

Directive 2000/14/EC of the European Parliament and of the Council of 8 May 2000 on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors

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ANNEX I

DEFINITIONS OF EQUIPMENT

1. Aerial access platforms with combustion engines
2. Brush cutter
3. Builders' hoist for the transport of goods
4. Building site band saw machine
5. Building site circular saw bench
6. Chain saw, portable

7. Combined high pressure flusher and suction vehicle
8. Compaction machine
9. Compressor
10. Concrete-breakers and picks, hand held
11. Concrete or mortar mixer
12. Construction winch
13. Conveying and spraying machine for concrete and mortar
14. Conveyor belt
15. Cooling equipment on vehicles
16. Dozer
17. Drill rig
18. Dumper
19. Equipment for loading and unloading of silos or tanks on...
20. Excavator, hydraulic or rope-operated
21. Excavator-loader
22. Glass recycling container
23. Grader
24. Grass trimmer/grass edge trimmer
25. Hedge trimmer
26. High pressure flusher
27. High pressure water jet machine
28. Hydraulic hammer
29. Hydraulic power pack
30. Joint cutter
31. Landfill compactor, loader-type with bucket
32. Lawnmower
33. Lawn trimmer/lawn edge trimmer

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34. Leaf blower
35. Leaf collector
36. Lift truck, combustion-engine driven, counterbalanced
37. Loader
38. Mobile crane
39. Mobile waste container
40. Motor hoe
41. Paver-finisher
42. Piling equipment
43. Pipelayer
44. Piste caterpillar
45. Power generator
46. Power sweeper
47. Refuse collection vehicle
48. Road-milling machine
49. Scarifier
50. Shredder/chipper
51. Snow-removing machine with rotating tools
52. Suction vehicle
53. Tower crane
54. Trencher
55. Truck mixer
56. Water pump unit
57. Welding generator

ANNEX II

EC DECLARATION OF CONFORMITY

The EC declaration of conformity must contain the following particulars:...
name and address of the manufacturer or his authorised representative...

ANNEX III

METHOD OF MEASUREMENT OF AIRBORNE NOISE
EMITTED BY EQUIPMENT FOR USE OUTDOORS

Scope

PART A

BASIC NOISE EMISSION STANDARD

For the determination of the sound power level of equipment...
EN ISO 3744:1995 EN ISO 3746:1995
may generally be used subject to the following general supplements:...

1. Measurement uncertainty
2. Operation of source during test
 - 2.1. Fan speed
 - 2.2. Test of powered equipment free of load
 - 2.3. Test of powered equipment under load
 - 2.4. Test of hand-operated equipment
3. Calculation of surface sound pressure level
4. Information to be reported
5. Additional microphone positions on the hemispherical measurement surface (EN ISO 3744:1995)...
6. Environmental correction K 2A
Figure Additional microphone array on the hemisphere (12 microphone positions)

PART B

NOISE TEST CODES FOR SPECIFIC EQUIPMENT

0. EQUIPMENT THAT IS TESTED FREE OF LOAD
 - Basic noise emission standard
 - Test area
 - Environmental correction K 2A

- Measurement surface/number of microphone positions/measuring distance
- Operating conditions during test
 - Test free of load:
 - Period(s) of observation/determination of resulting sound power level if more...
- 1. AERIAL ACCESS PLATFORMS WITH COMBUSTION ENGINE
- 2. BRUSH CUTTERS
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test under load
 - Period(s) of observation
- 3. BUILDERS' HOISTS FOR THE TRANSPORT OF GOODS
- 4. BUILDING SITE BAND SAW MACHINES
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test under load
 - Period of observation
- 5. BUILDING SITE CIRCULAR SAW BENCHES
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test under load
 - Period of observation
- 6. CHAIN SAWS, PORTABLE
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test under load/Test free of load
 - Period(s) of observation/determination of resulting sound power level if more...
- 7. COMBINED HIGH PRESSURE FLUSHERS AND SUCTION VEHICLES
- 8. COMPACTION MACHINES
 - (i) NON-VIBRATING ROLLERS
 - (ii) VIBRATING ROLLERS FOR RIDE-ON OPERATORS
 - Basic noise emission standard
 - Operating conditions during test

- Mounting of equipment
 - Test under load
 - Period of observation
 - (iii) VIBRATORY PLATES, VIBRATORY RAMMERS, EXPLOSIVE RAMMERS AND WALK-BEHIND VIBRATING ROLLERS...
 - Basic noise emission standard
 - Test area
 - Operating conditions during test
 - Test under load
 - Period of observation
- 9. COMPRESSORS
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation
- 10. CONCRETE-BREAKERS AND PICKS, HAND-HELD
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Support of the appliance
 - Block characteristics
 - Quality of the concrete
 - Supporting tool
 - Positioning of the cube
 - Test under load
 - Period of observation
- 11. CONCRETE OR MORTAR MIXERS
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
- 12. CONSTRUCTION WINCHES
- 13. CONVEYING AND SPRAYING MACHINES FOR CONCRETE AND MORTAR
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
- 14. CONVEYOR BELTS
- 15. COOLING EQUIPMENT ON VEHICLES
 - Basic noise emission standard
 - Operating conditions during test

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- Test under load
- Period of observation
- 16. DOZERS
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period(s) of observation and consideration of different operating conditions, if...
- 17. DRILL RIGS
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
- 18. DUMPERS
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test under load
 - Period(s) of observation/determination of resulting sound power level if more...
- 19. EQUIPMENT FOR LOADING AND UNLOADING TANKS OR SILOS ON TRUCKS...
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
- 20. EXCAVATORS
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test under load
 - Period(s) of observation/determination of resulting sound power level if more...
- 21. EXCAVATORS-LOADERS
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test

- Test under load
- Period(s) of observation/determination of resulting sound power level if more...
- 22. GLASS RECYCLING CONTAINERS
 - Basic noise emission standard
 - Environmental correction K 2A
 - Measurement in the open air
 - Measurements indoors
 - Operating conditions during test
 - Period(s) of observation/determination of resulting sound power level if more...
- 23. GRADERS
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test under load
 - Period(s) of observation/determination of resulting sound power level if more...
- 24. GRASS TRIMMERS/GRASS EDGE TRIMMERS
- 25. HEDGE TRIMMERS
 - Basic noise emission standard
 - Test area
 - Environmental correction K 2A
 - Measurement in the open air
 - Measurements indoors
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation
- 26. HIGH PRESSURE FLUSHERS
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
- 27. HIGH PRESSURE WATER JET MACHINES
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation

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- 28. HYDRAULIC HAMMERS
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during tests
 - Mounting of the equipment
 - Carrier
 - Mounting
 - Hammer stability and static hold force
 - Tool
 - Test under load
 - Hydraulic input power and oil flow
 - Adjustable components having effect on the hammer power
 - Quantities to be measured
 - Hydraulic supply line pressure measurement, p s
 - Breaker inlet oil flow, Q
 - Measuring point of the oil temperature, T
 - Period of observation/determination of resulting sound power level
 - Definitions
- 29. HYDRAULIC POWER PACKS
 - Basic noise emission standard
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation
- 30. JOINT CUTTERS
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
- 31. LANDFILL COMPACTORS
- 32. LAWNMOWERS
 - Basic noise emission standard
 - Test area
 - Environmental correction K 2A
 - Measurement in the open air
 - Measurements indoors
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test free of load
 - Period of observation
- 33. LAWN TRIMMERS/LAWN EDGE TRIMMERS
- 34. LEAF BLOWERS
 - Basic noise emission standard
 - Test area

- Environmental correction K 2A
 - Measurement in the open air
 - Measurements indoors
 - Measurement surface/number of microphone positions/measuring distance
- Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation
 - Note:
- 35. LEAF COLLECTORS
 - Basic noise emission standard
 - Test area
 - Environmental correction K 2A
 - Measurement in the open air
 - Measurements indoors
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation
 - Note:
- 36. LIFT TRUCKS
 - Basic noise emission standard
 - Operating conditions during test
 - Lifting condition
 - Drive condition
 - Period(s) of observation/determination of resulting sound power level if more...
- 37. LOADERS
 - Basic noise emission standard
 - Test area
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period(s) of observation/determination of resulting sound power level if more...
- 38. MOBILE CRANES
 - Basic noise emission standard
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period(s) of observation/determination of resulting sound power level if more...
- 39. MOBILE WASTE CONTAINERS

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- Basic noise emission standard
 - Test area
 - Environmental correction K 2A
 - Measurement in the open air
 - Measurement indoors
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Test No 1: Free shutting down of the lid along the...
 - Note:
 - Test No 2: Complete opening of the lid
 - Test No 3: Rolling of the container over an artificial irregular...
 - Note:
 - Period(s) of observation/determination of resulting sound power level if more...
 - Test Nos 1 and 2: Free shutting down of the lid...
 - Test No 3: Rolling the container over an artificial irregular track...
40. MOTOR HOES
41. PAVER-FINISHERS
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
42. PILING EQUIPMENT
 - Basic noise emission standard
 - Test area
 - Operating conditions during test
 - Test under load
 - Period of observation
43. PIPELAYERS
44. PISTE CATERPILLARS
45. POWER GENERATORS
 - Basic noise emission standard
 - Environmental correction K2A
 - Measurement in the open air
 - Measurement indoors
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation
46. POWER SWEEPERS
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load

Period of observation

47. REFUSE COLLECTION VEHICLES
Basic noise emission standard
Operating conditions during test
Test under load
Period(s) of observation/determination of resulting sound power level
if more...
Note:
48. ROAD MILLING MACHINES
Basic noise emission standard
Operating conditions during test
Mounting of equipment
Test under load
Period of observation
49. SCARIFIERS
Basic noise emission standard
Test area
Environmental correction K2A
Measurement in the open air
Measurements indoors
Measurement surface/number of microphone positions/measuring
distance
Operating conditions during test
Test under load
Period of observation
50. SHREDDERS/CHIPPERS
Basic noise emission standard
Test area
Environmental correction K2A
Measurement in the open air
Measurements indoors
Measurement surface/number of microphone positions/measuring
distance
Operating conditions during test
Test under load
Period of observation/determination of resulting sound power level
51. SNOW REMOVING MACHINES WITH ROTATING TOOLS
Basic noise emission standard
Operating conditions during test
Test under load
Period of observation
52. SUCTION VEHICLES
Basic noise emission standard
Operating conditions during test
Test under load
Period of observation

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- 53. TOWER CRANES
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Measurements at ground-level
 - Measurements carried out at jib-height
 - Operating conditions during test
 - Mounting of equipment
 - Measurement of lifting mechanism
 - Measurement of the energy generator
 - Test free of load
 - Test under load
 - Period(s) of observation/determination of resulting sound power level if more...
- 54. TRENCHERS
- 55. TRUCK MIXERS
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load
 - Period of observation
- 56. WATER PUMP UNITS
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation
- 57. WELDING GENERATORS
 - Basic noise emission standard
 - Environmental correction K2A
 - Measurement in the open air
 - Measurement indoors
 - Measurement surface/number of microphone positions/measuring distance
 - Operating conditions during test
 - Mounting of equipment
 - Test under load
 - Period of observation

ANNEX IV

MODELS OF THE CE MARKING OF CONFORMITY AND OF THE INDICATION OF THE GUARANTEED SOUND POWER LEVEL

The CE conformity marking must consist of the initials 'CE'...
Iff the CE marking is reduced or enlarged according to...

The indication of the guaranteed sound power level must consist...

If the indication is reduced or enlarged according to the...

ANNEX V

INTERNAL CONTROL OF PRODUCTION

1. This Annex describes the procedure whereby the manufacturer, or his...
2. The manufacturer, or his authorised representative established in the Community,...
3. The technical documentation must enable the conformity of the equipment...
4. The manufacturer must take all measures necessary in order that...

ANNEX VI

INTERNAL CONTROL OF PRODUCTION WITH ASSESSMENT OF TECHNICAL DOCUMENTATION AND PERIODICAL CHECKING

1. This Annex describes the procedure whereby the manufacturer, or his...
2. The manufacturer, or his authorised representative established in the Community,...
3. The technical documentation must enable the conformity of the equipment...
4. The manufacturer must take all measures necessary in order that...
5. Evaluation by the notified body prior to placing on the...
6. Evaluation by the notified body during production

ANNEX VII

UNIT VERIFICATION

1. This Annex describes the procedure whereby the manufacturer, or his...
2. The application for a unit verification must be lodged by...
3. The notified body must:
4. Where the equipment meets the provisions of this Directive, the...
5. The manufacturer, or his authorised representative established in the Community,...

ANNEX VIII FULL QUALITY ASSURANCE

1. This Annex describes the procedure whereby the manufacturer who satisfies...
2. The manufacturer must operate an approved quality assurance system for...
3. Quality assurance system
 - 3.1. The manufacturer must lodge an application for assessment of his...
 - 3.2. The quality assurance system must ensure compliance of the product...
 - 3.3. It must contain in particular an adequate description of:
 - 3.4. The manufacturer must undertake to fulfil the obligations arising out...
4. Surveillance under the responsibility of the notified body
 - 4.1. The purpose of surveillance is to make sure that the...
 - 4.2. The manufacturer must allow the notified body entrance for inspection...
 - 4.3. The notified body shall periodically carry out audits to make...
 - 4.4. Additionally the notified body may pay unexpected visits to the...
5. The manufacturer must, for a period ending at least 10 years...
6. Each notified body must give the other notified bodies the...

ANNEX IX MINIMUM CRITERIA TO BE TAKEN INTO ACCOUNT BY MEMBER STATES FOR THE NOTIFICATION OF BODIES

1. The body, its director and its staff responsible for carrying...
2. The body and its staff must carry out the assessments...
3. The body must have at its disposal the necessary staff...
4. The staff responsible for inspection must have;
5. The impartiality of inspection staff must be guaranteed. Their remuneration...
6. The body must take out liability insurance unless its liability...
7. The staff of the body must observe professional secrecy with...

ANNEX X

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- (1) [OJ C 124, 22.4.1998, p. 1.](#)
- (2) [OJ C 407, 28.12.1998, p. 18.](#)
- (3) Opinion of the European Parliament of 1 April 1998 ([OJ C 138, 4.5.1998, p. 84](#)), Council common position of 24 January 2000 ([OJ C 83, 22.3.2000, p. 1](#)) and Decision of the European Parliament of 15 March 2000.
- (4) [OJ L 33, 8.2.1979, p. 15.](#) Directive as last amended by Commission Directive 85/405/EEC ([OJ L 233, 30.8.1985, p. 9](#)).
- (5) [OJ L 300, 19.11.1984, p. 111.](#) Directive as amended by Directive 88/665/EEC ([OJ L 382, 31.12.1988, p. 42](#)).
- (6) [OJ L 300, 19.11.1984, p. 123.](#) Directive as amended by Commission Directive 85/406/EEC ([OJ L 233, 30.8.1985, p. 11](#)).
- (7) [OJ L 300, 19.11.1984, p. 130.](#) Directive as amended by Directive 87/405/EEC ([OJ L 220, 8.8.1987, p. 60](#)).
- (8) [OJ L 300, 19.11.1984, p. 142.](#) Directive as amended by Commission Directive 85/407/EEC ([OJ L 233, 30.8.1985, p. 16](#)).
- (9) [OJ L 300, 19.11.1984, p. 149.](#) Directive as amended by Commission Directive 85/408/EEC ([OJ L 233, 30.8.1985, p. 18](#)).
- (10) [OJ L 300, 19.11.1984, p. 156.](#) Directive as amended by Commission Directive 85/409/EEC ([OJ L 233, 30.8.1985, p. 20](#)).
- (11) [OJ L 300, 19.11.1984, p. 171.](#) Directive as last amended by Directive 88/181/EEC ([OJ L 81, 26.3.1988, p. 71](#)).
- (12) [OJ L 384, 31.12.1986, p. 1.](#) Directive as last amended by Directive of the European Parliament and of the Council 95/27/EC ([OJ L 168, 18.7.1995, p. 14](#)).
- (13) [OJ C 136, 4.6.1985, p. 1.](#)
- (14) [OJ L 220, 30.8.1993, p. 23.](#)
- (15) [OJ C 138, 17.5.1993, p. 1.](#)
- (16) [OJ L 184, 17.7.1999, p. 23.](#)