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WELFARE OF ANIMALS DURING TRANSPORT – GUIDANCE NOTES

COUNCIL REGULATION (EC) No 1/2005 ON THE PROTECTION OF ANIMALS DURING TRANSPORT AND RELATED OPERATIONS AND THE WELFARE OF ANIMALS (TRANSPORT) (WALES) ORDER 2007

ROAD VEHICLE AND TRAILER SPECIFICATION AND GUIDANCE FOR CONSTRUCTION AND USE

LIVESTOCK (Farm Animals) (Domestic Cattle, Sheep, Goats and Pigs).

EU Regulation 1/2005 (Article 3 and Annex I).

NOTES

- Vehicles and trailers for use on all journeys must comply with PART 1 (Annex I, Chapter II).
- Vehicles and trailers for use on long journeys must additionally comply with the PART 2 (Annex I Chapter VI).
- Vehicles and trailers for use on long journeys require prior inspection and approval (valid for up to 5 years) by Competent Authority (Articles 7 & 18).
- Long Journey is defined (Article 2 (m)) as one that exceeds 8 hours from when the first animals is moved (i.e. loaded).
- Vehicle is defined (Article 2 (z)) as a means of transport fitted with wheels which is propelled or towed.
- Reg. 1/2005 requirements in the table below are a précis of the legal wording in the regulation which should always be consulted.
- Guidance for construction and use is given in order to assist with uniform and practical application of the Regulation.

• This guidance should be read in conjunction with part 1 of this guidance. Limited derogations from some requirements of the Regulation are detailed in Part 1.

PART 1 – ALL VEHICLES and TRAILERS

| Item | Article 3 & Annex I | Reg. 1/2005 'Basic' requirements | Guidance for Construction and use |
|---------------------------------------|--|--|---|
| General | Article 3 | No person shall transport animals or cause animals to be transported in a way likely to cause injury or undue suffering to them. | General 'animal welfare protection' provision which also requires use of a suitable means of transport and loading and unloading facilities, and giving animals sufficient floor area and headroom. |
| Design Construction Maintenance | Article 3 (c) Ch.II 1.1 (a) | Designed, constructed, maintained and operated so as to avoid injury and suffering and ensure the safety of the animals. | Design to high standards using suitable materials and methods. Maintain in good structural and mechanical condition. |
| Strength | Ch.II 1.1 (d) | Withstand stress of movements | Floors, sides, partitions, roof and fittings must be of sufficient strength to 'contain' the animals to be carried, and to withstand load/unload, transport and handling stresses. |
| Safety | Ch.II 1.1 (a) Ch.II 1.1 (d) Ch.III 1.4 (b) | Ensure safety of animals. Prevent escape or falling. Barriers to prevent falling when loading/unloading. | Free of sharp edges, projections and gaps which could cause injury to animals. Secure and escape-proof animal compartment. Barriers to prevent animals falling when load-door is open. |
| Access | Ch.II 1.1 (f) | To animals for inspection and care. | Ability to enter compartment when vehicle is stationary in order to see each animal and to provide appropriate care to it. Access may be through the main loading door, but provision of |

| | | | a separate inspection door giving access to each floor or tier is recommended. |
|-------------------------|--------------------------------|--|---|
| Roof | Ch.II 1.1 (b) | Protect from inclement weather, extreme temperatures, adverse changes in climatic conditions. | A solid roof, as such, is not specified but is considered necessary to protect animals against any adverse weather which might be encountered. |
| Floor | Ch.II 1.1 (g) Ch.II 1.1 (h) | Anti-slip surface. Minimise leakage of urine & faeces. | Strong enough for weight of animals. Floor must be free of 'dangers', obstructions etc. Anti-slip provision could be in the form of chequer-plate, footlocks, a sufficient covering of sand or similar material, or fixed or removable matting. Minimise leakage of urine and faeces does not mean that the floor has to be 'watertight'. |
| Drainage | | No requirement. | Floors should be kept as dry as is possible. It is preferable for excess liquid to drain into a sump or holding tank. |
| Sides / Ends | Ch.II 1.1 (b) | Protect from inclement weather, extreme temperatures, adverse changes in climatic conditions. | Sufficiently enclosed to provide protection from the weather and to prevent escape. Strong enough for the weight of the animals. |
| Ventilation | Ch.II 1.1 (e) Ch.III 2.6 | Maintain appropriate air quality and quantity. Provide sufficient ventilation for number of animals and weather. | Sufficient ventilation for 'worst case' situation – e.g. when vehicle is stationary in hot weather. Size, position and number of ventilation apertures in not specified. A proportion should be adjusted for differing climatic conditions. |
| Size / space / internal | Article 3 (g) | Sufficient floor area and height appropriate for animals and journey. Enough height for | Space for animals to stand in a natural position with head raised. Sufficient space above the |
| height | Ch.II 1.2 | adequate ventilation above animals standing naturally, without hindering their natural | animals for airflow. Floor area – see 'Space allowances'. |

| | | movement. | |
|------------|------------|--|---|
| Space | Ch.III 2.1 | Provide as a minimum floor areas per animal | Minimum floor area is specified in m ² per |
| allowances | | below. | animal. But the regulation allows variation in |
| | Ch.VII | | the figures by the following statements: |
| | | Cattle and calves | |
| | | -Small calves (50kg) - 0.30m² to 0.40m² | Cattle and calves – These figures may vary, |
| | | - Medium calves (110kg) - 0.40m ² to 0.70m ² | depending not only on the animals' weight and |
| | | - Heavy calves (200kg) - 0.70m² to 0.95m² | size but also on their physical condition, the |
| | | - Medium cattle (325kg) - 0.95m² to 1.30m² | meteorological conditions and the likely journey |
| | | - Heavy cattle (550kg) - 1.30m² to 1.60m² | time. |
| | | - Very heavy cattle (>700kg) - >1.60m ² | |
| | | | Sheep and Goats – The area indicated may |
| | | Sheep and goats | vary depending on the breed, the size, the |
| | | Shorn sheep and lambs | physical condition and the length of fleece of |
| | | of 26kg and over - <55kg 0.20m² to 0.30m² | the animals, as well as on the meteorological |
| | | $- >55 \text{kg} > \text{to } 0.30 \text{m}^2$ | conditions and the journey time. As an |
| | | Unshorn sheep - <55kg 0.30m² to 0.40m² | indication: for small lambs, an area of under |
| | | - >55kg > to 0.40m ² | 0.20m² per animal may be provided. |
| | | Heavily pregnant | |
| | | ewes - <55kg 0.40m² to 0.50m² | Pigs – All pigs must at least be able to lie down |
| | | $- > 55 \text{kg} > \text{to } 0.50 \text{m}^2$ | and stand up in their natural position. In order |
| | | Goats - <35kg 0.20m² to 0.30m² | to comply with these minimum requirements, |
| | | - 35kg to 55kg 0.30m ² to 0.40m ² | |
| | | - >55kg >0.40m ² to 0.75m ² | should not exceed 235kg/m². The breed, size |
| | | Heavily pregnant | and physical condition of the pigs may mean |
| | | goats -<55kg 0.40m² to 0.50m² | that the minimum required surface area has to |
| | | | be increased; a maximum increase of 20% may |
| | | <u>Pigs</u> | also be required depending on the |
| | | No table given. | meteorological conditions and the journey time. |

| Pen size | | No maximum and minimum dimensions given. | Length of pen should be limited in order to reduce the effects of sudden change of road speed and to control the number of animals in a group. The long established (since 1975) maximum pen length are recommended – 2.5m for calves, 3.1m for sheep goats and pigs and 3.7m for adult cattle. |
|---|---|---|--|
| Partitions | Ch.II 1.4 | Strong enough to withstand weight of animals. Fittings designed for quick and easy operation. | Partitions of sufficient height, depth and strength should be used as necessary to separate individual or groups of animals. They should provide support and prevent excess movement. Partitions should prevent animals in adjacent pens from biting, kicking or otherwise harming each other. Partition design should also permit adequate airflow and ventilation through the vehicle. |
| Load/unload facilities (Ramp) | Ch.II 2.2 Ch.III 1.3 (a) Ch.III 1.4 (a) | Carry suitable equipment to load and unload animals. Non-slip surfaces. Foot battens, or similar, if ramp steeper than 10°00. | In most cases the vehicle should be fitted with a ramp or lift platform and this equipment must be suitable for the purpose. However it is acceptable in the case of small vehicles carrying limited numbers of small animals which can readily be loaded and unloaded by manual lifting, to use this method provided the welfare of the animals is not compromised. |
| Ramp angles (vehicles built after January 2007) | Ch.III 1.4 (a) | Ramp not steeper than: 20°00 (36.4% to horizontal) for pigs and calves. This is equivalent to a vertical rise of 4 in 11. 26° 34' (50.0% to horizontal) for sheep and | Step (20cm max) may be incorporated at the floor or head of a ramp in order to reduce the slope angle – but is not recommended, especially for young animals. It is recognised that it is difficult to accurately measure the |

| | | cattle. This is equivalent to a vertical rise of 4 in 8. | slope angle of a ramp, particularly when the vehicle is on uneven ground therefore a tolerance of +/- 5° should be allowed. |
|---|-----------------------------|--|---|
| Ramp angles (vehicles in use before January 2007) | | Ramp not steeper than 29° 4' (57%). This is equivalent to a vertical rise of 4 in 7. It is recommended that the slope be no more than: 25° for cattle; 20° for pigs. | If it is impractical or uneconomic in relation to welfare benefits to convert vehicles and trailers built and in use before 5 January 2007 and they comply with The Welfare of Animals (Transport) Order 1997 as amended they may continue in use within the UK until 4 January 2012. |
| Ramp side gates | Ch.III 1.3 (a) | Lateral protections to prevent escape. | Ramp side gates should be sufficiently high to prevent animals falling or jumping off whilst being loaded and unloaded. |
| Lift platform | Ch.III 1.4 (b) | If fitted, must have safety barriers. | Barriers should be sufficiently high to prevent animals being injured or falling or jumping off whilst being loaded and unloaded. |
| Lighting | Ch.II 1.1 (i) Ch.III 1.6 | For inspection and care during transport. During loading and unloading. | Preferably fixed lighting, but may be portable. Fitting, cables etc should be positioned or shielded so that animals cannot interfere with them. |
| Tying | Ch.III 1.11 | If animals are tied ropes/tethers etc must be strong enough, and be quick release and if necessary permit animals to lie down and eat and drink. Animals must not be tied by the horns, antlers, nose rings. | |
| Bedding | Ch.II 1.5 | Appropriate bedding or equivalent material to guarantee comfort & ensure adequate absorption of urine and faeces. | Required only for piglets of less than 10kg, lambs of less than 20kgs, and calves of less than 6 months. Appropriate litter is recommended over bare flooring if bedding is |

| | | | not used for older animals. |
|-----------|---------------------------------|---|---|
| Notice | Ch.II 2.1 | Vehicle clearly and visibly marked to indicate | Company names such as 'Fred Bloggs |
| | | the presence of live animals. | Livestock Transport' would be sufficient. |
| C & D | Ch.II 1.1 (c) Ch.III 1.3 (b) | Vehicle, equipment and load/unload facilities – able to be cleaned & disinfected. | Animal Health Rules may require cleansing and/or disinfection prior to loading animals, and after unloading them. |
| RO-RO use | Ch.II 3.2 | Fitted with sufficient and adequate securing points. Vehicle must be secured to vessel to prevent displacement. | Only required if vehicle is to be carried on a RO-RO vessel. Securing points must be of adequate strength and suitable design to accept ship's equipment. |

PART 2 - ADDITIONAL REQUIREMENTS for VEHICLES and TRAILERS on JOURNEYS of MORE THAN 8 HOURS

| Item | Annex I | Reg. 1/2005 – 'Additional' requirements | Guidance for Construction and use |
|---------------------|-------------------------------------|--|---|
| Roof | Ch.VI 1.1 | Equipped with roof of light colour, and be properly insulated. | Intention is to reduce heating of animal compartment by sun's rays and to insulate against significant changes in external temperature. No thermal value is given for insulation, nor specification of 'light colour'. |
| Partitions | Ch.VI 1.6 Ch.II 1.7 Ch.II 1.8 | Partitions to form 'separate compartments' which provide all animals' free access to water. Partitions capable of being placed in different positions to enable compartment size to be adapted as necessary. | Partitions of sufficient height, depth and strength must be used, as necessary to form pens and to separate animals. There must be provision to adjust pen length by moving or removing at least one partition to suit the species, size and number of animals carried. There must be arrangements which could be portable, to enable water to be offered to each animal as necessary. |
| *Ventilation & fans | Ch.VI 3.1 Ch.VI 3.2 | Designed to maintain 5°C – 30°C (+/-5°C) inside when moving and stationary. Min. nominal capacity 60m³/h/KN of payload. Able to operate for min. 4 hours without engine. | Airflow through and effective ventilation of a livestock vehicle is a complex subject. It is recommended that specialist advice is obtained. Fan ventilation will be needed to achieve the required airflow capability. But there should also be the possibility to provide sufficient emergency ventilation through apertures in the event of fan or power failure. Fan(s) supplying or exhausting air should be suitably positioned in conjunction if appropriate |

| | | | with natural apertures to enable a uniform airflow through the animal compartment that effectively removes heat and moisture produced by the animals. Minimum capacity of 60m³/h/KN = 600M³/h/tonne. 'Payload' should be assumed to be the maximum weight of animal which the vehicle could legally carry, taking both Gross Vehicle Weight and Space Allowances into consideration. |
|----------------------|-----------|--|---|
| *Temperature monitor | Ch.VI 3.3 | Equipped with temperature monitoring system with sensors positioned where poorest environment is experienced, temperature recorded with date and time. | Sensors High temperature is more of a welfare challenge to animals than low temperature. High temperature is more likely when the vehicle is stationary than when moving. Generally the highest temperature will be close to the roof and towards the front of the vehicle when it is moving. The number and position of sensors appropriate to each vehicle will depend upon its design and size and the number of animals carried. 'Continuous' temperature monitoring is recommended but should be at intervals of no more than 15 minutes. Data Recorder Implication is that the sensors should transmit temperature readings to the Data Recorder, which should preferably be carried on the vehicle. It should record the temperature, the |

| | | | identity or position of the sensor and the date and time for each reading. Recorded data must be made available to the Competent Authority (Inspector) when requested. The implication is that this may be either at any time during transport, or after a journey has been completed. But there is no provision which requires retention of Data Records once a journey has been completed. It is recommended that records should be retained for at least 3 years after completion of the journey if a journey log is a requirement. |
|-----------------------|-----------|---|--|
| *Temperature warning | Ch.VI 3.4 | Equipped with warning system to alert driver when temperature reaches upper/lower limits. | Sensors should transmit any temperature reading outside the permitted range to a warning device. Implication is that the 'warning' should be visible or audible at the driving position. |
| *Navigation system | Ch.VI 4.1 | System able to provide and record information as required by Journey Log + open/close of loading flap. Required for all 'new in service' vehicles from 01/01/07 onwards. Required for all vehicles from 01/01/2009. | Navigation System is defined (article 2 (o)) as 'satellite-based infrastructures providing global, continuous, accurate and guaranteed timing and positioning services or any technology providing services deemed equivalent.' EU Commission and Council have yet to determine a full specification for the Navigation System with the detail of what it must achieve and this is unlikely before 2010. In the meantime transporters need only install basic equipment which will: |

| | - Identify the vehicle being monitored Establish the vehicle's position at any time from the point of loading, in transit (perhaps on at 15 or 30 or 60 minute intervals) and at intermediate stops, up to point of unloading Enable limited manual input of certain other data such as opening and closing of the loading flap Record the data either in an on board unit and/or by transmission to a base unit and store the data electronically for 3 years. |
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^{*}Temperature ranges and requirements for recording temperature data and interpretation of navigation systems have yet to be finalised by the EU Commission and may be subject to some variation in the future.

| Water and | Ch.VI 2.1 | Equipped with a water supply from which the | Where it is not practical for a permanent |
|--------------|-----------|--|---|
| water system | | attendant can provide water instantly when | connection to be maintained between the water |
| - | Ch.VI 2.2 | needed. Watering devices must be of suitable | tank and the drinking devices, it must be |
| | | design and positioned for access to water by | possible for the attendant to easily provide |
| | Ch.VI 2.3 | each animal. Carry water supply of capacity | water to the animals whenever necessary. To |
| | | 1.5% of max payload. Ability to check water | avoid wastage/spillage of water and |
| | | level of tank and drain and clean it after | consequent 'wet-standing', it is recommended |
| | | journey. | that the water supply should normally be turned |
| | | | off whilst the vehicle is in motion. |
| | | | 'Payload' should be assumed to be the |
| | | | maximum weight of animal which the vehicle |
| | | | could legally carry taking both Gross Vehicle |
| | | | Weight and Space Allowances into |
| | | | consideration. |

| Specific water requirements for pigs on long distance journeys | Ch.V 1.4 (b) | Pigs may be transported for a maximum period of 24 hours. During the journey they must have continuous access to water. | This is not considered to offer welfare benefits. Can lead to wastage, 'wet-standing' and risk of slipping. |
|---|------------------------|--|--|
| Feed | Ch.VI 1.3 | Carry sufficient appropriate feed for journey. Protect feed from weather and contaminants | Sufficient feed for the whole journey should be available. If necessary feed may be restocked at appropriate pre-arranged points during the journey. |
| Feeding Equipment | Ch.VI 1.4 Ch.VI 1.5 | Carry suitable feeding equipment in vehicle when necessary. Attached if necessary to prevent overturning. Store separately from animals when vehicle is moving, and equipment is not in use. | |
| Bedding | Ch.VI 1.2 | Bedding or equivalent material appropriate for the animals – which must absorb urine and faeces adequately. | |
| Space | Ch.III 2.1 | At least comply with figures in chapter VII. | |
| allowances | Ch.VII A | See part 1 above. | |
| Restrictions | Ch.VI 1.9 | On long journeys except when accompanied by their mother, calves must be older than 14 days and pigs heavier than 10kg. | |