Z.U.O. "EKO - SOFT"

Łódź ul. Rogozińskiego 17/7

tel. 042 648 71 85

HAŁAS PRZEMYSŁOWY i DROGOWY

PROGRAM SON2 WERSJA 3.2

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Właściciel licencji: Zielony Szlak

Licencja nr UD/09140/S12/08 z dnia 13.03.2008

DANE WEJSCIOWE

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Rodzaj obliczeń: Poziom hałasu równownoważnego

1. Nazwa projektu: Eksp kopalni kruszywa posp msc .Lisewo gm Płońsk Dz Nr ewid. 187, 188, 190

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 porowaty, wskaźnik gruntu G = 1

6. Punktowe źródła hałasu

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Lp | Symbol | Współrzędne źródła | Rodzaj | LAW | tD | tN | Do |

| | x y z | źródła | | | | |

-------------------------|------------------------------|----------------|------|------|------|------|

| | m m m | |dB(A) | h | h | dB |

======================================================================================================

1 Ze 459.2 296.9 1.5 wszechkier. 105.0 1.976

7. Liniowe źródła hałasu

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| Lp | Symbol | Początek | Koniec | LAW | tD | tN | D0 |

| | | x1 y1 z1| x2 y2 z2| | | | |

|-------------------------|---------------------------|---------------------------|-------|----|----|----|

| | | m m m | m m m | dB(A) | h | h | dB |

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1 L1-2 385.6 1127.8 1.0 397.5 317.8 1.0 105.0 3.250

2 L2-3 397.5 317.8 1.0 454.2 298.2 1.0 105.0 0.239

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

Koniec danych

LAeq , dzień

0 15 30 45 60

75 90 105 120 135

150 165 180 195 210

225 240 255 270 285

300 315 330 345 360

375 390 405 420 435

450 465 480 495 510

525 540 555 570 585

600 615 630 645 660

675 690 705 720 735

750 765 780 795 810

825 840 855 870 885

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1260 | 20.6 20.8 21.0 21.2 21.4

| 21.6 21.8 22.0 22.2 22.4

| 22.6 22.8 23.0 23.3 23.5

| 23.7 23.9 24.2 24.4 24.6

| 24.8 25.0 25.2 25.4 25.5

| 25.5 25.5 25.5 25.4 25.3

| 25.1 25.0 24.8 24.6 24.3

| 24.1 23.9 23.7 23.5 23.2

| 23.0 22.8 22.6 22.4 22.2

| 22.1 21.8 21.7 21.5 21.3

| 21.1 21.0 20.8 20.6 20.4

| 20.3 20.1 19.9 19.8 19.6

1245 | 20.8 21.0 21.2 21.4 21.6

| 21.8 22.0 22.2 22.4 22.7

| 22.9 23.1 23.3 23.6 23.8

| 24.1 24.3 24.6 24.8 25.1

| 25.4 25.6 25.8 26.0 26.2

| 26.2 26.3 26.2 26.1 25.9

| 25.7 25.5 25.3 25.0 24.7

| 24.5 24.2 24.0 23.8 23.5

| 23.3 23.1 22.9 22.7 22.5

| 22.3 22.1 21.9 21.7 21.5

| 21.3 21.2 21.0 20.8 20.6

| 20.4 20.2 20.1 19.9 19.7

1230 | 21.0 21.2 21.4 21.6 21.8

| 22.0 22.2 22.4 22.7 22.9

| 23.1 23.4 23.6 23.9 24.1

| 24.4 24.7 25.0 25.3 25.6

| 25.9 26.2 26.5 26.8 27.0

| 27.1 27.1 27.0 26.9 26.7

| 26.4 26.1 25.8 25.5 25.2

| 24.9 24.6 24.4 24.1 23.8

| 23.6 23.4 23.1 22.9 22.7

| 22.5 22.3 22.1 21.9 21.7

| 21.5 21.3 21.2 21.0 20.8

| 20.6 20.4 20.3 20.1 19.9

1215 | 21.2 21.4 21.6 21.8 22.0

| 22.2 22.4 22.7 22.9 23.1

| 23.4 23.6 23.9 24.2 24.5

| 24.8 25.1 25.4 25.8 26.2

| 26.5 26.9 27.3 27.6 27.9

| 28.1 28.1 28.0 27.8 27.5

| 27.1 26.7 26.4 26.0 25.7

| 25.3 25.0 24.7 24.4 24.1

| 23.9 23.6 23.4 23.1 22.9

| 22.7 22.5 22.3 22.1 21.9

| 21.7 21.5 21.3 21.1 21.0

| 20.8 20.6 20.4 20.3 20.1

1200 | 21.4 21.6 21.8 22.0 22.2

| 22.4 22.6 22.9 23.1 23.4

| 23.6 23.9 24.2 24.5 24.8

| 25.1 25.5 25.9 26.3 26.7

| 27.2 27.7 28.2 28.7 29.1

| 29.4 29.4 29.3 28.9 28.5

| 28.0 27.5 27.0 26.5 26.1

| 25.7 25.4 25.0 24.7 24.4

| 24.2 23.9 23.6 23.4 23.2

| 22.9 22.7 22.5 22.3 22.1

| 21.9 21.7 21.5 21.3 21.1

| 20.9 20.8 20.6 20.4 20.2

1185 | 21.5 21.7 22.0 22.2 22.4

| 22.6 22.9 23.1 23.4 23.6

| 23.9 24.2 24.5 24.8 25.1

| 25.5 25.9 26.3 26.8 27.3

| 27.9 28.6 29.3 30.0 30.6

| 31.1 31.1 30.9 30.3 29.6

| 28.9 28.3 27.6 27.1 26.6

| 26.2 25.8 25.4 25.0 24.7

| 24.4 24.1 23.9 23.6 23.4

| 23.2 22.9 22.7 22.5 22.3

| 22.1 21.9 21.7 21.5 21.3

| 21.1 21.0 20.8 20.6 20.4

1170 | 21.7 21.9 22.1 22.4 22.6

| 22.8 23.1 23.3 23.6 23.8

| 24.1 24.4 24.7 25.1 25.5

| 25.9 26.3 26.8 27.3 28.0

| 28.7 29.5 30.5 31.6 32.6

| 33.4 33.6 33.0 32.1 31.0

| 30.0 29.1 28.3 27.7 27.1

| 26.6 26.1 25.7 25.4 25.0

| 24.7 24.4 24.1 23.9 23.6

| 23.4 23.1 22.9 22.7 22.5

| 22.3 22.0 21.9 21.7 21.5

| 21.3 21.1 20.9 20.7 20.6

1155 | 21.9 22.1 22.3 22.5 22.8

| 23.0 23.3 23.5 23.8 24.1

| 24.4 24.7 25.0 25.4 25.8

| 26.2 26.7 27.2 27.9 28.6

| 29.5 30.6 31.9 33.5 35.3

| 37.0 37.4 36.1 34.3 32.6

| 31.1 30.0 29.0 28.2 27.6

| 27.0 26.5 26.1 25.7 25.3

| 25.0 24.6 24.4 24.1 23.8

| 23.6 23.3 23.1 22.9 22.7

| 22.4 22.2 22.0 21.8 21.6

| 21.5 21.3 21.1 20.9 20.7

1140 | 22.0 22.3 22.5 22.7 23.0

| 23.2 23.4 23.7 24.0 24.3

| 24.6 24.9 25.3 25.7 26.1

| 26.5 27.1 27.7 28.4 29.2

| 30.2 31.5 33.3 35.5 38.7

| 42.6 44.0 40.3 36.8 34.2

| 32.3 30.8 29.7 28.8 28.1

| 27.4 26.9 26.4 26.0 25.6

| 25.2 24.9 24.6 24.3 24.0

| 23.8 23.5 23.3 23.1 22.8

| 22.6 22.4 22.2 22.0 21.8

| 21.6 21.4 21.2 21.0 20.8

1125 | 22.2 22.4 22.6 22.9 23.1

| 23.4 23.6 23.9 24.2 24.5

| 24.8 25.2 25.5 25.9 26.4

| 26.9 27.4 28.1 28.8 29.8

| 30.9 32.4 34.5 37.4 41.7

| 49.3 56.0 44.3 39.1 35.7

| 33.3 31.6 30.3 29.3 28.5

| 27.8 27.2 26.7 26.3 25.9

| 25.5 25.2 24.8 24.5 24.2

| 24.0 23.7 23.5 23.2 23.0

| 22.8 22.6 22.4 22.2 21.9

| 21.8 21.6 21.4 21.2 21.0

1110 | 22.3 22.6 22.8 23.0 23.3

| 23.5 23.8 24.1 24.4 24.7

| 25.0 25.4 25.8 26.2 26.6

| 27.1 27.7 28.4 29.2 30.2

| 31.5 33.2 35.4 38.5 43.2

| 50.9 57.5 46.1 40.4 36.7

| 34.2 32.3 30.9 29.8 28.9

| 28.1 27.5 27.0 26.5 26.1

| 25.7 25.4 25.0 24.7 24.5

| 24.2 23.9 23.6 23.4 23.2

| 23.0 22.7 22.5 22.3 22.1

| 21.9 21.7 21.5 21.3 21.2

1095 | 22.5 22.7 22.9 23.2 23.5

| 23.7 24.0 24.3 24.6 24.9

| 25.2 25.6 26.0 26.4 26.9

| 27.4 28.0 28.7 29.6 30.6

| 32.0 33.7 36.0 39.1 43.6

| 51.0 57.9 46.6 41.1 37.4

| 34.7 32.8 31.3 30.1 29.2

| 28.5 27.8 27.2 26.8 26.3

| 25.9 25.6 25.2 24.9 24.6

| 24.4 24.1 23.9 23.6 23.4

| 23.1 22.9 22.7 22.5 22.3

| 22.1 21.9 21.7 21.5 21.3

1080 | 22.6 22.9 23.1 23.4 23.6

| 23.9 24.2 24.4 24.8 25.1

| 25.4 25.8 26.2 26.6 27.1

| 27.6 28.3 29.0 29.9 31.0

| 32.3 34.0 36.3 39.4 43.8

| 50.9 58.3 46.8 41.4 37.8

| 35.1 33.2 31.7 30.5 29.5

| 28.7 28.1 27.5 27.0 26.5

| 26.1 25.8 25.4 25.1 24.8

| 24.5 24.3 24.0 23.8 23.5

| 23.3 23.1 22.8 22.6 22.4

| 22.2 22.0 21.8 21.6 21.4

1065 | 22.8 23.0 23.3 23.5 23.8

| 24.0 24.3 24.6 24.9 25.2

| 25.6 26.0 26.4 26.8 27.3

| 27.9 28.5 29.2 30.1 31.2

| 32.6 34.3 36.5 39.5 43.8

| 50.8 58.6 47.0 41.6 38.0

| 35.4 33.5 31.9 30.7 29.8

| 29.0 28.3 27.7 27.2 26.7

| 26.3 25.9 25.6 25.3 25.0

| 24.7 24.4 24.2 23.9 23.7

| 23.5 23.2 23.0 22.8 22.6

| 22.4 22.2 22.0 21.8 21.6

1050 | 22.9 23.1 23.4 23.6 23.9

| 24.2 24.5 24.8 25.1 25.4

| 25.7 26.1 26.5 27.0 27.5

| 28.0 28.7 29.4 30.3 31.4

| 32.7 34.4 36.6 39.6 43.8

| 50.7 59.0 47.1 41.7 38.2

| 35.6 33.7 32.2 31.0 30.0

| 29.2 28.5 27.9 27.4 26.9

| 26.5 26.1 25.8 25.4 25.1

| 24.8 24.6 24.3 24.1 23.8

| 23.6 23.4 23.2 23.0 22.8

| 22.6 22.3 22.1 21.9 21.7

1035 | 23.1 23.3 23.5 23.8 24.0

| 24.3 24.6 24.9 25.2 25.5

| 25.9 26.3 26.7 27.1 27.6

| 28.2 28.9 29.6 30.5 31.6

| 32.9 34.5 36.7 39.6 43.7

| 50.5 59.4 47.2 41.9 38.3

| 35.8 33.8 32.4 31.2 30.2

| 29.4 28.7 28.1 27.5 27.1

| 26.6 26.3 25.9 25.6 25.3

| 25.0 24.7 24.4 24.2 24.0

| 23.7 23.5 23.3 23.1 22.9

| 22.7 22.5 22.3 22.0 21.9

1020 | 23.2 23.4 23.7 23.9 24.2

| 24.4 24.7 25.0 25.3 25.7

| 26.0 26.4 26.8 27.3 27.8

| 28.4 29.0 29.8 30.6 31.7

| 33.0 34.6 36.7 39.6 43.7

| 50.4 59.8 47.4 41.9 38.4

| 35.9 34.0 32.5 31.3 30.3

| 29.5 28.8 28.2 27.7 27.2

| 26.8 26.4 26.1 25.7 25.4

| 25.1 24.8 24.6 24.3 24.1

| 23.9 23.6 23.4 23.2 23.0

| 22.8 22.6 22.4 22.2 22.0

1005 | 23.3 23.5 23.8 24.0 24.3

| 24.6 24.8 25.1 25.5 25.8

| 26.2 26.5 27.0 27.4 27.9

| 28.5 29.1 29.9 30.7 31.8

| 33.1 34.7 36.8 39.6 43.6

| 50.3 60.2 47.5 42.0 38.5

| 36.0 34.1 32.6 31.4 30.5

| 29.7 29.0 28.4 27.8 27.4

| 26.9 26.6 26.2 25.9 25.5

| 25.3 25.0 24.7 24.5 24.2

| 24.0 23.8 23.5 23.3 23.1

| 22.9 22.7 22.5 22.4 22.2

990 | 23.4 23.6 23.9 24.1 24.4

| 24.7 25.0 25.3 25.6 25.9

| 26.3 26.7 27.1 27.5 28.0

| 28.6 29.2 30.0 30.8 31.9

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| 50.1 60.7 47.6 42.1 38.6

| 36.1 34.2 32.7 31.6 30.6

| 29.8 29.1 28.5 28.0 27.5

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| 25.4 25.1 24.8 24.6 24.3

| 24.1 23.9 23.7 23.4 23.2

| 23.0 22.8 22.7 22.5 22.3

975 | 23.5 23.7 24.0 24.2 24.5

| 24.8 25.1 25.4 25.7 26.0

| 26.4 26.8 27.2 27.6 28.1

| 28.7 29.3 30.1 30.9 31.9

| 33.2 34.7 36.8 39.5 43.5

| 50.0 61.2 47.7 42.2 38.6

| 36.1 34.3 32.8 31.7 30.7

| 29.9 29.2 28.6 28.1 27.6

| 27.2 26.8 26.5 26.1 25.8

| 25.5 25.2 25.0 24.7 24.5

| 24.2 24.0 23.8 23.6 23.4

| 23.2 23.0 22.8 22.6 22.4

960 | 23.6 23.8 24.1 24.3 24.6

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| 26.5 26.9 27.3 27.7 28.2

| 28.8 29.4 30.1 31.0 32.0

| 33.2 34.7 36.8 39.5 43.4

| 49.9 61.8 47.8 42.2 38.7

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| 25.6 25.3 25.1 24.8 24.6

| 24.3 24.1 23.9 23.7 23.5

| 23.3 23.1 22.9 22.7 22.5

945 | 23.7 23.9 24.2 24.4 24.7

| 25.0 25.3 25.6 25.9 26.2

| 26.6 27.0 27.4 27.8 28.3

| 28.9 29.5 30.2 31.0 32.0

| 33.2 34.8 36.7 39.5 43.4

| 49.7 62.3 47.9 42.3 38.8

| 36.2 34.4 33.0 31.8 30.9

| 30.1 29.4 28.8 28.3 27.9

| 27.4 27.0 26.7 26.4 26.0

| 25.7 25.5 25.2 24.9 24.7

| 24.5 24.2 24.0 23.8 23.6

| 23.4 23.2 23.0 22.8 22.6

930 | 23.8 24.0 24.3 24.5 24.8

| 25.1 25.4 25.7 26.0 26.3

| 26.7 27.1 27.5 27.9 28.4

| 29.0 29.6 30.3 31.1 32.1

| 33.3 34.8 36.7 39.4 43.3

| 49.6 63.0 48.0 42.4 38.8

| 36.3 34.5 33.0 31.9 31.0

| 30.2 29.5 28.9 28.4 28.0

| 27.5 27.2 26.8 26.5 26.2

| 25.9 25.6 25.3 25.1 24.8

| 24.6 24.3 24.1 23.9 23.7

| 23.5 23.3 23.1 22.9 22.7

915 | 23.9 24.1 24.4 24.6 24.9

| 25.2 25.5 25.8 26.1 26.4

| 26.8 27.1 27.6 28.0 28.5

| 29.0 29.6 30.3 31.1 32.1

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| 49.5 63.7 48.1 42.5 38.9

| 36.4 34.5 33.1 32.0 31.0

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| 24.7 24.4 24.2 24.0 23.8

| 23.6 23.4 23.2 23.0 22.8

900 | 24.0 24.2 24.5 24.7 25.0

| 25.3 25.5 25.8 26.2 26.5

| 26.9 27.2 27.6 28.1 28.6

| 29.1 29.7 30.4 31.2 32.1

| 33.3 34.8 36.7 39.3 43.2

| 49.4 64.5 48.2 42.5 38.9

| 36.4 34.6 33.1 32.0 31.1

| 30.3 29.7 29.1 28.6 28.2

| 27.7 27.4 27.0 26.7 26.4

| 26.1 25.8 25.5 25.3 25.0

| 24.8 24.6 24.3 24.1 23.9

| 23.7 23.5 23.3 23.1 22.9

885 | 24.1 24.3 24.5 24.8 25.1

| 25.3 25.6 25.9 26.3 26.6

| 26.9 27.3 27.7 28.1 28.6

| 29.2 29.7 30.4 31.2 32.2

| 33.3 34.8 36.7 39.3 43.1

| 49.2 65.4 48.4 42.6 39.0

| 36.5 34.6 33.2 32.1 31.2

| 30.4 29.8 29.2 28.7 28.2

| 27.8 27.5 27.1 26.8 26.5

| 26.2 25.9 25.6 25.4 25.1

| 24.9 24.7 24.4 24.2 24.0

| 23.8 23.6 23.4 23.2 23.0

870 | 24.1 24.4 24.6 24.9 25.2

| 25.4 25.7 26.0 26.3 26.7

| 27.0 27.4 27.8 28.2 28.7

| 29.2 29.8 30.5 31.3 32.2

| 33.3 34.8 36.7 39.3 43.0

| 49.1 66.4 48.5 42.7 39.0

| 36.5 34.7 33.3 32.1 31.2

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| 26.3 26.0 25.7 25.5 25.2

| 25.0 24.8 24.5 24.3 24.1

| 23.9 23.7 23.5 23.3 23.1

855 | 24.2 24.5 24.7 25.0 25.2

| 25.5 25.8 26.1 26.4 26.7

| 27.1 27.5 27.9 28.3 28.7

| 29.3 29.8 30.5 31.3 32.2

| 33.3 34.8 36.7 39.2 43.0

| 49.0 67.5 48.6 42.7 39.1

| 36.6 34.7 33.3 32.2 31.3

| 30.6 29.9 29.4 28.9 28.4

| 28.0 27.6 27.3 27.0 26.7

| 26.4 26.1 25.8 25.6 25.3

| 25.1 24.9 24.7 24.4 24.2

| 24.0 23.8 23.6 23.4 23.2

840 | 24.3 24.5 24.8 25.0 25.3

| 25.6 25.9 26.2 26.5 26.8

| 27.2 27.5 27.9 28.3 28.8

| 29.3 29.9 30.6 31.3 32.2

| 33.4 34.8 36.6 39.2 42.9

| 48.9 68.4 48.7 42.8 39.1

| 36.6 34.8 33.4 32.3 31.4

| 30.6 30.0 29.4 29.0 28.5

| 28.1 27.7 27.4 27.1 26.8

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| 25.2 25.0 24.8 24.5 24.3

| 24.1 23.9 23.7 23.5 23.3

825 | 24.4 24.6 24.9 25.1 25.4

| 25.7 26.0 26.2 26.6 26.9

| 27.2 27.6 28.0 28.4 28.9

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| 48.8 62.4 48.8 42.9 39.2

| 36.7 34.8 33.4 32.3 31.4

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| 25.3 25.1 24.9 24.6 24.4

| 24.2 24.0 23.8 23.6 23.4

810 | 24.4 24.7 24.9 25.2 25.5

| 25.7 26.0 26.3 26.6 27.0

| 27.3 27.7 28.0 28.5 28.9

| 29.4 30.0 30.6 31.4 32.3

| 33.4 34.8 36.6 39.1 42.8

| 48.7 68.0 48.9 42.9 39.2

| 36.7 34.9 33.5 32.4 31.5

| 30.8 30.1 29.6 29.1 28.7

| 28.3 27.9 27.6 27.3 27.0

| 26.7 26.4 26.2 25.9 25.7

| 25.4 25.2 25.0 24.7 24.5

| 24.3 24.1 23.9 23.7 23.5

795 | 24.5 24.8 25.0 25.3 25.5

| 25.8 26.1 26.4 26.7 27.0

| 27.4 27.7 28.1 28.5 29.0

| 29.5 30.0 30.7 31.4 32.3

| 33.4 34.8 36.6 39.1 42.7

| 48.5 67.0 49.1 43.0 39.3

| 36.7 34.9 33.5 32.4 31.5

| 30.8 30.2 29.7 29.2 28.8

| 28.4 28.0 27.7 27.4 27.1

| 26.8 26.5 26.3 26.0 25.8

| 25.5 25.3 25.1 24.9 24.6

| 24.4 24.2 24.0 23.8 23.6

780 | 24.6 24.8 25.1 25.3 25.6

| 25.9 26.2 26.5 26.8 27.1

| 27.4 27.8 28.2 28.6 29.0

| 29.5 30.1 30.7 31.4 32.3

| 33.4 34.8 36.6 39.1 42.7

| 48.4 66.0 49.2 43.1 39.4

| 36.8 34.9 33.6 32.5 31.6

| 30.9 30.3 29.8 29.3 28.9

| 28.5 28.1 27.8 27.5 27.2

| 26.9 26.6 26.4 26.1 25.9

| 25.6 25.4 25.2 25.0 24.7

| 24.5 24.3 24.1 23.9 23.7

765 | 24.7 24.9 25.2 25.4 25.7

| 26.0 26.2 26.5 26.8 27.2

| 27.5 27.9 28.2 28.6 29.1

| 29.6 30.1 30.7 31.5 32.3

| 33.4 34.8 36.6 39.0 42.6

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| 24.6 24.4 24.2 24.0 23.8

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| 24.7 24.5 24.3 24.1 23.9

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| 28.1 27.7 27.4 27.1 26.8

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| 28.2 27.9 27.5 27.2 26.9

| 26.6 26.3 26.0 25.8 25.5

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| 27.3 27.6 27.9 28.3 28.6

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| 28.3 28.0 27.7 27.3 27.0

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| 31.0 30.4 29.9 29.5 29.0

| 28.6 28.2 27.8 27.4 27.1

| 26.7 26.4 26.0 25.7 25.4

195 | 25.1 25.4 25.7 26.0 26.3

| 26.7 27.0 27.3 27.7 28.0

| 28.4 28.8 29.2 29.6 30.1

| 30.5 31.0 31.5 32.0 32.6

| 33.2 33.8 34.5 35.2 35.9

| 36.6 37.3 38.0 38.6 39.0

| 39.2 39.2 39.0 38.6 38.0

| 37.3 36.5 35.8 35.0 34.3

| 33.6 33.0 32.4 31.8 31.2

| 30.7 30.2 29.7 29.3 28.9

| 28.4 28.0 27.7 27.3 26.9

| 26.6 26.3 25.9 25.6 25.3

180 | 25.0 25.3 25.6 25.9 26.2

| 26.5 26.8 27.2 27.5 27.9

| 28.2 28.6 29.0 29.4 29.8

| 30.3 30.7 31.2 31.7 32.2

| 32.7 33.3 33.9 34.5 35.1

| 35.7 36.3 36.8 37.2 37.5

| 37.7 37.7 37.5 37.2 36.8

| 36.2 35.6 35.0 34.4 33.7

| 33.1 32.6 32.0 31.5 30.9

| 30.4 30.0 29.5 29.1 28.7

| 28.3 27.9 27.5 27.2 26.8

| 26.5 26.1 25.8 25.5 25.2

165 | 24.9 25.2 25.5 25.8 26.1

| 26.4 26.7 27.0 27.3 27.7

| 28.0 28.4 28.8 29.2 29.6

| 30.0 30.4 30.9 31.3 31.8

| 32.3 32.8 33.3 33.8 34.3

| 34.8 35.3 35.7 36.1 36.3

| 36.4 36.4 36.3 36.0 35.7

| 35.3 34.8 34.2 33.7 33.2

| 32.6 32.1 31.6 31.1 30.6

| 30.2 29.7 29.3 28.9 28.5

| 28.1 27.7 27.4 27.0 26.7

| 26.3 26.0 25.7 25.4 25.1

150 | 24.8 25.1 25.4 25.6 25.9

| 26.2 26.5 26.9 27.2 27.5

| 27.8 28.2 28.5 28.9 29.3

| 29.7 30.1 30.5 30.9 31.4

| 31.8 32.3 32.7 33.2 33.6

| 34.0 34.4 34.8 35.0 35.2

| 35.3 35.3 35.2 35.0 34.7

| 34.4 34.0 33.5 33.1 32.6

| 32.1 31.7 31.2 30.7 30.3

| 29.9 29.4 29.0 28.7 28.3

| 27.9 27.5 27.2 26.9 26.5

| 26.2 25.9 25.6 25.3 25.0

135 | 24.7 24.9 25.2 25.5 25.8

| 26.1 26.4 26.7 27.0 27.3

| 27.6 28.0 28.3 28.7 29.0

| 29.4 29.8 30.2 30.6 31.0

| 31.4 31.8 32.2 32.6 32.9

| 33.3 33.6 33.9 34.1 34.3

| 34.4 34.4 34.3 34.1 33.9

| 33.6 33.2 32.9 32.5 32.1

| 31.6 31.2 30.8 30.4 30.0

| 29.6 29.2 28.8 28.4 28.1

| 27.7 27.4 27.0 26.7 26.4

| 26.0 25.7 25.4 25.2 24.9

120 | 24.5 24.8 25.1 25.4 25.6

| 25.9 26.2 26.5 26.8 27.1

| 27.4 27.7 28.1 28.4 28.8

| 29.1 29.5 29.8 30.2 30.5

| 30.9 31.3 31.6 32.0 32.3

| 32.6 32.9 33.1 33.3 33.4

| 33.5 33.5 33.4 33.3 33.1

| 32.8 32.6 32.2 31.9 31.5

| 31.1 30.8 30.4 30.0 29.6

| 29.2 28.9 28.5 28.2 27.8

| 27.5 27.1 26.8 26.5 26.2

| 25.9 25.6 25.3 25.0 24.7

105 | 24.4 24.7 24.9 25.2 25.5

| 25.7 26.0 26.3 26.6 26.9

| 27.2 27.5 27.8 28.1 28.5

| 28.8 29.1 29.5 29.8 30.1

| 30.5 30.8 31.1 31.4 31.7

| 32.0 32.2 32.4 32.6 32.7

| 32.7 32.7 32.6 32.5 32.4

| 32.2 31.9 31.6 31.3 31.0

| 30.7 30.3 30.0 29.6 29.3

| 28.9 28.6 28.3 27.9 27.6

| 27.3 26.9 26.6 26.3 26.0

| 25.7 25.4 25.2 24.9 24.6

90 | 24.3 24.5 24.8 25.0 25.3

| 25.6 25.8 26.1 26.4 26.7

| 27.0 27.3 27.6 27.9 28.2

| 28.5 28.8 29.1 29.4 29.7

| 30.0 30.3 30.6 30.9 31.1

| 31.4 31.6 31.7 31.9 32.0

| 32.0 32.0 31.9 31.8 31.7

| 31.5 31.3 31.1 30.8 30.5

| 30.2 29.9 29.6 29.3 28.9

| 28.6 28.3 28.0 27.7 27.3

| 27.0 26.7 26.4 26.1 25.8

| 25.6 25.3 25.0 24.7 24.5

75 | 24.1 24.4 24.6 24.9 25.1

| 25.4 25.7 25.9 26.2 26.5

| 26.8 27.0 27.3 27.6 27.9

| 28.2 28.5 28.8 29.0 29.3

| 29.6 29.9 30.1 30.4 30.6

| 30.8 31.0 31.1 31.2 31.3

| 31.4 31.3 31.3 31.2 31.1

| 30.9 30.7 30.5 30.3 30.0

| 29.8 29.5 29.2 28.9 28.6

| 28.3 28.0 27.7 27.4 27.1

| 26.8 26.5 26.2 25.9 25.7

| 25.4 25.1 24.8 24.6 24.3

60 | 24.0 24.2 24.5 24.7 25.0

| 25.2 25.5 25.7 26.0 26.3

| 26.5 26.8 27.1 27.3 27.6

| 27.9 28.1 28.4 28.7 28.9

| 29.2 29.4 29.7 29.9 30.1

| 30.3 30.4 30.6 30.7 30.7

| 30.8 30.7 30.7 30.6 30.5

| 30.4 30.2 30.0 29.8 29.6

| 29.3 29.1 28.8 28.5 28.3

| 28.0 27.7 27.4 27.1 26.8

| 26.6 26.3 26.0 25.7 25.5

| 25.2 24.9 24.7 24.4 24.2

45 | 23.8 24.1 24.3 24.5 24.8

| 25.0 25.3 25.5 25.8 26.0

| 26.3 26.5 26.8 27.1 27.3

| 27.6 27.8 28.1 28.3 28.6

| 28.8 29.0 29.2 29.4 29.6

| 29.8 29.9 30.0 30.1 30.2

| 30.2 30.2 30.1 30.1 30.0

| 29.9 29.7 29.5 29.3 29.1

| 28.9 28.7 28.4 28.2 27.9

| 27.7 27.4 27.1 26.9 26.6

| 26.3 26.1 25.8 25.5 25.3

| 25.0 24.7 24.5 24.2 24.0

30 | 23.7 23.9 24.1 24.3 24.6

| 24.8 25.1 25.3 25.6 25.8

| 26.0 26.3 26.5 26.8 27.0

| 27.3 27.5 27.7 28.0 28.2

| 28.4 28.6 28.8 29.0 29.1

| 29.3 29.4 29.5 29.6 29.6

| 29.7 29.7 29.6 29.6 29.5

| 29.4 29.2 29.1 28.9 28.7

| 28.5 28.3 28.1 27.8 27.6

| 27.3 27.1 26.8 26.6 26.3

| 26.1 25.8 25.6 25.3 25.1

| 24.8 24.6 24.3 24.1 23.8

15 | 23.5 23.7 23.9 24.2 24.4

| 24.6 24.9 25.1 25.3 25.6

| 25.8 26.0 26.3 26.5 26.7

| 27.0 27.2 27.4 27.6 27.8

| 28.0 28.2 28.4 28.5 28.7

| 28.8 28.9 29.0 29.1 29.1

| 29.2 29.2 29.1 29.1 29.0

| 28.9 28.8 28.6 28.5 28.3

| 28.1 27.9 27.7 27.5 27.3

| 27.0 26.8 26.6 26.3 26.1

| 25.8 25.6 25.4 25.1 24.9

| 24.6 24.4 24.1 23.9 23.7

0 | 23.3 23.5 23.8 24.0 24.2

| 24.4 24.7 24.9 25.1 25.3

| 25.6 25.8 26.0 26.2 26.4

| 26.7 26.9 27.1 27.3 27.5

| 27.6 27.8 28.0 28.1 28.3

| 28.4 28.5 28.6 28.6 28.7

| 28.7 28.7 28.7 28.6 28.5

| 28.4 28.3 28.2 28.1 27.9

| 27.7 27.5 27.4 27.2 26.9

| 26.7 26.5 26.3 26.0 25.8

| 25.6 25.4 25.1 24.9 24.7

| 24.4 24.2 24.0 23.7 23.5

P1 - ( x = 461 ,y = 170 ,z = 1.5 ): 36.8 Db

P2 - ( x = 529 ,y = 180 ,z = 1.5 ): 36.1 Db

LAeq , dzień: wartość największa poza terenem zakładu występuje w punkcie (465,300,1.5) i wynosi 70.3 dB(A)

Tłumienie przez grunt wg wzoru 9 PN-ISO 9613.

Koniec obliczeń