

**PRIMARY
 ENCLOSURE-
 VENTILATION**

A transport primary enclosure, such as a compartment, transport cage, carton, or crate, used to transport an animal in commerce must be adequately ventilated.
 [3.14, 3.36, 3.61, 3.87, 3.113, 3.137]

Criteria

For transport enclosures permanently affixed to the primary conveyance with the front opening as the only source of ventilation, the enclosure ventilation area must:

- be positioned to prevent blockage of front opening
- open directly to:
 - the outside
 - an unobstructed aisle way or passageway inside the conveyance
- be at least 90% of the total surface area
- be covered with bars, wire mesh, or smooth expanded metal having air space

Species Specific

Dogs & Cats
 Transport enclosures that are removable from the primary conveyance, such as crates, cartons, or cages, must have walls with ventilation openings that meet the following requirements: [3.14(c)]

Number of ventilated walls	Position of the walls	Required ventilation area
1	front	90%
2	opposing walls	16% of each wall
3	2 opposing walls	8% of total surface area of the two opposing walls
	3 rd wall	50% of the 3 rd wall
4	4 opposing	8% of each wall

The ventilated surface area must:

- be 14% of the total combined surface area of all the walls for the whole enclosure, and [3.14(c)(1)]
- have at least 1/3 of the total ventilation area located on the upper 1/2 of the enclosure [3.14(c)(1)(iv)]

Each wall with a ventilation opening must have a projecting rim to:

- prevent obstruction of openings
- provide a minimum of 0.75" air circulation space between the enclosure and any wall or object

Guinea Pigs & Hamsters

Transport enclosures that are removable from the primary conveyance, such as crates, cartons, or cages, must have walls with ventilation openings that meet the following requirements: [3.36]

Number of ventilated walls	Position of the walls	Required ventilation area
1	front	90%
2	opposing walls	16% of each wall
4	4 opposing	8% of each wall

The ventilated surface area must have [3.36(a)(5)]

- at least 1/3 of the total ventilation area located on the upper 1/2 of the enclosure, and
- at least 1/3 of the total ventilation area located on the lower 1/2 of the enclosure

Each wall with a ventilation opening must have a projecting rim to [3.36(a)(6)]

- prevent obstruction of openings
- provide a minimum of 0.75" air circulation space between the enclosure and any wall or object

Rabbits

Transport enclosures that are removable from the primary conveyance, such as crates, cartons, or cages, must have walls with ventilation openings that meet the following requirements: [3.61]

Number of ventilated walls	Position of the walls	Required ventilation area
1	front	90%
2	opposing walls	16% of each wall
4	4 opposing	8% of each wall

The ventilated surface area must have: [3.61(a)(4)]

- at least 1/3 of the total ventilation area located on the upper 1/2 of the enclosure, and
- at least 1/3 of the total ventilation area located on the lower 1/2 of the enclosure

Each wall with a ventilation opening must have a projecting rim to: [3.61(a)(5)]

- prevent obstruction of openings
- provide a minimum of 0.75" air circulation space between the enclosure and any wall or object

Nonhuman Primates

Transport enclosures that are removable from the primary conveyance, such as crates, cartons, or cages, must have walls with ventilation openings that meet the following requirements: [3.87(c)]

Number of ventilated walls	Position of the walls	Required ventilation area	Location of openings
1	front	90%	
2	opposing walls	16% of each wall	above midline of each wall
4	4 opposing	8% of each wall	above midline of each wall

Each wall with a ventilation opening must have a projecting rim to [3.87(c)(2)]

- prevent obstruction of openings
- provide a minimum of 0.75" air circulation space between the enclosure and any wall or object

Marine Mammals

Pinnipeds, Polar Bears, & Sea Otters

Transport primary enclosures that are removable must have:

- air inlets that: [3.113(a)(8)]
 - ▶ are at heights which provide cross ventilation at all levels (particularly when the marine mammal in a prone position)
 - ▶ are located on all 4 sides of the enclosure
 - ▶ cover not less than 20% of the total surface area of each side of the enclosure
- projecting rims or other spacing devices: [3.113(a)(9)]
 - ▶ placed on any ends and sides with ventilation openings
 - ▶ provide a minimum air circulation space of 3.0 inches (7.6 cm) between the enclosure and any adjacent cargo/conveyance wall
- sufficient air circulation space to maintain the temperatures required by the transportation standards [3.113(a)(10)]

Other Animals

Transport enclosures that are removable from the primary conveyance, such as crates, cartons, or cages, must have walls with ventilation openings that meet the following requirements:

[3.137(a)(4), 3.137(g)]

Number of ventilated walls	Position of the walls	Required ventilation area
1	front	90%
2	opposing walls	16% of each wall
4	4 opposing	8% of each wall

The ventilation area must: [3.137(a)(4)]

- have at least $\frac{1}{3}$ of the total ventilation area located on the **upper** $\frac{1}{2}$ of the enclosure, and
- have at least $\frac{1}{3}$ of the total ventilation area located on the **lower** $\frac{1}{2}$ of the enclosure

Each wall with a ventilation opening must have a projecting rim to:
[3.137(a)(5)]

- prevent obstruction of openings
- provide a minimum of 0.75" air circulation space between the enclosure and any wall or object

