

## **KME UTILITY BODY**

### **BODY DESIGN CONSTRUCTION**

The body side and compartment assemblies shall be designed and assembled to provide maximum strength and durability under all operating conditions.

Special attention shall be taken to minimize corrosion on all fabricated parts and structural members of the body. All bolt-on components shall be provided with a dissimilar metals isolation barrier to prevent electric corrosion. The body design shall also incorporate removable panels to access spring hangers, rear body mounts and fuel tank sending units.

The body assembly shall be an all-welded configuration, utilizing square body corners and shall be completely isolated from the cab.

### **BODY AND COMPARTMENT FABRICATION - 3/16" ALUMINUM**

All compartment panels and body side sheets shall be entirely 3/16" aluminum (5052-H32). Each side compartment assembly shall be both plug welded and stitch welded to ensure proper weld penetration on all panels while avoiding the possible warping caused by a full seam weld. The side compartments shall be welded on a fixture to ensure true body dimensions of all door openings. The side compartments and body side panels are then set into a body squaring fixture where the super structure is installed and the entire body is aligned to be completely symmetrical. The super structure is then welded to the compartment side panels and reinforcement plates are inserted which allows the compartment panels to become an integral component of the body support structure. A full seam weld shall not be used due to the applied heat which shall distort sheet metal and remove the protective coating from the perimeter of the welded area. All seams shall be caulked prior to finish paint to ensure proper compartment seal.

### **SUPER STRUCTURE - ALUMINUM**

The body super structure shall be an all welded configuration utilizing a combination of 3" x 1-1/2" 6061-T6 thick walled structural tubing and 6061 structural channel.

This structure shall be designed to totally support the full length and width of the body and shall be welded to the body side compartments by use of reinforcement plates to incorporate the compartments into an integral part of the body weldment.

The super structure shall be bolted to the sides of the chassis frame at four (4) points.

### **STEPPING, STANDING, & WALKING SURFACES**

All stepping, standing, and walking surfaces on the body shall meet NFPA #1901 anti-slip standards. Aluminum tread plate utilized for stepping, standing, and walking surfaces shall be ALCOA No Slip type. Upon request by the Purchaser, the manufacturer shall supply proof of compliance with this requirement.

All vertical surfaces on the body, which incorporate aluminum tread plate material, will utilize the same material pattern to provide a consistent overall appearance. NO EXCEPTIONS!

### **DRIVER'S SIDE COMPARTMENTS**

One (1) compartment shall be provided forward of the rear wheels 49.0" high x 33.75" wide x 21" deep with a single door opening 49" high x 31" wide.

One (1) compartment shall be provided to the rear of the rear wheels 18.75" high x 23" wide x 21" deep with a single door opening 18" high x 22.75" wide.

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### **OFFICER'S SIDE COMPARTMENTS**

One (1) compartment shall be provided forward of the rear wheels 49" high x 33.75" wide x 21" deep with a single door opening 49" high x 31" wide.

One (1) compartment shall be provided over the rear wheels, 26" high x 44.5" wide x 21" deep with a double vertically hinged door opening 24" high x 42" wide.

One (1) compartment shall be provided to the rear of the rear wheels 49" high x 22.75" wide x 21" deep with a single door opening 49" high x 23" wide. **Compartment shall be constructed with the frame work and support for the installation of a Lift Moore crane.**

### **REAR OF BODY**

Shall be designed to support a Power Tommy gate and crane outriggers . Curb side of the out rigger will be out and down, street side down only. 1 tow hitch tube shall be mounted under the out rigger tube. Wiring and brake control will be supplied and mounted in plant 9

### **COMPARTMENT DOORS (1" THICK)**

The compartment doors shall be flush type with the outer skin fabricated from 3/16" (3003 H14) aluminum. The door skin shall have a formed flange on one (1) side to be used as a hinge mounting flange. The door skin shall have reinforcing channels welded internally to accommodate the inner door pan mounting.

The 1" thick compartment doors shall reduce the overall specified compartment depth by 1-1/4".

Each inner pan shall be constructed from 1/8" aluminum material, which shall be provided with a brushed finish. The brushed finish shall allow the fire department to remove scratches from the inner door pan with sand paper or scuff pad. Each inner door pan shall be fastened to the door frame channels to provide a smooth, snag-free inner door surface.

### **HINGES**

Hinges shall be full length polished stainless steel piano type. The hinges shall be mounted with stainless steel hardware.

### **DOOR SEALS**

Enclosed body compartment doors shall be equipped with a closed cell gasket. The gasket material shall be EPDM to provide a gasket resistant to weather, temperature extremes, and aging.

**DOOR LATCHES** Door latches shall be Eberhard #206 automotive type mechanism or equal. Latches shall be stainless steel "D" ring style handles for ease of operation even with gloves on.

No Locking \_\_\_\_\_ Locking\_\_\_\_\_

The blank door in a double door configuration shall be provided with an internal, top only, slam latch. Dissimilar metals insulating gaskets shall be placed between the door handles and outer door panels to prevent any electrolytic reaction between dissimilar metals to protect paint.

### **COMPARTMENT SHELVES**

All right side body compartment shall have adjustable Shelves One (1) per compartment  
The left front compartment shall have adjustable Shelves One (1) per compartment

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### **STAY ARMS**

Stay arms shall be Eberhard gas shock type door stay arms., to be used on all vertically hinged storage compartment doors.

All horizontally hinged compartment doors shall be furnished with two (2) Eberhard gas shock type door stay arms.

### **SWEEP-OUT COMPARTMENT FLOORS**

Compartment floors shall be welded to the compartment walls and have a sweep out design for easy cleaning.

Compartments with hinged doors shall have the door opening flanges bend down to produce the sweep-out design.

### **FRONT BODY OVERLAY**

Front of Body compartment shall be covered with polished aluminum tread plate on both sides.  
Yes \_\_\_\_\_ No \_\_\_\_\_

### **COMPARTMENT TOPS**

Compartment tops shall be covered with polished aluminum tread plate on both sides.

### **COATED FASTENERS - (NO EXCEPTIONS)**

All exterior fasteners shall be coated stainless steel screws. Screw threads shall be coated with reusable, self-locking, sealing material to provide vibration resistance. Screw heads shall be coated with a sealing element to prevent galvanic corrosion between dissimilar metals. Non-coated screws shall only be provided as part of vendor supplied component installations.

### **COMPARTMENT LOUVERS**

Ventilation between compartments to atmosphere shall be provided and located to avoid water entry into compartments.

### **ACCESS PANELS**

Removable access panels shall be provided in all lower compartments to access spring pins, fuel tank sender, electrical junction compartment and rear body mounts.

Protective panels shall be located in the rear compartments providing access to the lights and associated wiring. The covers shall also serve as protective covers to prevent inadvertent damage to lights or wiring from tools or equipment located in the compartment.

### **REAR FENDERETTES**

The single rear fenders shall be trimmed with replaceable, bolt-in, aluminum fenderettes. The fenderettes shall be secured to the body with stainless steel threaded fasteners along the internal perimeter of the wheel well.

### **MUD FLAPS**

Heavy duty mud flaps shall be provided behind the rear wheels.

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### **BODY FLOOR, DUNNAGE AREA**

The area between the right side compartments and the left outer side of the body shall serve as a storage area. The subframe of the body shall be overlaid with 3/16" aluminum tread plate to provide a walking surface and a section of grip strut material 6 inch wide shall be run the length of the body to provide drainage in the storage bed. Note: the grip strut material shall not be higher than the floor not to cause a tripping point.

### **LEFT SIDE RACK SYSTEM**

Permanent \_\_\_\_\_ Removable \_\_\_\_\_ Hinged \_\_\_\_\_

### **ICC LIGHTING**

Trucklite Dot led light to be mounted as follows, Two (2) Yellow # 063162V006 outer edge of the right and left front compartments (top). Two (2) Red # 063162V005 outer edge of the right and left rear compartments (top). Three (3) red # 063162V005 to be mounted in the rear step bumper. (2) LED Trucklite TL44030R 4 inch rubber mounted stop tail and turn combo lights. (2) LED Trucklite TL44041C 4 inch rubber mounted reverse lights.

### **\*\*\*\* PAINT SECTION \*\*\*\***

### **PAINT, PREPARATION AND FINISH**

The PPG Delta, Low V.O.C., polyurethane finishing system, or equal, shall be utilized. A "Clear Coat" paint finish shall be supplied to provide greater protection to the quality of the exterior paint finish.

All removable items, such as brackets, compartment doors, etc. shall be painted separately to insure finish paint behind mounted items. All compartment unwelded seams exposed to high moisture environments shall be sealed using permanent pliable caulking prior to finish paint.

### **BODY PRIMER & PREPARATION**

All exposed welds shall be ground smooth for final finishing of areas to be painted. The compartments and doors are totally degreased and phosphatized. After final body work is completed, grinding (36 and 80 grit), and finish sanding shall be used in preparation for priming.

### **BODY FINISH PAINT**

The body shall be finish sanded and prepared for final paint. Upon completion of final preparation, the body shall be painted utilizing the highest quality, state of the art, low V.O.C., polyurethane base paint. Finish paint shall be applied in multiple coats to ensure proper paint coverage with a high gloss finish.

The entire body shall be buffed and detailed.

**PAINT CODE** \_\_\_\_\_

### **BODY PAINT**

The inside and underside areas of the complete body assembly shall be painted black, prior to the installation of the body on the chassis

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**COMPARTMENT PAINT**

The interior of the compartments shall be finish painted job color with a scuff resistant webbing type paint of a contrasting color applied over the painted surfaces.

**JOB COLOR** \_\_\_\_\_ **OTHER** \_\_\_\_\_

**BODY PAINT**

The body paint finish shall be PPG Delta System in a single color, to match customer furnished paint codes and requirements.

**TOUCH-UP PAINT**

One (1) pint of each exterior color paint for touch-up purposes shall be supplied when the apparatus is delivered to the end user.

**FINALIZATION & DETAILING**

Prior to delivery the vehicle, the interior and exterior be cleaned and detailed. The finalization process detailing shall include installation of NFPA required labels, checking fluid levels, sealing and caulking required areas of the cab and body, rust proofing, paint touch-up, etc.