-150.0	4.0	0.0	38.2	36.1
336	200.0	-150.0	4.0	0.0	37.2	35.1
337	0.0	-160.0	4.0	0.0	39.2	33.8
338	10.0	-160.0	4.0	0.0	40.3	35.1
339	20.0	-160.0	4.0	0.0	41.3	36.4
340	30.0	-160.0	4.0	0.0	42.4	37.3
341	40.0	-160.0	4.0	0.0	43.6	38.7
342	50.0	-160.0	4.0	0.0	45.0	40.2
343	60.0	-160.0	4.0	0.0	46.6	42.1
344	70.0	-160.0	4.0	0.0	48.4	44.2
345	80.0	-160.0	4.0	0.0	50.7	46.0
346	90.0	-160.0	4.0	0.0	52.0	46.0
347	100.0	-160.0	4.0	0.0	51.5	45.3
348	110.0	-160.0	4.0	0.0	49.3	44.1
349	120.0	-160.0	4.0	0.0	47.7	42.8
350	130.0	-160.0	4.0	0.0	46.7	43.0
351	140.0	-160.0	4.0	0.0	45.9	43.4
352	150.0	-160.0	4.0	0.0	44.4	41.7
353	160.0	-160.0	4.0	0.0	42.5	39.9
354	170.0	-160.0	4.0	0.0	40.9	38.3
355	180.0	-160.0	4.0	0.0	39.2	36.9
356	190.0	-160.0	4.0	0.0	38.0	35.8
357	200.0	-160.0	4.0	0.0	37.0	34.8
358	0.0	-170.0	4.0	0.0	39.0	33.9
359	10.0	-170.0	4.0	0.0	39.9	34.7
360	20.0	-170.0	4.0	0.0	40.7	35.7
361	30.0	-170.0	4.0	0.0	41.8	36.8
362	40.0	-170.0	4.0	0.0	42.8	37.9
363	50.0	-170.0	4.0	0.0	44.0	39.2
364	60.0	-170.0	4.0	0.0	45.0	40.3
365	70.0	-170.0	4.0	0.0	46.3	41.8
366	80.0	-170.0	4.0	0.0	47.9	43.0
367	90.0	-170.0	4.0	0.0	48.6	43.5
368	100.0	-170.0	4.0	0.0	48.2	43.1
369	110.0	-170.0	4.0	0.0	47.3	42.4
370	120.0	-170.0	4.0	0.0	46.2	41.6
371	130.0	-170.0	4.0	0.0	44.9	40.6
372	140.0	-170.0	4.0	0.0	43.7	40.0
373	150.0	-170.0	4.0	0.0	42.6	38.8
374	160.0	-170.0	4.0	0.0	41.8	38.8
375	170.0	-170.0	4.0	0.0	40.4	37.6
376	180.0	-170.0	4.0	0.0	39.3	36.4
377	190.0	-170.0	4.0	0.0	38.4	35.4
378	200.0	-170.0	4.0	0.0	37.0	34.5
379	0.0	-180.0	4.0	0.0	38.7	33.5
380	10.0	-180.0	4.0	0.0	39.4	34.3
381	20.0	-180.0	4.0	0.0	40.2	35.2
382	30.0	-180.0	4.0	0.0	41.0	36.1
383	40.0	-180.0	4.0	0.0	41.9	36.8
384	50.0	-180.0	4.0	0.0	42.8	37.8
385	60.0	-180.0	4.0	0.0	43.7	38.9
386	70.0	-180.0	4.0	0.0	45.2	40.4
387	80.0	-180.0	4.0	0.0	45.7	40.7
388	90.0	-180.0	4.0	0.0	46.3	41.5
389	100.0	-180.0	4.0	0.0	45.8	40.7

390	110.0	-180.0	4.0	0.0	45.5	40.9
391	120.0	-180.0	4.0	0.0	44.6	40.0
392	130.0	-180.0	4.0	0.0	43.8	39.0
393	140.0	-180.0	4.0	0.0	42.5	38.3
394	150.0	-180.0	4.0	0.0	42.0	37.6
395	160.0	-180.0	4.0	0.0	41.1	36.6
396	170.0	-180.0	4.0	0.0	39.9	35.4
397	180.0	-180.0	4.0	0.0	39.0	35.9
398	190.0	-180.0	4.0	0.0	38.0	35.0
399	200.0	-180.0	4.0	0.0	37.2	34.2
400	0.0	-190.0	4.0	0.0	38.2	33.2
401	10.0	-190.0	4.0	0.0	38.9	33.9
402	20.0	-190.0	4.0	0.0	39.5	34.2
403	30.0	-190.0	4.0	0.0	40.2	35.0
404	40.0	-190.0	4.0	0.0	41.0	35.9
405	50.0	-190.0	4.0	0.0	41.6	36.8
406	60.0	-190.0	4.0	0.0	42.5	37.7
407	70.0	-190.0	4.0	0.0	43.7	38.9
408	80.0	-190.0	4.0	0.0	44.3	39.7
409	90.0	-190.0	4.0	0.0	44.5	39.9
410	100.0	-190.0	4.0	0.0	44.1	39.1
411	110.0	-190.0	4.0	0.0	43.9	39.5
412	120.0	-190.0	4.0	0.0	43.2	38.6
413	130.0	-190.0	4.0	0.0	42.5	37.5
414	140.0	-190.0	4.0	0.0	41.7	37.0
415	150.0	-190.0	4.0	0.0	41.1	36.4
416	160.0	-190.0	4.0	0.0	40.3	35.7
417	170.0	-190.0	4.0	0.0	39.9	34.9
418	180.0	-190.0	4.0	0.0	38.5	33.7
419	190.0	-190.0	4.0	0.0	37.2	32.9
420	200.0	-190.0	4.0	0.0	36.3	32.1
421	0.0	-200.0	4.0	0.0	37.6	32.2
422	10.0	-200.0	4.0	0.0	38.3	32.9
423	20.0	-200.0	4.0	0.0	38.9	33.6
424	30.0	-200.0	4.0	0.0	39.5	34.3
425	40.0	-200.0	4.0	0.0	40.2	35.1
426	50.0	-200.0	4.0	0.0	40.7	35.8
427	60.0	-200.0	4.0	0.0	41.9	37.1
428	70.0	-200.0	4.0	0.0	42.3	37.6
429	80.0	-200.0	4.0	0.0	43.0	38.4
430	90.0	-200.0	4.0	0.0	43.1	38.6
431	100.0	-200.0	4.0	0.0	42.6	37.8
432	110.0	-200.0	4.0	0.0	42.6	38.3
433	120.0	-200.0	4.0	0.0	42.0	37.4
434	130.0	-200.0	4.0	0.0	41.4	36.4
435	140.0	-200.0	4.0	0.0	40.7	35.7
436	150.0	-200.0	4.0	0.0	40.1	35.4
437	160.0	-200.0	4.0	0.0	39.5	34.8
438	170.0	-200.0	4.0	0.0	39.0	34.1
439	180.0	-200.0	4.0	0.0	38.6	33.4
440	190.0	-200.0	4.0	0.0	37.0	32.8
441	200.0	-200.0	4.0	0.0	36.1	31.6

LAeq , dzień: wartość największa poza terenem zakładu występuje w punkcie (70,-120,4.0)
i wynosi 51.2 dB(A)
LAeq , noc: wartość największa poza terenem zakładu występuje w punkcie (80,-160,4.0)
i wynosi 46.0 dB(A)

Tłumienie przez grunt wg wzoru 9 PN-ISO 9613.

Koniec obliczeń