

SPECIFICATION RT57-02

SPECIFICATION FOR DOG CANOPY ON DOUBLE CAB LDV

1. GENERAL

- 1.1. The South African Police Service requires dog cages to be installed in double cab canopies.
- 1.2. The canopy must be mounted on the existing loading body and must be of sturdy and robust construction to withstand rough handling. If a canopy is already fitted, please comply only from par. 2.8 (par. 2.4 not to be dismissed)

Particulars of offer: _____

- 1.3. If there are any deviations from the specification, it must be listed in order of sequence. A detailed drawing of the intended deviations must be submitted with the bid.

Particulars of offer: _____

- 1.4. This specification will serve as a universal specification for all the different makes and models of double cabs. The sizes of the canopy may differ but the size of the dog cage must remain the same.

Particulars of offer: _____

- 1.5. The first canopy will be considered a prototype and must be inspected and accepted by Expert Services before full production can begin.

Particulars of offer: _____

2. SPECIFICATION

2.1. *Body*

- 2.1.1. The side walls of the canopy must be manufactured from a minimum of 1, 2 mm (dubbel sided) electro galvanized steel plate or chromo prep or similar. The plate must be stiffened to ensure rigidity and to prevent drumming.

State: Thickness of material _____

- 2.1.2. The side walls must be suitably reinforced with a frame or any other suitable method to form a rigid structure.

State: Reinforcement _____

- 2.1.3. The canopy must be sturdily bolted onto the existing loading body (front and side panels and rear) and must fit tight.

Particulars of offer: _____

- 2.1.4. All sharp corners must be rounded and edges must be burr free and without sharp edges.

Particulars of offer: _____

- 2.1.5. The gap at any point between the canopy and cab of the vehicle must be a minimum of 35 mm. No fouling condition should occur between canopy and cab under laden and rough road conditions.

Particulars of offer: _____

- 2.1.6. The canopy must be equipped with an aerofoil dust deflector. This aerofoil must not cover the rear warning lights.

Particulars of offer: _____

- 2.1.7. The sides of the canopy must slant inwards in order to follow the profile of the cab sides.

Particulars of offer: _____

2.2. Roof

- 2.2.1. The roof must be manufactured from minimum 1,2 mm steel plate (see paragraph 2.1.1) and affixed to the side walls in such a method as to enhance aerodynamics and be subjected to S A Police Service approval.

Particulars of offer: _____

- 2.2.2. The inside of the roof must be suitably supported to prevent drumming and sagging

State: Reinforcement _____

- 2.2.3. External drip rails to form part of the roof structure on the side of the body.

Particulars of offer: _____

2.3. Dimensions

- 2.3.1. The roof of the canopy must be 930 mm above the bench, up to the intersection of the 30-degree angle, to meet cab height.

State: Height _____

- 2.3.2. The width and the length of the canopy must be the same as the existing vehicle loading body.

Particulars of offer: _____

- 2.3.3. The front of the canopy must make an angle of 30 degree from the height of the cabin roof, to the height of the canopy roof, with the purpose of lowering the air resistance.

Particulars of offer: _____

2.4. Door

- 2.4.1. The back door must be constructed of a minimum of 1,2 mm steel plate (see paragraph 2.1.1) and reinforced in such a manner as to withstand rough handling. (Drainage holes must be provided at the base, to prevent collection of water.)

- 2.4.2. The width of the door must be approximately 800 mm or proportional to the size of the canopy.

State: Door width _____

- 2.4.3. The door must be mounted to the canopy body with a full-length stainless-steel piano hinge.

Particulars of offer: _____

- 2.4.4. The outside of the door must be fitted with a galvanised and sturdily mounted swing handle of at least 30 x 4 mm flat bar. The catch on the canopy must be of the same material. A stainless-steel back plate of adequate size must be provided to prevent damage to paint when door is opened or closed.

Particulars of offer: _____

- 2.4.5. The outside of the door must be fitted with two "anti-luce" type locks to accept padlocks. Two stainless steel back plates of adequate size must be provided where the door makes contact with the canopy at these locks.

Particulars of offer: _____

- 2.4.6. The door must be able to open completely and must be fitted with rubber (pin and hole type door catch) to hold the door stable in the open position.

Particulars of offer: _____

- 2.4.7. The full-length piano hinge, the locking handle, the "anti-luce" fasteners and retainers, must be zinc plated prior to painting (if painting is required).

Particulars of offer: _____

- 2.4.8. Wedges must be fitted to the inside of the door opening and/or to the handle to ensure that the door closes properly and does not rattle while travelling.

Particulars of offer: _____

2.5. Benches

- 2.5.1. Two benches must be installed inside the loading body. One each side over the full length reaching from the door to the back of the dog compartment.

Particulars of offer: _____

- 2.5.2. The benches must be manufactured of minimum of 1,2 mm electro galvanized steel plate to form a bench and supports. The supports can be of square tubing or equivalent.

Particulars of offer: _____

- 2.5.3. The benches must be mounted directly on top of the wheel arches and must be 320 mm wide.

Particulars of offer: _____

- 2.5.4. The benches must have strengthened mountings into the side walls to prevent tearing loose through excess use.

Particulars of offer: _____

2.6. **Windows**

- 2.6.1. There must be two opening on each sides of the canopy. The one opening at the dog cage and one at the passenger compartment.

Particulars of offer: _____

- 2.6.2. The size of the windows at the passenger side must be 300 mm high x 500 mm wide and spaced accordingly. The size of the dog cage windows must be 600mm wide and 450mm high and spaced accordingly.

Particulars of offer: _____

- 2.6.3. The openings must be equipped with steel gauzed screens on the inside of the openings.

Particulars of offer: _____

- 2.6.4. A fixed window of approximately 700 x 300 mm must be fitted to the front of the canopy. A fixed window of 600 mm x 400 mm must also be fitted to the door of the canopy. These window panes must also be manufactured of 4 mm toughened glass to SABS specifications.

State: Window sizes _____

- 2.6.5. PVC side covers (or similar material) must be supplied and fitted on both openings. The covers must be of a durable waterproof material and be capable of being rolled up and tied. The covers must be properly seamed. The colour of these covers must be blue. A re-enforcement must be fitted inside the seams of the covers to keep them straight at all times.

State: Material _____

- 2.6.6. A method must be supplied to tie the canvas cover properly to the canopy in the rolled down position, so as to cover the entire side openings. The covers must not flap when driving with cover rolled up or down and tied. Rope may not be used.

State: Method _____

2.7. **Window Guards**

- 2.7.1. Welded mesh guards of size approximately 25 mm x 50 mm x 5 mm thick or similar must be fitted to the side openings and the back window, but not to the front window.

Particulars of offer: _____

- 2.7.2. The guards must be mounted on the inside of the side openings and 50 mm away from the back window on the inside thereof. All guards must be painted the same colour as the canopy and must be able to withstand a minimum of 120 hours salt spray.

Particulars of offer: _____

- 2.7.3. The guards must be mounted with suitable tamper-proof rivets or equivalent.

State: Mounting _____

- 2.7.4. The guards must be treated with an approved E-cote before painted.

State: Type of treatment _____

- 2.7.5. Two strips of flat bar 20 mm x 4 mm must be welded vertically on the inside in front of each window to form three (3) equally spaced gaps.

Particulars of offer: _____

- 2.7.6. These bars must be horizontally supported in the middle by the same flat bar as in 2.6.5.

Particulars of offer: _____

2.8. Air Inlet

- 2.8.1. An air inlet must be provided on the front of the canopy to enable fresh air to flow freely through the canopy at all times.

Particulars of offer: _____

- 2.8.2. The air inlet must consist of:

- 2.8.2.1. A hole on the front slanted surface of the canopy with dimensions of 100 mm x 200 mm. This hole must be provided with a 10 mm outward shoulder to prevent water from leaking into the canopy.

Particulars of offer: _____

- 2.8.2.2. A suitable cover with a maximum inlet opening of 300 mm x 25 mm must be mounted over the hole.

Particulars of offer: _____

2.9. Dog Compartment:

- 2.9.1. Provision must be made for a compartment in the front area of the loading body.

Particulars of offer: _____

- 2.9.2. The length of the compartment must not be smaller than 800mm long and the floor of the compartment must be positioned above the wheel arches.

Particulars of offer: _____

- 2.9.3. The compartment must be divided in two halves by means of a partitioning. Adequate lights to be installed in each compartment with a separate switch in the cab. The lights must be protected so the dogs do not bite them.

Particulars of offer: _____

- 2.9.4. The partitioning must be divided in two parts. The bottom half must consist of reinforced steel plate and the top half of 5mm welded mesh up to the roof.

Particulars of offer: _____

- 2.9.5. All partitioning and grids must be properly reinforced and properly secured to the canopy.

Particulars of offer: _____

- 2.9.6. Drain holes must be provided in each dog compartment for easy cleaning with water.

Particulars of offer: _____

2.9.7. The size of the drain hole must be adequate to remove hair when the cage is cleaned and not to big so that the dog can injure his foot or toe in the hole.

Particulars of offer: _____

2.9.8. The doors to the dog cages must be installed inside the canopy and not on the sides.

Particulars of offer: _____

2.9.9. The hinges of the doors must be place near the side of the canopy so that the locks of the doors are place in the centre of the canopy.

Particulars of offer: _____

2.9.10. Sufficient hinges must be provided on each door

Particulars of offer: _____

2.9.11. The doors must seal tightly with no rattling during transit.

Particulars of offer: _____

2.9.12. The sizes of the dog cage doors must be:

2.9.12.1. Height – 750mm

2.9.12.2. Width – not smaller than 500mm

Particulars of offer: _____

2.9.13. A suitable locking device must be fitted to the dog cage doors to prevent the doors accidentally opening and endangering the passengers and the dogs. Handles to open the doors must be fitted.

Particulars of offer: _____

2.9.14. The floor of the cage and partioning up to the grid must be rubberised.

Particulars of offer: _____

2.9.15. The space underneath the floor of the dog cage must be sealed off with a plate and a lockable flap must be installed. This space can be utilised as a storage facility.

Particulars of offer: _____

2.9.16. The rest of the floor of the loading body also must be rubberised as to prevent the dog slipping when he exits or enters the dog cage.

Particulars of offer: _____

2.9.17. The minimum rubberising must be 1mm thick.

Particulars of offer: _____

2.10. **Warning Lights Roof (rear)**

- 2.10.1. Two blue LED flashing light to be mounted on the back of the canopy spaced adequately near the top corners of the canopy. Lights will be supplied by the SAPS. Switches to be installed in the cab.

Particulars of offer: _____

- 2.10.2. All wiring must be channelled to prevent any fiddling from the inside.

Particulars of offer: _____

2.11. **Preparation and Paint**

- 2.11.1. All interior and exterior ferrous metal surfaces must be metal finished to remove burrs, welding splatter and scale, and must be thoroughly cleaned by using a suitable detergent. Apply iron phosphate or recommended rust preventative to ensure no flash rusting occurs.

2.11.2. Particulars of offer: _____

- 2.11.3. All joints must be rendered waterproof by welding and rust-proofing by zinc chromate sealant.

2.11.4. Particulars of offer: _____

- 2.11.5. Prime all exterior surfaces with zinc chromate primer to give a minimum dry film build of 40 microns. Prime all interior surfaces to give a minimum dry film build of 25 microns. Only an approved primer may be used. This layer is subjected to inspection and acceptance by Expert Services, S A Police Service before any further painting may be undertaken.

2.11.6. Particulars of offer: _____

- 2.11.7. The whole inside and outside of the canopy must be spray painted to give the following minimum Top Coat Build:

- 2.11.8. All exterior surfaces to 40 microns minimum. Total film build is 80 microns minimum. (Primer 40 microns plus Top Coat 40 microns). All interior surfaces 35 microns to give a total dry build of 60 microns minimum. The paint must be the same colour as the Cab. The paint to comply with a Turbo Fleet 2K enamel or approved equivalent.

Particulars of offer: _____

- 2.11.9. Protection of boxed sections:

- 2.11.9.1. All interior surfaces of such areas must be coated with an approved fogging wax to a 10-15 micron dry build.

Particulars of offer: _____

- 2.11.9.2. Canopies must be painted the same colour as the vehicle.

Particulars of offer: _____

3. **WORKMANSHIP AND MATERIAL**

- 3.1. Material must be new and of the appropriate grade and size. Workmanship and finish must be in accordance with high quality trade practice.
- 3.2. Welds, whether spaced or full, must be free from slag inclusions and must have no porosity.

- 3.3. Any cavities where dirt may collect must be sealed with silicon sealer, or similar.

Particulars of offer: _____

4. INFORMATION WITH BID

- 4.1. Additional information for evaluation of the offer may be supplied.
- 4.2. Deviation from the specification must be listed in order of sequence. Where no deviations are listed, the offer shall be accepted as complying fully with the specification requirements.

Particulars of offer: _____

5. INSPECTION AND ACCEPTION

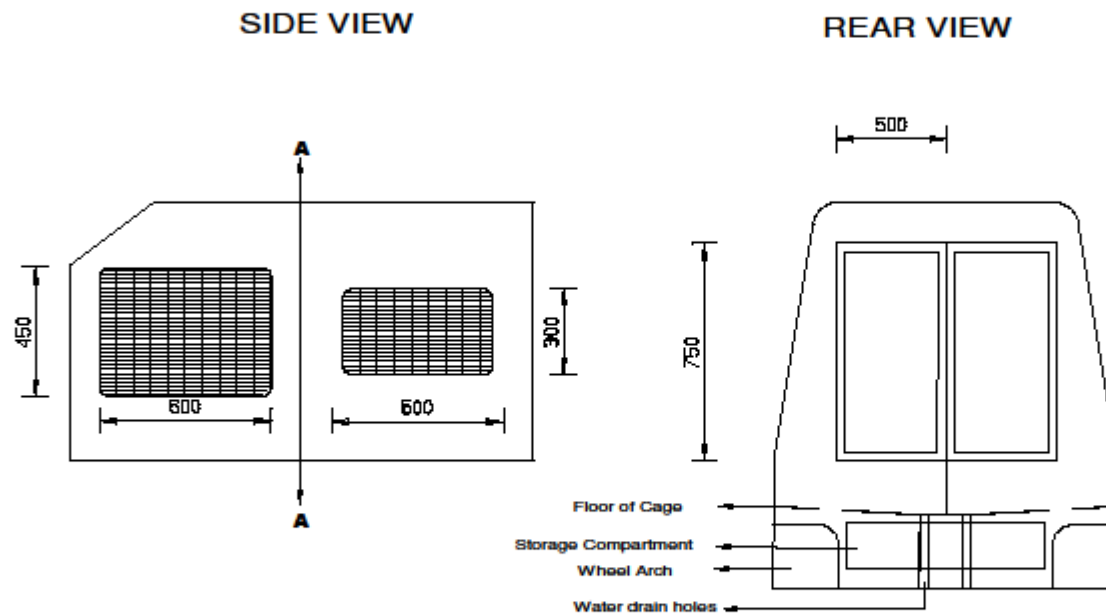
- 5.1. The first-off unit shall be considered as a prototype and shall be subjected to inspection and acceptance by Expert Services, S A Police Service. All further units shall be constructed in a similar manner to that of the approved prototype.
- 5.2. The successful bidder will be responsible for carrying out all necessary pre-inspection tests. If problems exist after inspection as described in 5.1, then the cost of all further inspections will be carried by the successful bidder.

Particulars of offer: _____

6. GUARANTEE

All work must be guaranteed under the General Condition of Contract, Annexure A.

Particulars of offer: _____



NOTES

1. Drawing to be read in conjunction with Specs 2761/II.
2. Drawing not to scale.

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Amendments

NO.	DATE	DESCRIPTION



Typical Drawing

DOGS CANNOPY ON D/CASE LON

REVISIONS

NO.	DATE	DESCRIPTION