

ANNEX III

REQUIREMENTS FOR ESTABLISHMENTS AND FOR THE CARE AND ACCOMMODATION OF ANIMALS

Section B:

Species-specific section

1. Mice, rats, gerbils, hamsters and guinea pigs

In this and subsequent tables for mice, rats, gerbils, hamsters and guinea pigs, ‘enclosure height’ means the vertical distance between the enclosure floor and the top of the enclosure and this height applies over more than 50 % of the minimum enclosure floor area prior to the addition of enrichment devices.

When designing procedures, consideration shall be given to the potential growth of the animals to ensure adequate space is provided (as detailed in Tables 1.1 to 1.5) for the duration of the study.

Table Mice

1.1.

	Body weight(g)	Minimum enclosure size(cm²)	Floor area per animal(cm²)	Minimum enclosure height(cm)	Date referred to in Article 33(2)
In stock and during procedures	up to 20	330	60	12	1 January 2017
	over 20 to 25	330	70	12	
	over 25 to 30	330	80	12	
	over 30	330	100	12	
Breeding		330 For a monogamous pair (outbred/inbred) or a trio (inbred). For each additional female plus litter 180 cm ² shall be added.		12	
Stock at breeders^a	less than 20	950	40	12	
		Enclosure size 950 cm²			

a Post-weaned mice may be kept at these higher stocking densities for the short period after weaning until issue, provided that the animals are housed in larger enclosures with adequate enrichment, and these housing conditions do not cause any welfare deficit such as increased levels of aggression, morbidity or mortality, stereotypes and other behavioural deficits, weight loss, or other physiological or behavioural stress responses.

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Enclosure size¹ 500 cm²	less than 20	1 500	30	12
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- a** Post-weaned mice may be kept at these higher stocking densities for the short period after weaning until issue, provided that the animals are housed in larger enclosures with adequate enrichment, and these housing conditions do not cause any welfare deficit such as increased levels of aggression, morbidity or mortality, stereotypes and other behavioural deficits, weight loss, or other physiological or behavioural stress responses.

Table Rats
1.2.

	Body weight(g)	Minimum enclosure size(cm²)	Floor area per animal(cm²)	Minimum enclosure height(cm)	Date referred to in Article 33(2)
In stock and during procedures^a	up to 200	800	200	18	1 January 2017
	over 200 to 300	800	250	18	
	over 300 to 400	800	350	18	
	over 400 to 600	800	450	18	
	over 600	1 500	600	18	
Breeding		800 Mother and litter. For each additional adult animal permanently added to the enclosure add 400 cm ²		18	
Stock at breeders^b Enclosure size¹ 500 cm²	up to 50	1 500	100	18	
	over 50 to 100	1 500	125	18	
	over 100 to 150	1 500	150	18	
	over 150 to 200	1 500	175	18	

- a** In long-term studies, if space allowances per individual animal fall below those indicated above towards the end of such studies, priority shall be given to maintaining stable social structures.

- b** Post-weaned rats may be kept at these higher stocking densities for the short period after weaning until issue, provided that the animals are housed in larger enclosures with adequate enrichment, and these housing conditions do not cause any welfare deficit such as increased levels of aggression, morbidity or mortality, stereotypes and other behavioural deficits, weight loss, or other physiological or behavioural stress responses.

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Stock at breeders^b Enclosure size 500 cm²	up to 100	2 500	100	18
	over 100 to 150	2 500	125	18
	over 150 to 200	2 500	150	18

a In long-term studies, if space allowances per individual animal fall below those indicated above towards the end of such studies, priority shall be given to maintaining stable social structures.

b Post-weaned rats may be kept at these higher stocking densities for the short period after weaning until issue, provided that the animals are housed in larger enclosures with adequate enrichment, and these housing conditions do not cause any welfare deficit such as increased levels of aggression, morbidity or mortality, stereotypes and other behavioural deficits, weight loss, or other physiological or behavioural stress responses.

Table Gerbils

1.3.

	Body weight(g)	Minimum enclosure size(cm²)	Floor area per animal(cm²)	Minimum enclosure height(cm)	Date referred to in Article 33(2)
In stock and during procedures	up to 40	1 200	150	18	1 January 2017
	over 40	1 200	250	18	
Breeding		1 200 Monogamous pair or trio with offspring		18	

Table Hamsters

1.4.

	Body weight(g)	Minimum enclosure size(cm²)	Floor area per animal(cm²)	Minimum enclosure height(cm)	Date referred to in Article 33(2)
In stock and during procedures	up to 60	800	150	14	1 January 2017
	over 60 to 100	800	200	14	
	over 100	800	250	14	
Breeding		800 Mother or monogamous pair with litter		14	

a Post-weaned hamsters may be kept at these higher stocking densities, for the short period after weaning until issue provided that the animals are housed in larger enclosures with adequate enrichment, and these housing conditions do not cause any welfare deficit such as increased levels of aggression, morbidity or mortality, stereotypes and other behavioural deficits, weight loss, or other physiological or behavioural stress responses.

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Stock at breeders^a	less than 60	1 500	100	14
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a Post-weaned hamsters may be kept at these higher stocking densities, for the short period after weaning until issue provided that the animals are housed in larger enclosures with adequate enrichment, and these housing conditions do not cause any welfare deficit such as increased levels of aggression, morbidity or mortality, stereotypes and other behavioural deficits, weight loss, or other physiological or behavioural stress responses.

Table Guinea pigs
1.5.

	Body weight(g)	Minimum enclosure size(cm²)	Floor area per animal(cm²)	Minimum enclosure height(cm)	Date referred to in Article 33(2)
In stock and during procedures	up to 200	1 800	200	23	1 January 2017
	over 200 to 300	1 800	350	23	
	over 300 to 450	1 800	500	23	
	over 450 to 700	2 500	700	23	
	over 700	2 500	900	23	
Breeding		2 500 Pair with litter. For each additional breeding female add 1 000 cm ²		23	

2. Rabbits

During agricultural research, when the aim of the project requires that the animals are kept under similar conditions to those under which commercial farm animals are kept, the keeping of the animals shall at least follow the standards laid down in Directive 98/58/EC⁽¹⁾.

A raised area shall be provided within the enclosure. This raised area must allow the animal to lie and sit and easily move underneath, and shall not cover more than 40 % of the floor space. When for scientific or veterinary reasons a raised area cannot be used, the enclosure shall be 33 % larger for a single rabbit and 60 % larger for two rabbits. Where a raised area is provided for rabbits of less than 10 weeks of age, the size of the raised area shall be at least of 55 cm by 25 cm and the height above the floor shall be such that the animals can make use of it.

Table Rabbits over 10 weeks of age
2.1.

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Table 2.1 is to be used for both cages and pens. The additional floor area is as a minimum 3 000 cm² per rabbit for the third, the fourth, the fifth and the sixth rabbit, while 2 500 cm² as a minimum shall be added for each additional rabbit above a number of six.

Final body weight(kg)	Minimum floor area for one or two socially harmonious animals(cm²)	Minimum height(cm)	Date referred to in Article 33(2)
less than 3	3 500	45	1 January 2017
from 3 to 5	4 200	45	
over 5	5 400	60	

Table 2.2. Doe plus litter

Doe weight(kg)	Minimum enclosure size(cm²)	Addition for nest boxes(cm²)	Minimum height(cm)	Date referred to in Article 33(2)
less than 3	3 500	1 000	45	1 January 2017
from 3 to 5	4 200	1 200	45	
over 5	5 400	1 400	60	

Table 2.3. Rabbits less than 10 weeks of age

Table 2.3 is to be used for both cages and pens.

Age	Minimum enclosure size(cm²)	Minimum floor area per animal(cm²)	Minimum height(cm)	Date referred to in Article 33(2)
Weaning to 7 weeks	4 000	800	40	1 January 2017
From 7 to 10 weeks	4 000	1 200	40	

Table 2.4. Rabbits: Optimal dimensions for raised areas for enclosures having the dimensions indicated in Table 2.1.

Age in weeks	Final body weight(kg)	Optimum size(cm x cm)	Optimum height from the enclosure floor(cm)	Date referred to in Article 33(2)
over 10	less than 3	55 × 25	25	1 January 2017

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from 3 to 5	55 × 30	25
over 5	60 × 35	30

3. Cats

Cats shall not be single-housed for more than 24 hours at a time. Cats that are repeatedly aggressive towards other cats shall be housed singly only if a compatible companion cannot be found. Social stress in all pair- or group-housed individuals shall be monitored at least weekly. Females with kittens under four weeks of age or in the last two weeks of pregnancy may be housed singly.

Table 3. Cats

The minimum space in which a queen and litter may be held is the space for a single cat, which shall be gradually increased so that by 4 months of age litters have been rehoused following the space requirements for adults.

Areas for feeding and for litter trays shall not be less than 0,5 metres apart and shall not be interchanged.

	Floor ^a (m ²)	Shelves(m ²)	Height(m)	Date referred to in Article 33(2)
Minimum for one adult animal	1,5	0,5	2	1 January 2017
For each additional animal add	0,75	0,25	—	

^a Floor area excluding shelves.

4. Dogs

Dogs shall where possible be provided with outside runs. Dogs shall not be single-housed for more than 4 hours at a time.

The internal enclosure shall represent at least 50 % of the minimum space to be made available to the dogs, as detailed in Table 4.1.

The space allowances detailed below are based on the requirements of beagles, but giant breeds such as St Bernards or Irish wolfhounds shall be provided with allowances significantly in excess of those detailed in Table 4.1. For breeds other than the laboratory beagle, space allowances shall be determined in consultation with veterinary staff.

Table 4.1. Dogs

Dogs that are pair or group housed may each be constrained to half the total space provided (2 m² for a dog under 20 kg, 4 m² for a dog over 20 kg) while they are undergoing procedures as defined in this Directive, if this separation is essential for scientific purposes. The period for which a dog is so constrained shall not exceed 4 hours at a time.

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A nursing bitch and litter shall have the same space allowance as a single bitch of equivalent weight. The whelping pen shall be designed so that the bitch can move to an additional compartment or raised area away from the puppies.

Weight(kg)	Minimum enclosure size(m ²)	Minimum floor area for one or two animals(m ²)	For each additional animal add a minimum of(m ²)	Minimum height(m)	Date referred to in Article 33(2)
up to 20	4	4	2	2	1 January 2017
over 20	8	8	4	2	

Table 4.2. Dogs — post-weaned stock

Weight of dog(kg)	Minimum enclosure size(m ²)	Minimum floor area/ animal(m ²)	Minimum height(m)	Date referred to in Article 33(2)
up to 5	4	0,5	2	1 January 2017
over 5 to 10	4	1,0	2	
over 10 to 15	4	1,5	2	
over 15 to 20	4	2	2	
over 20	8	4	2	

5. Ferrets

Table 5. Ferrets

	Minimum enclosure size(cm ²)	Minimum floor area per animal(cm ²)	Minimum height(cm)	Date referred to in Article 33(2)
Animals up to 600 g	4 500	1 500	50	1 January 2017
Animals over 600 g	4 500	3 000	50	
Adult males	6 000	6 000	50	
Jill and litter	5 400	5 400	50	

6. Non-human primates

Young non-human primates shall not be separated from their mothers until they are, depending on the species, 6 to 12 months old.

The environment shall enable non-human primates to carry out a complex daily programme of activity. The enclosure shall allow non-human primates to adopt as wide a behavioural repertoire

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as possible, provide it with a sense of security, and a suitably complex environment to allow the animal to run, walk, climb and jump.

Table Marmosets and tamarins
6.1.

	Minimum floor area of enclosures for 1^a or 2 animals plus offspring up to 5 months old(m²)	Minimum volume per additional animal over 5 months(m³)	Minimum enclosure height(m)^b	Date referred to in Article 33(2)
Marmosets	0,5	0,2	1,5	1 January 2017
Tamarins	1,5	0,2	1,5	

a Animals shall be kept singly only in exceptional circumstances.

b The top of the enclosure shall be at least 1,8 m from the floor.

For marmosets and tamarins, separation from the mother shall not take place before 8 months of age.

Table Squirrel monkeys
6.2.

Minimum floor area for 1^a or 2 animals(m²)	Minimum volume per additional animal over 6 months of age(m³)	Minimum enclosure height(m)	Date referred to in Article 33(2)
2,0	0,5	1,8	1 January 2017

a Animals shall be kept singly only in exceptional circumstances.

For squirrel monkeys, separation from the mother shall not take place before 6 months of age.

TABLE 6.3.

Macaques and vervets⁰

	Minimum enclosure size(m²)	Minimum enclosure volume(m³)	Minimum volume per animal(m³)	Minimum enclosure height(m)	Date referred to in Article 33(2)
Animals less than 3 yrs of age^b	2,0	3,6	1,0	1,8	1 January 2017

a Animals shall be kept singly only in exceptional circumstances.

b An enclosure of minimum dimensions may hold up to three animals.

c An enclosure of minimum dimensions may hold up to two animals.

d In breeding colonies no additional space/volume allowance is required for young animals up to 2 years of age housed with their mother.

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Animals from 3 yrs of age^c	2,0	3,6	1,8	1,8
Animals held for breeding purposes^d			3,5	2,0

a Animals shall be kept singly only in exceptional circumstances.

b An enclosure of minimum dimensions may hold up to three animals.

c An enclosure of minimum dimensions may hold up to two animals.

d In breeding colonies no additional space/volume allowance is required for young animals up to 2 years of age housed with their mother.

For macaques and vervets, separation from the mother shall not take place before 8 months of age.

TABLE 6.4.

Baboons⁰

	Minimum enclosure size(m²)	Minimum enclosure volume(m³)	Minimum volume per animal(m³)	Minimum enclosure height(m)	Date referred to in Article 33(2)
Animals less than 4 yrs of age^b	4,0	7,2	3,0	1,8	1 January 2017
Animals from 4 yrs of age^b	7,0	12,6	6,0	1,8	
Animals held for breeding purposes^c			12,0	2,0	

a Animals shall be kept singly only in exceptional circumstances.

b An enclosure of minimum dimensions may hold up to 2 animals.

c In breeding colonies no additional space/volume allowance is required for young animals up to 2 years of age housed with their mothers.

For baboons, separation from the mother shall not take place before 8 months of age.

7. Farm animals

During agricultural research, when the aim of the project requires that the animals are kept under similar conditions to those under which commercial farm animals are kept, the keeping of the animals shall comply at least with the standards laid down in Directives 98/58/EC, 91/629/EEC⁽²⁾ and 91/630/EEC⁽³⁾.

Table Cattle

7.1.

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Body weight(kg)	Minimum enclosure size(m ²)	Minimum floor area/ animal(m ² / animal)	Trough space for ad-libitum feeding of polled cattle(m/ animal)	Trough space for restricted feeding of polled cattle(m/ animal)	Date referred to in Article 33(2)
up to 100	2,5	2,3	0,1	0,3	1 January 2017
over 100 to 200	4,25	3,4	0,15	0,5	
over 200 to 400	6,0	4,8	0,18	0,6	
over 400 to 600	9,0	7,5	0,21	0,7	
over 600 to 800	11,0	8,75	0,24	0,8	
over 800	16,0	10,0	0,3	1,0	

Table 7.2. Sheep and goats

7.2.

Body weight(kg)	Minimum enclosure size(m ²)	Minimum floor area/ animal(m ² / animal)	Minimum partition height(m)	Trough space for ad-libitum feeding(m/ animal)	Trough space for restricted feeding(m/ animal)	Date referred to in Article 33(2)
less than 20	1,0	0,7	1,0	0,1	0,25	1 January 2017
over 20 to 35	1,5	1,0	1,2	0,1	0,3	
over 35 to 60	2,0	1,5	1,2	0,12	0,4	
over 60	3,0	1,8	1,5	0,12	0,5	

Table 7.3. Pigs and minipigs

7.3.

Live weight(kg)	Minimum enclosure size ^a (m ²)	Minimum floor area per animal(m ² / animal)	Minimum lying space per animal (in, thermoneutral conditions) (m ² /animal)	Date referred to in Article 33(2)
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^a Pigs may be confined in smaller enclosures for short periods of time, for example by partitioning the main enclosure using dividers, when justified on veterinary or experimental grounds, for example where individual food consumption is required.

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Up to 5	2,0	0,2	0,1	1 January 2017
over 5 to 10	2,0	0,25	0,11	
over 10 to 20	2,0	0,35	0,18	
over 20 to 30	2,0	0,5	0,24	
over 30 to 50	2,0	0,7	0,33	
over 50 to 70	3,0	0,8	0,41	
over 70 to 100	3,0	1,0	0,53	
over 100 to 150	4,0	1,35	0,7	
over 150	5,0	2,5	0,95	
Adult (conventional) boars	7,5		1,3	

- a Pigs may be confined in smaller enclosures for short periods of time, for example by partitioning the main enclosure using dividers, when justified on veterinary or experimental grounds, for example where individual food consumption is required.

Table Equines

7.4.

The shortest side shall be a minimum of 1,5 times the wither height of the animal. The height of indoor enclosures shall allow animals to rear to their full height.

Wither height(m)	Minimum floor area/animal(m ² /animal)			Minimum enclosure height(m)	Date referred to in Article 33(2)
	For each animal held singly or in groups of up to 3 animals	For each animal held in groups of 4 or more animals	Foaling box/mare with foal		
1,00 to 1,40	9,0	6,0	16	3,0	1 January 2017
over 1,40 to 1,60	12,0	9,0	20	3,0	
over 1,60	16,0	(2 × WH) ^{2a}	20	3,0	

- a To ensure adequate space is provided, space allowances for each individual animal shall be based on height to withers (WH).

8. Birds

During agricultural research, when the aim of the project requires that the animals are kept under similar conditions to those under which commercial farm animals are kept, the keeping of the animals shall comply at least with the standards laid down in Directives 98/58/EC, 1999/74/EC⁽⁴⁾ and 2007/43/EC⁽⁵⁾.

Table Domestic fowl

8.1.

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Where these minimum enclosure sizes cannot be provided for scientific reasons, the duration of the confinement shall be justified by the experimenter in consultation with veterinary staff. In such circumstances, birds can be housed in smaller enclosures containing appropriate enrichment and with a minimum floor area of 0,75 m².

Body mass(g)	Minimum enclosure size(m²)	Minimum area per bird(m²)	Minimum height(cm)	Minimum length of feed trough per bird(cm)	Date referred to in Article 33(2)
Up to 200	1,0	0,025	30	3	1 January 2017
over 200 to 300	1,0	0,03	30	3	
over 300 to 600	1,0	0,05	40	7	
over 600 to 1 200	2,0	0,09	50	15	
over 1 200 to 1 800	2,0	0,11	75	15	
over 1 800 to 2 400	2,0	0,13	75	15	
over 2 400	2,0	0,21	75	15	

Table 8.2. Domestic turkeys

All enclosure sides shall be at least 1,5 m long. Where these minimum enclosure sizes cannot be provided for scientific reasons, the duration of the confinement shall be justified by the experimenter in consultation with veterinary staff. In such circumstances, birds can be housed in smaller enclosures containing appropriate enrichment and with a minimum floor area of 0,75 m² and a minimum height of 50 cm for birds below 0,6 kg, 75 cm for birds below 4 kg, and 100 cm for birds over 4 kg. These can be used to house small groups of birds in accordance with the space allowances given in table 8.2.

Body mass(kg)	Minimum enclosure size(m²)	Minimum area per bird(m²)	Minimum height(cm)	Minimum length of feed trough per bird(cm)	Date referred to in Article 33(2)
Up to 0,3	2,0	0,13	50	3	1 January 2017
over 0,3 to 0,6	2,0	0,17	50	7	
over 0,6 to 1	2,0	0,3	100	15	
over 1 to 4	2,0	0,35	100	15	
over 4 to 8	2,0	0,4	100	15	

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over 8 to 12	2,0	0,5	150	20
over 12 to 16	2,0	0,55	150	20
over 16 to 20	2,0	0,6	150	20
over 20	3,0	1,0	150	20

Table Quails

8.3.

Body mass(g)	Minimum enclosure size(m ²)	Area per bird pair-housed(m ²)	Area per additional bird group-housed(m ²)	Minimum height(cm)	Minimum length of trough per bird(cm)	Date referred to in Article 33(2)
Up to 150	1,0	0,5	0,1	20	4	1 January 2017
Over 150	1,0	0,6	0,15	30	4	

Table Ducks and geese

8.4.

Where these minimum enclosures sizes cannot be provided for scientific reasons, the duration of the confinement shall be justified by the experimenter in consultation with veterinary staff. In such circumstances, birds can be housed in smaller enclosures containing appropriate enrichment and with a minimum floor area of 0,75 m². These can be used to house small groups of birds in accordance with the space allowances given in table 8.4.

Body mass(g)	Minimum enclosure size(m ²)	Area per bird(m ²) ^a	Minimum height(cm)	Minimum length of feed trough per bird(cm)	Date referred to in Article 33(2)
<i>Ducks</i>					1 January 2017
Up to 300	2,0	0,1	50	10	
Over 300 to 1 200 ^b	2,0	0,2	200	10	
Over 1 200 to 3 500	2,0	0,25	200	15	
Over 3 500	2,0	0,5	200	15	
<i>Geese</i>					
Up to 500	2,0	0,2	200	10	

^a This shall include a pond of minimum area 0,5 m² per 2 m² enclosure with a minimum depth of 30 cm. The pond may contribute up to 50 % of the minimum enclosure size.

^b Pre-fledged birds may be held in enclosures with a minimum height of 75 cm.

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Over 500 to 2 000	2,0	0,33	200	15
Over 2 000	2,0	0,5	200	15
<p>a This shall include a pond of minimum area 0,5 m² per 2 m² enclosure with a minimum depth of 30 cm. The pond may contribute up to 50 % of the minimum enclosure size.</p> <p>b Pre-fledged birds may be held in enclosures with a minimum height of 75 cm.</p>				

TABLE 8.5.

Ducks and geese: Minimum pond sizes⁰

	Area(m ²)	Depth(cm)
Ducks	0,5	30
Geese	0,5	from 10 to 30

a Pond sizes are per 2 m² enclosure. The pond may contribute up to 50 % of the minimum enclosure size.

Table Pigeons

8.6.

Enclosures shall be long and narrow (for example 2 m by 1 m) rather than square to allow birds to perform short flights.

Group size	Minimum enclosure size(m ²)	Minimum height(cm)	Minimum length of food trough per bird(cm)	Minimum length of perch per bird(cm)	Date referred to in Article 33(2)
Up to 6	2	200	5	30	1 January 2017
from 7 to 12	3	200	5	30	
for each additional bird above 12	0,15		5	30	

Table Zebra finches

8.7.

Enclosures shall be long and narrow (for example 2 m by 1 m) to enable birds to perform short flights. For breeding studies, pairs may be housed in smaller enclosures containing appropriate enrichment with a minimum floor area of 0,5 m² and a minimum height of 40 cm. The duration of the confinement shall be justified by the experimenter in consultation with veterinary staff.

Group size	Minimum enclosure size(m ²)	Minimum height(cm)	Minimum number of feeders	Date referred to in Article 33(2)
Up to 6	1,0	100	2	1 January 2017

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7 to 12	1,5	200	2
13 to 20	2,0	200	3
for each additional bird above 20	0,05		1 per 6 birds

9. Amphibians

Table Aquatic urodeles

9.1.

Body length ^a (cm)	Minimum water surface area(cm ²)	Minimum water surface area for each additional animal in group-holding(cm ²)	Minimum water depth(cm)	Date referred to in Article 33(2)
Up to 10	262,5	50	13	1 January 2017
over 10 to 15	525	110	13	
over 15 to 20	875	200	15	
over 20 to 30	1 837,5	440	15	
Over 30	3 150	800	20	

a Measured from snout to vent.

TABLE 9.2.

Aquatic anurans⁰

Body length ^b (cm)	Minimum water surface area(cm ²)	Minimum water surface area for each additional animal in group-holding(cm ²)	Minimum water depth(cm)	Date referred to in Article 33(2)
Less than 6	160	40	6	1 January 2017
from 6 to 9	300	75	8	
over 9 to 12	600	150	10	
over 12	920	230	12,5	

a These conditions apply to holding (i.e. husbandry) tanks but not to those tanks used for natural mating and super-ovulation for reasons of efficiency, as the latter procedures require smaller individual tanks. Space requirements determined for adults in the indicated size categories; juveniles and tadpoles shall either be excluded, or dimensions altered according to the scaling principle.

b Measured from snout to vent.

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Table 9.3. Semi-aquatic anurans

Body length^a(cm)	Minimum enclosure size^b(cm²)	Minimum area for each additional animal in group holding(cm²)	Minimum enclosure height^c(cm)	Minimum water depth(cm)	Date referred to in Article 33(2)
up to 5,0	1 500	200	20	10	1 January 2017
over 5,0 to 7,5	3 500	500	30	10	
Over 7,5	4 000	700	30	15	

a Measured from snout to vent.

b One-third land division, two-thirds water division sufficient for animals to submerge.

c Measured from the surface of the land division up to the inner part of the top of the terrarium; furthermore, the height of the enclosures shall be adapted to the interior design.

Table 9.4. Semi-terrestrial anurans

Body length^a(cm)	Minimum enclosure size^b(cm²)	Minimum area for each additional animal in group-holding(cm²)	Minimum enclosure height^c(cm)	Minimum water depth(cm)	Date referred to in Article 33(2)
Up to 5,0	1 500	200	20	10	1 January 2017
over 5,0 to 7,5	3 500	500	30	10	
over 7,5	4 000	700	30	15	

a Measured from snout to vent.

b Two-thirds land division, one-third water division sufficient for animals to submerge.

c Measured from the surface of the land division up to the inner part of the top of the terrarium; furthermore, the height of the enclosures shall be adapted to the interior design.

Table 9.5. Arboreal anurans

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Body length^a(cm)	Minimum enclosure size^b(cm²)	Minimum area for each additional animal in group-holding(cm²)	Minimum enclosure height^c(cm)	Date referred to in Article 33(2)
up to 3,0	900	100	30	1 January 2017
Over 3,0	1 500	200	30	

a Measured from snout to vent.

b Two-thirds land division, one-third pool division sufficient for animals to submerge.

c Measured from the surface of the land division up to the inner part of the top of the terrarium; furthermore, the height of the enclosures shall be adapted to the interior design.

10. Reptiles

Table Aquatic chelonians

10.1.

Body length^a(cm)	Minimum water surface area(cm²)	Minimum water surface area for each additional animal in group holding(cm²)	Minimum water depth(cm)	Date referred to in Article 33(2)
up to 5	600	100	10	1 January 2017
Over 5 to 10	1 600	300	15	
Over 10 to 15	3 500	600	20	
Over 15 to 20	6 000	1 200	30	
Over 20 to 30	10 000	2 000	35	
Over 30	20 000	5 000	40	

a Measured in a straight line from the front edge to the back edge of the shell.

Table Terrestrial snakes

10.2.

Body length^a(cm)	Minimum floor area(cm²)	Minimum area for each additional animal in group-holding(cm²)	Minimum enclosure height^b(cm)	Date referred to in Article 33(2)
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a Measured from snout to tail.

b Measured from the surface of the land division up to the inner part of the top of the terrarium; furthermore, the height of the enclosure shall be adapted to the interior design.

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up to 30	300	150	10	1 January 2017
Over 30 to 40	400	200	12	
Over 40 to 50	600	300	15	
Over 50 to 75	1 200	600	20	
Over 75	2 500	1 200	28	

a Measured from snout to tail.

b Measured from the surface of the land division up to the inner part of the top of the terrarium; furthermore, the height of the enclosure shall be adapted to the interior design.

11. Fish

11.1. Water supply and quality

Adequate water supply of suitable quality shall be provided at all times. Water flow in recirculatory systems or filtration within tanks shall be sufficient to ensure that water quality parameters are maintained within acceptable levels. Water supply shall be filtered or treated to remove substances harmful to fish, where necessary. Water-quality parameters shall at all times be within the acceptable range that sustains normal activity and physiology for a given species and stage of development. The water flow shall be appropriate to enable fish to swim correctly and to maintain normal behaviour. Fish shall be given an appropriate time for acclimatisation and adaptation to changes in water-quality conditions.

11.2. Oxygen, nitrogen compounds, pH, and salinity

Oxygen concentration shall be appropriate to the species and to the context in which the fish are held. Where necessary, supplementary aeration of tank water shall be provided. The concentrations of nitrogen compounds shall be kept low.

The pH level shall be adapted to the species and kept as stable as possible. The salinity shall be adapted to the requirements of the fish species and to the life stage of the fish. Changes in salinity shall take place gradually.

11.3. Temperature, lighting, noise

Temperature shall be maintained within the optimal range for the fish species concerned and kept as stable as possible. Changes in temperature shall take place gradually. Fish shall be maintained on an appropriate photoperiod. Noise levels shall be kept to a minimum and, where possible, equipment causing noise or vibration, such as power generators or filtration systems, shall be separate from the fish-holding tanks.

11.4. Stocking density and environmental complexity

The stocking density of fish shall be based on the total needs of the fish in respect of environmental conditions, health and welfare. Fish shall have sufficient water volume for normal swimming, taking account of their size, age, health and feeding method. Fish shall be provided with an appropriate environmental enrichment, such as hiding places or bottom substrate, unless behavioural traits suggest none is required.

11.5. Feeding and handling

Fish shall be fed a diet suitable for the fish at an appropriate feeding rate and frequency. Particular attention shall be given to feeding of larval fish during any transition from live to artificial diets. Handling of fish shall be kept to a minimum.

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- (1) Council Directive 98/58/EC of 20 July 1998 concerning the protection of animals kept for farming purposes ([OJ L 221, 8.8.1998, p. 23](#)).
- (2) Council Directive 91/629/EEC of 19 November 1991 laying down minimum standards for the protection of calves ([OJ L 340, 11.12.1991, p. 28](#)).
- (3) Council Directive 91/630/EEC of 19 November 1991 laying down minimum standards for the protection of pigs ([OJ L 340, 11.12.1991, p. 33](#)).
- (4) Council Directive 1999/74/EC of 19 July 1999 laying down minimum standards for the protection of laying hens ([OJ L 203, 3.8.1999, p. 53](#)).
- (5) Council Directive 2007/43/EC of 28 June 2007 laying down minimum rules for the protection of chickens kept for meat production ([OJ L 182, 12.7.2007, p. 19](#)).