
STATUTORY INSTRUMENTS

2001 No. 1701

ENVIRONMENTAL PROTECTION

The Noise Emission in the Environment by
Equipment for use Outdoors Regulations 2001

<i>Made</i>	- - - - -	<i>3rd May 2001</i>
<i>Laid before Parliament</i>		<i>3rd May 2001</i>
<i>Coming into force</i>		
<i>regulations 1, 2 and 14</i>		<i>4th June 2001</i>
<i>Remaining regulations</i>		<i>3rd July 2001</i>

THE NOISE EMISSION IN THE ENVIRONMENT BY
EQUIPMENT FOR USE OUTDOORS REGULATIONS 2001

1. Citation, commencement and revocation
2. Interpretation
3. Application
4. Excluded equipment
5. These Regulations shall not apply to equipment placed on the...
6. (1) Subject to paragraph (2), these Regulations shall not apply...
7. General duty relating to placing on the market or putting into service
8. Permissible sound power level of equipment
9. Exceptions to placing on the market and putting into service of certain equipment
10. Conformity assessment procedures
11. CE marking and indication of the guaranteed sound power level
12. Provision of data
- 12A Obligations which are met by complying with obligations in the Directive
- 12B Expiry of regulation 12A
- 12C Qualifying Northern Ireland Goods
13. Approved Bodies
14. (1) The Secretary of State may from time to time...
- 14A Register of approved bodies
15. Fees
16. Conditions for equipment being taken to conform
17. Enforcement

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

18. Offences
 19. Penalties
 20. Defence of due diligence
 21. Liability of persons other than the principal offender
 22. Consequential amendments
 23. Transitional provision in relation to EU Exit
- Signature

SCHEDULE 1 — (Extract from Article 12)

— Equipment subject to noise limits

builders' hoists for the transport of goods (combustion-engine driven)

Definition: Annex I Schedule 4, Item 3. Measurement: Annex III...

compaction machines (only vibrating and non-vibrating rollers, vibratory plates and...

Definition: Annex I Schedule 4, Item 8. Measurement: Annex III...

compressors (<350 kW)

Definition: Annex I Schedule 4, Item 9. Measurement: Annex III...

concrete-breakers and picks, hand-held

Definition: Annex I Schedule 4, Item 10. Measurement: Annex III...

construction winches (combustion-engine driven)

Definition: Annex I Schedule 4, Item 12. Measurement: Annex III...

dozers (<500 kW)

Definition: Annex I Schedule 4, Item 16. Measurement : Annex...

dumpers (<500 kW)

Definition: Annex I Schedule 4, Item 18. Measurement: Annex III...

excavators, hydraulic or rope-operated (<500 kW)

Definition: Annex I Schedule 4, Item 20. Measurement: Annex III...

excavator-loaders (<500 kW)

Definition: Annex I Schedule 4, Item 21. Measurement: Annex III...

graders (<500 kW)

Definition: Annex I Schedule 4, Item 23. Measurement: Annex III...

hydraulic power packs

Definition: Annex I Schedule 4, Item 29. Measurement: Annex III...

landfill compactors, loader-type with bucket (<500 kW)

Definition: Annex I Schedule 4, Item 31. Measurement: Annex III...

lawnmowers (excluding agricultural and forestry equipment, and multi-purpose devices, the...

Definition: Annex I Schedule 4, Item 32. Measurement: Annex III...

lawn trimmers/lawn edge trimmers

Definition: Annex I Schedule 4, Item 33. Measurement: Annex III...

lift trucks, combustion-engine driven, counterbalanced (excluding "other counterbalanced lift trucks"...

Definition: Annex I Schedule 4, Item 36. Measurement: Annex III...

loaders (<500 kW)

Definition: Annex I Schedule 4, Item 37. Measurement: Annex III...

mobile cranes

Definition: Annex I Schedule 4, Item 38. Measurement: Annex III...

motor hoes (<3 kW)

Definition: Annex I Schedule 4, Item 40. Measurement: Annex III...

paver-finishers (excluding paver-finishers equipped with a high-compaction screed)

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

Definition: Annex I Schedule 4, Item 41. Measurement: Annex III...
power generators (<400 kW)

Definition: Annex I Schedule 4, Item 45. Measurement: Annex III...
tower cranes

Definition: Annex I Schedule 4, Item 53. Measurement: Annex III...
welding generators

Definition: Annex I Schedule 4, Item 57. Measurement: Annex III...

SCHEDULE 2 — (Extract from Article 13)

— Equipment subject to noise marking only

aerial access platforms with combustion engine

Definition: Annex I Schedule 4, Item 1. Measurement: Annex III...
brush cutters

Definition: Annex I Schedule 4, Item 2. Measurement: Annex III...
builders' hoists for the transport of goods (with electric motor)...

Definition: Annex I Schedule 4, Item 3. Measurement: Annex III...
building site band saw machines

Definition: Annex I Schedule 4, Item 4. Measurement: Annex III...
building site circular saw benches

Definition: Annex I Schedule 4, Item 5. Measurement: Annex III...
chain saws, portable

Definition: Annex I Schedule 4, Item 6. Measurement: Annex III...
combined high pressure flushers and suction vehicles

Definition: Annex I Schedule 4, Item 7. Measurement: Annex III...
compaction machines (explosion rammers only)

Definition: Annex I Schedule 4, Item 8. Measurement: Annex III...
concrete or mortar mixers

Definition: Annex I Schedule 4, Item 11. Measurement: Annex III...
construction winches (with electric motor)

Definition: Annex I Schedule 4, Item 12. Measurement: Annex III...
conveying and spraying machines for concrete and mortar

Definition: Annex I Schedule 4, Item 13. Measurement: Annex III...
conveyor belts

Definition: Annex I Schedule 4, Item 14. Measurement: Annex III...
cooling equipment on vehicles

Definition: Annex I Schedule 4, Item 15. Measurement: Annex III...
drill rigs

Definition: Annex I Schedule 4, Item 17. Measurement: Annex III...
equipment for loading and unloading silos or tanks on trucks...

Definition: Annex I Schedule 4, Item 19. Measurement: Annex III...
glass recycling containers

Definition: Annex I Schedule 4, Item 22. Measurement: Annex III...
grass trimmers/grass edge trimmers

Definition: Annex I Schedule 4, Item 24. Measurement: Annex III...
hedge trimmers

Definition: Annex I Schedule 4, Item 25. Measurement: Annex III...
high pressure flushers

Definition: Annex I Schedule 4, Item 26. Measurement: Annex III...
high pressure water jet machines

Definition: Annex I Schedule 4, Item 27. Measurement: Annex III...
hydraulic hammers

Definition: Annex I Schedule 4, Item 28. Measurement: Annex III...
joint cutters

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

Definition: Annex I Schedule 4, Item 30. Measurement: Annex III...
leaf blowers
Definition: Annex I Schedule 4, Item 34. Measurement: Annex III...
leaf collectors
Definition: Annex I Schedule 4, Item 35. Measurement: Annex III...
lift trucks, combustion-engine driven, counterbalanced (only "other counterbalanced lift trucks"...)
Definition: Annex I Schedule 4, Item 36. Measurement: Annex III...
mobile waste containers
Definition: Annex I Schedule 4, Item 39. Measurement: Annex III...
paver-finishers (equipped with a high-compaction screed)
Definition: Annex I Schedule 4, Item 41. Measurement: Annex III...
piling equipment
Definition: Annex I Schedule 4, Item 42. Measurement: Annex III...
pipelayers
Definition: Annex I Schedule 4, Item 43. Measurement: Annex III...
piste caterpillars
Definition: Annex I Schedule 4, Item 44. Measurement: Annex III...
power generators (≥ 400 kW)
Definition: Annex I Schedule 4, Item 45. Measurement: Annex III...
power sweepers
Definition: Annex I Schedule 4, Item 46. Measurement: Annex III...
refuse collection vehicles
Definition: Annex I Schedule 4, Item 47. Measurement: Annex III...
road milling machines
Definition: Annex I Schedule 4, Item 48. Measurement: Annex III...
scarifiers
Definition: Annex I Schedule 4, Item 49. Measurement: Annex III...
shredders/chippers
Definition: Annex I Schedule 4, Item 50. Measurement: Annex III...
snow-removing machines with rotating tools (self-propelled, excluding attachments)
Definition: Annex I Schedule 4, Item 51. Measurement: Annex III...
suction vehicles
Definition: Annex I Schedule 4, Item 52. Measurement: Annex III...
trenchers
Definition: Annex I Schedule 4, Item 54. Measurement: Annex III...
truck mixers
Definition: Annex I Schedule 4, Item 55. Measurement: Annex III...
water pump units (not for use under water)
Definition: Annex I Schedule 4, Item 56. Measurement: Annex III...

SCHEDULE 3 — (Extract from Article 12) Permissible Sound Power Levels
Type of equipment Net installed power P (in kW)...

SCHEDULE 4 — (ANNEX I to the Directive)
— 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
Excluded are the following categories of device: — fans, i.e....
10. Concrete-breakers and picks, hand held
11. Concrete or mortar mixer
12. Construction winch
13. Conveying and spraying machine for concrete and mortar
These machines may be mounted on trucks, trailers or special...
14. Conveyor belt
15. Cooling equipment on vehicles
The refrigeration unit may be powered by means of an...
16. Dozer
17. Drill rig
Drill rigs are stationary during drilling. They may move from...
18. Dumper
19. Equipment for loading and unloading of silos or tanks on trucks
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
The cutting devices are either: — rigid cutting elements, or...
Also a walk-behind or ride-on grass cutting machine or a...
33. Lawn trimmer/lawn edge trimmer
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

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

- 54. Trencher
- 55. Truck mixer
- 56. Water pump unit
- 57. Welding generator

SCHEDULE 5 — (ANNEX II to the Directive)
— EC Declaration of conformity

The EC declaration of conformity must contain the following particulars:...

SCHEDULE 6 — (ANNEX III to the Directive)

— Method of measurement of airborne noise emitted by equipment for use outdoors

Scope

Part A of this Annex this Schedule for each type...

Part B of this Annex this Schedule for each type...

When testing specific types of equipment, the manufacturer or his...

PART A — Basic Noise Emission Standard

For the determination of the sound power level of equipment...

- 1. Measurement uncertainty
- 2. Operating of source during test
 - 2.1 Fan speed
 - 2.2 Test of powered equipment free of load
 - The test is carried out with the equipment in a...
 - If the machine is powered by a generator or from...
 - If the machine is powered by battery, the battery shall...
 - The speed used and the corresponding net power are stated...
 - If the equipment is fitted with several engines, they must...
 - 2.3 Test of powered equipment under load
 - The speed or velocity of the equipment during the test...
 - If the equipment is fitted with several engines and/or aggregates...
 - For each type of equipment that is to be tested...
 - 2.4 Test of hand-operated equipment
- 3. Calculation of surface sound pressure level
- 4. Information to be reported
 - The report shall contain the technical data necessary to identify...
- 5. Additional microphone positions on the hemispherical measurement surface (EN ISO 3744:1995)
- 6. Environmental correction K2A

PART B — Noise Test Codes for Specific Equipment

- 0. Equipment that is tested free of load
 - Basic noise emission standard
 - Test area
 - Reflecting surface of concrete or non-porous asphalt
 - Environmental correction K2A
 - $K2A = 0$
 - Measurement surface/number of microphone positions/measuring distance
 - (i) If the largest...
 - Operating conditions during test
 - The noise tests shall be carried out according to Part...
 - Period(s) of observation/determination of resulting sound power level if more...
 - The period of observation shall at least be 15 seconds....

1. Aerial access platforms with combustion engine
2. Brush Cutters
 - Basic noise emission standard
 - Test area
 - ISO 10884:1995
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 10884:1995
 - Operating conditions during test
 - ISO 10884:1995, point 5.3
 - Period(s) of observation
 - ISO 10884:1995
3. Builders' hoists for the transport of goods
 - The geometrical centre of the engine shall be positioned above...
4. Building site band saw machines
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 7960:1995, Annex J withd = 1m
 - Operating conditions during test
 - Corresponding to ISO 7960:1995, Annex J (point J2(b) only)
 - Period of observation
 - Corresponding to ISO 7960:1995, Annex J
5. Building site circular saw benches
 - Basic noise emission standard
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 7960:1995, Annex A, measurement distanced = 1m
 - Operating conditions during test
 - ISO 7960:1995, Annex A (point A2(b) only)
 - Period of observation
 - ISO 7960:1995 Annex A
6. Chain saws, portable
 - Basic noise emission standard
 - Test area
 - ISO 9207:1995
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 9207:1995
 - Operating conditions during test
 - Full load sawing wood/engine at maximum revolution without load
 - Period(s) of observation/determination of resulting sound power level if more...
 - ISO 9207:1995 points 6.3 and 6.4
 - The resulting sound power level L_{wa} is calculated by: $L...$
7. Combined High Pressure Flushers and Suction Vehicles
8. Compaction Machines
 - See No. 0 (ii) Vibrating rollers for ride-on operators
 - Basic noise emission standard
 - Operating conditions during test
 - The vibrating roller shall be installed on one or more...
 - Test under load
 - The machine shall be tested in a stationary position with...
 - Period of observation
 - The period of observation shall be at least 15 seconds....
 - Basic noise emission standard
 - Test area

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

- EN 500-4 rev. 1:1998, Annex C
Operating conditions during test
EN 500-4 rev. 1:1998, Annex C
Period of observation
EN 500-4 rev. 1:1998, Annex C
9. Compressors
Basic noise emission standard
Measurement surface/number of microphone positions/measuring distance
hemisphere/six microphone positions according to Part A item 5/according to...
or
parallelepiped according to ISO 3744:1995 with measurement distanced = 1m...
Operating conditions during test
The compressors shall be installed on the reflecting plane; skid-mounted...
Test under load
The compressor under test shall have been warmed up and...
The determination of the sound power level shall be made...
Should the layout of the complete plant be such that...
During test the gas exhausted from the compressor shall be...
Care shall be taken that air discharge does not introduce...
Period of observation
The period of observation shall be at least 15 seconds....
10. Concrete-breakers and picks, hand-held
Basic noise emission standard
Measurement surface/number of microphone positions/measuring distance
Hemisphere/six microphone positions according to Part A item 5 and...
Operating conditions during test
All appliances shall be tested in the vertical position.
If the test appliance has got an air exhaust, its...
Support of the appliance
The appliance shall be coupled during the test run to...
Block characteristics
The block shall be in the shape of a cube...
Quality of the concrete
The quality of the concrete shall correspond to C 50/60...
The cube shall be reinforced by 8 mm-diameter steel rods...
Supporting tool
The tool shall be sealed into the block and shall...
Suitable treatment shall be carried out to integrate the two...
The block shall remain mechanically sound, particularly at the point...
Positioning of the cube
The cube shall be set in a pit cemented throughout,...
The opening in the screening slab through which the tool...
Test under load
The appliance tested shall be connected to the supporting tool...
The test appliance shall be operated in stable conditions having...
The test appliance shall be operated at the maximum power...
Period of observation
The period of observation shall at least be 15 seconds....

The value of A should be such that the screening...

11. Concrete or mortar mixers
 - Basic noise emission standard
 - Operating conditions during test
 - The mixing device (drum) shall be filled to its rated...
 - The mixing device shall be operated at least at the...
 - Period of observation
 - The period of observation shall be at least 15 seconds....
12. Construction winches
 - The geometrical centre of the engine shall be positioned above...
13. Conveying and spraying machines for concrete and mortar
 - Basic noise emission standard
 - Operating conditions during test
 - Test under load (i) For machines conveying and spraying concrete:...
 - The conveying system and the pipe shall be filled with...
 - The conveying system and the pipe shall be filled with...
 - Period of observation
 - The period of observation shall at least be 15 seconds....
14. Conveyor Belts
 - The geometrical centre of the engine shall be positioned above...
15. Cooling equipment on vehicles
 - Basic noise emission standard
 - Operating conditions during test
 - The cooling equipment shall be installed in a real or...
 - Cooling equipment installed in cargo-space refrigeration units which have a...
 - Period of observation
 - The period of observation shall be at least 15 seconds....
16. Dozers
 - Basic noise emission standard
 - Test area
 - ISO 6395:1988
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 6395:1988
 - Operating conditions during test
 - Crawler dozers shall be tested on the test site corresponding...
 - Test under load
 - ISO 6395:1988, Annex B
 - Period(s) of observation and consideration of different operating conditions, if...
 - ISO 6395:1988, Annex B
17. Drill rigs
 - Basic noise emission standard
 - Operating conditions during test
 - EN 791:1995, Annex A
 - Period of observation
 - The period of observation shall at least be 15 seconds....
18. Dumpers
 - Basic noise emission standard
 - Test area
 - ISO 6395:1988
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 6395:1988
 - Operating conditions during test

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

- Equivalent ISO 6395:1988, Annex C, with the following amendment:
 C4.3, second paragraph is replaced by: The engine shall be...
 Period(s) of observation/determination of resulting sound power level if more...
 ISO 6395:1988, Annex C
19. Equipment for loading and unloading tanks or silos on trucks
 Basic noise emission standard
 Operating conditions during test
 The equipment shall be tested with the truck in a...
 Period of observation
 The period of observation shall at least be 15 seconds....
20. Excavators
 Basic noise emission standard
 Test area
 ISO 6395:1988
 Measurement surface/number of microphone positions/measuring distance
 ISO 6395:1988
 Operating conditions during test
 ISO 6395:1988, Annex A
 Period(s) of observation/determination of resulting sound power level if more...
 ISO 6395:1988, Annex A
21. Excavator-loaders
 Basic noise emission standard
 Test area
 ISO 6395:1988
 Measurement surface/number of microphone positions/measuring distance
 ISO 6395:1988
 Operating conditions during test
 ISO 6395:1988, Annex D
 Period(s) of observation/determination of resulting sound power level if more...
 ISO 6395:1988, Annex D
22. Glass recycling containers
 Basic noise emission standard
 For the purpose of this noise test code the single-event...
 Environmental correction K2A
 Measurement in the open air
 $K2A = 0$
 Measurements indoors
 The value of the constant K2A, determined in accordance with...
 Operating conditions during test
 The glass bottles are defined as follows: — capacity: 75cl...
 The testing operator holds each bottle by its neck and...
 Period(s) of observation/determination of resulting sound power level if more than...
 The A-weighted single-event sound pressure level is preferably simultaneously measured...
 The A-weighted single-event sound power level averaged over the measurement...
 The A-weighted single-event sound pressure level averaged over all 120...
23. Graders
 Basic noise emission standard

- Test area
ISO 6395:1988
Measurement surface/number of microphone positions/measuring distance
ISO 6395:1988
Operating conditions during test
Corresponding to ISO 6395:1988, Annex B
Period(s) of observation/determination of resulting sound power level if more...
ISO 6395:1988, Annex B
24. Grass trimmers/grass edge trimmers
The trimmer shall be positioned by a suitable device in...
25. Hedge trimmers
Basic noise emission standard
Test area
ISO 11094:1991
in case of dispute, measurements shall be carried out in...
Environmental correction K2A
Measurement in the open air
K2A = 0
Measurements indoors
The value of the constant K2A, determined without the artificial...
Measurement surface/number of microphone positions/measuring distance
ISO 11094:1991
Operating conditions during test
The hedge trimmer shall be held in the natural manner...
Test under load
The hedge clipper shall be operated at its nominal speed...
Period of observation
The period of observation shall at least be 15 seconds....
26. High pressure flushers
Basic noise emission standard
Operating conditions during test
The high pressure flusher shall be tested in a stationary...
Period of observation
The period of observation shall at least be 30 seconds....
27. High pressure water jet machines
Basic noise emission standard
Measurement surface/number of microphone positions/measuring distance
Parallelepiped/according to EN ISO 3744:1995 with measurement
distanced = 1m...
Operating conditions during test
The high pressure water jet machine shall be installed on...
Test under load
The high-pressure cleaning machine shall be brought to its steady-state...
Period of observation
The period of observation shall at least be 15 seconds....
28. Hydraulic hammers
Basic noise emission standard
Measurement surface/number of microphone positions/measuring distance
Hemisphere/six microphone positions according to Part A, item 5/r=10 m...
Operating conditions during tests
For the test the hammer is attached to a carrier...
Carrier

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The carrier for the test hammer shall meet the requirements...

Mounting

Mechanical mounting as well as connections (hoses, pipes ...) must...

Hammer stability and static hold force

The hammer shall be firmly held down by the carrier...

Tool

A blunt tool shall be used in the measurements. The...

Test under load

Hydraulic input and power and oil flow

Operating conditions of the hydraulic hammer shall be appropriately adjusted,...

Care shall be taken that the total uncertainty of the...

Adjustable components having effect on the hammer power

Pre-settings of all accumulators, pressure central valves and other possible...

Quantities to be measured

ps The mean value of the hydraulic supply line...

Q The mean value of the breaker inlet oil flow...

T The oil temperature must lie between + 40/+ 60°...

Pa The prefill gas pressure of all accumulators must be...

Parameters to be evaluated from the measured operating parameters:

P IN Hydraulic input power of the breaker P IN...

Hydraulic supply line pressure measurement, ps —ps must be measured...

Breaker inlet oil flow, Q —Q must be measured from...

Measuring point of the oil temperature, T —T must be...

Period of observation/determination of resulting sound power level

The period of observation shall be at least 15 seconds....

The measurements are repeated three times, or more if necessary....

Definitions

d Tool diameter (mm)

d 1 Anvil diameter, 1200±100 mm

d 2 Inner diameter of the anvil support structure, ≤...

d 3 Diameter of the test block deck, ≤ 2200...

d 4 Diameter of the tool opening in the deck,...

d 5 Diameter of the tool seal, ≤1000 mm

h¹ Visible tool length between the lowest part of the...

h 2 Tool seal thickness above the deck, ≤20 mm...

h 3 Distance between deck upper surface and anvil upper...

h 4 Isolating foam rubber deck seal thickness, ≤30 mm...

h 5 Anvil thickness, 350 ±50 mm

h 6 Tool penetration, ≤50 mm

If the quadratic shape of the test block structure is...

The empty space between the deck and the anvil can...

29. Hydraulic power packs

Basic noise emission standard

Operating conditions during test

The hydraulic power pack shall be installed on the reflecting...

Test under load

During testing, no tools shall be coupled to the hydraulic...

The hydraulic power pack shall be brought to its steady-state...

Period of observation

- The period of observation shall at least be 15 seconds....
30. Joint cutters
Basic noise emission standard
Operating conditions during test
The joint cutter shall be equipped with the largest possible...
Period of observation
The period of observation shall be at least 15 seconds....
31. Landfill compactors
32. Lawnmowers
Basic noise emission standard
Test area
ISO 11094:1991
In case of dispute, measurements shall be carried out in...
Environmental correction K2A
Measurement in the open air
 $K2A = 0$
Measurements indoors
The value of the constant K2A, determined without the artificial...
Measurement surface/number of microphone positions/measuring distance
ISO 11094:1991
Operating conditions during test
If the wheels of the lawnmower could cause a compression...
Test free of load
ISO 11094:1991
Period of observation
ISO 11094:1991
33. Lawn trimmers/lawn edge trimmers
The trimmer shall be positioned by a suitable device in...
34. Leaf blowers
Basic noise emission standard
Test area
ISO 11094:1991
In case of dispute, measurements shall be carried out in...
Environmental correction K2A
Measurement in the open air
 $K2A = 0$
Measurements indoors
The value of the constant K2A, determined without artificial surface...
Measurement surface/number of microphone positions/measuring distance
ISO 11094:1991
Operating conditions during test
The leaf blower shall be positioned in the natural manner...
Test under load
The leaf blower shall be operated at its nominal speed...
Period of observation
The period of observation shall at least be 15 seconds....
Note: If a leaf blower can be also used as...
35. Leaf collectors
Basic noise emission standard
Test area
ISO 11094:1991
In case of dispute, measurements shall be carried out in...
Environmental correction K2A

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

- Measurement in the open air
 - K2A = 0
 - Measurements indoors
 - The value of the constant K2A, determined without artificial surface...
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 11094:1991
 - Operating conditions during test
 - The leaf collector shall be positioned in the natural manner...
 - Test under load
 - The leaf collector shall be operated at its nominal speed...
 - Period of observation
 - The period of observation shall be at least 15 seconds....
 - Note: If a leaf collector can be also used as...
- 36. Lift trucks
 - Basic noise emission standard
 - Operating conditions during test
 - Lifting condition
 - With the truck stationary the load (non-sound absorbent material, eg...
 - Drive condition
 - Drive the truck, without load, at full acceleration from standstill...
 - If the truck has a multi-gear transmission, select the gear...
 - Period(s) of observation/determination of resulting sound power level if more...
 - The periods of observation are: — for lifting condition: the...
 - The resulting sound power level for all types of lift...
- 37. Loaders
 - Basic noise emission standard
 - Test area
 - ISO 6395:1988
 - Measurement surface/number of microphone positions/measuring distance
 - ISO 6395:1988
 - Operating conditions during test
 - Crawler loaders shall be tested on the test site corresponding...
 - Test under load
 - ISO 6395:1988, Annex C
 - Period(s) of observation/determination of resulting sound power level if more...
 - ISO 6395:1988, Annex C
- 38. Mobile Cranes
 - Basic noise emission standard
 - Operating conditions during test
 - If the crane is equipped with outriggers, they shall be...
 - Test under load
 - The mobile crane to be tested shall be presented in...
 - Before carrying out any measurement, the engine and the hydraulic...
 - If the mobile crane is equipped with several engines, the...
 - If the engine of the mobile crane is fitted with...
 - The mobile crane shall be measured under the following three...
 - For all working conditions the following shall apply: — Engine...
 - The mobile crane shall be loaded with a load which...
 - With the boom adjusted to an angle of 40° to...
 - The test starts with raising the short jib from the...
 - With the jib adjusted to an angle of 40° to...

- Period(s) of observation/determination of resulting sound power level if more...
- The resulting sound power level is calculated by:
39. Mobile waste containers
- Basic noise emission standard
- Test area — Reflecting surface of concrete or non-porous asphalt...
- Environmental correction K2A
- Measurement in the open air
- $K2A = 0$
- Measurement indoors
- The value of the constant K2A, determined in accordance with...
- Measurement surface/number of microphone positions/measuring distance
- Hemisphere/six microphone positions according to Part A item five/r =...
- Operating conditions during test
- Test No. 1: Free shutting down of the lid along...
- To minimise his influence on the measurements, the operator shall...
- The measurement is carried out during the following cycle, repeated...
- Note: If necessary the operator can move temporarily to raise...
- Test No. 2 Complete opening of the lid
- To minimise his influence on the measurements, the operator shall...
- To prevent any moving of the container, wheels shall be...
- The measurement is carried out during the following cycle: —...
- Test No. 3: Rolling of the container over an artificial...
- For this test, an artificial test track, simulating an irregular...
- Note: Every strip can be composed of several 400 mm...
- An example of adequate track is given in Figures 39.1...
- The operator is situated at the lid hinge side.
- The measurement is carried out while the operator draws the...
- During the test, for a 2-wheel container, the angle between...
- Period(s) of observation/determination of resulting sound power level if more...
- Test Nos 1 and 2: Free shutting down of the...
- If possible, the measurements are carried out simultaneously at the...
- The A-weighted single-event sound pressure level is measured for each...
- Test No. 3: Rolling the container over an artificial irregular...
- The period of observation T shall be equal to the...
- The sound power level $LWA_{rolling}$ is equal to the mean...
- The resulting sound power level is calculated by:
40. Motor hoes
- The tool shall be disconnected during measurement.
41. Paver-finishers
- Basic noise emission standard
- Operating conditions during test
- The engine of the machine shall operate at the nominal...
- Period of observation
- The period of observation shall at least be 15 seconds....
42. Piling equipment
- Basic noise emission standard
- Test area
- Operating conditions during test

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

- The piling equipment is installed at the top of a...
Period of observation
The period of observation shall at least be 15 seconds....
43. Pipelayers
44. Piste caterpillars
45. Power generators
Basic noise emission standard
Environmental correction K2A
Measurement in the open air
K2A = 0
Measurement indoors
The value of the constant K2A, determined without artificial surface...
Measurement surface/number of microphone positions/measuring distance
Hemisphere/six microphone positions according to Part A item 5/according to...
Operating conditions during test
The power generators shall be installed on the reflecting plane;...
Test under load
ISO 8528-10:1998, point 9
Period of observation
The period of observation shall at least be 15 seconds....
46. Power sweepers
Basic noise emission standard
Operating conditions during test
The power sweeper shall be tested in a stationary position....
Period of observation
The period of observation shall at least be 15 seconds....
47. Refuse collection vehicles
Basic noise emission standard
Operating conditions during test
The refuse collection vehicle shall be tested in a stationary...
 1. The engine is running at maximum speed provided by the...
 2. The compaction system is running.
The refuse collection vehicle and the hopper receiving the waste...
If the engine speed is automatically accelerated when the compaction...
If the engine speed for the compaction system is not...
 3. The lifting device is running up and down, without load...
 4. Material is falling into the refuse collection vehicle.
Materials are emptied in bulk with the lifting device into...
Period(s) of observation/determination of resulting sound power level if more...
The period of observation shall be:
 1. at least 15 seconds. The resulting sound power level shall...
 2. at least three complete cycles, if the compaction system is...
 3. at least three continuous complete work-cycles, including the entirety of...
 4. at least three complete work-cycles, each including the falling of...
The resulting sound power level is calculated by:
Note: In the case of a refuse collection vehicle only...
48. Road milling machines
Basic noise emission standard
Operating conditions during test
The longitudinal axis of the road milling machine shall be...
Test under load

- The road milling machine shall be brought to its steady...
Period of observation
The period of observation shall at least be 15 seconds....
49. Scarifiers
Basic noise emission standard
Test area
ISO 11094:1991
In case of dispute, measurements shall be carried out in...
Environmental correction K2A
Measurement in the open air
K2A = 0
Measurement indoors
The value of the constant K2A, determined without artificial surface...
Measurement surface/number of microphone positions/measuring distance
ISO 11094:1991
Operating conditions during test
The scarifier shall be operated with the engine at its...
Period of observation
The period of observation shall at least be 15 seconds....
50. Shredders/Chippers
Basic noise emission standard
Test area
ISO 11094:1991
Environmental correction K2A
Measurement in the open air
K2A = 0
Measurements indoors
The value of the constant K2A, determined without artificial surface...
Measurement surface/number of microphone positions/measuring distance
ISO 11094:1991
Operating conditions during test
Test under load
The shredder/chipper shall be tested chipping one or more pieces...
The work-cycle consists of chipping a round piece of wood...
Period of observation/determination of resulting sound power level
The period of observation shall end when there is no...
51. Snow removing machines with rotating tools
Basic noise emission standard
Operating conditions during test
The snow blower shall be tested in a stationary position....
Period of observation
The period of observation shall at least be 15 seconds....
52. Suction vehicles
Basic noise emission standard
Operating conditions during test
The suction vehicle shall be tested in a stationary position....
Period of observation
The period of observation shall at least be 15 seconds....
53. Tower cranes
Basic noise emission standard
Measurement surface/number of microphone positions/measuring distance
Measurement at ground-level

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

Hemisphere/six microphone positions according to Part A paragraph 5/
according to...

Measurements carried out at jib-height.

Where the lifting mechanism is located at the jib-height, the...

Where the measurement is carried out with the lifting mechanism...

The microphone positions shall be as follows (see Figure 53.1):...

Four microphone positions on a horizontal plane passing through the...

The other two microphone positions shall be located at the...

Operating conditions during test

Measurement of lifting mechanism

The lifting mechanism during the test shall be mounted in...

The mounted crane shall be placed on a flat reflecting...

The lifting mechanism shall be at least 12 m above...

The lifting mechanism shall be fixed to a flat reflecting...

Measurement of the energy generator.

Where the energy generator is attached to the crane, whether...

Where the lifting mechanism is situated on the jib stay,...

Where the energy source powering the crane is independent from...

Where the energy generator is attached to the crane, the...

During the test the lifting mechanism and the energy generator...

Test free of load

The energy generator incorporated in the crane shall operate at...

The lifting mechanism shall operate free of load, with its...

Test under load

The energy generator incorporated in the crane shall operate at...

Period(s) of observation/determination of resulting sound power level if
more...

For the measurement of the sound pressure level of the...

(tr +tf) seconds: tr being the period in seconds...

The root mean square value at microphone position i shall...

Figure 53.1 Arrangement of microphone positions where the lifting
mechanism...

54. Trenchers

55. Truck Mixers

Basic noise emission standard

Operating conditions during test

The truck mixer shall be tested in a stationary position....

Period of observation

The period of observation shall at least be 15 seconds....

56. Water pump units

Basic noise emission standard

Measurement surface/number of microphone positions/measuring distance

Parallelepiped/according to EN ISO 3744:1995 with measurement
distanced = 1...

Operating conditions during test

The water pump unit shall be installed on the reflecting...

Test under load

The engine must operate at the point of best efficiency...

Period of observation

The period of observation shall at least be 15 seconds....

57. Welding generators

Basic noise emission standard

Environmental correction K2A

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

Measurement in the open air

$K2A = 0$

Measurement indoors

The value of the constant $K2A$, determined in accordance with...

Measurement surface/number of microphone positions/measuring distance

Hemisphere/6 microphone positions according to Part A item 5/according to...

If 2 m: a parallelepiped according to EN ISO 3744:1995 may...

Operating conditions during test

The welding generators shall be installed on the reflecting plane;...

Test under load

ISO 8528-10:1998, point 9.

Period of observation

The period of observation shall at least be 15 seconds....

SCHEDULE 7 — (ANNEX IV to the Directive)

— Models of the UK marking of conformity and of the indication of the guaranteed sound power level

The CE UK conformity marking must consist of the initials...

If the CE UK marking is reduced or enlarged according...

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

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

SCHEDULE 8 — (ANNEX V to the Directive)

— Internal control of production

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

SCHEDULE 9 — (ANNEX VI to the Directive)

— Internal control of production with assessment of technical documentation and periodical checking

1. This Schedule describes the procedure whereby the manufacturer, or his...
2. The manufacturer, or his authorised representative established in the European...
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 approved body prior to placing on the...
6. Evaluation by the approved body during production The manufacturer, or...

SCHEDULE 10 — (ANNEX VII to the Directive)

— Unit Verification

1. This Schedule describes the procedure whereby the manufacturer, or his...
2. The application for a unit verification must be lodged by...
3. The approved body must: — examine whether the equipment has...
4. Where the equipment meets the provisions of these Regulations, the...

Changes to legislation: There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)

5. The manufacturer, or his authorised representative established in the European...

SCHEDULE 11 — (ANNEX VIII to the Directive)

— Full Quality Assurance

1. This Schedule 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 approved body
 - 4.1 The purpose of surveillance is to make sure that the...
 - 4.2 The manufacturer must allow the approved body entrance for inspection...
 - 4.3 The approved body shall periodically carry out audits to make...
 - 4.4 Additionally the approved body may pay unexpected visits to the...
 5. The manufacturer must, for a period ending at least 10...
 6. Each approved body must give the other approved bodies the...

SCHEDULE 12 — (ANNEX X to the Directive)

— Unit Verification

SCHEDULE 12A — Approved body requirements

1. (1) The body, its director and its staff responsible for...
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 body must be able to demonstrate the impartiality of...
6. The remuneration of the inspection staff must not depend on...
7. The body must have, and must satisfy the Secretary of...
8. The body must ensure that its staff observe professional secrecy...
9. Paragraph 8 does not prevent the staff from providing the...

SCHEDULE 13 — ENFORCEMENT

1. Enforcement authorities
2. Test purchases
3. Powers of search etc.
4. Provisions supplemental to paragraph 3
5. Appeals against detention of equipment
6. Suspension notices
7. Appeals against suspension notices
8. Power to require production of documents and information etc.
9. Contravention of a suspension notice
10. False information
11. Obstruction etc. of officers of enforcement authorities etc.
12. Extension of time for bringing summary proceedings
13. Forfeiture: England and Wales and Northern Ireland

Changes to legislation: *There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001. (See end of Document for details)*

14. Forfeiture: Scotland
15. Recovery of expenses of enforcement
16. Service of documents etc.
17. Savings for certain privileges
18. Savings for action taken under other enactments

Explanatory Note

Changes to legislation:

There are currently no known outstanding effects for the The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001.