

Category CAN4 Fibreglass half door

Description	Fibreglass Canopy half door on LDV's
Specification	• Height same as vehicle cab roof. • Length and width according to vehicle load box dimensions. • 2 windows either side of which rear windows must slide open. • Size of front window to equal the size of cab window. • Door window to be as large as practically possible. • Tear drop window fitted to rear. • Door to have lockable handle. • Colour: White. • At least 4 layers of fibre glass must be used in the construction of the canopy for strength. • 3 Layers of fibre glass on the rest of the canopy. • Canopy to be reinforced with 3 beams diagonally across. • Canopy to have mounting points for a ladder rack and be able to carry max of 200kg on ladder rack. • Canopy roof to be reinforced with 2 side beams. • Rear door to fit inside the frame of canopy. • Additional support in rear pillars. • Minimum of two years manufacturers guarantee. • Submit sketch of proposed canopy with main dimensions.
Roll Bar	• SABS approved 76 mm (2mm material thickness). • Roll bars to be fitted to vehicle load box base or on load box reinforced points to accommodate ladder rack. • Roll cage to follow contours of vehicle cab • Front roll bar to be fitted to vehicle load box base (Floor) or fitted to the provided reinforced points on the side of the loadbin (Factory fitted). • Front and rear roll bar to form roll cage to follow contours of vehicle cab. • Front and rear roll bar to form roll cage to follow contours of canopy. • Front roll bar to be single pipe (76 x 2 mm). • Rear roll bar to be single pipe (76 x 2 mm). • Roll bars to be fitted to vehicle load box base - in doing so, allowing space for vehicle rear light maintenance. • Roll bars to be fitted with a foot plate not less than 100 mm x 300 mm x 5 mm mild steel plate, mounted with 10 mm bolts. • A fish plate of the same size as foot plate to be mounted underneath, to support mounting of roll cage. (Fish plate/ support plate). • Front and rear roll bar to be jointed together with 57 mm x 2 mm pipe on either side.

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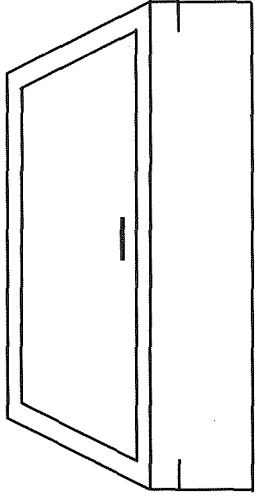
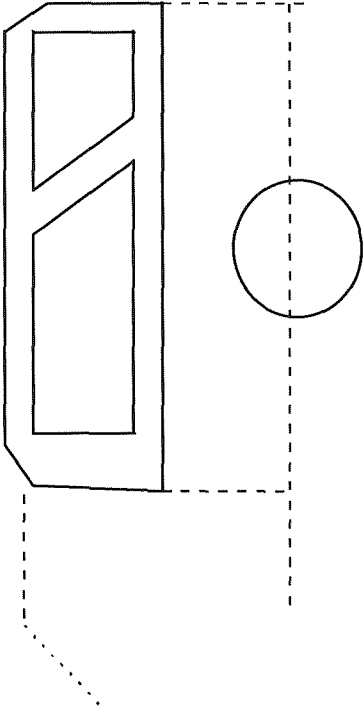
Options:	Amber Revolving light
	• 12-volt heavy duty (vibration proof) Led strobe light to be Mounted on R/H side of the ladder rack. • All wiring neatly in ducting. • A separate switch with a warning light to be fitted in the cab to control the light. • Run the wiring through the ladder rack frame from front to the back. • A waterproof wiring connection from cab to canopy on the front of canopy.
	Working lights
	• LED 60W sport light to be mounted to the side of the ladder rack, above front doors. • LED 60W flood lamps to be mounted to the ladder rack as working lights. On the side of ladder rack on provided brackets, close to the rear of the ladder rack. • The light should be of the high beam focus type allowing an ample focus of the beam on the subject and its immediate surroundings. A wide angle or telescopic beam is deemed unsuitable. • Fitment to brackets or mounting plates provided on ladder rack. • All wiring neatly in ducting. • A separate switch is to be fitted in the cab to control the lights. • Run the wiring through the ladder rack frame from front to the back. • A water and dust proof wiring connection from cab to canopy on the front of canopy, IP65 rating.
	Link stick holder
	• Link stick box bend up of 1.6mm tread plate, lined with carpet (1600mm long x 250mm wide x 120 high) fixed to the r/side in the roof of canopy. Securing strap for link sticks to be provided.
	Ladder Rack
	• LR1 • LR2 • LR3 • LR4
	Toolbox
	• TBX1 • TBX2

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Category CAN5 AA Butterfly canopy

Description	An AA type canopy is designed to be fitted to the rim of the load bin of an LCV. It incorporates a slide out drawer fitted to the floor of the load bin with a partitioner mounted above the drawer. It is further designed to accommodate a ladder rack mounted on top of front and rear roll bars.
Specification	• <u>Dimensions</u> • should be adapted by body builder to fit all makes of LDV's canopy • <u>Material and accessories</u> • Frame: 1.2mm electro galvanized sheet metal (25/25 plated) or 2mm hot rolled • Doors: 1.6mm aluminium sheeting or 2mm aluminium thread plate • Support plates: 5mm mild steel sheeting • Hinges: 1.6mm stainless steel piano type • Gas struts: 250nm Autoliv type • Door handles: 1.6mm mild steel sheeting • Turn buckles: 703L type (door and tail gate locks) • Door rubber seal: 20x6mm Insertion type • Interior lights: 2x 40w lights fitted to inside of doors with switch in cab. • Fire extinguisher: 1x 9 kg dry powder type • <u>Construction</u> • All exterior joints to be CO2 welded, grinded, smoothed with feather light body filler and painted with etch primer. • Hinges and door handle to be bolted or riveted to frame and doors • Brackets to be welded to frame and doors to secure gas struts. • All inner joints to be sealed with polyurethane sealant prior to applying etch primer. • Should roll bars required to be fitted, provision should be made to integrate the front and rear support plates with the roll bars in the manufacturing process. (See specs RBR3) • <u>Finish</u> • Frame and doors to be painted with MS primer prior to applying at least two coats of white polyurethane or 2K paint. • Front and rear support plates to be hot dip galvanized. • <u>Material and accessories</u> • Side rails: 60x20mm mild steel • Drawer: 1.2mm electro galvanized sheet metal • Rollers: 30x10mm heavy-duty roller bearings • Stopper: 837 type spring bolts • <u>Construction</u> • All parts to be joint by CO2 welding and painted with etch primer. • <u>Finish</u> • All parts to be painted with MS primer and finished with two coats of aluminium paint. • <u>Partitions</u> • <u>Material</u> • Frame: 1.6mm hot dip galvanized sheeting

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	• <u>Construction</u> • All parts to be joint by CO2 welding. • All cut edges to be painted with etch primer. • <u>Finish</u> • Frame to be painted with aluminium paint. • Fitment and installation • All holes to be drilled in load bin prior to installation. • All drilled holes to be painted. • All painted holes to be treated with tetral once paint has cured. • Dust seal kit to be fitted to rear entrance of load bin and tailgate with 4.8mm pop rivets. • Turnbuckle to be secured between side of load bin and tailgate with 6.5mm mono bolts. • Side rails of drawer to be secured to floor of load bin with 10mm bolts and lock nuts. • Front and rear roll bars to be secured to floor and rear inside panel of load bin with 10mm bolts, lock nuts and fish plates. (In cases where roll bars are required) • Spring bolt stopper to be secured to drawer with 6.5mm mono bolts. • Partitioner to be secured to top of side rails with 8mm bolts and lock nuts. • Acro band sealer to be secured to bottom of canopy rim. • Canopy to be secured to rim of load bin and support plates with 8mm bolts and lock nuts. • 6mm Insertion rubber to be secured to sides of door opening on frame to prevent water and dust from entering canopy. • 6mm Insertion rubber to be secured to face of rear support plate. • Protection rubber to be secured below turnbuckle on side of canopy frame to prevent shaving by padlock. • Lights to be fitted to inside of doors and connected to electrical system of vehicle with switch in cab. • Fire extinguisher to be secured to bracket in front corner of load bin. •
Roll Bars	• SABS approved 76 mm (2mm material thickness) • Roll bars to be fitted to vehicle load box base or on load box reinforced points to accommodate ladder rack. • Roll cage to follow contours of vehicle cab • Front roll bar to be fitted to vehicle load box base (Floor) or fitted to the provided reinforced points on the side of the loadbin (Factory fitted) • Front and rear roll bar to form roll cage to follow contours of vehicle cab • Front and rear roll bar to form roll cage to follow contours of canopy • Front roll bar to be single pipe (76 x 2 mm)

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	• Rear roll bar to be single pipe (76 x 2 mm) • Roll bars to be fitted to vehicle load box base - in doing so, allowing space for vehicle rear light maintenance • Roll bars to be fitted with a foot plate not less than 100 mm x 300 mm x 5 mm mild steel plate, mounted with 10 mm bolts • A fish plate of the same size as foot plate to be mounted underneath, to support mounting of roll cage. (Fish plate/ support plate) • Front and rear roll bar to be jointed together with 57 mm x 2 mm pipe on either side • Where an "AA" butterfly canopy is fitted, rear roll bar must still go through to reinforced panel of canopy on the floor
Drawer system	• A removable drawer system to be manufactured within a framework of 25x25 tubing 1680 long x 300wide and 390mm high. Top and side section of drawer system to be covered by 1.6m chequered plate. • The last 655 mm of framework to be converted into a toolbox with a lid 40mm thick on heavy duty hinges. The inside of toolbox to be lined with 6mm industrial ply. Boxes must be sealed to the edge of load box to prevent small items to get lost out of toolboxes. (6mm ply) • Bottom drawer 600x245x225mm, manufactured from 1.6mm aluminium sheeting. • Top drawer 1025x245x105mmmm, manufactured from 1.6mm aluminium sheeting. • Top and bottom drawers will run on steel runners with roller bearings. (max load 100kg) • Both drawers lined with rubber. • Top drawers must have a divider at 550mm and 9mm ply lids on both sections. • Drawers to be fitted with stop mechanism, to prevent falling out, but still be removable. • Face of drawers manufacture from aluminium tread plate and fitted with handles. • Drawer system secured to load box with stainless steel bolts. • An aluminium plate (95 x 40 x 6mm) bolted and welded to the drawer front to be used with anti -loose fasteners as the locking device.
Cupboards	• Rear cupboards to be built with 9mm ply on aluminium supports, partitions to be fitted above drawer systems to form closed unit, with no access to load box area. • Rear cupboards on both sides of canopy to be fitted with a dividing shelf that is removable and kept in place by two 4mm bolts. • 25mm angel on all shelves to prevent objects from falling out.

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Cargo slide	- Sliding platform to be fitted on load box floor length 1700 x width 700x 50mm. - Platform must be load-bearing +/- 100kg on end fully extended. - A bulkhead frame with cover plate on the front of cargo slide 300mm high with side supports of 700mm long. Fitted at angle of ± 30 degrees. - Steel sliding rails with seven roller bearings (6201zz) on either side of platform, with a locking device to lock platform in the closed and extracted position. - Three securing nylon straps 25mm and ratchets to be supplied (1000mm long) - One securing nylon strap 25mm and ratchets to be supplied (2500 mm long) - Adjustable slide to secure straps on both sides of sliding table, on front bulkhead and at rear of table only a smaller section of 200mm. - Two nylon blocks (80 x 40 x 15mm) to be riveted to the tailgate to support the cargo slide when fully extracted. The front of the block to be tapered, to allow for easy sliding of slide onto the blocks.
Options:	Amber Revolving light 12-volt heavy duty (vibration proof) led strobe light to be mounted on R/H side of the ladder rack. - All wiring neatly in ducting - A separate switch with a warning light to be fitted in the cab to control the light. - Run the wiring through the ladder rack frame from front to the back - A waterproof wiring connection from cab to canopy on the front of canopy Working lights - LED 60W sport light to be mounted to the side of the ladder rack, above front doors. - LED 60W flood lamps to be mounted to the ladder rack as working lights. On the side of ladder rack on provided brackets, close to the rear of the ladder rack. - The light should be of the high beam focus type allowing an ample focus of the beam on the subject and its immediate surroundings. A wide angle or telescopic beam is deemed unsuitable. - Fitment to brackets or mounting plates provided on ladder rack. - All wiring neatly in ducting - A separate switch is to be fitted in the cab to control the lights. - Run the wiring through the ladder rack frame from front to the back - A water and dust proof wiring connection from cab to canopy on the front of canopy, IP65 rating Link stick holder

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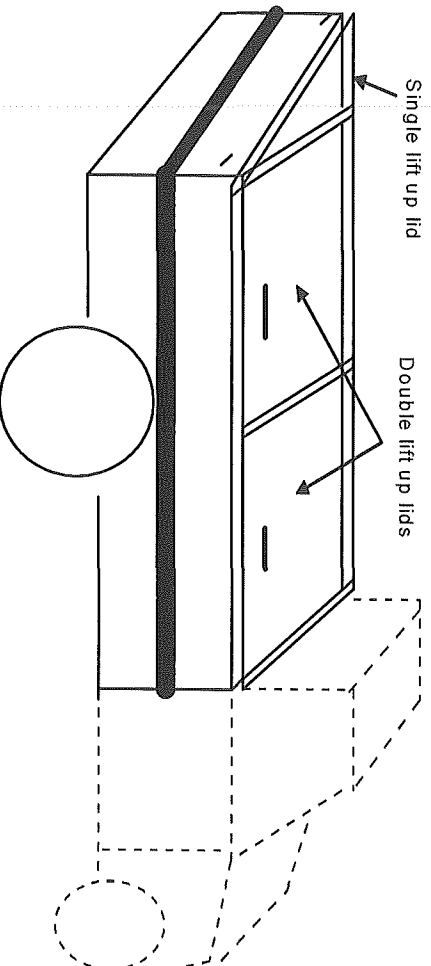
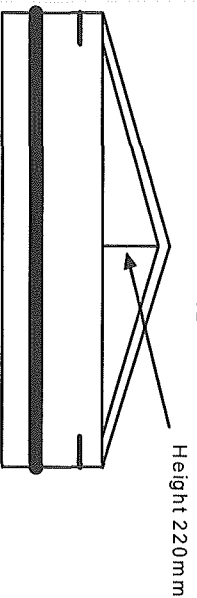
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	• Link stick box bend up of 1.6mm tread plate, lined with carpet (1600mm long x 250mm wide x 120 high) fixed to the r/side in the roof of canopy. Securing strap for link sticks to be provided.
	Ladder Rack • LR1 • LR2 • LR3 • LR4

REAR VIEW

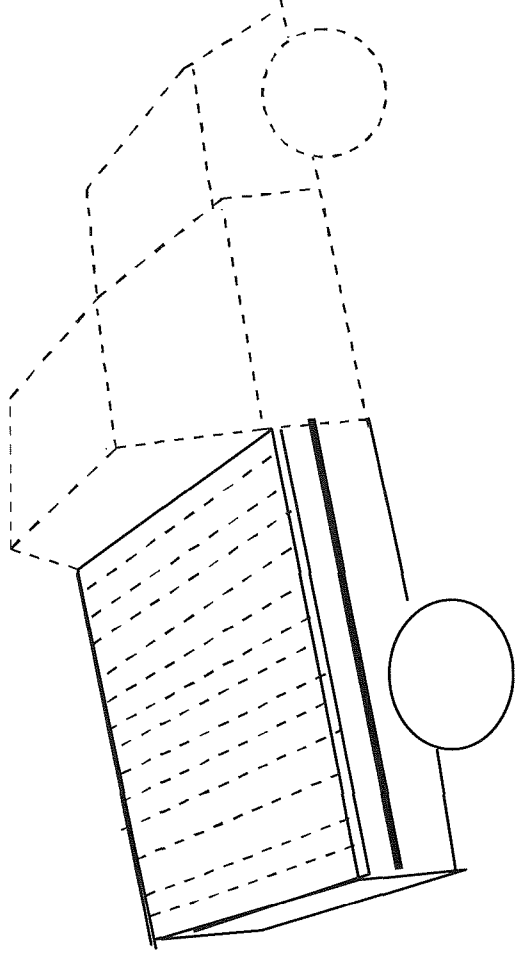


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Category CAN6

Description	Roll-on aluminium bakkie cover/Armadillo/Smart cover
Specification	• Length and width according to vehicle load box dimensions • Must be lockable. • Must be waterproof IP65 rated. • Colour: White



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CAN7 Aluminium canopy

Description	Aluminium canopy
Specifications	<u>CANOPY</u> • Height 600mm vertical height. • Length and width 1800x 1535mm. • All joints of frame to be welded together. • Canopy frame aluminium tubing 25 x 50 x 2 mm, where stated in drawing all other parts of the frame 25 x25mm. • Mounting points for ladder racks to be available in roof structure of canopy • All covering plates' 1.6mm aluminium tread plate, covering plates secured to frame with" bond and seal "(Wurth product). • Sliding canopy window 450x 650mm to be fitted in front panel. • Roof covering plate secured with rivets and with" bond and seal "(Wurth product). <u>SECURING MECHANISM</u> • Adaptor plate of stainless steel secured to load box at six mounting points evenly distributed on load box, secured to the load box with 2 off 6 mm bolts (8.8) with nylon lock nuts. • Bracket secured to aluminium frame with dome headed 6 mm bolts and nylon lock nuts. • Canopy secured to adaptor plate, with 8mm bolts with nylon lock nuts graded 8.8. <u>CANOPY DOORS</u> • Single lift-up lids for front on left & right-hand side of canopy 560mm long x 550mm wide. • Single lift-up lids for rear on left & right-hand side of canopy 940mm long x 550mm wide. • Lids and door to be attached at the top by 2 heavy duty aluminium hinges secured with pop rivets and sealing adhesive. • Lift height to be restricted to allow for canvas awning. • Lockable T handles with locking rods to be fitted. (minimum quantity of keys) • Two gas support struts to be fitted to each lid (150N) 500 mm long. • Rear doors lift-up 780 mm x550mm with window (670mm x 370mm) • Rear canopy door to seal over tailgate • All door frames to be tacked before assembly. • Rear door window slightly tinted, and placement must allow for a light of 50mm to be fitted above the window. • All lids to be dust & waterproof. • Doors to be sealed with pinch weld rubber. • PVC canvas to prevent water from entering when door is open. Canvas to be fitted with door seal and stick to door with double sided tape. PVC strip 90mm wide.

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CATEGORY CAN8

SINGLE CAB: Aluminium canopy with drawer system

Specifications	CANOPY
	• Height 600mm vertical height. • Length and width 2330x 1535mm. • All joints of frame to be welded together. • Canopy frame aluminium tubing 25 x 50 x 2 mm, where stated in drawing all other parts of the frame 25 x25mm. • Mounting points for ladder racks to be available in roof structure of canopy • All covering plates' 1.6mm aluminium tread plate, covering plates secured to frame with bond and seal (Würth product). • Sliding canopy window 450x 650mm to be fitted in front panel. • Roof covering plate secured with rivets and with" bond and seal "(Würth product). <u>ADDITIONAL SECTION</u> • Canopy in two sections front section 225mm and rear section 2105mm.two sections bolted together with 6 mm bolts with nylon locknuts and 1 mm rubber seal in between. <u>SECURING MECHANISM</u> • Adaptor plate of stainless steel secured to load box at six mounting points evenly distributed on load box, secured to the load box with 2 off 6 mm bolts (8.8) with nylon lock nuts. • Bracket secured to aluminium frame with dome headed 6 mm bolts and nylon lock nuts. • Canopy secured to adaptor plate, with 8mm bolts & lock nuts graded 8.8 <u>CANOPY DOORS</u> • Single lift lids for front on left & right-hand side of canopy 940mm long x 550mm wide. • Single lift-up lids for rear on left & right-hand side of canopy 890mm long x 550mm wide. • Lids and door to be attached at the top by 2 heavy duty aluminium hinges secured with pop rivets and sealing adhesive. • Lift height to be restricted to allow for canvas awning. • Lockable T handles with locking rods to be fitted. (Minimum quantity of keys) • Two gas support struts to be fitted to each lid ('150N) 500 mm long. • Rear doors lift-up 780 mm x550mm with window (670mm x 370mm) • Rear canopy door to seal over tailgate • All door frames to be tacked before assembly. • Rear door window slightly tinted, and placement must allow for a light of 50mm to be fitted above the window. • All lids to be dust & waterproof. • Doors to be sealed with pinch weld rubber. • PVC canvas to prevent water from entering when door is open. Canvas to be fitted with door seal and stick to door with double sided tape. PVC strip 90mm wide.
	<u>LINK STICK HOLDER</u>

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	• Link stick box bend up of 1.6mm tread plate, lined with carpet (1600mm long x 250mm wide x 120 high) fixed to the r/side in the roof of canopy. Securing strap for link sticks to be provided. <u>CONDUCTOR CUPBOARD</u> • An in-roof cupboard over the front door opening and access from the left side (.850 long x 750mm deep x 120mm high, with flip down lid to be fitted. Material 8mm industrial ply with aluminium supports. • A locking mechanism on both ends of the lid hinged at the bottom. <u>CUPBOARDS</u> • Rear cupboards to be built with 9mm ply on aluminium supports, partitions to be fitted above drawer systems to form closed unit, with no access to load box area. • Rear cupboards on both sides of canopy to be fitted with a dividing shelf that is removable and kept in place by two 4mm bolts. • 25mm angel on all shelves to prevent objects from falling out. <u>DRAWER SYSTEM</u> • A removable drawer system to be manufactured within a framework of 25x25 tubing 1680 long x 300wide and 390mm high. Top and side section of drawer system to be covered by 1.6m chequered plate. • The last 655 mm of framework to be converted into a toolbox with a lid 40mm thick on heavy duty hinges. The inside of toolbox to be lined with 6mm industrial ply. Boxes must be sealed to the edge of load box to prevent small items to get lost out of toolboxes. (6mm ply) • Bottom drawer 600x245x225mm, manufactured from 1.6mm aluminium sheeting. • Top drawer 1025x245x105mm, manufactured from 1.6mm aluminium sheeting. • Top and bottom drawers will run on steel runners with roller bearings. (max load 100kg) • Both drawers lined with rubber. • Top drawers must have a divider at 550mm and 9mm ply lids on both sections. • Drawers to be fitted with stop mechanism, to prevent falling out, but still be removable. • Face of drawers manufacture from aluminium tread plate and fitted with handles. • Drawer system secured to load box with stainless steel bolts. • An aluminium plate (95 x 40 x 6mm) bolted and welded to the drawer front to be used with anti –loose fasteners as the locking device. <u>CARGO SLIDE</u> • Sliding platform to be fitted on load box floor length 1700 x width 700x 50mm. • Platform must be load-bearing +/- 100kg on end fully extended. • A bulkhead frame with cover plate on the front of cargo slide 300mm high with side supports of 700mm long. Fitted at angle of ±30degrees. • Steel sliding rails with seven roller bearings (6201zz) on either side of platform, with a locking device to lock platform in the closed and extracted position. • Three securing nylon straps 25mm and ratchets to be supplied (1000mm long)
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	• One securing nylon strap 25mm and ratchets to be supplied (2500 mm long) • Adjustable slide to secure straps on both sides of sliding table, on front bulkhead and at rear of table only a smaller section of 200mm. • Two nylon blocks (80 x 40 x 15mm) to be riveted to the tailgate to support the cargo slide when fully extracted. The front of the block to be tapered, to allow for easy sliding of slide onto the blocks. <u>FRONT TOOLBOX</u> • Front toolbox to be built from 1.6mm tread plate 1250mm long x450mm wide and 360mm high. • A 40mm lid of 1050mm long and 450mm wide to be hinged on two HOWIC butt hinges. • D rubber seal fitted on lid 15 mm sections -lid finish. • Two galvanised canopy catches to close box. • Boxes secured to the load box floor with 4 x 6 mm stainless steel cup squares. <u>LADDER RACK</u> • A framework to be built from 50x25x2 tubing 2800mm long and 1100 wide. • Additional supports to reinforce the framework to be placed as per drawing. • Mounting frame of 25x25 mm tubing 2330mm long and 1100mm wide, secured to the canopy with 8 off 6mm stainless steel cup squares. • Additional supports on to reinforce ladder rack welded on top of the main frame as per drawing. • Pedestals of 100mm to be welded in-between the mounting and main frames. • A 30 x30x6 angle welded on to front section of ladder rack to reduce noise. • Galvanised tubing with sealed bearings to be used as rollers at the back of rack, rollers must be coated with hard wearing rubber of at least 3mm thick. <u>REMARKS</u> • Front roll bar to stay on vehicle. • All aluminium on the outside of canopy to be anodised. • The frame of the canopy to be prepared with Standex 2K Filler Primer with plasticiser (1 Coat) smoothed and then sprayed with Standex 2K 2-part Automotive Paint mixed with a 20% 2K Plasticiser (2 base coats, 1 clear coat • All holes that are drilled into load box must be treated with rust inhibitor (SNK 2) and repainted with black paint before installing the bolts. • Canvas rope runner to be fitted on left side, right side and rear of canopy. • PVC canvas length of the front doors x 500mm to be fitted underneath the door seal to protect the sides of the vehicle.
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Category CAN 8

Single cab / aluminium canopies with sliding table/drawer system

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Categories CAN 9 Super cab: Aluminium canopies with sliding table and drawer system

Description	Aluminium canopy with drawer system Attached specifications represent the Eskom requirement which must strictly adhere
Specifications	<u>CANOPY</u> • Height 600mm vertical height. • Length and width 1800x 1535mm. • All joints of frame to be welded together. • Canopy frame aluminium tubing 25 x 50 x 2 mm, where stated in drawing all other parts of the frame 25 x25mm. • Mounting points for ladder racks to be available in roof structure of canopy • All covering plates' 1.6mm aluminium tread plate, covering plates secured to frame with" bond and seal "(Wurth product). • Sliding canopy window 450x 650mm to be fitted in front panel. • Roof covering plate secured with rivets and with" bond and seal "(Wurth product). <u>SECURING MECHANISM</u> • Adaptor plate of stainless steel secured to load box at six mounting points evenly distributed on load box, secured to the load box with 2 off 6 mm bolts (8.8) with nylon lock nuts. • Bracket secured to aluminium frame with dome headed 6 mm bolts and nylon lock nuts. • Canopy secured to adaptor plate, with 8mm bolts with nylon lock nuts graded 8.8. <u>CANOPY DOORS</u> • Single lift-up lids for front on left & right-hand side of canopy 560mm long x 550mm wide. • Single lift-up lids for rear on left & right-hand side of canopy 940mm long x 550mm wide. • Lids and door to be attached at the top by 2 heavy duty aluminium hinges secured with pop rivets and sealing adhesive. • Lift height to be restricted to allow for canvas awning. • Lockable T handles with locking rods to be fitted. (minimum quantity of keys) • Two gas support struts to be fitted to each lid (150N) 500 mm long. • Rear doors lift-up 780 mm x550mm with window (670mm x 370mm) • Rear canopy door to seal over tailgate • All door frames to be tacked before assembly. • Rear door window slightly tinted, and placement must allow for a light of 50mm to be fitted above the window. • All lids to be dust & waterproof. • Doors to be sealed with pinch weld rubber. • PVC canvas to prevent water from entering when door is open. Canvas to be fitted with door seal and stick to door with double sided tape. PVC strip 90mm wide. <u>LINK STICK HOLDER</u> • Link stick box bend up of 1.6mm tread plate, lined with carpet (1600mm long x 250mm wide x 120 high) fixed to the r/side in the roof of canopy. Securing strap for link sticks to be provided. <u>CONDUCTOR CUPBOARD</u>

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- An in-roof cupboard over the rear door opening and access from the left side (.850 long x 750mm deep x 120mm high, with flip down lid to be fitted. Material 8mm industrial ply with aluminium supports.
- A locking mechanism on both ends of the lid hinged at the bottom.

CUPBOARDS

- Rear cupboards to be built with 9mm ply on aluminium supports, partitions to be fitted above drawer systems to form closed unit, with no access to load box area.
- Rear cupboards on both sides of canopy to be fitted with a dividing shelf that is removable and kept in place by two 4mm bolts.
- 25mm angel on all shelves to prevent objects from falling out.

DRAWER SYSTEM

- A removable drawer system to be manufactured within a framework of 25x25 tubing 1680 long x 300mm wide and 390mm high. Top and side section of drawer system to be covered by 1.6m chequered plate.
- The last 655 mm of framework to be converted into a toolbox with a lid 40mm thick on heavy duty hinges. The inside of toolbox to be lined with 6mm industrial ply. Boxes must be sealed to the edge of load box to prevent small items to get lost out of toolboxes. (6mm ply)
- Bottom drawer 600x245x225mm, manufactured from 1.6mm aluminium sheeting.
- Top drawer 1025x245x105mm, manufactured from 1.6mm aluminium sheeting.
- Top and bottom drawers will run on steel runners with roller bearings. (Max load 100kg)
- Both drawers lined with rubber.
- Top drawers must have a divider at 550mm and 9mm ply lids on both sections.
- Drawers to be fitted with stop mechanism, to prevent falling out, but still be removable.
- Face of drawers manufacture from aluminium tread plate and fitted with handles.
- Drawer system secured to load box with stainless steel bolts.
- An aluminium plate (95 x 40 x 6mm) bolted and welded to the drawer front to be used with anti –loose fasteners as the locking device.

CARGO SLIDE

- Sliding platform to be fitted on load box floor length 1700 x width 700x 50mm.
- Platform must be load-bearing +/- 100kg on end fully extended.
- A bulkhead frame with cover plate on the front of cargo slide300mm high with side supports of 700mm long. Fitted at angle of ±30degrees.
- Steel sliding rails with seven roller bearings (6201zz) on either side of platform, with a locking device to lock platform in the closed and extracted position.
- Three securing nylon straps 25mm and ratchets to be supplied (1000mm long)
- One securing nylon strap 25mm and ratchets to be supplied (2500 mm long)
- Adjustable slide for securing straps on both sides of sliding table, on front bulkhead and at rear of table only a smaller section of 200mm.
- Two nylon blocks (80 x 40 x 15mm) to be riveted to the tailgate to support the cargo slide when fully extracted. The front of the block to be tapered, to allow for easy sliding of slide onto the blocks.

LADDER RACK

- A framework to be built from 50x25x2 tubing 2800mm long and 1100 wide.
- Additional supports to reinforce the framework to be placed as per drawing.

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- Mounting frame of 25x25 mm tubing 2330mm long and 1100mm wide, secured to the canopy with 8 off 6mm stainless steel cup squares.
- Additional supports on to reinforce ladder rack welded on top of the main frame as per drawing.
- Pedestals of 100mm to be welded in-between the mounting and main frames.
- A 30 x30x6 angle welded on to front section of ladder rack to reduce noise.
- Galvanised tubing with sealed bearings to be used as rollers at the back of rack, rollers must be coated with hard wearing rubber of at least 3mm thick

REMARKS

- All aluminium on the outside of canopy to be anodised.
- The frame of the canopy to be prepared with Standex 2K filler primer with plasticiser (1 All holes that are drilled into load box must be treated with rust inhibitor (SNK 2) and repainted with black paint before installing the bolts.
- Canvas rope runner to be fitted on left side, right side and rear of canopy.
- PVC canvas length of the front doors x 500mm to be fitted underneath the door seal to protect the sides of the vehicle.



CAN 9 Super cab: Aluminium canopies with sliding table and drawer system

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Category CAN 10: Double cab: Aluminium canopies with sliding table and drawer system.

Description	Aluminium canopy with drawer system
Specifications	<u>CANOPY</u> • Height 550mm vertical height. • Length and width 1445 x 1530mm. • All joints of frame to be welded together. • Canopy frame aluminium tubing 25 x 50 x 2 mm, where stated in drawing all other parts of the frame 25 x25mm. • Mounting points for ladder racks to be available in roof structure of canopy • All covering plates' 1.6mm aluminium tread plate, covering plates secured to frame with" bond and seal "(Murth product). • Sliding canopy window 450x 650mm to be fitted in front panel. • Roof covering plate secured with rivets and with" bond and seal "(Murth product). <u>SECURING MECHANISM</u> • Frame secured direct to top section of load body at eight designated mounting points evenly distributed on load box, secured to the load box with 8 mm bolts (8.8) with nylon lock nuts. • Supports must be provided to protect aluminium frame from collapsing in tightening process or under stress. Supports must also provide additional strength to load box mounting area. <u>CANOPY DOORS</u> • Single lift-up lids for left & right-hand side of canopy 660mm long x 500mm wide. • Lids and door to be attached at the top by 2 heavy duty aluminium hinges secured with pop rivets and sealing adhesive. • Lift height to be restricted to allow for canvas awning. • Lockable T handles with locking rods to be fitted. (One key to fit on all t handles on the same canopy • Two gas support struts to be fitted to each lid (150N) 500 mm long. • Rear door lift-up 850 mm x515mm with window (670mm x 370mm) • Rear canopy door to seal over tailgate • All door frames to be tacked before assembly. • Rear door window slightly tinted, and placement must allow for a light of 50mm to be fitted above the window. • All lids to be dust & waterproof. • Doors to be sealed with sealing rubber. • PVC canvas to prevent water from entering when door is open. Canvas to be fitted with door seal and stick to door with double sided tape. PVC strip +/- 90mm wide. <u>LINK STICK HOLDER</u> • Link stick box bend up of 1.6mm tread plate, lined with carpet (1700mmlong x 250mm wide x 120 high) fitted between the canopy and the ladder rack. The link stick container must be fully dust and waterproof, with a lockable lid at the rear, with bottom hinges. Supply two pieces of high-density foam inside diameter of the holder x 100mm long. <u>CONDUCTOR CUPBOARD</u> • An in-roof cupboard over the rear door opening and access from the rear (.860 long x 750mm deep x 120mm high, with flip down lid to be fitted. Material 8mm industrial ply with aluminium supports.

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	• A locking mechanism on both ends of the lid hinged at the bottom. <u>CUPBOARDS</u> • Rear cupboards to be built with 9mm ply on aluminium supports, partitions to be fitted above drawer systems to form closed unit, with no access to load box area. • Rear cupboards on both sides of canopy to be fitted with a dividing shelf that is hinged at the back for storage of larger items. • 25mm angel on all top shelves to prevent objects from falling out. <u>DRAWER SYSTEM</u> • A removable drawer system to be manufactured within a framework of 25x25 tubing 1350 long x 300wide and 390mm high. Top and side section of drawer system to be covered by 1.6m chequered plate. • The last 775 mm of framework to be converted into a toolbox with a lid 40mm thick on heavy duty hinges. The inside of toolbox to be lined with 6mm industrial ply. Boxes must be sealed to the edge of load box to prevent small items to get lost out of toolboxes. (6mm ply) • Bottom drawer 557x245x225mm, manufactured from 1.6mm aluminium sheeting. • Top drawer 557x245x105mm, manufactured from 1.6mm aluminium sheeting. • Top and bottom drawers will run on steel runners with roller bearings. (Max load 100kg) • Both drawers lined with rubber. • Drawers to be fitted with stop mechanism, to prevent falling out, but still be removable. • Face of drawers manufacture from aluminium tread plate and fitted with handles. • Drawer system secured to load box with stainless steel bolts. • An aluminium plate (95 x 40 x 6mm) bolted and welded to the drawer front to be used with anti -loose fasteners as the locking device. <u>CARGO SLIDE</u> • Sliding platform to be fitted on load box floor length 1350 x width 700x 50mm. • Platform must be load-bearing +/- 100kg on end fully extended. • A bulkhead frame with cover plate on the front of cargo slide 300mm high with side supports of 700mm long. Fitted at angle of ±30degrees. • Steel sliding rails with six roller bearings (6201zz) on either side of platform, with a locking device to lock platform in the closed and extracted position. • Three securing nylon straps 25mm and ratchets to be supplied (1000mm long) • One securing nylon strap 25mm and ratchets to be supplied (2500 mm long) • Adjustable slide for securing straps on both sides of sliding table, on front bulkhead and at rear of table only a smaller section of 200mm. • Two nylon blocks (80 x 40 x 15mm) to be riveted to the tailgate to support the cargo slide when fully extracted. The front of the block to be tapered, to allow for easy sliding of slide onto the blocks. <u>LADDER RACK</u> • A framework to be built from 50x25x2 tubing 2400mm long and 1100 wide. • Additional supports to reinforce the framework to be placed as per drawing. • Mounting frame of 25x25 mm tubing 1420mm long and 1100mm wide, secured to the canopy with 8off 6mm stainless steel cup squares. • Additional supports on to reinforce ladder rack welded on top of the main frame as per drawing. • Pedestals of 100mm to be welded in-between the mounting and main frames. • A 30 x30x6 angle welded on to front section of ladder rack to reduce noise.
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	- Galvanised tubing with sealed bearings to be used as rollers at the back of rack, rollers must be coated with hard wearing rubber of at least 3mm thick. REMARKS - Front roll bar to stay on vehicle. - All aluminium on the outside of canopy to be anodised. - The frame of the canopy to be prepared with Standex 2K Filler Primer with plasticiser (1 Coat) smoothed and then sprayed with Standex 2K 2-part Automotive Paint mixed with a 20% 2K Plasticiser (2 base coats, 1 clear coat) - All holes that are drilled into load box must be treated with rust inhibitor (SNK 2) and repainted with black paint before installing the bolts. - Canvas rope runner to be fitted on left side, right side and rear of canopy. - PVC canvas length of the front toolboxes X 500mm to be fitted underneath the door seal to protect the sides of the vehicle. - Aluminium treads plate to be riveted on the inside of tailgate.
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CATEGORY CAN 11:**Fibre-glass Canopy half door with tilt up doors. Double Cab / Extended cab / Single cab**

Description	Fibre-glass Canopy half door with tilt up doors. Double Cab / extended Cab / Single cab
Specifications	<u>DIMENSIONS</u> - Height same as vehicle cab roof - Length and width according to vehicle load box dimensions <u>FRONT WINDOW</u> - Front panel to make provision for a window equal the size of cab window to be fitted if required. Front panel must be 4 Layers of fibre glass. <u>SIDE DOORS</u> - Single lift lids for left & right-hand side of canopy min. size 850mm long x 300mm high. (Double cab vehicles) - Single lift lids for left & right-hand side of canopy min. size 1050mm long x 300mm high. (Extended cab vehicles) - Door to be fitted as centre as possible in the sides of the canopy. - Shape of the door as square as possible with rounded corners and edges. - Side door panel must be 4 Layers of fibre glass. - Doors seals must be fitted to the water and dust proof. IP65 rating - Waterproofing gutter systems must prevent rainwater from entering canopy when vehicle is stationary with the side doors open. - Lids and door to be attached at the top by 2 heavy duty hinges. 2 x Lockable T handles. (single key/canopy) - Latches and cable to be used as locking system. <u>REAR WINDOW</u> - Two gas support struts to be fitted to each lid 400mm long. <u>REAR DOOR</u> - The glass fibre panel to be fitted and laminated on the inside. - Rear door to make provision for a window to be fitted if required. Rear door panel must be 4 layers of fibre glass. - A build in water channel for the rear door must be part of the structure and not an additional fitment (prevent water entering the canopy when the rear door is open.)

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	• Rear door to be a double skin bonded door. • Door to have 1 x lockable handle • Latches and cable to be used as locking system. • Rear door shock length to ensure that the rear door is not higher than the bottom of the ladder rack. • <u>COLOUR</u> • White to match the specific colour code of the vehicle. <u>CONSTRUCTION</u> • 4 Layers of fibre glass must be used in the construction of the canopy for strength • Minimum thickness of canopy 4mm • Reinforcing to be done on the first 250mm from each side of roof as follows. • 1st layer of 300 gr/m² - 2nd layer of 450gr/m² - 3rd layer of membrane in canopy. 2 beams diagonally across the canopy covered with a layer of 450 gr/m² mat <u>LIGHTS</u> • As per EL1&2 <u>REINFORCED ROOF FOR LADDER RACK</u> • Rounding: 4th layer of 450 gr/m² mat covering the membrane. 3 ply Plywood covered with 5th layer of 450 gm/m² mat where the mounting points should be. • Canopy to have wooden supports to mount fitment brackets. <u>MOUNTING POINTS</u> • D Rubbers to be used underneath canopy • Canopy to be mounted according to vehicle manufactures approved specs. <u>LADDER RACK</u> • A framework to be built from 50x25x2 tubing 2400mm long and 1100 wide. • Additional supports to reinforce the framework to be placed as per drawing. • Mounting frame of 25x25 mm tubing 1420mm long and 1100mm wide, secured to the canopy with 8off 6mm stainless steel cup squares. • Additional supports on to reinforce ladder rack welded on top of the main frame as per drawing. • Pedestals of 100mm to be welded in-between the mounting and main frames. • A 30 x30x6 angle welded on to front section of ladder rack to reduce noise. • Galvanised tubing with sealed bearings to be used as rollers at the back of rack, rollers must be coated with hard wearing rubber of at least 3mm thick. <u>REMARKS</u> • Dust proofing of the tailgate to accomplish dust free compartment. • Fitment of a two external vents plastic or glass fibre to pressurise the canopy while driving. • Fit one metal L bracket with 8mm hole under the striker plate for alarm sensors, one per door. • Minimum of two years manufacturers guarantee on canopy structure and not on parts • Canopy to accommodate roll bar
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CAN11 Fibre glass tilt up window canopy

MANNO
42-34324

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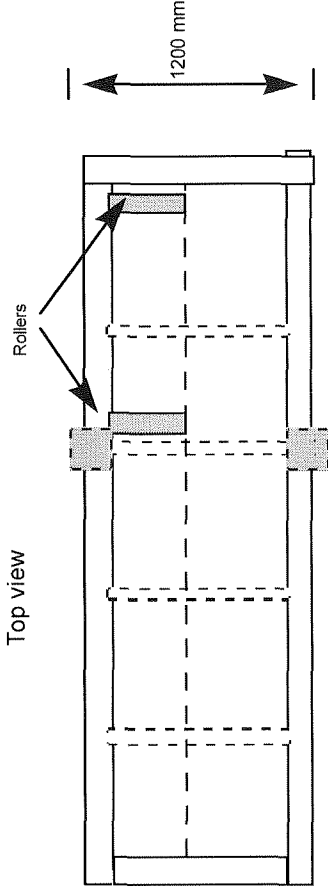
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Ladder Racks

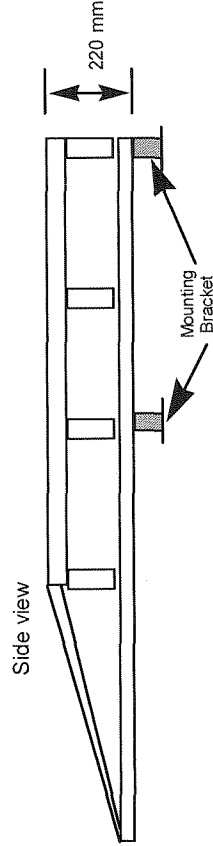
Category LR1

Description	Double ladder rack half length
Specification	- Length up to 2,650 mm - Width up to 1,200 mm - Height 220 mm - Ladder rack to be manufactured of 50 x 25 x 2 mm rectangular tubing. - If ladder rack is not fitted on standard Eskom canopy (category CAN1 - CAN4, fitted with roll cage), then ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 1 - Mounted directly to roll-bar with rubber mountings (though canopy if applicable) - Rollers to be fitted as per drawing. 3 hold down straps (50 mm), spaced over length of ladder rack. - Spotlights to be mounted onto both sides of roll-bar. - Amber light to be mounted on the side of the ladder rack and covered with expanded metal frame. - Colour: White

Top view



Side view



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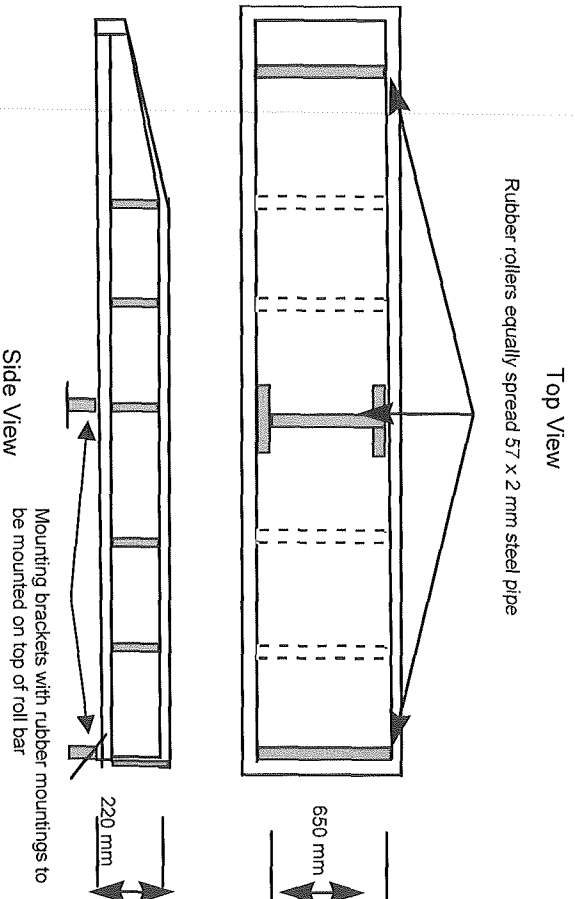
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Category LR2

Description	Single ladder rack half length
Specification	• Length up to 3,650 mm • Width up to 650 mm • Height 220 mm • Ladder rack to be manufactured of 50 x 25 x 2 mm rectangular tubing. • If ladder rack is not fitted on standard Eskom canopy (category CAN1 - CAN4, fitted with roll cage) then ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 1 • Mounted directly to roll bar with rubber mountings (through canopy if applicable) • Rollers to be fitted as per drawing. • 3 hold-down straps (50 mm) spaced over length of ladder rack. • Spotlights to be mounted onto both sides of roll bar. • Amber light to be mounted on the side of the ladder rack, and covered with expanded metal frame • Colour: White



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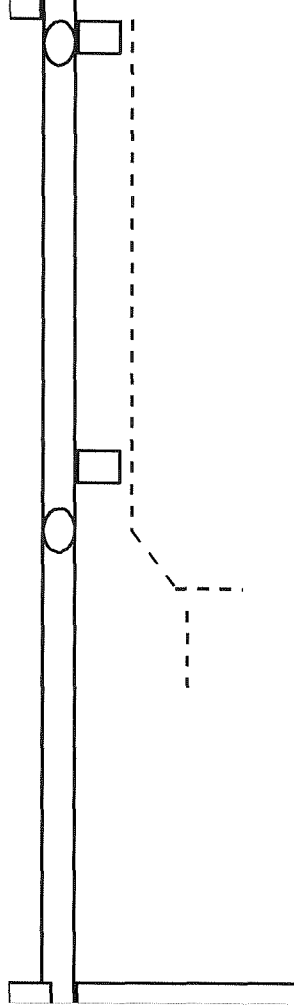
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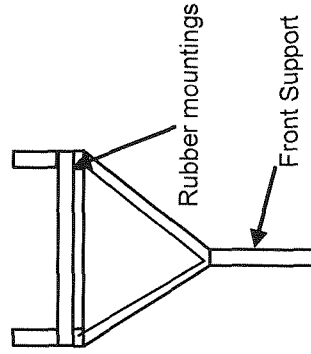
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Category LR3

Description	Single ladder rack full length
Specification	- Length: From front bumper to rear of canopy - Width up to 650 mm - Height 220 mm - Ladder rack to be manufactured of 50 x 25 x 2 mm rectangular tubing. - If ladder rack is not fitted on standard Eskom canopy (category CAN1 - CAN4, fitted with roll cage) then ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 1 - Mounted directly to roll bar with rubber mountings (through canopy is applicable), with front support bracket secured to chassis or bull bar and rubber mountings as per drawing. - Rollers to be fitted as per drawing. 3 hold-down straps (50 mm) spaced over length of ladder rack. - Spotlights to be mounted onto both sides of roll bar. - Amber light to be mounted on the side of the ladder rack and covered with expanded metal frame. - Colour: White



Front View



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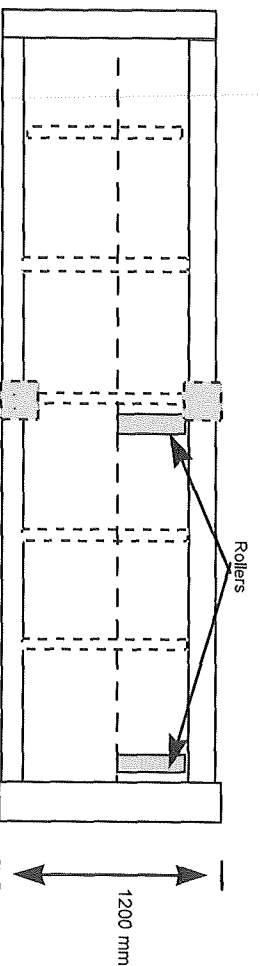
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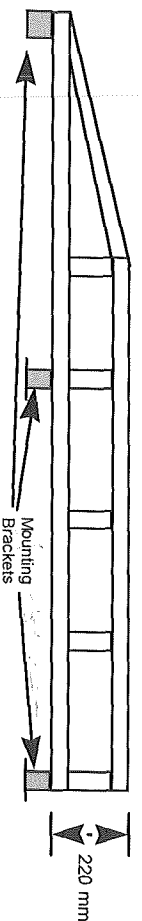
Category LR4

Description	Double ladder rack full length
Specification	- Length: From rear bumper to rear of canopy - Width up to 1,200 mm - Height 220 mm - Ladder rack to be manufactured of 50 x 25 x 2 mm rectangular tubing. - Rollers to be fitted as per drawing. - Rollers to be fitted as per drawing. 3 hold-down straps (50 mm) spaced over length of ladder rack. - If ladder rack is not fitted on standard Eskom canopy (category CAN1 - CAN4, fitted with roll cage) then ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 1 - Mounted directly to roll bar with rubber mountings (through canopy is applicable), with front support bracket secured to chassis or bull bar and rubber mountings as per drawing. - Spotlights to be mounted onto both sides of roll bar. - Amber light to be mounted on the side of the ladder rack and covered with expanded metal frame. - Colour: White

Top view



Side view



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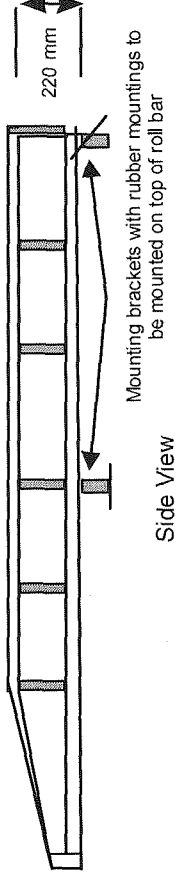
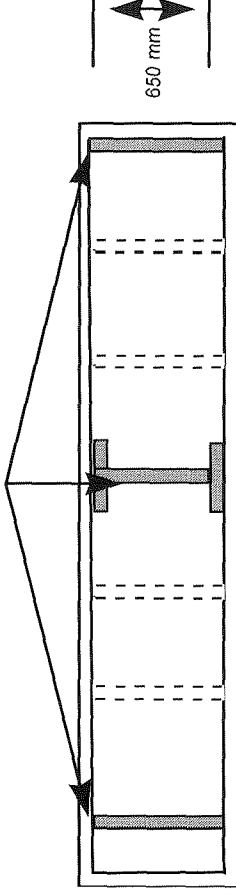
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Top View

Rubber rollers equally spread 57 x 2 mm steel pipe



Description	Double ladder rack full length
Specification	• Length: From rear bumper approximately 2700mm. • Width up to 1,200 mm • Height 220 mm • Ladder rack to be manufactured of 50 x 25 x 2 mm rectangular tubing. • Rollers to be fitted as per drawing (rubber coated roller with bearings) • 2 hold-down straps (50 mm) per side spaced over length of ladder rack. • If ladder rack is not fitted on standard Eskom canopy (category CAN1 - CAN4, fitted with roll cage) then ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 1 • Mounted directly to roll bar with rubber mountings (through canopy is applicable), with front support bracket secured to chassis or bull bar and rubber mountings as per drawing. • Working lights to be mounted onto both sides of ladder rack. • Amber light to be mounted on the side of the ladder rack and covered with expanded metal frame • Frame to be hot dipped galvanized. • Colour: Silver(galvanized)

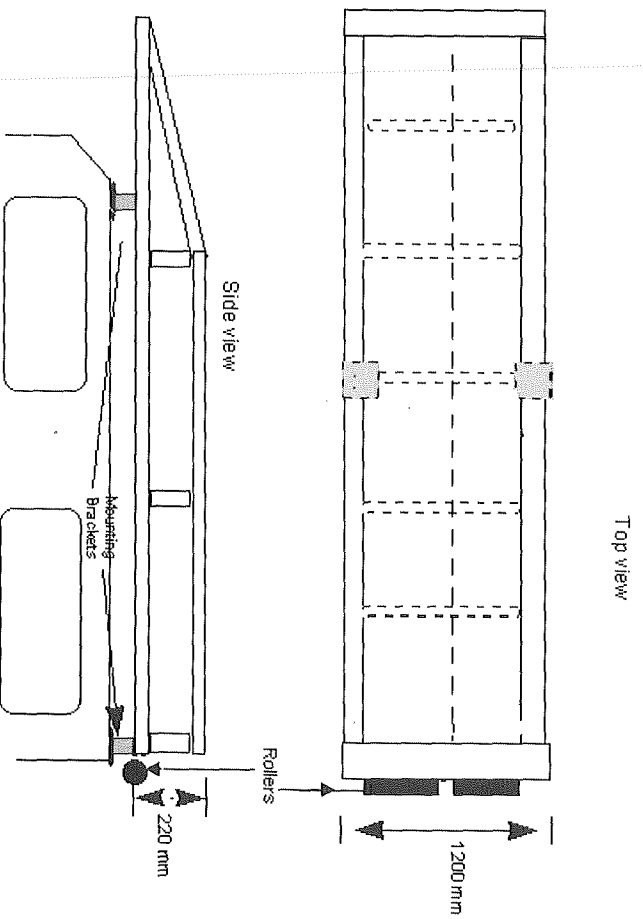
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Double Ladder rack with rear rollers (single cab)

Western Cape



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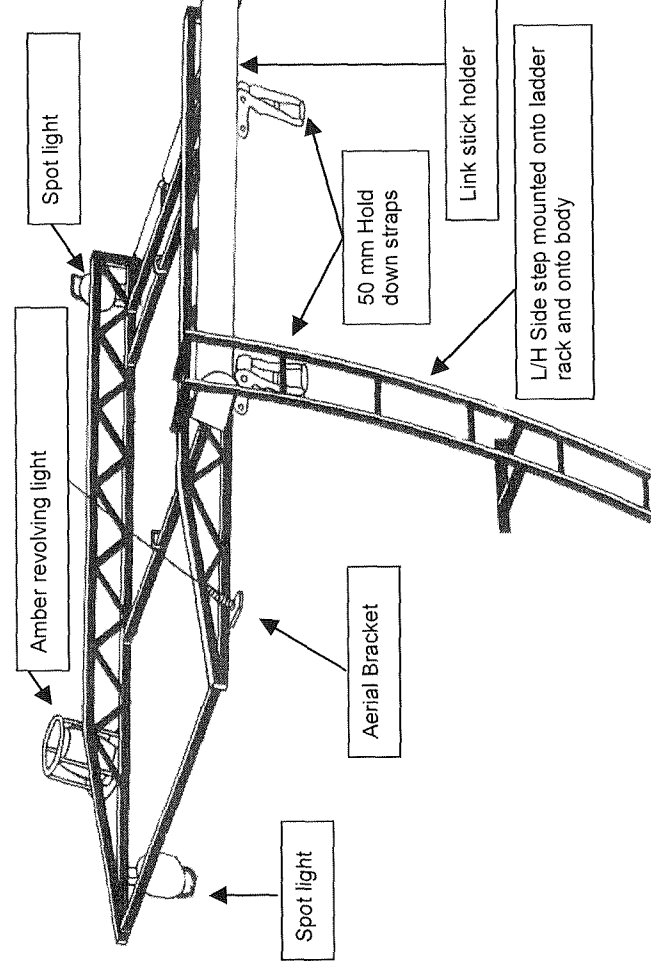
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Category LR5

Description	Double ladder rack half length
Specification	• 3,100 long x 165 high side frame 32 mm square tube • 1,250 mm x 32 mm square tube cross bar • Rotating light bracket 4 mm plate, 8 mm O-Ring, 10 mm O spokes • Spotlight brackets 5 mm plate • Rollers 55 mm Ø x 600 mm on ball races, clear plastic coated. • Web hook U bracket 120 mm round bar • Link stick holder 2,000 mm x 110 mm Ø PVC lockable • Ratchet tie down, 50 mm on chevron bracket • Aerial bracket • Side ladder • Side ladder bracket • Wooden slats, 150 mm x 25 mm meranti. 2 Coats penetrating wood preservative. • If ladder rack is not fitted on standard Eskom canopy (category CAN1 - CAN4, fitted with roll cage), then ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 1 • Mounted directly to roll bar with rubber mountings (through canopy if applicable)



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Category LR7 (EL)

Description	Single Ladder rack half length
Specification	• Length up to 3,650 mm • Width up to 650 mm • Height 220 mm • Ladder rack to be manufactured of 50 x 25 2 mm rectangular tubing. • Front Support Struts to be fitted between front roll bar and front of ladder rack. • Ladder rack to be hot dipped galvanised. • Expanded metal sheet to be fitted along entire base of ladder rack. • Two meranti wooden slats (150 mm x 25 mm) to be fitted on top of expanded metal and correctly spaced (410 mm centre to centre of plank), according to ladder type. Meranti planks to have two coats of wood preservative. • If ladder rack is not fitted on standard Eskom canopy (category CAN1 - CAN4, fitted with roll cage) then ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 3 • Mounted directly to roll bar with rubber mountings (through canopy if applicable) • One rolled to be fitted at rear of rack. • Brackets for 3 working lights and aerial to be fitted. • Three working lights (Hella A2926) swivel type to be fitted. One on the left, one on the right of the front of the ladder rack and one on the r/rear of ladder rack. To be wired with fuse and switch in the cab • A Strobe type amber light (Hazard - HS 5300) to be mounted on the side of the ladder rack, and covered with expanded metal frame

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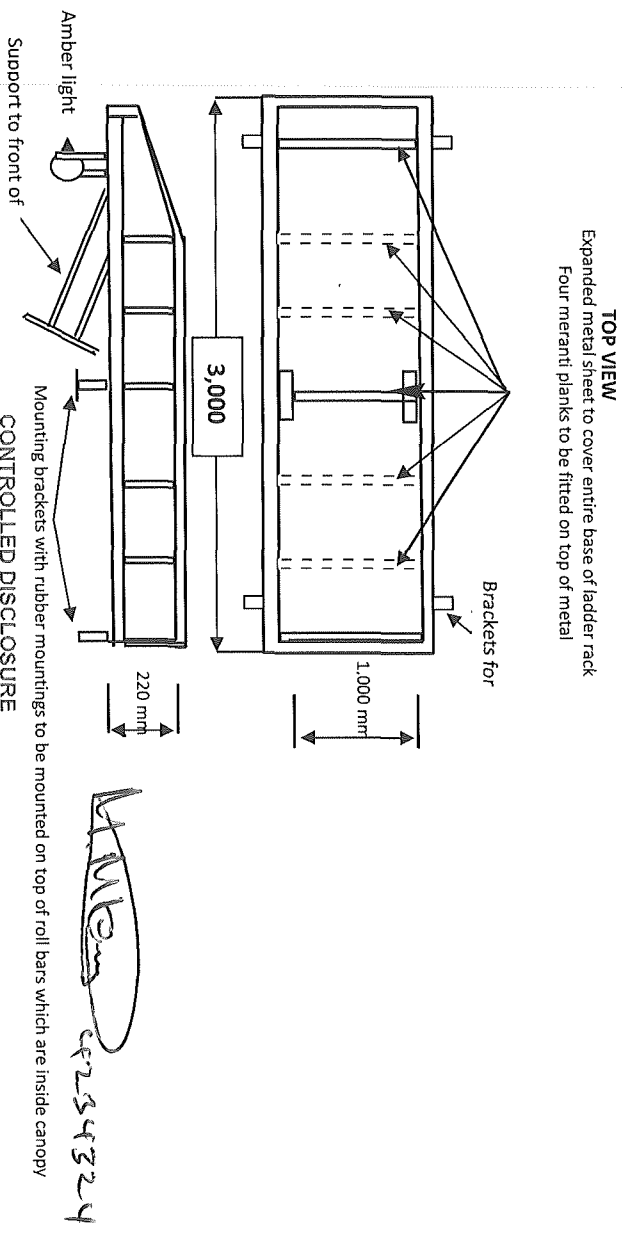
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Category LR8 (EL)

Description	Double ladder rack half-length for Double Cab
Specification	- Length up to 3,000 mm - Width up to 1,000 mm - Height 220 mm - Ladder rack to be manufactured of 50 x 25 x 2 mm rectangular tubing. - Front support struts to be fitted between front roll bar and front of ladder rack, see drawing. - Ladder rack to be hot dipped galvanised. - Expanded metal sheet to be fitted along entire base of ladder rack. - Four meranti wooden slats (150 mm x 25 mm) to be fitted on top of expanded metal and correctly spaced (410 mm centre to centre of plank), according to ladder type. Meranti planks to have two coats of wood preservative. - Ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 3) if no canopy or RBR 1 for canopy) - Mounted directly to roll bar with rubber mountings. - Two rolled to be fitted at rear of rack. - Brackets for 3 working lights and aerial to be fitted. - Three working lights (Hella A2926) swivel type to be fitted. One on the left, one on the right of the front of the ladder rack and one on the r/rear of ladder rack. To be wired with fuse and switch in the cab - A strobe type amber light (Hazard - HS 5300) to be mounted on the side of the ladder rack, and covered with expanded metal frame



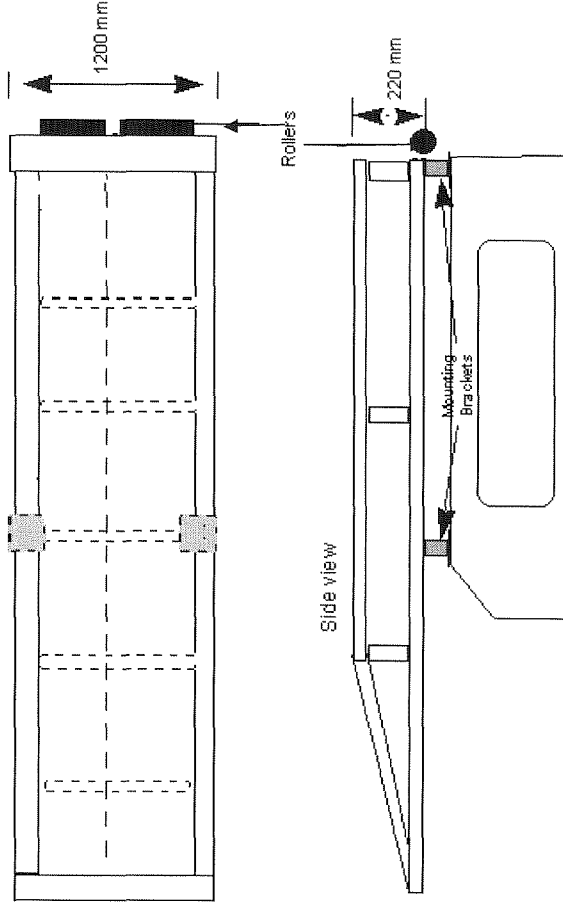
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Category LR8

Description	Double ladder rack for Double Cab
Specification	• Length up to 2.700 mm • Width up to 1,200 mm • Height 220 mm • Ladder rack to be manufactured of 75 x 38 x 2 mm rectangular tubing. • Ladder rack to be hot dipped galvanised. • Ladder rack to be fitted on vehicle by means of front and rear roll bars as per specification RBR 3) if no canopy or RBR 1 for canopy) • Mounted directly to roll bar with rubber mountings. • Two rollers (rubber coated on bearings) to be fitted at rear of rack. • Brackets for 2x working lights and 1 x amber rotating light. • Two working lights swivel type to be fitted. One on the left rear, and one on the right front of the ladder rack, to be wired with fuse and switch in the cab. • A strobe type amber light to be mounted on the side of the ladder rack, and covered with expanded metal frame

Top view



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Toolboxes

Category TBX1

Description	Single Toolbox mounted behind cab with hinged lid and slam locks
Specification	- Toolbox to me manufactured with 1.6mm thick steel and bolted through the floor - To be bolted to the floor with at least 8mm bolts, the holes in the load body must be protected with rust protection - Length = Width of load body - Width = Up to wheel arch - Height = Up to 500 mm - Hinged lid. 2 slam locks (self-locking) to each lid - Colour: Black or grey

Category TBX2

Description	One single Toolbox mounted either side of load body with hinged lid and slam locks (Full length)
Specification	- Toolbox to me manufactured with 1.6mm thick steel and bolted through the floor - To be bolted to the floor with at least 8mm bolts, the holes in the load body must be protected with rust protection - Length = From front of load box to rear of load box - Width = Up to 450 mm - Height = Up to 500 mm - Hinged lid. - Slam locks (self-locking) to each lid - Colour: Black or grey

Category TBX4

Description	Two link stick holders are fitted to the bottom of the front and rear roll bars for stowage purposes.
Specification	- Length: 2300mm - Holder: 110x2mm Mild steel/PVC round tubing - Front cap: 2mm Mild steel PVC round tubing covering front open end. - Hinge: 50mm Electro galvanized - Lock: Hasp staple - Brackets: 40x2mm Mild steel sheeting - Rear end to be closed off by welding sheet metal to opening.

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	• Front cap hinge to be welded to holder. • Hasp staple to be welded to cap and holder. • Holder to be waterproof. • Holders to be painted with one layer of etch primer, two layers of MS primer and two layers of white polyurethane topcoat. • Finish may alternatively be done by hot dip galvanizing. • Link-stick holder brackets to be secured to brackets on roll bars with 8mm bolts and nylon lock nuts.
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Category TBX5

Description	One single Toolbox mounted in front of vehicle load box and one toolbox mounted on either side of load body with hinged lid and slam locks (Full length)
Specification	• Toolbox to me manufactured with 1.6mm thick steel and bolted through the floor • To be bolted to the floor with at least 8mm bolts, the holes in the load body must be protected with rust protection • Length = Width of load body • Width = Up to wheel arch • Height = Up to 500 mm • Hinged lid. • 2 slam locks (self-locking) • Colour: Black • Length = From front toolbox to rear of load box (1,200 mm) • Width = Up to 450 mm • Height = Up to 500 mm • Hinged lid. • Slam locks (self-locking) to each lid • Colour: Black

Category TBX6 (EL)

Description	Two single Toolboxes mounted either side of load body and one toolbox mounted behind cab with hinged lids made from aluminium checker plate. Suitable for LWB and SWB vehicles
Specification	• Sizes (width, length, height) to suit vehicle type and load body dimension. Bins A, B, C, to be separated and bolted to floor of load body. • All bins to have own bottom, back and sides (drainage holes in bottoms) and be lockable with "Venter" catches and durable heavy-duty hinges on lids.

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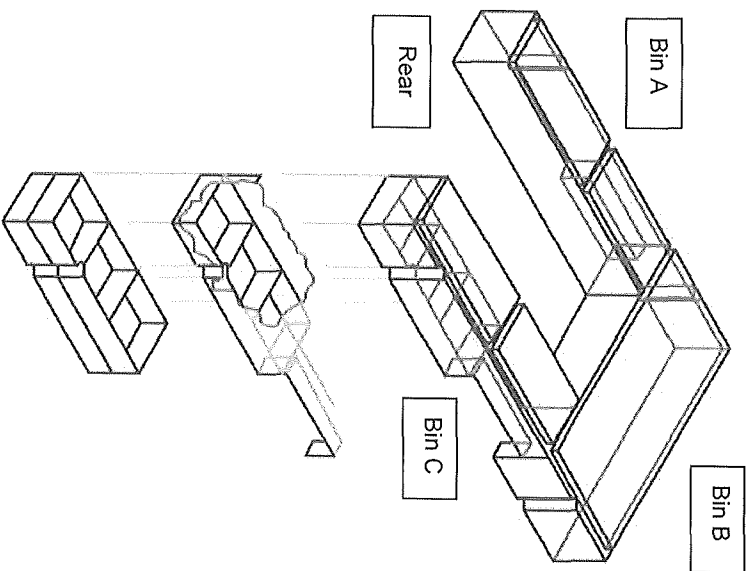
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	• Upper edge, below lids, to have sealing lip for push-on type rubber seal (boot rubber) • Material type and thickness: Mild steel plate for bottom, back and sides (2 mm). Aluminium checker plate for all lids (3 mm) • Only mild steel sections (bottom, back and sides) to be sprayed with undercoat and finished with matt black. • All lids to have lifting handles and retaining rods to keep them open. • Two or three lifting trays with lifting handles to be fitted to right hand side of Bin C, as indicated in drawing. • Lid for Bin B to be shaped to clear roll bar when open. • Sizes: Bin B length (1,400 mm), width (500 mm), height (350 mm) • Bin A & C length (1,600 mm), width (400 mm), height (350 mm)
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Category TBX7 (EL)

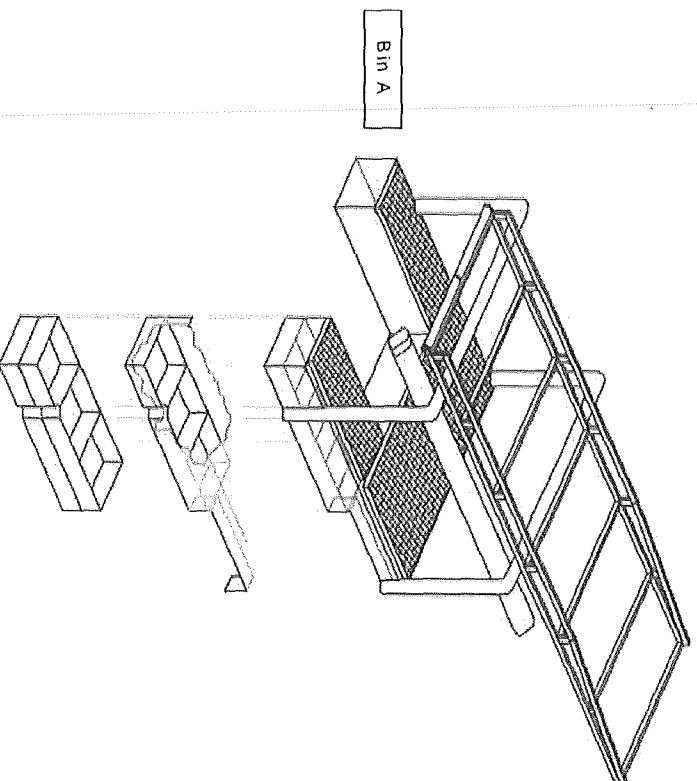
Description	Two single Toolboxes mounted either side of load body and one toolbox mounted behind cab with hinged lids made from aluminium tread plate. Suitable for double cab vehicle
Specification	• Sizes (width, length, height) to suit vehicle type and load body dimension. Bins A, B, C, to be separated and bolted to floor of load body. Wheel arches to be reinforced to carry roll support cage. • All bins to have own bottom, back and sides (drainage holes in bottoms, rubber plugged) and be lockable with "Venter" catches and durable heavy-duty hinges on lids. • Upper edge, below lids, to have sealing lip for push-on type rubber seal (boot rubber) • Material type and thickness: Mild steel plate for bottom, back and sides (2 mm). Aluminium checker plate for all lids (3 mm) • Only mild steel sections (bottom, back and sides) to be sprayed with undercoat and finished with matt black. • All lids to have lifting handles and retaining rods to keep them open. • Two or three lifting trays with lifting handles to be fitted to right hand side of Bin C, as indicated in drawing. • Lid for Bin B to be shaped to clear roll bar when open. • Bin B fits between wheels arches • Sizes: Bin B length (1,008 mm), width (800 mm), height (350 mm) • Bin A & C length (640 mm), width (400 mm), height (350 mm)

W. M. Bay 4234324

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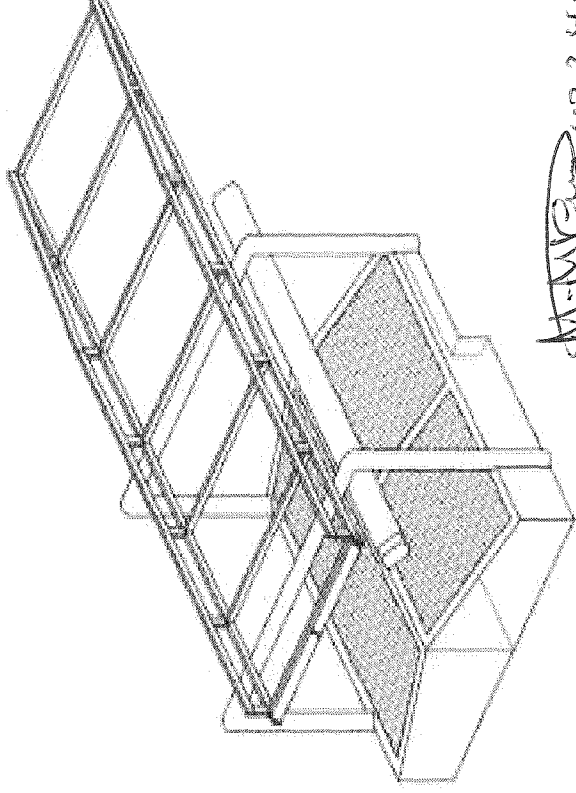
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Category TBX8 (EL)

Description	(Butterfly) or A type Aluminium toolbox fitted to load box of double cab vehicle
Specification	• Single lift-up lid on left hand and double lift-up lids on right hand side manufactured of 3 mm Aluminium tread plate with a 25 mm lip on edge of lids. • Upper edge below lids (offset by 25 mm) to have sealing lip (25 mm) for push-on type rubber seal (boot rubber) • Gas support struts to be fitted to each lid. • Length, width and height according to vehicle load box dimensions • Lids to be lockable with "Venter" type catches and heavy-duty hinges. • The bottom, back, front, sides and frame to be manufactured from 3 mm aluminium sheeting. • The complete unit to be bolted into the load box of vehicle. • The load box to be rust-proofed, prior to bolting-in the toolbox. • Toolbox to be water and dust proof, and of durable construction. • Toolbox to have centre division between left and right side. • Toolbox to have drainage holes which are rubber plugged. • Height of roof centre strut to be (110 mm) above top edge of tailgate (not to obstruct the rear view when reversing) • Colour: White (Not the Lids) • Mudguards to be reinforced to carry weight of roll support cage



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Description	(Butterfly) or A type Aluminium toolbox fitted to load box of double cab vehicle

Specification
• Single lift-up lid on left hand and double lift-up lids on right hand side manufactured of 3 mm Aluminium tread plate with a 25 mm lip on edge of lids. • Upper edge below lids (offset by 25 mm) to have sealing lip (25 mm) for push-on type rubber seal (boot rubber) • Gas support struts to be fitted to each lid. • Length, width and height according to vehicle load box dimensions • Lids to be lockable with "Venter" type catches and heavy-duty hinges. • The bottom, back, front, sides and frame to be manufactured from 3 mm aluminium sheeting. • The complete unit to be bolted into the load box of vehicle. • The load box to be rust-proofed, prior to bolting-in the toolbox. • Toolbox to be water and dust proof, and of durable construction. • Toolbox to have centre division between left and right side. • Toolbox to have drainage holes which are rubber plugged. • Height of roof centre strut to be (110 mm) above top edge of tailgate (not to obstruct the rear view when reversing) • Colour: White (Not the Lids) • Mudguards to be reinforced to carry weight of roll support cage

Description	Standard sedan only
Specification	• SABS approved with 50 mm tow ball. • Capacity 750 kg • 7 pin female sockets wired to SABS standard

Description	Heavy duty tow bar
Specification	• SABS approved with 50 mm ball and pin. • Capacity 1,800 kg • 7 pin female sockets wired to SABS standard

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Category TBR3

Description	Heavy duty tow bar with step
Specification	• SABS approved with 50 mm ball and pin. • Capacity 1,800 kg • 7 pin female sockets wired to SABS standard

Bull bars.

Category BBR1

Description	Bull bar Normal duty
Specification	• SABS approved 60 mm

Category BBR2

Description	Bull bar Heavy duty
Specification	• SABS approved 70 mm

Roll bars

Category RBR1

Description	Normal duty to follow contours of canopy
Specification	• SABS approved 76 mm (2mm material thickness) • Roll bars to be fitted to vehicle load box base or on load box reinforced points to accommodate ladder rack. - RBR1.on LDV • Roll cage to follow contours of vehicle cab • Front roll bar to be fitted to vehicle load box base (Floor) or fitted to the provided reinforced points on the side of the loadbin (Factory fitted) • Front and rear roll bar to form roll cage to follow contours of vehicle cab • Front and rear roll bar to form roll cage to follow contours of canopy • Front roll bar to be single pipe (76 x 2 mm) • Rear roll bar to be single pipe (76 x 2 mm) • Roll bars to be fitted to vehicle load box base - in doing so, allowing space for vehicle rear light maintenance • Roll bars to be fitted with a foot plate not less than 100 mm x 300 mm x 5 mm mild steel plate, mounted with 10 mm bolts • A fish plate of the same size as foot plate to be mounted underneath, to support mounting of roll cage. (Fish plate/ support Plate)

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	• Front and rear roll bar to be jointed together with 57 mm x 2 mm pipe on either side • Where an "AA" Butterfly canopy is fitted, rear roll bar must still go through to reinforced panel of canopy on the floor
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Category RBR3 (Free standing roll cage)

Description	Roll cage to follow contours of vehicle cab
Specification	• Front and rear roll bar to form roll cage to follow contours of vehicle cab. • Top section of roll bar to be 150 mm above vehicle cab • Front roll bar to be single pipe (76 x 2 mm) • Rear roll bar to be single pipe (76 x 2 mm) • Front roll bar to be fitted to vehicle load box base (Floor) or fitted to the provided reinforced points on the side of the loadbin (Factory fitted) • Rear roll bar to be fitted to vehicle load box base. • In doing so, allowing space for vehicle rear light maintenance. • Front and rear roll bar to be jointed together with 57 mm x 2 mm pipe on either side. • Where an "AA" canopy is fitted, rear roll bar can be fitted on reinforced panel of canopy. • Roll bars to be fitted with a foot plate not less than 100 mm x 300 mm 5 mm mild steel plate, mounted with 10 mm bolts. • A Fish plate of the same size as foot plate to be mounted underneath to seaport mounting of roll cage • SABS approved

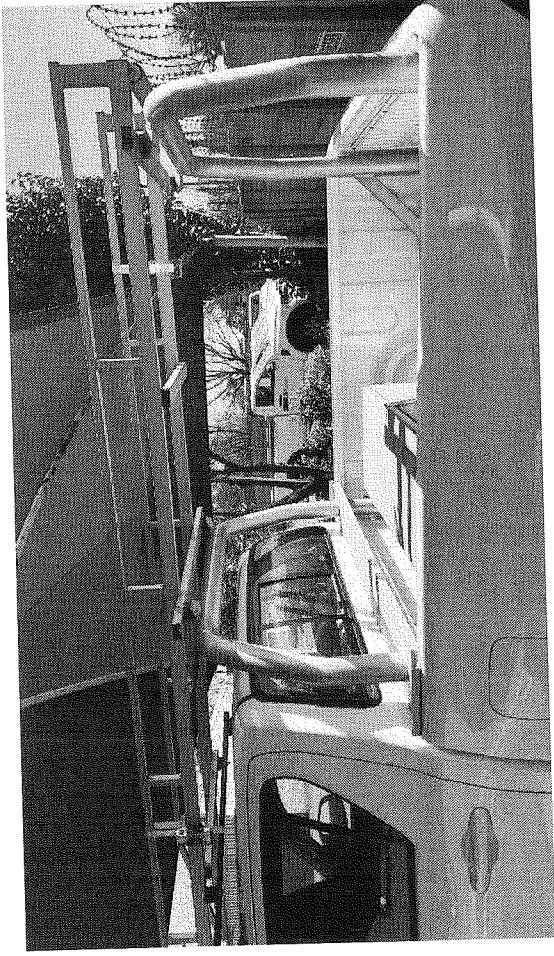
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RBR3: Free standing Roll Cage

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Note: Winches / Hoist these must be split. Only if approved by vehicle manufacturer. Hoist to be in line with Eskom directive. Winch to be used only for vehicle recovery.

Category WCH1

Description	Normal duty A hoist is mounted to the rear bumper to assist with vehicle recovery.
Specification	- Maximum rated load: 4000 kg • Wire rope capacity: 25 M of 8mm 4400 kg minimum breaking strength • Drum barrel diameter: 135 mm • Drum flange diameter: 210 mm • Distance between flanges: 200 mm • Contactor: Industrial contactor with 10 M heavy duty remote control • Approximate shipping weight: 47 kg • Gear ratio: 315:1 • Motor: 12-volt DC series wound 1.87KW

Category HOIST 1

Description	Normal duty
Specification	• Hoists shall have a recovery capacity of at least 3750 Kg. • All hoists used for hoisting shall comply with at least the following: • All hoists shall be fitted with a load limiter to prevent the SWL of 900-kg to be exceeded. • Hoists shall be fitted with a selection switch for lifting and recovery and shall be marked as such. • Hoists shall have a recovery capacity of at least 3750 Kg. • The maximum number of layers of steel wire rope permitted on a hoist shall be five. • All hoists shall be fitted with a rope tensioner to prevent incorrect coiling of the rope. • All hoists shall be fitted with automatic brakes that can support the suspended SWL. • Only mountings/drawbars approved by the hoist manufacturer, or his accredited agent shall be permitted for hoisting. • Only the manufacturer or his accredited agent shall fit all hoists to vehicles for lifting purposes. • All vehicles fitted with lifting hoists shall have an emergency disconnecting switch. • Hoists approved for lifting shall have a name plate indicating the following: ➤ That it is a lifting hoist ➤ The safe working load for lifting in Kg. ➤ The safe recovery capacity in Kg ➤ Have a 300-mm section of the rope marked yellow to indicate to the operator that the rope is nearing its maximum roll out point.

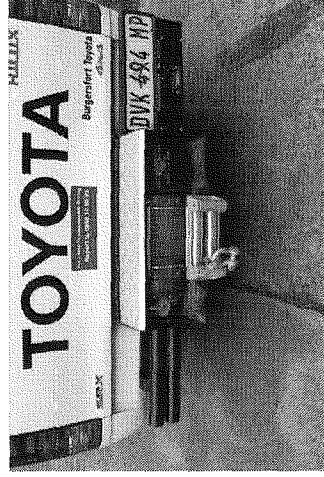
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	➤ Have a 100-mm section of the rope marked red to indicate to the operator that there are only five full turns left on the drum. ➤ That the hoist mounting shall be able to withstand a draw tension of at least 3750-kg. ➤ The hoist mounting shall be attached to the chassis of the vehicle. ➤ Each hoist shall be clearly marked with the SWL of the hoist with the rope on the top layer. ➤ The hoisting kit shall contain at least the following equipment: ➤ Two-wheel chocks as specified in this standard ➤ Two snatch blocks with sheaf grooves that match the wire rope size with a SWL 2000kg. ➤ Two slings with a SWL of 2000 kg ➤ Four shackles with a SWL of 2000 kg ➤ The eye of the wire rope shall be fitted with a thimble and a shackle with a SWL of 2000 kg. ➤ All hoists shall be fitted with a control lever protector to prevent the inadvertent disengagement when under load. ➤ Each hoist shall be supplied from the manufacturer with the following: ➤ A valid test certificate for ➤ Safe working load (900 Kg) ➤ Maximum load limit (3750 Kg) ➤ Factor of safety of the completed assembly ➤ The requirements for inspection and testing
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Electrical Components

Category EL1

Description	Working lights are fitted to the ladder rack to assist with night-time operations.
Specification	- LED 60W flood lamps to be mounted to the ladder rack as working lights, one on each side of ladder rack on provided brackets. - The light should be of the high beam focus type allowing an ample focus of the beam on the subject and its immediate surroundings. A wide angle or telescopic beam is deemed unsuitable. - Fitment to brackets or mounting plates provided on ladder rack. - All wiring neatly in ducting - A separate switch is to be fitted in the cab to control the lights. - Run the wiring through the ladder rack frame from front to the back - A waterproof wiring connection from cab to canopy on the front of canopy, IP65 rating

Category EL2

Description	Amber strobe revolving lights
Specification	12-volt heavy duty (vibration proof) Led generation 3 strobe light to be mounted on R/H side of the ladder rack. - All wiring neatly in ducting - A separate switch with a warning light to be fitted in the cab to control the light. - Run the wiring through the ladder rack frame from front to the back - A water and dust proof wiring connection from cab to canopy on the front of canopy, IP65 rating

Category EL12

Description	Electrical on canopies with side doors and ladder rack.
Specification	Description
Canopy Lights (interior) (are fitted to the inside of the canopy to assist with nighttime operations)	2 X 12-volt LED strip lights lamps (42 LED 260mm long) to be fitted near side door openings. 1 x LED strip light lamp (54 LED 310mm long) to be fitted to the rear door. - All wiring to be neatly in ducting. - A separate switch is to be fitted in the cab to control the lights.

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	- There must be a pull out and push in connection between the canopy and cab on the wiring - As per EL1
Working lights (are fitted to the ladder rack to assist with nighttime operations)	
Amber revolving lights	As per EL2
Additional cab light	Fit LED interior light (TL217DXL) type with switch in cab linked to the excising cab light.
Alarm Sensor	- Door switches to be fitted to each door and link into the vehicles alarm system - Door micro switches to be mounted on a metal bracket, fitted in the upper corners of the door. Ensure that switches and brackets are out of loading area. - All wiring neatly in Ducting - Must be linked into the vehicles alarm system.
Auxiliary shutdown power	An Aux. power shutdown system that cut all power to auxiliaries 30min after engine shutdown to be installed for battery protection. A Red reset button must be installed to reactivate system once it goes to sleeping mode.
Fuse Box	A 6-way fuse box to be fitted and all connections e.g. All Lights, alarm, and MDT must be connected to the fuse box.

Note: Portable handheld spotlights and Magnetic revolving lamps are for the customer's account.

Rubberising

Description	Rubberising load bin of an LDV: Double cab, Single Cab, Extended Cab
Specification	- Load bin to be prep for rubberising - Rubberising to be at least 5 mm thickness

Panel Van wooden floor and Partition

Description	Wooden Floor and sides, manufactured of 8mm industrial plywood, mounted in the rear of panel van on the entire floor and the sides up to the roof.
Specification	Wooden floor and sides - The floor must be the full size of the cargo area, and the sides must be up to the top of the roof. - Floor must be screwed onto the vehicle floor. - Wooden partition made of 12 mm industrial ply = Full width and full height of load space directly behind the rear seat of

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	the vehicle, with opening of 710mm x 400 mm in the middle – top part of the partition to access view for rear view mirror. Opening must be covered with a cargo net. Partition behind the seats • Manufactured of 8mm industrial plywood. • All wood must be sealed with a durable clear wood sealer.
--	--

Panel Van wooden floor and Partition

Description	
Wooden Partition no1	Wooden toolboxes with lockable lids, manufactured of 12mm industrial plywood, mounted behind Crew cab with wooden floor and sides. (1) Wooden partition between load area and crew area. (2) Two toolboxes on each side of load body.
	Wooden partition made of 12 mm industrial ply = Full width and full height of load space directly behind the rear seat of the vehicle, with opening of 710mm x 400 mm in the middle – top part of the partition to access view for rear view mirror. Opening must be covered with a cargo net.
Toolboxes no2	Toolboxes x 2, one on each side with 785 load space between toolboxes. Length = (From partition in front as far back as possible) Width = 400mm Height = 970 mm Length = 950mm Toolboxes and lids to be manufactured of 12mm industrial plywood. All edges to be rounded off. Toolboxes must be made with loading space on top, full size of toolbox. Loading space in front left side = 3x pigeon holes 225x180 mm on top of each other. Cupboard with 2x doors opening sideways on the right side = 660mm x 530mm (doors =330 x 530) Cupboard on the bottom of the toolbox with lid opening to the bottom = 950mm x 280 mm.
Wooden floor and sides	Lids must be lockable. (nose and staple)
	Toolboxes to be mounted on top of wooden floor and against wooden sides. Rear of toolboxes must follow the curve of the load space sides. All joints must be reinforced with solid wood strips / aluminium corner strips.
	The floor must be the full size of the load body floor, and the sides must be up to the top of the toolbox back sides. Manufactured of 12mm industrial plywood. All wood must be sealed with a durable clear wood sealer.
Link stick holder	1200mm x 100mm PVC pipe with lockable lid to be fitted threw the length of the cupboard (on the floor) to accommodate the link stick.

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Interframe with drawer system

<u>Description</u>	Internal frame with drawer system and ladder rack for the LDVs
Canopy	Canopy to be fitted over the frame and sealed where the ladder rack mounting bolts goes through the canopy. Two metal discs shaped with the canopy to be used to seal the canopy to the frame. Distance between the canopy and the internal frame need to be spaced to ensure that canopy rear door locks are closing properly.
Internal Frame	Frames fits on the inside of glass fibre canopy. Frame manufactured from 50x50x2.0 mild steel tube at the rear to clear the sliding table and 50x25x2mm in front with additional support beams of 50 x25 to the mounting points on floor. Mild steel tube as connection tubes from the rear to the front frame and the frame for the cargo slide mounting. Mounting points for ladder rack to be on this frame. Frame to be mounted directly onto the chassis through floor at load body mounting points with M10 HT plated bolts and not only to the load box floor. On double cab vehicles front mounting support plates on top and underneath load body to be used. Mounting plates and gussets manufactured from 4.5mm MS plate. Mounting to the wheel arch where roll bar is normally fixed not allowed. Frame painted with 1K primer and 2K gloss black paint.
2 x link stick holder	2 x 110 mm PVC pipe (grade 4)2100mm long with solid end cap in front and a lockable end cap at the rear, to be secured with a 1.5mm steel cable. The link stick container must be fully dust and waterproof, with a lockable lid at the rear, Lid to be secured to the holder. Fitted on top of the canopy roof next to the ladder rack on both sides of the canopy, clamped onto ladder rack at three points
ladder rack	A framework to be built from 38.1x38.1x1.6 mild steel tubing 3400mm long and 1100 wide.

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Frame to be hot dipped galvanized.	Frame must be simple single level ladder frame with uprights on sides to guide ladders, the uprights must be closed with plastic end caps.
	Ladder rack to be mounted through the roof of the canopy onto the steel internal frame in 8 places
	A spoiler manufactured from 0.9mm is fitted on the front section of ladder rack to reduce noise.
	Standard 50mm rollers with sealed bearings to be used as rollers at the back of rack, rollers must be coated with hard wearing rubber of at least 3mm thick.
	Beacon light bracket must also be fitted on driver side.
	Four securing 35 mm wide nylon straps (1.5 Ton breakage) and ratchets to be supplied (1500mm long). Ratchets to be fitted on outside of ladder rack opposite cross beams.
	Carpet strips to be fitted on top of ladder rack cross supports, to protect the ladder from scratching during the mounting process.
	Curved ladder rack supporting brackets manufactured from 25 x 25 x 2 mm mild steel to be mounted on rubber mountings in front of the front door of the vehicle following the contour of the vehicle.
	The rubber mounting to be mounted on a bracket 10mm thick which is secured to the chassis where the running boards mount in the front.
	Ladder rack frame to be galvanized
	Ladder rack front support beams to be galvanized.
	Front roll bar to be replaced by new steel inner frame.
	All holes that are drilled into load box must be treated with rust inhibitor (SNK 2) and repainted with black paint before installing the bolts.
Lights	As per EL1&2
	All wood to be vanished two coats on both sides.
	Frames to be marked with an id-plate for with manufacturers details and serial nr.


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Internal frame with drawer system and ladder rack for the LDVs

<u>Description</u>	<u>Internal frame with drawer system and ladder rack for the LDVs</u>
Canopy	Canopy to be fitted over the frame and sealed where the ladder rack mounting bolts goes through the canopy. Two metal discs shaped with the canopy to be used to seal the canopy to the frame. Distance between the canopy and the internal frame need to be spaced to ensure that canopy rear door locks are closing properly.
Internal Steel Frame	Frames fits on the inside of glass fibre canopy. Frame manufactured from 50x50x2.0 Mild steel tube at the rear to clear the sliding table and 50x25x2mm in front with additional support beams of 50 x25 to the mounting points on floor. Mild steel tube as connection tubes from the rear to the front frame and the frame for the cargo slide mounting. Mounting points for ladder rack to be on this frame. Frame to be mounted directly onto the chassis through floor at load body mounting points with M10 HT plated bolts and not only to the load box floor. On double cab vehicles front mounting support plates on top and underneath load body to be used. Mounting plates and gussets manufactured from 4.5mm MS plate. Mounting to the wheel arch where roll bar is normally fixed not allowed. Frame painted with 1K primer and 2K gloss black paint.
2 X link stick holder	2 x 110 mm PVC pipe (grade 4)2100mm long with solid end cap in front and a lockable end cap at the rear, to be secured with a 1.5mm steel cable. The link stick container must be fully dust and waterproof, with a lockable lid at the rear, lid to be secured to the holder.
ladder rack	Fitted on top of the canopy roof next to the ladder rack on both sides of the canopy, clamped onto ladder rack at three points A framework to be built from 38.1x38.1x1.6 mild steel tubing 3400mm long and 1100 wide.
Frame to be hot dipped galvanized.	Frame must be simple single level ladder frame with uprights on sides to guide ladders, the uprights must be closed with plastic end caps.
	Ladder rack to be mounted through the roof of the canopy onto the steel internal frame in 8 places
	A spoiler manufactured from 0.9mm is fitted on the front section of ladder rack to reduce noise.
	Standard 50mm Rollers with sealed bearings to be used as rollers at the back of rack, rollers must be coated with hard wearing rubber of at least 3mm thick.
	Beacon light bracket must also be fitted on driver side.
	Four securing 35 mm wide nylon straps (1.5 Ton breakage) and ratchets to be supplied (1500mm long). Ratchets to be fitted on outside of ladder rack opposite cross beams.

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	Carpet strips to be fitted on top of ladder rack cross supports, to protect the ladder from scratching during the mounting process.
	Curved ladder rack supporting brackets manufactured from 25 x 25 x 2 mm mild steel to be mounted on rubber mountings in front of the front door of the vehicle following the contour of the vehicle.
	The rubber mounting to be mounted on a bracket 10mm thick which is secured to the chassis where the running boards mount in the front.
	Ladder rack frame to be galvanised
	Ladder rack front support beams to be galvanised.
Remarks	Front roll bar to be replaced by new steel inner frame.
	All holes that are drilled into load box must be treated with rust inhibitor (SNK 2) and repainted with black paint before installing the bolts.
Lights	As per EL1&2
Additional Request	All wood to be vanished two coats on both sides.
	Frames to be marked with an id-plate for with manufacturers details and serial nr.


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