

1. Pora dnia – wariant 1

Program LEQ Professional v. 6-2019 dla Windows

Dane do obliczeń :

Współczynnik gruntu (całego obszaru analizy)-global G = 0.000

Temperatura otoczenia 10[°C]

Źródła punktowe

Nr	X[m]	Y[m]	z[m]	Pma	Symbol
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1	451.7	224.0	9.0	89.1	Biuro
2	529.5	265.6	6.0	76.2	Portier
3	373.2	105.5	16.0	88.0	B+S_1
4	279.1	182.4	16.0	88.0	B+S_2
5	267.4	190.6	16.0	88.0	B+S_3
6	155.2	281.7	16.0	88.0	B+S_4
7	295.0	330.3	16.0	88.0	B+S_5
8	347.8	289.4	16.0	88.0	B+S_6
9	462.2	203.7	3.0	60.0	12.1
10	458.8	199.4	3.0	60.0	12.1
11	429.1	160.8	3.0	64.0	7
12	425.5	155.9	3.0	76.0	7
13	421.2	150.7	3.0	77.0	7
14	329.0	225.4	16.0	87.0	15
15	337.3	218.2	16.0	87.0	15
16	346.3	211.7	16.0	87.0	15

17 355.7 203.8 16.0 87.0 15
18 364.0 196.9 16.0 87.0 15
19 373.0 190.8 16.0 87.0 15
20 381.6 183.2 16.0 87.0 15
21 390.2 176.4 16.0 87.0 15
22 398.9 169.6 16.0 87.0 15
23 407.2 162.7 16.0 87.0 15
24 379.8 208.1 16.0 65.0 12.2
25 383.0 212.8 16.0 65.0 12.2
26 349.2 254.9 16.0 80.0 4
27 397.4 216.7 16.0 80.0 4
28 346.3 249.1 16.0 63.0 2
29 393.8 211.7 16.0 63.0 2
30 351.7 245.9 16.0 86.0 2.1
31 398.9 207.4 16.0 86.0 2.1
32 350.6 193.0 16.0 77.0 13
33 395.3 157.3 16.0 77.0 13
34 214.9 313.6 16.0 85.0 14
35 199.1 294.8 16.0 85.0 14
36 240.5 292.3 16.0 85.0 14
37 225.4 274.3 16.0 85.0 14
38 267.8 271.4 16.0 85.0 14
39 252.7 252.4 16.0 85.0 14
40 294.5 250.6 16.0 85.0 14
41 279.4 231.1 16.0 85.0 14
42 177.1 321.8 3.0 75.0 7
43 173.5 317.5 3.0 75.0 7
44 168.8 311.4 3.0 75.0 7
45 172.7 311.7 16.0 65.0 30
46 175.4 309.4 16.0 65.0 30
47 172.4 308.6 16.0 65.0 30

48 175.0 314.3 16.0 70.0 28
49 178.3 314.1 16.0 70.0 28
50 182.3 317.7 16.0 76.0 29
51 181.1 320.3 16.0 75.0 27
52 177.9 318.3 16.0 75.0 27.1
53 529.8 244.2 0.5 69.6 R-1
54 523.0 249.5 0.5 69.6 R-1
55 511.5 252.6 0.5 72.6 R-2
56 494.4 253.4 0.5 72.6 R-2
57 477.4 254.2 0.5 72.6 R-2
58 460.4 255.0 0.5 72.6 R-2
59 444.5 260.5 0.5 70.7 R-3
60 431.2 270.9 0.5 70.7 R-3
61 417.8 281.3 0.5 70.7 R-3
62 404.5 291.6 0.5 70.7 R-3
63 391.2 302.0 0.5 70.7 R-3
64 377.8 312.4 0.5 70.7 R-3
65 364.5 322.8 0.5 70.7 R-3
66 351.1 333.1 0.5 70.7 R-3
67 337.8 343.5 0.5 70.7 R-3
68 324.4 353.9 0.5 70.7 R-3
69 309.2 357.9 0.5 72.3 R-4
70 293.3 356.1 0.5 72.3 R-4
71 277.4 354.4 0.5 72.3 R-4
72 261.5 352.7 0.5 72.3 R-4
73 245.6 350.9 0.5 72.3 R-4
74 229.6 349.2 0.5 72.3 R-4
75 213.7 347.5 0.5 72.3 R-4
76 197.8 345.8 0.5 72.3 R-4
77 181.9 344.0 0.5 72.3 R-4
78 166.0 342.3 0.5 72.3 R-4

79	154.7	336.9	0.5	71.0	R-5
80	147.2	327.8	0.5	71.0	R-5
81	139.7	318.7	0.5	71.0	R-5
82	132.2	309.6	0.5	71.0	R-5
83	124.7	300.5	0.5	71.0	R-5
84	121.6	290.0	0.5	70.6	R-6
85	122.4	279.4	0.5	70.6	R-6
86	123.1	268.8	0.5	70.6	R-6
87	123.8	258.1	0.5	70.6	R-6
88	128.2	249.3	0.5	70.4	R-7
89	136.2	242.9	0.5	70.4	R-7
90	144.3	236.5	0.5	70.4	R-7
91	152.3	230.1	0.5	70.4	R-7
92	160.4	223.7	0.5	70.4	R-7
93	168.4	217.3	0.5	70.4	R-7
94	176.5	210.9	0.5	70.4	R-7
95	184.5	204.5	0.5	70.4	R-7
96	192.6	198.1	0.5	70.4	R-7
97	200.6	191.7	0.5	70.4	R-7
98	208.7	185.3	0.5	70.4	R-7
99	216.7	178.9	0.5	70.4	R-7
100	224.8	172.5	0.5	70.4	R-7
101	232.8	166.1	0.5	70.4	R-7
102	240.8	159.7	0.5	70.4	R-7
103	248.9	153.3	0.5	70.4	R-7
104	256.9	146.9	0.5	70.4	R-7
105	265.0	140.5	0.5	70.4	R-7
106	273.0	134.1	0.5	70.4	R-7
107	281.1	127.7	0.5	70.4	R-7
108	289.1	121.3	0.5	70.4	R-7
109	297.2	114.9	0.5	70.4	R-7

110	305.2	108.5	0.5	70.4	R-7
111	313.3	102.1	0.5	70.4	R-7
112	321.3	95.7	0.5	70.4	R-7
113	329.4	89.3	0.5	70.4	R-7
114	337.4	82.9	0.5	70.4	R-7
115	347.5	80.6	0.5	71.3	R-8
116	360.2	81.8	0.5	71.3	R-8
117	372.9	82.9	0.5	71.3	R-8
118	382.7	87.9	0.5	70.4	R-9
119	389.1	96.1	0.5	70.4	R-9
120	395.5	104.3	0.5	70.4	R-9
121	401.8	112.5	0.5	70.4	R-9
122	408.2	120.7	0.5	70.4	R-9
123	414.6	128.9	0.5	70.4	R-9
124	421.0	137.1	0.5	70.4	R-9
125	427.4	145.3	0.5	70.4	R-9
126	433.8	153.5	0.5	70.4	R-9
127	440.1	161.7	0.5	70.4	R-9
128	446.5	169.9	0.5	70.4	R-9
129	452.9	178.1	0.5	70.4	R-9
130	459.3	186.3	0.5	70.4	R-9
131	465.7	194.5	0.5	70.4	R-9
132	472.0	202.7	0.5	70.4	R-9
133	478.4	210.9	0.5	70.4	R-9
134	480.8	220.5	0.5	70.2	R-10
135	478.6	230.2	0.5	70.2	R-10
136	476.3	239.9	0.5	70.2	R-10
137	474.1	249.6	0.5	70.2	R-10
138	433.3	268.8	0.5	64.8	S+H1
139	342.1	339.5	0.5	74.9	S+H2
140	236.8	349.4	0.5	74.4	S+H3

141	137.3	315.5	0.5	73.4	S+H4
142	175.0	211.8	0.5	73.4	S+H5
143	301.4	112.6	0.5	72.7	S+H6
144	414.4	127.7	0.5	72.7	S+H7
145	454.4	178.9	0.5	72.7	S+H8
146	337.3	241.6	16.0	81.0	Mal1
147	358.2	268.6	16.0	81.0	Mal2
148	424.5	154.7	3.0	76.0	7
149	456.2	196.0	3.0	60.0	12.1
150	413.8	148.0	16.0	65.0	12.3
151	411.6	145.2	16.0	65.0	12.3
152	410.2	143.0	16.0	65.0	12.3
153	416.9	144.8	3.0	60.0	12.1
154	414.9	142.2	3.0	60.0	12.1
155	170.8	195.1	5.5	70.0	P2
156	168.6	192.5	5.5	70.0	P3
157	437.0	145.2	1.0	63.0	31
158	140.1	225.1	1.0	63.0	31

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Źródła typu hala produkcyjna :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	h0[m]	h[m]
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1	357.0	290.8	311.1	233.7	418.4	146.7	463.2	205.4	0.0	15.0
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2	171.7	199.3	164.4	190.2	171.1	185.2	178.1	194.3	0.0	4.5
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POZIOMY HAŁASU i IZOLACYJNOŚĆ PRZEGRÓD

Nr źródła	A	63	125	250	500	1000	2000	4000	8000	wsp.odb.
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1	sc.1	L	wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
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R sc 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
sc.2 L wew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R sc 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
sc.3 L wew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R sc 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
sc.4 L wew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R sc 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
dach L wew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R d 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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Nr źródła A 63 125 250 500 1000 2000 4000 8000 wsp.odb.

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2 sc.1 L wew 105.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R sc 46.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
sc.2 L wew 105.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R sc 46.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
sc.3 L wew 105.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R sc 46.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
sc.4 L wew 105.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R sc 46.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
dach L wew 105.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000
R d 28.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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Ekrany akustyczne :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr X1[m] Y1[m] X2[m] Y2[m] X3[m] Y3[m] X4[m] Y4[m] h0[m] h[m]

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1 453.5 229.9 445.5 220.6 463.3 205.3 471.3 214.6 0.0 8.0
2 530.3 271.8 523.9 264.2 537.0 253.0 543.5 260.6 0.0 5.0
3 311.1 233.4 265.4 176.8 373.0 90.0 418.6 146.6 0.0 15.0

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4	356.5	290.6	294.6	340.2	203.3	226.2	265.2	176.7	0.0	15.0
5	287.2	331.1	203.0	226.3	193.3	234.2	277.4	339.0	0.0	15.0
6	269.8	329.5	193.2	234.2	184.4	241.2	261.0	336.6	0.0	15.0
7	253.5	327.2	184.4	241.4	175.8	248.3	244.9	334.0	0.0	15.0
8	237.1	324.1	175.7	248.3	166.6	255.6	228.0	331.5	0.0	15.0
9	220.8	321.8	166.7	255.4	157.7	262.8	211.8	329.2	0.0	15.0
10	203.8	319.5	157.6	262.8	148.4	269.9	194.8	326.8	0.0	15.0
11	186.6	316.6	148.4	269.9	140.0	276.4	178.4	323.3	0.0	15.0
12	109.5	273.9	110.0	274.3	113.7	266.6	113.0	266.2	0.0	4.0
13	113.0	266.2	117.8	250.6	118.6	250.8	113.8	266.4	0.0	4.0
14	117.9	250.5	118.4	234.6	119.0	234.5	118.7	250.7	0.0	4.0
15	116.8	190.7	117.8	190.7	117.8	186.2	116.8	186.2	0.0	4.0
16	116.9	185.4	144.8	175.3	145.0	175.8	117.1	186.0	0.0	4.0
17	328.2	64.4	371.2	61.0	371.3	61.7	328.3	65.0	0.0	4.0
18	105.0	348.1	92.7	328.7	102.5	322.5	114.8	341.8	0.0	3.0
19	93.2	310.3	96.6	298.0	107.7	301.0	104.3	313.4	0.0	3.0
20	96.6	298.0	103.7	285.0	110.9	288.6	107.7	301.0	0.0	3.0
21	103.7	285.0	109.6	273.9	116.4	278.6	111.0	288.6	0.0	3.0
22	118.5	234.5	117.7	204.3	130.1	204.4	130.6	233.8	0.0	3.0
23	144.8	175.4	157.1	170.6	159.6	177.1	147.3	181.8	0.0	2.0
24	159.6	177.1	157.1	170.6	169.9	166.1	175.7	180.2	0.0	3.0
25	175.7	180.2	169.9	166.0	202.8	153.5	208.2	167.7	0.0	4.0
26	208.3	167.7	202.8	153.4	207.4	151.8	212.1	164.1	0.0	3.8
27	212.1	164.1	207.3	151.8	215.7	148.8	220.1	160.5	0.0	3.5
28	220.1	160.5	215.7	148.7	233.2	142.2	235.6	148.0	0.0	3.0
29	235.6	147.9	233.2	142.2	245.0	136.6	244.5	142.0	0.0	2.5
30	239.6	139.1	236.2	135.5	241.0	131.2	244.9	136.6	0.0	2.5
31	236.3	135.5	232.0	130.2	241.8	121.8	241.1	131.2	0.0	3.0
32	231.9	130.2	224.6	122.6	235.2	114.8	241.7	121.8	0.0	3.5
33	224.6	122.6	222.6	119.5	234.9	110.2	235.2	114.8	0.0	3.8
34	222.6	119.4	212.2	101.8	227.0	95.8	234.8	110.2	0.0	4.0

35	212.2	101.6	206.5	71.8	228.4	72.8	227.0	95.8	0.0	4.0
36	227.5	89.8	269.6	84.3	269.5	69.4	228.5	72.9	0.0	4.0
37	269.6	84.3	269.5	69.3	282.1	67.9	282.4	75.5	0.0	3.0
38	282.5	75.5	282.1	67.9	292.7	67.4	293.1	74.6	0.0	2.0
39	293.3	74.6	298.2	79.5	297.7	67.1	292.7	67.4	0.0	2.8
40	328.2	64.5	297.7	67.2	298.2	79.3	329.2	76.2	0.0	3.5
41	171.7	199.3	164.6	190.2	171.1	185.2	178.1	194.3	0.0	4.5
42	140.2	276.4	149.2	287.8	149.7	287.5	140.5	276.3	15.0	17.0
43	140.4	276.6	140.1	276.2	150.9	267.9	151.4	268.4	15.0	17.0
44	251.8	188.8	251.2	187.6	278.8	166.0	279.4	166.8	15.0	17.0

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WSPÓŁCZYNNIKI ODBICIA DLA ŚCIAN

Nr	ściana 1	ściana 2	ściana 3	ściana 4	dach
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1	1.0000	1.0000	1.0000	1.0000	1.0000
2	1.0000	1.0000	1.0000	1.0000	1.0000
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000
8	1.0000	1.0000	1.0000	1.0000	1.0000
9	1.0000	1.0000	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000	1.0000	1.0000
11	1.0000	1.0000	1.0000	1.0000	1.0000
12	1.0000	1.0000	1.0000	1.0000	1.0000
13	1.0000	1.0000	1.0000	1.0000	1.0000
14	1.0000	1.0000	1.0000	1.0000	1.0000
15	1.0000	1.0000	1.0000	1.0000	1.0000
16	1.0000	1.0000	1.0000	1.0000	1.0000

17	1.0000	1.0000	1.0000	1.0000	1.0000
18	1.0000	1.0000	1.0000	1.0000	1.0000
19	1.0000	1.0000	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000	1.0000	1.0000
21	1.0000	1.0000	1.0000	1.0000	1.0000
22	1.0000	1.0000	1.0000	1.0000	1.0000
23	1.0000	1.0000	1.0000	1.0000	1.0000
24	1.0000	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000	1.0000
26	1.0000	1.0000	1.0000	1.0000	1.0000
27	1.0000	1.0000	1.0000	1.0000	1.0000
28	1.0000	1.0000	1.0000	1.0000	1.0000
29	1.0000	1.0000	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000	1.0000	1.0000
31	1.0000	1.0000	1.0000	1.0000	1.0000
32	1.0000	1.0000	1.0000	1.0000	1.0000
33	1.0000	1.0000	1.0000	1.0000	1.0000
34	1.0000	1.0000	1.0000	1.0000	1.0000
35	1.0000	1.0000	1.0000	1.0000	1.0000
36	1.0000	1.0000	1.0000	1.0000	1.0000
37	1.0000	1.0000	1.0000	1.0000	1.0000
38	1.0000	1.0000	1.0000	1.0000	1.0000
39	1.0000	1.0000	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000	1.0000
41	1.0000	1.0000	1.0000	1.0000	1.0000
42	1.0000	1.0000	1.0000	1.0000	1.0000
43	1.0000	1.0000	1.0000	1.0000	1.0000
44	1.0000	1.0000	1.0000	1.0000	1.0000

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Punkty obserwacji

Nr Symbol X[m] Y[m] z[m]

1	P1	95.5	268.1	1.5
2	P2	95.5	268.1	4.5
3	P3	106.1	268.7	4.0
4	P4	107.0	236.4	1.5
5	P5	104.3	238.0	4.5
6	P6	97.1	220.7	1.5
7	P7	97.1	220.7	4.5
8	P8	113.1	225.8	4.0
9	P9	98.4	165.7	1.5
10	P10	98.4	165.7	4.5
11	P11	109.3	164.7	4.0
12	P12	132.0	173.4	1.5
13	P13	132.0	173.4	4.5
14	P14	133.9	177.8	4.0
15	P15	98.4	133.0	1.5
16	P16	98.4	133.0	4.5
17	P17	106.7	140.4	4.0
18	P18	124.6	114.5	1.5
19	P19	124.6	114.5	4.5
20	P20	135.8	150.0	4.0
21	P21	155.4	70.3	1.5
22	P22	155.4	70.3	4.5
23	P23	159.5	78.3	4.0
24	P24	215.5	71.0	1.5
25	P25	215.5	71.0	4.5
26	P26	215.5	71.0	4.0
27	P27	203.0	31.3	1.5
28	P28	203.0	31.3	4.5
29	P29	204.0	52.4	4.0

30	P30	616.0	196.7	1.5
31	P31	616.0	196.7	4.5
32	P32	606.3	195.4	4.0

Obszary o innym niż globalny współczynniku gruntu G :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	wsp.G
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1	250.1	190.1	234.4	171.5	268.0	144.0	282.7	162.2	1.000
2	151.8	221.4	242.1	147.5	238.2	140.2	121.8	183.4	1.000
3	147.6	225.8	128.8	200.6	118.4	202.8	119.4	249.6	1.000
4	129.2	283.0	148.0	268.0	133.6	250.0	128.0	253.6	1.000
5	121.0	248.2	117.6	296.6	90.6	315.4	97.0	296.0	1.000
6	90.6	315.4	117.8	296.8	161.6	353.6	111.2	350.8	1.000
7	241.6	144.6	206.8	72.2	330.2	64.6	339.8	77.8	1.000
8	238.1	138.2	221.4	122.2	210.9	102.6	206.1	71.6	1.000
9	555.7	270.6	393.4	63.4	544.3	13.2	617.8	233.2	1.000
10	510.4	245.5	367.0	60.7	393.4	62.0	528.9	237.2	1.000

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Program LEQ Professional w.6(2019)

Wydruk wyników obliczeń

Projekt :

Nr pkt.	X [m]	Y [m]	z [m]	Leq [dB(A)]
1	95.5	268.1	1.5	37.2
2	95.5	268.1	4.5	40.3
3	106.1	268.7	4.0	39.5
4	107.0	236.4	1.5	37.6
5	104.3	238.0	4.5	44.0
6	97.1	220.7	1.5	37.3
7	97.1	220.7	4.5	44.1
8	113.1	225.8	4.0	42.0
9	98.4	165.7	1.5	37.7
10	98.4	165.7	4.5	40.3
11	109.3	164.7	4.0	38.3
12	132.0	173.4	1.5	36.5
13	132.0	173.4	4.5	44.4
14	133.9	177.8	4.0	41.7
15	98.4	133.0	1.5	39.9
16	98.4	133.0	4.5	43.4
17	106.7	140.4	4.0	40.6
18	124.6	114.5	1.5	37.5
19	124.6	114.5	4.5	43.8
20	135.8	150.0	4.0	43.1
21	155.4	70.3	1.5	37.1
22	155.4	70.3	4.5	41.9
23	159.5	78.3	4.0	39.5
24	215.5	71.0	1.5	27.7
25	215.5	71.0	4.5	39.1
26	215.5	71.0	4.0	37.8
27	203.0	31.3	1.5	36.5
28	203.0	31.3	4.5	38.2
29	204.0	52.4	4.0	37.7
30	616.0	196.7	1.5	37.5
31	616.0	196.7	4.5	39.8
32	606.3	195.4	4.0	39.9



Rysunek 1 Plan sytuacyjny – pora dnia (wariant 1)



Rysunek 2 Izofony w porze dnia (warant 1)

2. Pora dnia – wariant 2

Program LEQ Professional v. 6-2019 dla Windows

Dane do obliczeń :

Współczynnik gruntu (całego obszaru analizy)-global G = 0.000

Temperatura otoczenia 10[°C]

Źródła punktowe

Nr	X[m]	Y[m]	z[m]	Pma	Symbol
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1	451.7	224.0	9.0	89.1	Biuro
2	529.5	265.6	6.0	76.2	Portier
3	373.2	105.5	16.0	83.7	B+S_1
4	279.1	182.4	16.0	83.7	B+S_2
5	267.4	190.6	16.0	83.7	B+S_3
6	155.2	281.7	16.0	83.7	B+S_4
7	295.0	330.3	16.0	83.7	B+S_5
8	347.8	289.4	16.0	83.7	B+S_6
9	462.2	203.7	3.0	60.0	12.1
10	458.8	199.4	3.0	60.0	12.1
11	429.1	160.8	3.0	64.0	7
12	425.5	155.9	3.0	76.0	7
13	421.2	150.7	3.0	77.0	7
14	329.0	225.4	16.0	87.0	15
15	337.3	218.2	16.0	87.0	15
16	346.3	211.7	16.0	87.0	15
17	355.7	203.8	16.0	87.0	15

18 364.0 196.9 16.0 87.0 15
19 373.0 190.8 16.0 87.0 15
20 381.6 183.2 16.0 87.0 15
21 390.2 176.4 16.0 87.0 15
22 398.9 169.6 16.0 87.0 15
23 407.2 162.7 16.0 87.0 15
24 379.8 208.1 16.0 65.0 12.2
25 383.0 212.8 16.0 65.0 12.2
26 349.2 254.9 16.0 80.0 4
27 397.4 216.7 16.0 80.0 4
28 346.3 249.1 16.0 63.0 2
29 393.8 211.7 16.0 63.0 2
30 351.7 245.9 16.0 86.0 2.1
31 398.9 207.4 16.0 86.0 2.1
32 350.6 193.0 16.0 77.0 13
33 395.3 157.3 16.0 77.0 13
34 214.9 313.6 16.0 85.0 14
35 199.1 294.8 16.0 85.0 14
36 240.5 292.3 16.0 85.0 14
37 225.4 274.3 16.0 85.0 14
38 267.8 271.4 16.0 85.0 14
39 252.7 252.4 16.0 85.0 14
40 294.5 250.6 16.0 85.0 14
41 279.4 231.1 16.0 85.0 14
42 177.1 321.8 3.0 75.0 7
43 173.5 317.5 3.0 75.0 7
44 168.8 311.4 3.0 75.0 7
45 172.7 311.7 16.0 65.0 30
46 175.4 309.4 16.0 65.0 30
47 172.4 308.6 16.0 65.0 30
48 175.0 314.3 16.0 70.0 28

49	178.3	314.1	16.0	70.0	28
50	182.3	317.7	16.0	76.0	29
51	181.1	320.3	16.0	75.0	27
52	177.9	318.3	16.0	75.0	27.1
53	529.8	244.2	0.5	70.5	R-1
54	523.0	249.5	0.5	70.5	R-1
55	511.5	252.6	0.5	73.5	R-2
56	494.4	253.4	0.5	73.5	R-2
57	477.4	254.2	0.5	73.5	R-2
58	460.4	255.0	0.5	73.5	R-2
59	444.5	260.5	0.5	73.4	R-3
60	431.2	270.9	0.5	73.4	R-3
61	417.8	281.3	0.5	73.4	R-3
62	404.5	291.6	0.5	73.4	R-3
63	391.2	302.0	0.5	73.4	R-3
64	377.8	312.4	0.5	73.4	R-3
65	364.5	322.8	0.5	73.4	R-3
66	351.1	333.1	0.5	73.4	R-3
67	337.8	343.5	0.5	73.4	R-3
68	324.4	353.9	0.5	73.4	R-3
69	309.2	357.9	0.5	73.2	R-4
70	293.3	356.1	0.5	73.2	R-4
71	277.4	354.4	0.5	73.2	R-4
72	261.5	352.7	0.5	73.2	R-4
73	245.6	350.9	0.5	73.2	R-4
74	229.6	349.2	0.5	73.2	R-4
75	213.7	347.5	0.5	73.2	R-4
76	197.8	345.8	0.5	73.2	R-4
77	181.9	344.0	0.5	73.2	R-4
78	166.0	342.3	0.5	73.2	R-4
79	154.7	336.9	0.5	71.9	R-5

80	147.2	327.8	0.5	71.9	R-5
81	139.7	318.7	0.5	71.9	R-5
82	132.2	309.6	0.5	71.9	R-5
83	124.7	300.5	0.5	71.9	R-5
84	121.6	290.0	0.5	71.4	R-6
85	122.4	279.4	0.5	71.4	R-6
86	123.1	268.8	0.5	71.4	R-6
87	123.8	258.1	0.5	71.4	R-6
88	128.2	249.3	0.5	71.3	R-7
89	136.2	242.9	0.5	71.3	R-7
90	144.3	236.5	0.5	71.3	R-7
91	152.3	230.1	0.5	71.3	R-7
92	160.4	223.7	0.5	71.3	R-7
93	168.4	217.3	0.5	71.3	R-7
94	176.5	210.9	0.5	71.3	R-7
95	184.5	204.5	0.5	71.3	R-7
96	192.6	198.1	0.5	71.3	R-7
97	200.6	191.7	0.5	71.3	R-7
98	208.7	185.3	0.5	71.3	R-7
99	216.7	178.9	0.5	71.3	R-7
100	224.8	172.5	0.5	71.3	R-7
101	232.8	166.1	0.5	71.3	R-7
102	240.8	159.7	0.5	71.3	R-7
103	248.9	153.3	0.5	71.3	R-7
104	256.9	146.9	0.5	71.3	R-7
105	265.0	140.5	0.5	71.3	R-7
106	273.0	134.1	0.5	71.3	R-7
107	281.1	127.7	0.5	71.3	R-7
108	289.1	121.3	0.5	71.3	R-7
109	297.2	114.9	0.5	71.3	R-7
110	305.2	108.5	0.5	71.3	R-7

111	313.3	102.1	0.5	71.3	R-7
112	321.3	95.7	0.5	71.3	R-7
113	329.4	89.3	0.5	71.3	R-7
114	337.4	82.9	0.5	71.3	R-7
115	347.5	80.6	0.5	72.2	R-8
116	360.2	81.8	0.5	72.2	R-8
117	372.9	82.9	0.5	72.2	R-8
118	382.7	87.9	0.5	71.3	R-9
119	389.1	96.1	0.5	71.3	R-9
120	395.5	104.3	0.5	71.3	R-9
121	401.8	112.5	0.5	71.3	R-9
122	408.2	120.7	0.5	71.3	R-9
123	414.6	128.9	0.5	71.3	R-9
124	421.0	137.1	0.5	71.3	R-9
125	427.4	145.3	0.5	71.3	R-9
126	433.8	153.5	0.5	71.3	R-9
127	440.1	161.7	0.5	71.3	R-9
128	446.5	169.9	0.5	71.3	R-9
129	452.9	178.1	0.5	71.3	R-9
130	459.3	186.3	0.5	71.3	R-9
131	465.7	194.5	0.5	71.3	R-9
132	472.0	202.7	0.5	71.3	R-9
133	478.4	210.9	0.5	71.3	R-9
134	480.8	220.5	0.5	71.1	R-10
135	478.6	230.2	0.5	71.1	R-10
136	476.3	239.9	0.5	71.1	R-10
137	474.1	249.6	0.5	71.1	R-10
138	433.3	268.8	0.5	66.2	S+H1
139	342.1	339.5	0.5	73.6	S+H2
140	236.8	349.4	0.5	72.6	S+H3
141	137.3	315.5	0.5	73.1	S+H4

142	175.0	211.8	0.5	74.6	S+H5
143	301.4	112.6	0.5	70.7	S+H6
144	414.4	127.7	0.5	68.5	S+H7
145	454.4	178.9	0.5	66.7	S+H8
146	337.3	241.6	16.0	81.0	Mal1
147	358.2	268.6	16.0	81.0	Mal2
148	424.5	154.7	3.0	76.0	7
149	456.2	196.0	3.0	60.0	12.1
150	413.8	148.0	16.0	65.0	12.3
151	411.6	145.2	16.0	65.0	12.3
152	410.2	143.0	16.0	65.0	12.3
153	416.9	144.8	3.0	60.0	12.1
154	414.9	142.2	3.0	60.0	12.1
155	170.8	195.1	5.5	70.0	P2
156	168.6	192.5	5.5	70.0	P3
157	437.0	145.2	1.0	63.0	31
158	140.1	225.1	1.0	63.0	31

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Źródła typu hala produkcyjna :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	h0[m]	h[m]
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1	357.0	290.8	311.1	233.7	418.4	146.7	463.2	205.4	0.0	15.0
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2	171.7	199.3	164.4	190.2	171.1	185.2	178.1	194.3	0.0	4.5
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POZIOMY HAŁASU i IZOLACYJNOŚĆ PRZEGRÓD

Nr źródła	A	63	125	250	500	1000	2000	4000	8000	wsp.odb.
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1	sc.1	L	wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
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R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
sc.2 L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
sc.3 L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
sc.4 L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
dach L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R d	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Nr źródła	A	63	125	250	500	1000	2000	4000	8000	wsp.odb.
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2 sc.1 L wew	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R sc	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
sc.2 L wew	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R sc	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
sc.3 L wew	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R sc	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
sc.4 L wew	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R sc	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
dach L wew	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
R d	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Ekrany akustyczne :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	h0[m]	h[m]
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1	453.5	229.9	445.5	220.6	463.3	205.3	471.3	214.6	0.0	8.0
2	530.3	271.8	523.9	264.2	537.0	253.0	543.5	260.6	0.0	5.0
3	311.1	233.4	265.4	176.8	373.0	90.0	418.6	146.6	0.0	15.0

4	356.5	290.6	294.6	340.2	203.3	226.2	265.2	176.7	0.0	15.0
5	287.2	331.1	203.0	226.3	193.3	234.2	277.4	339.0	0.0	15.0
6	269.8	329.5	193.2	234.2	184.4	241.2	261.0	336.6	0.0	15.0
7	253.5	327.2	184.4	241.4	175.8	248.3	244.9	334.0	0.0	15.0
8	237.1	324.1	175.7	248.3	166.6	255.6	228.0	331.5	0.0	15.0
9	220.8	321.8	166.7	255.4	157.7	262.8	211.8	329.2	0.0	15.0
10	203.8	319.5	157.6	262.8	148.4	269.9	194.8	326.8	0.0	15.0
11	186.6	316.6	148.4	269.9	140.0	276.4	178.4	323.3	0.0	15.0
12	109.5	273.9	110.0	274.3	113.7	266.6	113.0	266.2	0.0	4.0
13	113.0	266.2	117.8	250.6	118.6	250.8	113.8	266.4	0.0	4.0
14	117.9	250.5	118.4	234.6	119.0	234.5	118.7	250.7	0.0	4.0
15	116.8	190.7	117.8	190.7	117.8	186.2	116.8	186.2	0.0	4.0
16	116.9	185.4	144.8	175.3	145.0	175.8	117.1	186.0	0.0	4.0
17	328.2	64.4	371.2	61.0	371.3	61.7	328.3	65.0	0.0	4.0
18	105.0	348.1	92.7	328.7	102.5	322.5	114.8	341.8	0.0	3.0
19	93.2	310.3	96.6	298.0	107.7	301.0	104.3	313.4	0.0	3.0
20	96.6	298.0	103.7	285.0	110.9	288.6	107.7	301.0	0.0	3.0
21	103.7	285.0	109.6	273.9	116.4	278.6	111.0	288.6	0.0	3.0
22	118.5	234.5	117.7	204.3	130.1	204.4	130.6	233.8	0.0	3.0
23	144.8	175.4	157.1	170.6	159.6	177.1	147.3	181.8	0.0	2.0
24	159.6	177.1	157.1	170.6	169.9	166.1	175.7	180.2	0.0	3.0
25	175.7	180.2	169.9	166.0	202.8	153.5	208.2	167.7	0.0	4.0
26	208.3	167.7	202.8	153.4	207.4	151.8	212.1	164.1	0.0	3.8
27	212.1	164.1	207.3	151.8	215.7	148.8	220.1	160.5	0.0	3.5
28	220.1	160.5	215.7	148.7	233.2	142.2	235.6	148.0	0.0	3.0
29	235.6	147.9	233.2	142.2	245.0	136.6	244.5	142.0	0.0	2.5
30	239.6	139.1	236.2	135.5	241.0	131.2	244.9	136.6	0.0	2.5
31	236.3	135.5	232.0	130.2	241.8	121.8	241.1	131.2	0.0	3.0
32	231.9	130.2	224.6	122.6	235.2	114.8	241.7	121.8	0.0	3.5
33	224.6	122.6	222.6	119.5	234.9	110.2	235.2	114.8	0.0	3.8
34	222.6	119.4	212.2	101.8	227.0	95.8	234.8	110.2	0.0	4.0

35	212.2	101.6	206.5	71.8	228.4	72.8	227.0	95.8	0.0	4.0
36	227.5	89.8	269.6	84.3	269.5	69.4	228.5	72.9	0.0	4.0
37	269.6	84.3	269.5	69.3	282.1	67.9	282.4	75.5	0.0	3.0
38	282.5	75.5	282.1	67.9	292.7	67.4	293.1	74.6	0.0	2.0
39	293.3	74.6	298.2	79.5	297.7	67.1	292.7	67.4	0.0	2.8
40	328.2	64.5	297.7	67.2	298.2	79.3	329.2	76.2	0.0	3.5

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WSPÓŁCZYNNIKI ODBICIA DLA ŚCIAN

Nr	ściana 1	ściana 2	ściana 3	ściana 4	dach
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1	1.0000	1.0000	1.0000	1.0000	1.0000
2	1.0000	1.0000	1.0000	1.0000	1.0000
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000
8	1.0000	1.0000	1.0000	1.0000	1.0000
9	1.0000	1.0000	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000	1.0000	1.0000
11	1.0000	1.0000	1.0000	1.0000	1.0000
12	1.0000	1.0000	1.0000	1.0000	1.0000
13	1.0000	1.0000	1.0000	1.0000	1.0000
14	1.0000	1.0000	1.0000	1.0000	1.0000
15	1.0000	1.0000	1.0000	1.0000	1.0000
16	1.0000	1.0000	1.0000	1.0000	1.0000
17	1.0000	1.0000	1.0000	1.0000	1.0000
18	1.0000	1.0000	1.0000	1.0000	1.0000
19	1.0000	1.0000	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000	1.0000	1.0000

21	1.0000	1.0000	1.0000	1.0000	1.0000
22	1.0000	1.0000	1.0000	1.0000	1.0000
23	1.0000	1.0000	1.0000	1.0000	1.0000
24	1.0000	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000	1.0000
26	1.0000	1.0000	1.0000	1.0000	1.0000
27	1.0000	1.0000	1.0000	1.0000	1.0000
28	1.0000	1.0000	1.0000	1.0000	1.0000
29	1.0000	1.0000	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000	1.0000	1.0000
31	1.0000	1.0000	1.0000	1.0000	1.0000
32	1.0000	1.0000	1.0000	1.0000	1.0000
33	1.0000	1.0000	1.0000	1.0000	1.0000
34	1.0000	1.0000	1.0000	1.0000	1.0000
35	1.0000	1.0000	1.0000	1.0000	1.0000
36	1.0000	1.0000	1.0000	1.0000	1.0000
37	1.0000	1.0000	1.0000	1.0000	1.0000
38	1.0000	1.0000	1.0000	1.0000	1.0000
39	1.0000	1.0000	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000	1.0000

=====

Punkty obserwacji

Nr	Symbol	X[m]	Y[m]	z[m]
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1	P1	95.5	268.1	1.5
2	P2	95.5	268.1	4.5
3	P3	106.1	268.7	4.0
4	P4	107.0	236.4	1.5
5	P5	104.3	238.0	4.5
6	P6	97.1	220.7	1.5

7	P7	97.1	220.7	4.5
8	P8	113.1	225.8	4.0
9	P9	98.4	165.7	1.5
10	P10	98.4	165.7	4.5
11	P11	109.3	164.7	4.0
12	P12	132.0	173.4	1.5
13	P13	132.0	173.4	4.5
14	P14	133.9	177.8	4.0
15	P15	98.4	133.0	1.5
16	P16	98.4	133.0	4.5
17	P17	106.7	140.4	4.0
18	P18	124.6	114.5	1.5
19	P19	124.6	114.5	4.5
20	P20	135.8	150.0	4.0
21	P21	155.4	70.3	1.5
22	P22	155.4	70.3	4.5
23	P23	159.5	78.3	4.0
24	P24	215.5	71.0	1.5
25	P25	215.5	71.0	4.5
26	P26	215.5	71.0	4.0
27	P27	203.0	31.3	1.5
28	P28	203.0	31.3	4.5
29	P29	204.0	52.4	4.0
30	P30	616.0	196.7	1.5
31	P31	616.0	196.7	4.5
32	P32	606.3	195.4	4.0

Obszary o innym niż globalny współczynniku gruntu G :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	wsp.G
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1	250.1	190.1	234.4	171.5	268.0	144.0	282.7	162.2	1.000
2	151.8	221.4	242.1	147.5	238.2	140.2	121.8	183.4	1.000
3	147.6	225.8	128.8	200.6	118.4	202.8	119.4	249.6	1.000
4	129.2	283.0	148.0	268.0	133.6	250.0	128.0	253.6	1.000
5	121.0	248.2	117.6	296.6	90.6	315.4	97.0	296.0	1.000
6	90.6	315.4	117.8	296.8	161.6	353.6	111.2	350.8	1.000
7	241.6	144.6	206.8	72.2	330.2	64.6	339.8	77.8	1.000
8	238.1	138.2	221.4	122.2	210.9	102.6	206.1	71.6	1.000
9	555.7	270.6	393.4	63.4	544.3	13.2	617.8	233.2	1.000
10	510.4	245.5	367.0	60.7	393.4	62.0	528.9	237.2	1.000

Program LEQ Professional w.6(2019)

Wydruk wyników obliczeń

Projekt :

Nr pkt.	X [m]	Y [m]	z [m]	Leq [dB(A)]
1	95,5	268,1	1,5	36,9
2	95,5	268,1	4,5	40,4
3	106,1	268,7	4,0	39,5
4	107,0	236,4	1,5	37,5
5	104,3	238,0	4,5	44,0
6	97,1	220,7	1,5	37,4
7	97,1	220,7	4,5	44,2
8	113,1	225,8	4,0	42,0
9	98,4	165,7	1,5	38,4
10	98,4	165,7	4,5	40,8
11	109,3	164,7	4,0	39,0
12	132,0	173,4	1,5	36,8
13	132,0	173,4	4,5	44,4
14	133,9	177,8	4,0	41,4
15	98,4	133,0	1,5	40,3
16	98,4	133,0	4,5	43,5
17	106,7	140,4	4,0	41,0
18	124,6	114,5	1,5	37,8
19	124,6	114,5	4,5	43,9
20	135,8	150,0	4,0	43,2
21	155,4	70,3	1,5	37,4
22	155,4	70,3	4,5	42,0
23	159,5	78,3	4,0	39,7
24	215,5	71,0	1,5	26,4
25	215,5	71,0	4,5	39,3
26	215,5	71,0	4,0	37,9
27	203,0	31,3	1,5	36,3
28	203,0	31,3	4,5	38,3
29	204,0	52,4	4,0	37,8
30	616,0	196,7	1,5	37,1
31	616,0	196,7	4,5	39,5
32	606,3	195,4	4,0	39,6



Rysunek 3 Plan sytuacyjny – pora dnia (wariant 2)

3. Pora nocy – wariant 1

Program LEQ Professional v. 6-2019 dla Windows

Dane do obliczeń :

Współczynnik gruntu (całego obszaru analizy)-global G = 0.000

Temperatura otoczenia 10[°C]

Źródła punktowe

Nr	X[m]	Y[m]	z[m]	Pma	Symbol
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1	451.7	224.0	9.0	89.1	Biuro
2	529.5	265.6	6.0	76.2	Portier
3	373.2	105.5	16.0	88.0	B+S_1
4	279.1	182.4	16.0	88.0	B+S_2
5	267.4	190.6	16.0	88.0	B+S_3
6	155.2	281.7	16.0	88.0	B+S_4
7	295.0	330.3	16.0	88.0	B+S_5
8	347.8	289.4	16.0	88.0	B+S_6
9	462.2	203.7	3.0	60.0	12.1
10	458.8	199.4	3.0	60.0	12.1
11	429.1	160.8	3.0	64.0	7
12	425.5	155.9	3.0	76.0	7
13	421.2	150.7	3.0	77.0	7
14	329.0	225.4	16.0	87.0	15
15	337.3	218.2	16.0	87.0	15

16	346.3	211.7	16.0	87.0	15
17	355.7	203.8	16.0	87.0	15
18	364.0	196.9	16.0	87.0	15
19	373.0	190.8	16.0	87.0	15
20	381.6	183.2	16.0	87.0	15
21	390.2	176.4	16.0	87.0	15
22	398.9	169.6	16.0	87.0	15
23	407.2	162.7	16.0	87.0	15
24	379.8	208.1	16.0	65.0	12.2
25	383.0	212.8	16.0	65.0	12.2
26	349.2	254.9	16.0	80.0	4
27	397.4	216.7	16.0	80.0	4
28	346.3	249.1	16.0	63.0	2
29	393.8	211.7	16.0	63.0	2
30	351.7	245.9	16.0	86.0	2.1
31	398.9	207.4	16.0	86.0	2.1
32	350.6	193.0	16.0	77.0	13
33	395.3	157.3	16.0	77.0	13
34	214.9	313.6	16.0	85.0	14
35	199.1	294.8	16.0	85.0	14
36	240.5	292.3	16.0	85.0	14
37	225.4	274.3	16.0	85.0	14
38	267.8	271.4	16.0	85.0	14
39	252.7	252.4	16.0	85.0	14
40	294.5	250.6	16.0	85.0	14
41	279.4	231.1	16.0	85.0	14
42	177.1	321.8	3.0	75.0	7
43	173.5	317.5	3.0	75.0	7
44	168.8	311.4	3.0	75.0	7
45	172.7	311.7	16.0	65.0	30
46	175.4	309.4	16.0	65.0	30

47 172.4 308.6 16.0 65.0 30
48 175.0 314.3 16.0 70.0 28
49 178.3 314.1 16.0 70.0 28
50 182.3 317.7 16.0 76.0 29
51 181.1 320.3 16.0 75.0 27
52 177.9 318.3 16.0 75.0 27.1
53 529.8 244.2 0.5 69.6 R-1
54 523.0 249.5 0.5 69.6 R-1
55 511.5 252.6 0.5 72.6 R-2
56 494.4 253.4 0.5 72.6 R-2
57 477.4 254.2 0.5 72.6 R-2
58 460.4 255.0 0.5 72.6 R-2
59 444.5 260.5 0.5 70.7 R-3
60 431.2 270.9 0.5 70.7 R-3
61 417.8 281.3 0.5 70.7 R-3
62 404.5 291.6 0.5 70.7 R-3
63 391.2 302.0 0.5 70.7 R-3
64 377.8 312.4 0.5 70.7 R-3
65 364.5 322.8 0.5 70.7 R-3
66 351.1 333.1 0.5 70.7 R-3
67 337.8 343.5 0.5 70.7 R-3
68 324.4 353.9 0.5 70.7 R-3
69 309.2 357.9 0.5 72.3 R-4
70 293.3 356.1 0.5 72.3 R-4
71 277.4 354.4 0.5 72.3 R-4
72 261.5 352.7 0.5 72.3 R-4
73 245.6 350.9 0.5 72.3 R-4
74 229.6 349.2 0.5 72.3 R-4
75 213.7 347.5 0.5 72.3 R-4
76 197.8 345.8 0.5 72.3 R-4
77 181.9 344.0 0.5 72.3 R-4

78	166.0	342.3	0.5	72.3	R-4
79	154.7	336.9	0.5	71.0	R-5
80	147.2	327.8	0.5	71.0	R-5
81	139.7	318.7	0.5	71.0	R-5
82	132.2	309.6	0.5	71.0	R-5
83	124.7	300.5	0.5	71.0	R-5
84	121.6	290.0	0.5	70.6	R-6
85	122.4	279.4	0.5	70.6	R-6
86	123.1	268.8	0.5	70.6	R-6
87	123.8	258.1	0.5	70.6	R-6
88	128.2	249.3	0.5	70.4	R-7
89	136.2	242.9	0.5	70.4	R-7
90	144.3	236.5	0.5	70.4	R-7
91	152.3	230.1	0.5	70.4	R-7
92	160.4	223.7	0.5	70.4	R-7
93	168.4	217.3	0.5	70.4	R-7
94	176.5	210.9	0.5	70.4	R-7
95	184.5	204.5	0.5	70.4	R-7
96	192.6	198.1	0.5	70.4	R-7
97	200.6	191.7	0.5	70.4	R-7
98	208.7	185.3	0.5	70.4	R-7
99	216.7	178.9	0.5	70.4	R-7
100	224.8	172.5	0.5	70.4	R-7
101	232.8	166.1	0.5	70.4	R-7
102	240.8	159.7	0.5	70.4	R-7
103	248.9	153.3	0.5	70.4	R-7
104	256.9	146.9	0.5	70.4	R-7
105	265.0	140.5	0.5	70.4	R-7
106	273.0	134.1	0.5	70.4	R-7
107	281.1	127.7	0.5	70.4	R-7
108	289.1	121.3	0.5	70.4	R-7

109	297.2	114.9	0.5	70.4	R-7
110	305.2	108.5	0.5	70.4	R-7
111	313.3	102.1	0.5	70.4	R-7
112	321.3	95.7	0.5	70.4	R-7
113	329.4	89.3	0.5	70.4	R-7
114	337.4	82.9	0.5	70.4	R-7
115	347.5	80.6	0.5	71.3	R-8
116	360.2	81.8	0.5	71.3	R-8
117	372.9	82.9	0.5	71.3	R-8
118	382.7	87.9	0.5	70.4	R-9
119	389.1	96.1	0.5	70.4	R-9
120	395.5	104.3	0.5	70.4	R-9
121	401.8	112.5	0.5	70.4	R-9
122	408.2	120.7	0.5	70.4	R-9
123	414.6	128.9	0.5	70.4	R-9
124	421.0	137.1	0.5	70.4	R-9
125	427.4	145.3	0.5	70.4	R-9
126	433.8	153.5	0.5	70.4	R-9
127	440.1	161.7	0.5	70.4	R-9
128	446.5	169.9	0.5	70.4	R-9
129	452.9	178.1	0.5	70.4	R-9
130	459.3	186.3	0.5	70.4	R-9
131	465.7	194.5	0.5	70.4	R-9
132	472.0	202.7	0.5	70.4	R-9
133	478.4	210.9	0.5	70.4	R-9
134	480.8	220.5	0.5	70.2	R-10
135	478.6	230.2	0.5	70.2	R-10
136	476.3	239.9	0.5	70.2	R-10
137	474.1	249.6	0.5	70.2	R-10
138	433.3	268.8	0.5	64.8	S+H1
139	342.1	339.5	0.5	74.9	S+H2

140	236.8	349.4	0.5	74.4	S+H3
141	137.3	315.5	0.5	73.4	S+H4
142	175.0	211.8	0.5	73.4	S+H5
143	301.4	112.6	0.5	72.7	S+H6
144	414.4	127.7	0.5	72.7	S+H7
145	454.4	178.9	0.5	72.7	S+H8
146	337.3	241.6	16.0	81.0	Mal1
147	358.2	268.6	16.0	81.0	Mal2
148	424.5	154.7	3.0	76.0	7
149	456.2	196.0	3.0	60.0	12.1
150	413.8	148.0	16.0	65.0	12.3
151	411.6	145.2	16.0	65.0	12.3
152	410.2	143.0	16.0	65.0	12.3
153	416.9	144.8	3.0	60.0	12.1
154	414.9	142.2	3.0	60.0	12.1

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Źródła typu hala produkcyjna :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	h0[m]	h[m]
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1	357.0	290.8	311.1	233.7	418.4	146.7	463.2	205.4	0.0	15.0
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POZIOMY HAŁASU i IZOLACYJNOŚĆ PRZEGRÓD

Nr źródła	A	63	125	250	500	1000	2000	4000	8000	wsp.odb.
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1	sc.1	L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
---	------	-------	------	-----	-----	-----	-----	-----	-----	-----	--------

	R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	------	------	-----	-----	-----	-----	-----	-----	-----	-----

	sc.2	L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
--	------	-------	------	-----	-----	-----	-----	-----	-----	-----	--------

	R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	------	------	-----	-----	-----	-----	-----	-----	-----	-----

sc.3 L wew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000

R sc 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

sc.4 L wew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000

R sc 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

dach L wew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000

R d 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

=====

Ekrany akustyczne :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr X1[m] Y1[m] X2[m] Y2[m] X3[m] Y3[m] X4[m] Y4[m] h0[m] h[m]

=====

1 453.5 229.9 445.5 220.6 463.3 205.3 471.3 214.6 0.0 8.0

2 530.3 271.8 523.9 264.2 537.0 253.0 543.5 260.6 0.0 5.0

3 311.1 233.4 265.4 176.8 373.0 90.0 418.6 146.6 0.0 15.0

4 356.5 290.6 294.6 340.2 203.3 226.2 265.2 176.7 0.0 15.0

5 287.2 331.1 203.0 226.3 193.3 234.2 277.4 339.0 0.0 15.0

6 269.8 329.5 193.2 234.2 184.4 241.2 261.0 336.6 0.0 15.0

7 253.5 327.2 184.4 241.4 175.8 248.3 244.9 334.0 0.0 15.0

8 237.1 324.1 175.7 248.3 166.6 255.6 228.0 331.5 0.0 15.0

9 220.8 321.8 166.7 255.4 157.7 262.8 211.8 329.2 0.0 15.0

10 203.8 319.5 157.6 262.8 148.4 269.9 194.8 326.8 0.0 15.0

11 186.6 316.6 148.4 269.9 140.0 276.4 178.4 323.3 0.0 15.0

12 109.5 273.9 110.0 274.3 113.7 266.6 113.0 266.2 0.0 4.0

13 113.0 266.2 117.8 250.6 118.6 250.8 113.8 266.4 0.0 4.0

14 117.9 250.5 118.4 234.6 119.0 234.5 118.7 250.7 0.0 4.0

15 116.8 190.7 117.8 190.7 117.8 186.2 116.8 186.2 0.0 4.0

16 116.9 185.4 144.8 175.3 145.0 175.8 117.1 186.0 0.0 4.0

17 328.2 64.4 371.2 61.0 371.3 61.7 328.3 65.0 0.0 4.0

18 105.0 348.1 92.7 328.7 102.5 322.5 114.8 341.8 0.0 3.0

19 93.2 310.3 96.6 298.0 107.7 301.0 104.3 313.4 0.0 3.0

20	96.6	298.0	103.7	285.0	110.9	288.6	107.7	301.0	0.0	3.0
21	103.7	285.0	109.6	273.9	116.4	278.6	111.0	288.6	0.0	3.0
22	118.5	234.5	117.7	204.3	130.1	204.4	130.6	233.8	0.0	3.0
23	144.8	175.4	157.1	170.6	159.6	177.1	147.3	181.8	0.0	2.0
24	159.6	177.1	157.1	170.6	169.9	166.1	175.7	180.2	0.0	3.0
25	175.7	180.2	169.9	166.0	202.8	153.5	208.2	167.7	0.0	4.0
26	208.3	167.7	202.8	153.4	207.4	151.8	212.1	164.1	0.0	3.8
27	212.1	164.1	207.3	151.8	215.7	148.8	220.1	160.5	0.0	3.5
28	220.1	160.5	215.7	148.7	233.2	142.2	235.6	148.0	0.0	3.0
29	235.6	147.9	233.2	142.2	245.0	136.6	244.5	142.0	0.0	2.5
30	239.6	139.1	236.2	135.5	241.0	131.2	244.9	136.6	0.0	2.5
31	236.3	135.5	232.0	130.2	241.8	121.8	241.1	131.2	0.0	3.0
32	231.9	130.2	224.6	122.6	235.2	114.8	241.7	121.8	0.0	3.5
33	224.6	122.6	222.6	119.5	234.9	110.2	235.2	114.8	0.0	3.8
34	222.6	119.4	212.2	101.8	227.0	95.8	234.8	110.2	0.0	4.0
35	212.2	101.6	206.5	71.8	228.4	72.8	227.0	95.8	0.0	4.0
36	227.5	89.8	269.6	84.3	269.5	69.4	228.5	72.9	0.0	4.0
37	269.6	84.3	269.5	69.3	282.1	67.9	282.4	75.5	0.0	3.0
38	282.5	75.5	282.1	67.9	292.7	67.4	293.1	74.6	0.0	2.0
39	293.3	74.6	298.2	79.5	297.7	67.1	292.7	67.4	0.0	2.8
40	328.2	64.5	297.7	67.2	298.2	79.3	329.2	76.2	0.0	3.5
41	171.7	199.3	164.6	190.2	171.1	185.2	178.1	194.3	0.0	4.5
42	140.2	276.4	149.2	287.8	149.7	287.5	140.5	276.3	15.0	17.0
43	140.4	276.6	140.1	276.2	150.9	267.9	151.4	268.4	15.0	17.0
44	251.8	188.8	251.2	187.6	278.8	166.0	279.4	166.8	15.0	17.0

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WSPÓŁCZYNNIKI ODBICIA DLA ŚCIAN

Nr	ściana 1	ściana 2	ściana 3	ściana 4	dach
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1	1.0000	1.0000	1.0000	1.0000	1.0000
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2	1.0000	1.0000	1.0000	1.0000	1.0000
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000
8	1.0000	1.0000	1.0000	1.0000	1.0000
9	1.0000	1.0000	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000	1.0000	1.0000
11	1.0000	1.0000	1.0000	1.0000	1.0000
12	1.0000	1.0000	1.0000	1.0000	1.0000
13	1.0000	1.0000	1.0000	1.0000	1.0000
14	1.0000	1.0000	1.0000	1.0000	1.0000
15	1.0000	1.0000	1.0000	1.0000	1.0000
16	1.0000	1.0000	1.0000	1.0000	1.0000
17	1.0000	1.0000	1.0000	1.0000	1.0000
18	1.0000	1.0000	1.0000	1.0000	1.0000
19	1.0000	1.0000	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000	1.0000	1.0000
21	1.0000	1.0000	1.0000	1.0000	1.0000
22	1.0000	1.0000	1.0000	1.0000	1.0000
23	1.0000	1.0000	1.0000	1.0000	1.0000
24	1.0000	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000	1.0000
26	1.0000	1.0000	1.0000	1.0000	1.0000
27	1.0000	1.0000	1.0000	1.0000	1.0000
28	1.0000	1.0000	1.0000	1.0000	1.0000
29	1.0000	1.0000	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000	1.0000	1.0000
31	1.0000	1.0000	1.0000	1.0000	1.0000
32	1.0000	1.0000	1.0000	1.0000	1.0000

33	1.0000	1.0000	1.0000	1.0000	1.0000
34	1.0000	1.0000	1.0000	1.0000	1.0000
35	1.0000	1.0000	1.0000	1.0000	1.0000
36	1.0000	1.0000	1.0000	1.0000	1.0000
37	1.0000	1.0000	1.0000	1.0000	1.0000
38	1.0000	1.0000	1.0000	1.0000	1.0000
39	1.0000	1.0000	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000	1.0000
41	1.0000	1.0000	1.0000	1.0000	1.0000
42	1.0000	1.0000	1.0000	1.0000	1.0000
43	1.0000	1.0000	1.0000	1.0000	1.0000
44	1.0000	1.0000	1.0000	1.0000	1.0000

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Punkty obserwacji

Nr	Symbol	X[m]	Y[m]	z[m]
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1	P1	95.5	268.1	1.5
2	P2	95.5	268.1	4.5
3	P3	106.1	268.7	4.0
4	P4	107.0	236.4	1.5
5	P5	104.3	238.0	4.5
6	P6	97.1	220.7	1.5
7	P7	97.1	220.7	4.5
8	P8	113.1	225.8	4.0
9	P9	98.4	165.7	1.5
10	P10	98.4	165.7	4.5
11	P11	109.3	164.7	4.0
12	P12	132.0	173.4	1.5
13	P13	132.0	173.4	4.5
14	P14	133.9	177.8	4.0

15	P15	98.4	133.0	1.5
16	P16	98.4	133.0	4.5
17	P17	106.7	140.4	4.0
18	P18	124.6	114.5	1.5
19	P19	124.6	114.5	4.5
20	P20	135.8	150.0	4.0
21	P21	155.4	70.3	1.5
22	P22	155.4	70.3	4.5
23	P23	159.5	78.3	4.0
24	P24	215.5	71.0	1.5
25	P25	215.5	71.0	4.5
26	P26	215.5	71.0	4.0
27	P27	203.0	31.3	1.5
28	P28	203.0	31.3	4.5
29	P29	204.0	52.4	4.0
30	P30	616.0	196.7	1.5
31	P31	616.0	196.7	4.5
32	P32	606.3	195.4	4.0

Obszary o innym niż globalny współczynniku gruntu G :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	wsp.G
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1	250.1	190.1	234.4	171.5	268.0	144.0	282.7	162.2	1.000
2	151.8	221.4	242.1	147.5	238.2	140.2	121.8	183.4	1.000
3	147.6	225.8	128.8	200.6	118.4	202.8	119.4	249.6	1.000
4	129.2	283.0	148.0	268.0	133.6	250.0	128.0	253.6	1.000
5	121.0	248.2	117.6	296.6	90.6	315.4	97.0	296.0	1.000
6	90.6	315.4	117.8	296.8	161.6	353.6	111.2	350.8	1.000
7	241.6	144.6	206.8	72.2	330.2	64.6	339.8	77.8	1.000

8 238.1 138.2 221.4 122.2 210.9 102.6 206.1 71.6 1.000

9 555.7 270.6 393.4 63.4 544.3 13.2 617.8 233.2 1.000

10 510.4 245.5 367.0 60.7 393.4 62.0 528.9 237.2 1.000

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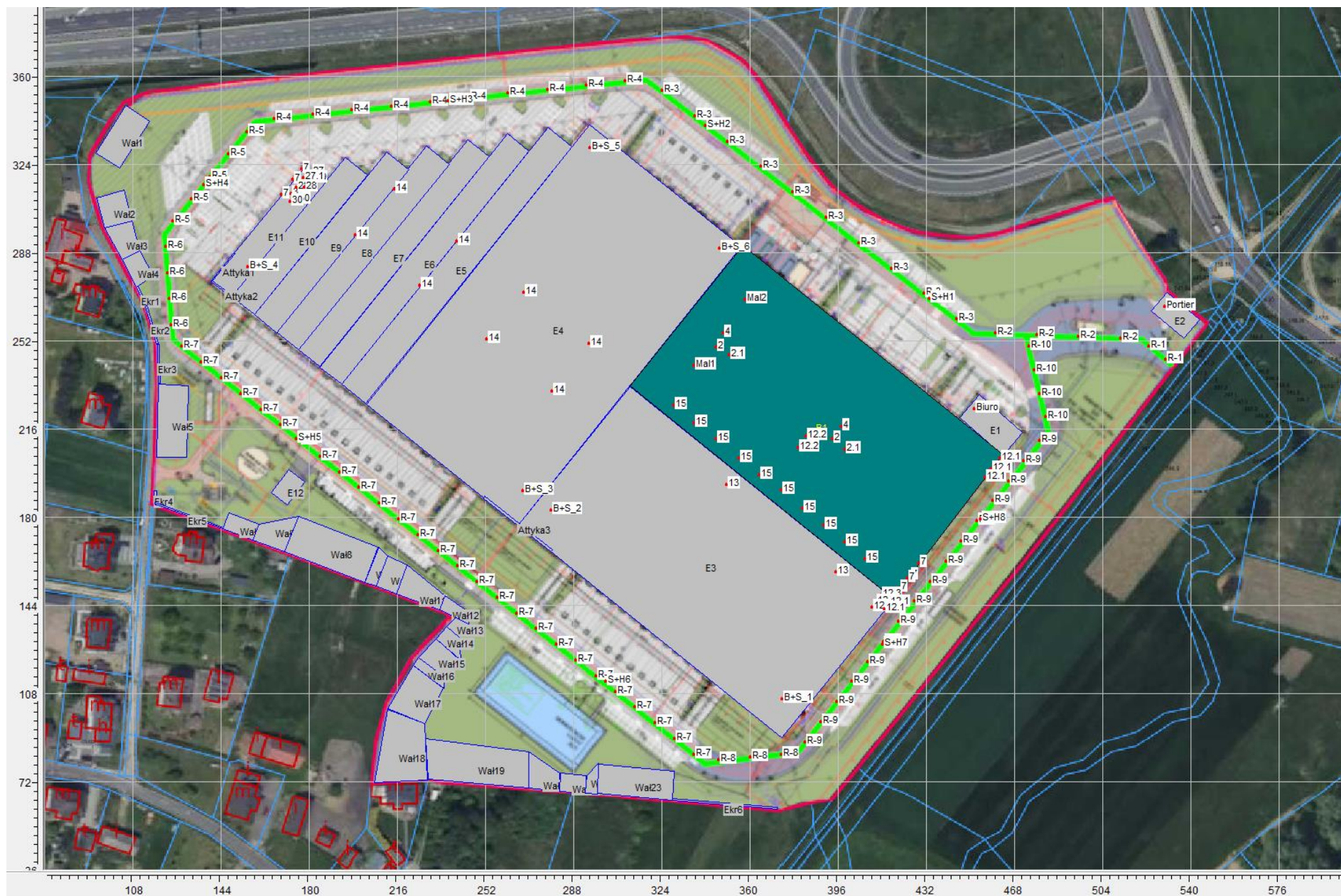
Program LEQ Professional w.6(2019) PN-ISO 9613-2 Prognozowanie hałasu przemysłowego
Autor : Włodzimierz Pelka SOFT-P - Piotrków Tryb., tel/fax (44)646 27 28, tel.kom. 0600 804 654

Program LEQ Professional w.6(2019)

Wydruk wyników obliczeń

Projekt :

Nr pkt.	X [m]	Y [m]	z [m]	Leq [dB(A)]
1	95.5	268.1	1.5	35.8
2	95.5	268.1	4.5	38.5
3	106.1	268.7	4.0	38.3
4	107.0	236.4	1.5	36.5
5	104.3	238.0	4.5	38.3
6	97.1	220.7	1.5	35.3
7	97.1	220.7	4.5	37.4
8	113.1	225.8	4.0	38.2
9	98.4	165.7	1.5	36.1
10	98.4	165.7	4.5	36.5
11	109.3	164.7	4.0	35.9
12	132.0	173.4	1.5	34.0
13	132.0	173.4	4.5	37.9
14	133.9	177.8	4.0	38.5
15	98.4	133.0	1.5	35.1
16	98.4	133.0	4.5	36.0
17	106.7	140.4	4.0	36.0
18	124.6	114.5	1.5	35.3
19	124.6	114.5	4.5	36.5
20	135.8	150.0	4.0	37.0
21	155.4	70.3	1.5	35.6
22	155.4	70.3	4.5	36.7
23	159.5	78.3	4.0	36.7
24	215.5	71.0	1.5	27.4
25	215.5	71.0	4.5	37.4
26	215.5	71.0	4.0	37.1
27	203.0	31.3	1.5	36.0
28	203.0	31.3	4.5	36.9
29	204.0	52.4	4.0	37.0
30	616.0	196.7	1.5	37.3
31	616.0	196.7	4.5	39.4
32	606.3	195.4	4.0	39.6



Rysunek 5 Pan sytuacyjny – pora nocy (wariant 1)



Rysunek 6 Izofony w porze nocy (wariant 1)

4. Pora nocy – wariant 2

Program LEQ Professional v. 6-2019 dla Windows

Dane do obliczeń :

Współczynnik gruntu (całego obszaru analizy)-global G = 0.000

Temperatura otoczenia 10[°C]

Źródła punktowe

Nr	X[m]	Y[m]	z[m]	Pma	Symbol
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1	451.7	224.0	9.0	89.1	Biuro
2	529.5	265.6	6.0	76.2	Portier
3	373.2	105.5	16.0	83.7	B+S_1
4	279.1	182.4	16.0	83.7	B+S_2
5	267.4	190.6	16.0	83.7	B+S_3
6	155.2	281.7	16.0	83.7	B+S_4
7	295.0	330.3	16.0	83.7	B+S_5
8	347.8	289.4	16.0	83.7	B+S_6
9	462.2	203.7	3.0	60.0	12.1
10	458.8	199.4	3.0	60.0	12.1
11	429.1	160.8	3.0	64.0	7
12	425.5	155.9	3.0	76.0	7
13	421.2	150.7	3.0	77.0	7
14	329.0	225.4	16.0	87.0	15
15	337.3	218.2	16.0	87.0	15
16	346.3	211.7	16.0	87.0	15
17	355.7	203.8	16.0	87.0	15

18 364.0 196.9 16.0 87.0 15
19 373.0 190.8 16.0 87.0 15
20 381.6 183.2 16.0 87.0 15
21 390.2 176.4 16.0 87.0 15
22 398.9 169.6 16.0 87.0 15
23 407.2 162.7 16.0 87.0 15
24 379.8 208.1 16.0 65.0 12.2
25 383.0 212.8 16.0 65.0 12.2
26 349.2 254.9 16.0 80.0 4
27 397.4 216.7 16.0 80.0 4
28 346.3 249.1 16.0 63.0 2
29 393.8 211.7 16.0 63.0 2
30 351.7 245.9 16.0 86.0 2.1
31 398.9 207.4 16.0 86.0 2.1
32 350.6 193.0 16.0 77.0 13
33 395.3 157.3 16.0 77.0 13
34 214.9 313.6 16.0 85.0 14
35 199.1 294.8 16.0 85.0 14
36 240.5 292.3 16.0 85.0 14
37 225.4 274.3 16.0 85.0 14
38 267.8 271.4 16.0 85.0 14
39 252.7 252.4 16.0 85.0 14
40 294.5 250.6 16.0 85.0 14
41 279.4 231.1 16.0 85.0 14
42 177.1 321.8 3.0 75.0 7
43 173.5 317.5 3.0 75.0 7
44 168.8 311.4 3.0 75.0 7
45 172.7 311.7 16.0 65.0 30
46 175.4 309.4 16.0 65.0 30
47 172.4 308.6 16.0 65.0 30
48 175.0 314.3 16.0 70.0 28

49	178.3	314.1	16.0	70.0	28
50	182.3	317.7	16.0	76.0	29
51	181.1	320.3	16.0	75.0	27
52	177.9	318.3	16.0	75.0	27.1
53	529.8	244.2	0.5	69.6	R-1
54	523.0	249.5	0.5	69.6	R-1
55	511.5	252.6	0.5	72.6	R-2
56	494.4	253.4	0.5	72.6	R-2
57	477.4	254.2	0.5	72.6	R-2
58	460.4	255.0	0.5	72.6	R-2
59	444.5	260.5	0.5	70.7	R-3
60	431.2	270.9	0.5	70.7	R-3
61	417.8	281.3	0.5	70.7	R-3
62	404.5	291.6	0.5	70.7	R-3
63	391.2	302.0	0.5	70.7	R-3
64	377.8	312.4	0.5	70.7	R-3
65	364.5	322.8	0.5	70.7	R-3
66	351.1	333.1	0.5	70.7	R-3
67	337.8	343.5	0.5	70.7	R-3
68	324.4	353.9	0.5	70.7	R-3
69	309.2	357.9	0.5	72.3	R-4
70	293.3	356.1	0.5	72.3	R-4
71	277.4	354.4	0.5	72.3	R-4
72	261.5	352.7	0.5	72.3	R-4
73	245.6	350.9	0.5	72.3	R-4
74	229.6	349.2	0.5	72.3	R-4
75	213.7	347.5	0.5	72.3	R-4
76	197.8	345.8	0.5	72.3	R-4
77	181.9	344.0	0.5	72.3	R-4
78	166.0	342.3	0.5	72.3	R-4
79	154.7	336.9	0.5	71.0	R-5

80	147.2	327.8	0.5	71.0	R-5
81	139.7	318.7	0.5	71.0	R-5
82	132.2	309.6	0.5	71.0	R-5
83	124.7	300.5	0.5	71.0	R-5
84	121.6	290.0	0.5	70.6	R-6
85	122.4	279.4	0.5	70.6	R-6
86	123.1	268.8	0.5	70.6	R-6
87	123.8	258.1	0.5	70.6	R-6
88	128.2	249.3	0.5	70.4	R-7
89	136.2	242.9	0.5	70.4	R-7
90	144.3	236.5	0.5	70.4	R-7
91	152.3	230.1	0.5	70.4	R-7
92	160.4	223.7	0.5	70.4	R-7
93	168.4	217.3	0.5	70.4	R-7
94	176.5	210.9	0.5	70.4	R-7
95	184.5	204.5	0.5	70.4	R-7
96	192.6	198.1	0.5	70.4	R-7
97	200.6	191.7	0.5	70.4	R-7
98	208.7	185.3	0.5	70.4	R-7
99	216.7	178.9	0.5	70.4	R-7
100	224.8	172.5	0.5	70.4	R-7
101	232.8	166.1	0.5	70.4	R-7
102	240.8	159.7	0.5	70.4	R-7
103	248.9	153.3	0.5	70.4	R-7
104	256.9	146.9	0.5	70.4	R-7
105	265.0	140.5	0.5	70.4	R-7
106	273.0	134.1	0.5	70.4	R-7
107	281.1	127.7	0.5	70.4	R-7
108	289.1	121.3	0.5	70.4	R-7
109	297.2	114.9	0.5	70.4	R-7
110	305.2	108.5	0.5	70.4	R-7

111	313.3	102.1	0.5	70.4	R-7
112	321.3	95.7	0.5	70.4	R-7
113	329.4	89.3	0.5	70.4	R-7
114	337.4	82.9	0.5	70.4	R-7
115	347.5	80.6	0.5	71.3	R-8
116	360.2	81.8	0.5	71.3	R-8
117	372.9	82.9	0.5	71.3	R-8
118	382.7	87.9	0.5	70.4	R-9
119	389.1	96.1	0.5	70.4	R-9
120	395.5	104.3	0.5	70.4	R-9
121	401.8	112.5	0.5	70.4	R-9
122	408.2	120.7	0.5	70.4	R-9
123	414.6	128.9	0.5	70.4	R-9
124	421.0	137.1	0.5	70.4	R-9
125	427.4	145.3	0.5	70.4	R-9
126	433.8	153.5	0.5	70.4	R-9
127	440.1	161.7	0.5	70.4	R-9
128	446.5	169.9	0.5	70.4	R-9
129	452.9	178.1	0.5	70.4	R-9
130	459.3	186.3	0.5	70.4	R-9
131	465.7	194.5	0.5	70.4	R-9
132	472.0	202.7	0.5	70.4	R-9
133	478.4	210.9	0.5	70.4	R-9
134	480.8	220.5	0.5	70.2	R-10
135	478.6	230.2	0.5	70.2	R-10
136	476.3	239.9	0.5	70.2	R-10
137	474.1	249.6	0.5	70.2	R-10
138	433.3	268.8	0.5	64.8	S+H1
139	342.1	339.5	0.5	74.9	S+H2
140	236.8	349.4	0.5	74.4	S+H3
141	137.3	315.5	0.5	73.4	S+H4

142	175.0	211.8	0.5	73.4	S+H5
143	301.4	112.6	0.5	72.7	S+H6
144	414.4	127.7	0.5	72.7	S+H7
145	454.4	178.9	0.5	72.7	S+H8
146	337.3	241.6	16.0	81.0	Mal1
147	358.2	268.6	16.0	81.0	Mal2
148	424.5	154.7	3.0	76.0	7
149	456.2	196.0	3.0	60.0	12.1
150	413.8	148.0	16.0	65.0	12.3
151	411.6	145.2	16.0	65.0	12.3
152	410.2	143.0	16.0	65.0	12.3
153	416.9	144.8	3.0	60.0	12.1
154	414.9	142.2	3.0	60.0	12.1

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Źródła typu hala produkcyjna :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	h0[m]	h[m]
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1	357.0	290.8	311.1	233.7	418.4	146.7	463.2	205.4	0.0	15.0
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POZIOMY HAŁASU i IZOLACYJNOŚĆ PRZEGRÓD

Nr źródła	A	63	125	250	500	1000	2000	4000	8000	wsp.odb.
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1	sc.1	L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
---	------	-------	------	-----	-----	-----	-----	-----	-----	-----	--------

	R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	sc.2	L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
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	R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	------	------	-----	-----	-----	-----	-----	-----	-----	-----

	sc.3	L wew	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0000
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	R sc	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	------	------	-----	-----	-----	-----	-----	-----	-----	-----

sc.4 Lwew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000

R sc 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

dach Lwew 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0000

R d 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

=====

Ekrany akustyczne :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr X1[m] Y1[m] X2[m] Y2[m] X3[m] Y3[m] X4[m] Y4[m] h0[m] h[m]

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1	453.5	229.9	445.5	220.6	463.3	205.3	471.3	214.6	0.0	8.0
2	530.3	271.8	523.9	264.2	537.0	253.0	543.5	260.6	0.0	5.0
3	311.1	233.4	265.4	176.8	373.0	90.0	418.6	146.6	0.0	15.0
4	356.5	290.6	294.6	340.2	203.3	226.2	265.2	176.7	0.0	15.0
5	287.2	331.1	203.0	226.3	193.3	234.2	277.4	339.0	0.0	15.0
6	269.8	329.5	193.2	234.2	184.4	241.2	261.0	336.6	0.0	15.0
7	253.5	327.2	184.4	241.4	175.8	248.3	244.9	334.0	0.0	15.0
8	237.1	324.1	175.7	248.3	166.6	255.6	228.0	331.5	0.0	15.0
9	220.8	321.8	166.7	255.4	157.7	262.8	211.8	329.2	0.0	15.0
10	203.8	319.5	157.6	262.8	148.4	269.9	194.8	326.8	0.0	15.0
11	186.6	316.6	148.4	269.9	140.0	276.4	178.4	323.3	0.0	15.0
12	109.5	273.9	110.0	274.3	113.7	266.6	113.0	266.2	0.0	4.0
13	113.0	266.2	117.8	250.6	118.6	250.8	113.8	266.4	0.0	4.0
14	117.9	250.5	118.4	234.6	119.0	234.5	118.7	250.7	0.0	4.0
15	116.8	190.7	117.8	190.7	117.8	186.2	116.8	186.2	0.0	4.0
16	116.9	185.4	144.8	175.3	145.0	175.8	117.1	186.0	0.0	4.0
17	328.2	64.4	371.2	61.0	371.3	61.7	328.3	65.0	0.0	4.0
18	105.0	348.1	92.7	328.7	102.5	322.5	114.8	341.8	0.0	3.0
19	93.2	310.3	96.6	298.0	107.7	301.0	104.3	313.4	0.0	3.0
20	96.6	298.0	103.7	285.0	110.9	288.6	107.7	301.0	0.0	3.0
21	103.7	285.0	109.6	273.9	116.4	278.6	111.0	288.6	0.0	3.0

22	118.5	234.5	117.7	204.3	130.1	204.4	130.6	233.8	0.0	3.0
23	144.8	175.4	157.1	170.6	159.6	177.1	147.3	181.8	0.0	2.0
24	159.6	177.1	157.1	170.6	169.9	166.1	175.7	180.2	0.0	3.0
25	175.7	180.2	169.9	166.0	202.8	153.5	208.2	167.7	0.0	4.0
26	208.3	167.7	202.8	153.4	207.4	151.8	212.1	164.1	0.0	3.8
27	212.1	164.1	207.3	151.8	215.7	148.8	220.1	160.5	0.0	3.5
28	220.1	160.5	215.7	148.7	233.2	142.2	235.6	148.0	0.0	3.0
29	235.6	147.9	233.2	142.2	245.0	136.6	244.5	142.0	0.0	2.5
30	239.6	139.1	236.2	135.5	241.0	131.2	244.9	136.6	0.0	2.5
31	236.3	135.5	232.0	130.2	241.8	121.8	241.1	131.2	0.0	3.0
32	231.9	130.2	224.6	122.6	235.2	114.8	241.7	121.8	0.0	3.5
33	224.6	122.6	222.6	119.5	234.9	110.2	235.2	114.8	0.0	3.8
34	222.6	119.4	212.2	101.8	227.0	95.8	234.8	110.2	0.0	4.0
35	212.2	101.6	206.5	71.8	228.4	72.8	227.0	95.8	0.0	4.0
36	227.5	89.8	269.6	84.3	269.5	69.4	228.5	72.9	0.0	4.0
37	269.6	84.3	269.5	69.3	282.1	67.9	282.4	75.5	0.0	3.0
38	282.5	75.5	282.1	67.9	292.7	67.4	293.1	74.6	0.0	2.0
39	293.3	74.6	298.2	79.5	297.7	67.1	292.7	67.4	0.0	2.8
40	328.2	64.5	297.7	67.2	298.2	79.3	329.2	76.2	0.0	3.5
41	171.7	199.3	164.6	190.2	171.1	185.2	178.1	194.3	0.0	4.5

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WSPÓŁCZYNNIKI ODBICIA DLA ŚCIAN

Nr	ściana 1	ściana 2	ściana 3	ściana 4	dach
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1	1.0000	1.0000	1.0000	1.0000	1.0000
2	1.0000	1.0000	1.0000	1.0000	1.0000
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000

7	1.0000	1.0000	1.0000	1.0000	1.0000
8	1.0000	1.0000	1.0000	1.0000	1.0000
9	1.0000	1.0000	1.0000	1.0000	1.0000
10	1.0000	1.0000	1.0000	1.0000	1.0000
11	1.0000	1.0000	1.0000	1.0000	1.0000
12	1.0000	1.0000	1.0000	1.0000	1.0000
13	1.0000	1.0000	1.0000	1.0000	1.0000
14	1.0000	1.0000	1.0000	1.0000	1.0000
15	1.0000	1.0000	1.0000	1.0000	1.0000
16	1.0000	1.0000	1.0000	1.0000	1.0000
17	1.0000	1.0000	1.0000	1.0000	1.0000
18	1.0000	1.0000	1.0000	1.0000	1.0000
19	1.0000	1.0000	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000	1.0000	1.0000
21	1.0000	1.0000	1.0000	1.0000	1.0000
22	1.0000	1.0000	1.0000	1.0000	1.0000
23	1.0000	1.0000	1.0000	1.0000	1.0000
24	1.0000	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000	1.0000
26	1.0000	1.0000	1.0000	1.0000	1.0000
27	1.0000	1.0000	1.0000	1.0000	1.0000
28	1.0000	1.0000	1.0000	1.0000	1.0000
29	1.0000	1.0000	1.0000	1.0000	1.0000
30	1.0000	1.0000	1.0000	1.0000	1.0000
31	1.0000	1.0000	1.0000	1.0000	1.0000
32	1.0000	1.0000	1.0000	1.0000	1.0000
33	1.0000	1.0000	1.0000	1.0000	1.0000
34	1.0000	1.0000	1.0000	1.0000	1.0000
35	1.0000	1.0000	1.0000	1.0000	1.0000
36	1.0000	1.0000	1.0000	1.0000	1.0000
37	1.0000	1.0000	1.0000	1.0000	1.0000

38	1.0000	1.0000	1.0000	1.0000	1.0000
39	1.0000	1.0000	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000	1.0000
41	1.0000	1.0000	1.0000	1.0000	1.0000

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Punkty obserwacji

Nr	Symbol	X[m]	Y[m]	z[m]
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1	P1	95.5	268.1	1.5
2	P2	95.5	268.1	4.5
3	P3	106.1	268.7	4.0
4	P4	107.0	236.4	1.5
5	P5	104.3	238.0	4.5
6	P6	97.1	220.7	1.5
7	P7	97.1	220.7	4.5
8	P8	113.1	225.8	4.0
9	P9	98.4	165.7	1.5
10	P10	98.4	165.7	4.5
11	P11	109.3	164.7	4.0
12	P12	132.0	173.4	1.5
13	P13	132.0	173.4	4.5
14	P14	133.9	177.8	4.0
15	P15	98.4	133.0	1.5
16	P16	98.4	133.0	4.5
17	P17	106.7	140.4	4.0
18	P18	124.6	114.5	1.5
19	P19	124.6	114.5	4.5
20	P20	135.8	150.0	4.0
21	P21	155.4	70.3	1.5
22	P22	155.4	70.3	4.5

23	P23	159.5	78.3	4.0
24	P24	215.5	71.0	1.5
25	P25	215.5	71.0	4.5
26	P26	215.5	71.0	4.0
27	P27	203.0	31.3	1.5
28	P28	203.0	31.3	4.5
29	P29	204.0	52.4	4.0
30	P30	616.0	196.7	1.5
31	P31	616.0	196.7	4.5
32	P32	606.3	195.4	4.0

Obszary o innym niż globalny współczynniku gruntu G :

WSPÓŁRZĘDNE WIERZCHOŁKÓW :

Nr	X1[m]	Y1[m]	X2[m]	Y2[m]	X3[m]	Y3[m]	X4[m]	Y4[m]	wsp.G
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1	250.1	190.1	234.4	171.5	268.0	144.0	282.7	162.2	1.000
2	151.8	221.4	242.1	147.5	238.2	140.2	121.8	183.4	1.000
3	147.6	225.8	128.8	200.6	118.4	202.8	119.4	249.6	1.000
4	129.2	283.0	148.0	268.0	133.6	250.0	128.0	253.6	1.000
5	121.0	248.2	117.6	296.6	90.6	315.4	97.0	296.0	1.000
6	90.6	315.4	117.8	296.8	161.6	353.6	111.2	350.8	1.000
7	241.6	144.6	206.8	72.2	330.2	64.6	339.8	77.8	1.000
8	238.1	138.2	221.4	122.2	210.9	102.6	206.1	71.6	1.000
9	555.7	270.6	393.4	63.4	544.3	13.2	617.8	233.2	1.000
10	510.4	245.5	367.0	60.7	393.4	62.0	528.9	237.2	1.000

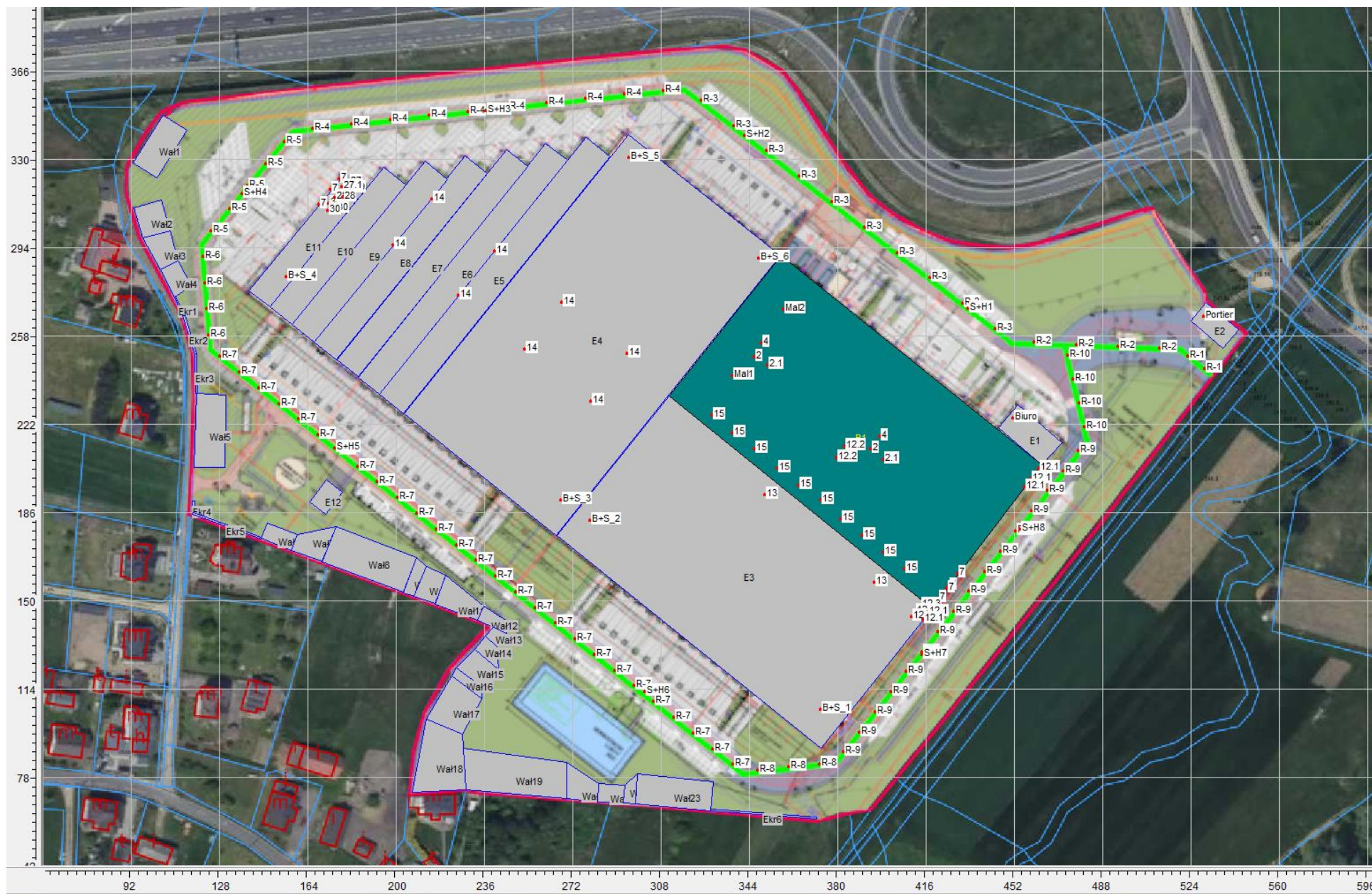
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Program LEQ Professional w.6(2019)

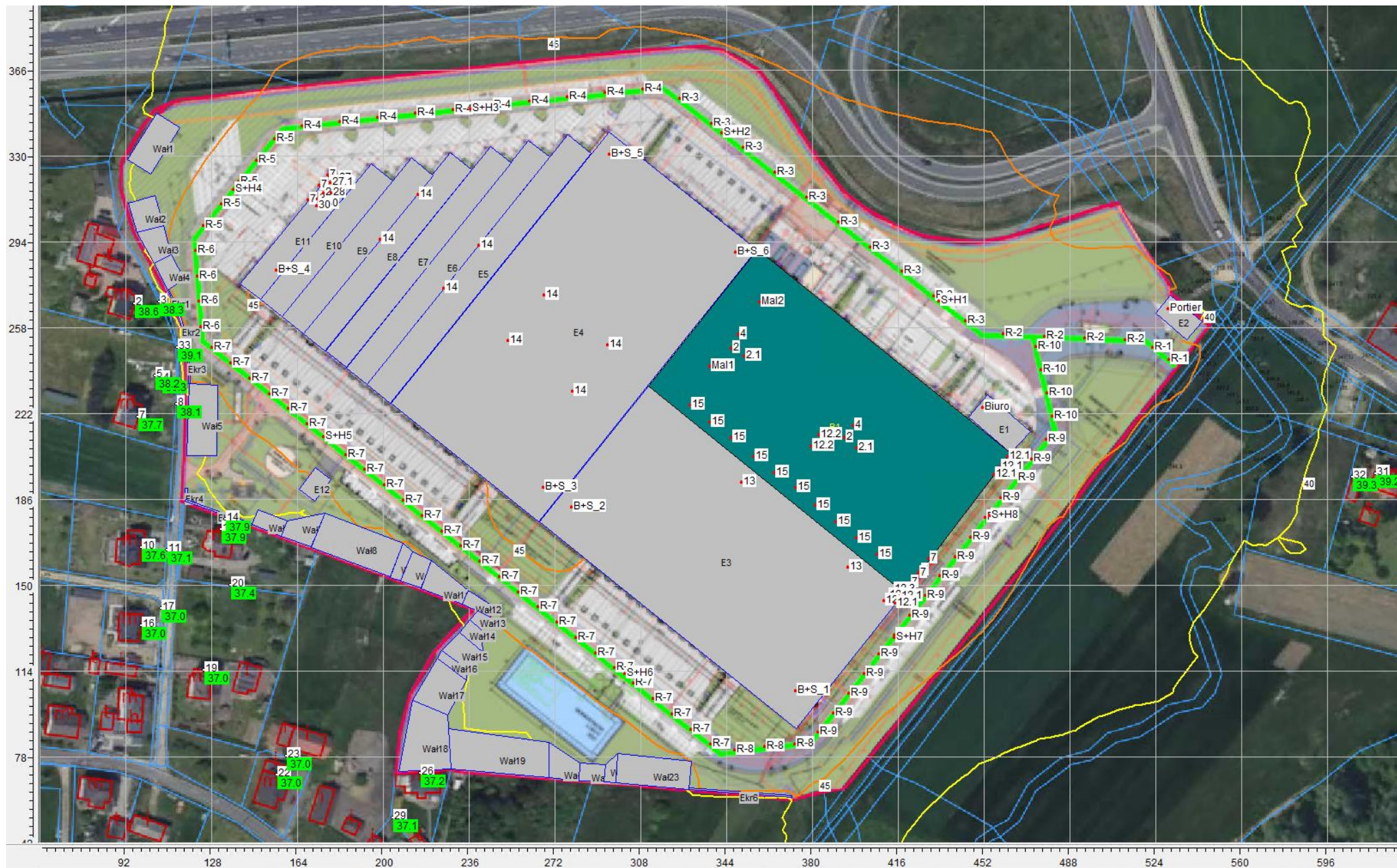
Wydruk wyników obliczeń

Projekt :

Nr pkt.	X [m]	Y [m]	z [m]	Leq [dB(A)]
1	95.5	268.1	1.5	35.4
2	95.5	268.1	4.5	38.6
3	106.1	268.7	4.0	38.3
4	107.0	236.4	1.5	36.3
5	104.3	238.0	4.5	38.2
6	97.1	220.7	1.5	35.5
7	97.1	220.7	4.5	37.7
8	113.1	225.8	4.0	38.1
9	98.4	165.7	1.5	37.0
10	98.4	165.7	4.5	37.6
11	109.3	164.7	4.0	37.1
12	132.0	173.4	1.5	34.6
13	132.0	173.4	4.5	37.9
14	133.9	177.8	4.0	37.9
15	98.4	133.0	1.5	36.1
16	98.4	133.0	4.5	37.0
17	106.7	140.4	4.0	37.0
18	124.6	114.5	1.5	35.8
19	124.6	114.5	4.5	37.0
20	135.8	150.0	4.0	37.4
21	155.4	70.3	1.5	35.9
22	155.4	70.3	4.5	37.0
23	159.5	78.3	4.0	37.0
24	215.5	71.0	1.5	25.9
25	215.5	71.0	4.5	37.6
26	215.5	71.0	4.0	37.2
27	203.0	31.3	1.5	35.7
28	203.0	31.3	4.5	37.0
29	204.0	52.4	4.0	37.1
30	616.0	196.7	1.5	36.9
31	616.0	196.7	4.5	39.2
32	606.3	195.4	4.0	39.3



Rysunek 7 Plan sytuacyjny – pora nocy (wariant 2)



Rysunek 8 Izofony w porze nocy (wariant 2)