

Designation: E2518 - 11

Standard Specification for Cargo Bed Cover, Type IV (M923, 5 Ton Cargo Truck/M1083, 5 Ton Medium Tactical Vehicle (MTV)/ M1082, 5 Ton MTV Trailer)¹

This standard is issued under the fixed designation E2518; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1This specification covers the general requirements for the Type IV Cargo Bed Cover (CBC). The Type IV Cargo Bed Cover is a removable general purpose rigid enclosure for the cargo bed of the M923, 5 Ton Cargo Truck/M1083, 5 Ton Medium Tactical Vehicle (MTV)/M1095, 5 Ton MTV Trailer. The CBC provides environmental protection and security for mission equipment and items of general transport.

- 1.1 This specification covers the general requirements for the Type IV Cargo Bed Cover (CBC). The Type IV CBC is a removable general purpose rigid wall enclosure that is mounted to the following model 5 ton cargo trucks: (1) the M923 Medium Tactical Vehicle (MTV) and (2) the M1083 MTV. It also can be mounted on the M1095 5 Ton MTV Trailer. The CBC provides environmental protection and security for mission equipment and items of general transport.
- 1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parenthesis are for information only. The values stated in inch-pound units are to be regarded as standard. No other units of measurement are included in this standard.
- 1.3 The following safety hazards caveat pertains only to the test required portion, Section 4, of this specification: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use.

2. Referenced Documents

2.1 ASTM Standards:²

E1925 Specification for Engineering and Design Criteria for Rigid Wall Relocatable Structures

F501 Test Method for Aerospace Materials Response to Flame, with Vertical Test Specimen (For Aerospace Vehicles Standard Conditions)³

2.2 tt Federal Standard: Federal Standards: 4 rds/sist/6850cac0-b22a-4f3b-9b02-12ddf6980b10/astm-e2518-11

FED-STD-595 Colors Used in Government Procurement

2.3 Military Standards:⁴

MIL-STD-209 Slinging and Tiedown Provisions for Lifting and Tying Down Military Equipment

MIL-STD-810 Environmental Test Methods and Engineering Guidelines

MIL-STD-1366 Transportability Criteria

MIL-STD-1472 Design Criteria: Human Engineering

MIL-DTL-53039 Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant

MIL-DTL-53072 Chemical Agent Resistant Coating (CARC) System Application Procedures and Quality Control Inspection

2.4 *Military Handbooks: Military Handbooks:* ⁴

MIL-HDBK-759 Human Engineering Design

MIL-HDBK-1791 Designing for Internal Aerial Delivery in Fixed Winged Aircraft

¹ This specification is under the jurisdiction of ASTM Committee E06 on Performance of Buildings and is the direct responsibility of Subcommittee E06.53 on Materials and Processes for Durable Rigidwall Relocatable Structures.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Withdrawn. The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, http://www.dodssp.daps.mil.



2.5 OSHA Documents:⁵

Occupational Safety and Health Act(OSHA), Title 29 CFR 1910 Title 29 CFR 1910

2.6 The American Conference of Governmental Industrial Hygienists (ACGIH): ACGIH Documents: 6

ACGIH Threshold Limit Values ACGIH Threshold Limit Values

3. General Requirements

- 3.1 First Article—When specified (see 6.2), a sample shall be subjected to first article inspection in accordance with 4.1.1. A
 first article is defined as a pre-production or an initial production sample consisting of one or more of each Typetype of completed CBC.
 - 3.2 *Conformance*—Items furnished under this specification shall be subjected to conformance inspection in accordance with 4.1.2.
 - 3.3 *Operating Requirements*—Unless otherwise specified, the Type IV CBC shall meet the following operating requirements in both the height extended and height retracted configurations.
 - 3.3.1 *Configurations*—The Type IV CBC shall have two configurations, height extended and height retracted. The height extended configuration is the normal operating configuration for the CBC and provides for maximum usable volume. The height retracted configuration provides less usable volume but is capable of being loaded on the C-130,C-130 and C-141 Military Airlift Command (MAC) fixed wing aircraft. Unless otherwise specified, the CBC shall meet all the requirements of this specification sheet in both the height extended and height retracted configurations.
- 3.3.2 Height Adjustment Device—In both its payloaded (see 3.3.8) and non-payloaded configurations the Type IV CBC shall be capable of being manually extended from its retracted configuration and vise versa by 2two soldiers in 20 minutesmin using only the tools of the Basic Issue Items (BII) and the Additional Authorization List (AAL) as described in the carrier's Operator's Manual, and tools supplied with the CBC. Any hardware or special tools required for extending/retracting the CBC shall be provided as part of the CBC. Additional materials handling equipment shall not be required. The CBC shall be capable of multiple extension/retraction cycles, in accordance with its manual, without damage or degradation to either the CBC, its carrier, or its height adjustment devise.
- 3.3.3 *CBC Service Life, Reliability_ and Maintainability*—The service life for the CBC shall be at least 15 years. The mean time to repair at the organizational and intermediate level shall not exceed 4 hours at the 90th percentile. Gaskets, seals, flaps, and other materials shall be fixed to the CBC and shall be replaceable.
 - 3.3.4 Personnel Hazards

3.3.4.1:

- <u>3.3.4.1</u> *Mechanical*—The CBC shall conform to regulatory and consensus design safety standards, unless military applications require more stringent limits, and reflect applicable system and personnel safety factors. The CBC shall provide personnel maximum access and safety while installing, operating, and maintaining the equipment.
- 3.3.4.2 *Edge Rounding*—All exposed edges and corners shall be rounded. Sharp edges and corners that can present a personnel safety hazard or caused equipment damage during operation and maintenance shall be rounded or suitably protected.
 - 3.3.5 Toxicity

3.3.5.1<u>:</u>

- 3.3.5.1 Materials—Certain chemicals have been identified in the Occupational Safety and Health Act Title 29 CFR 1910 (OSHA), as cancer-producing substances (carcinogens). Materials used in the CBC shall not contain these chemicals. Consideration of the human toxicity of a substance should be given prior to material selection.
- 3.3.5.2 Gases or Vapors—The materials, as installed in the equipment and under service conditions specified in the equipment specification, shall not liberate noxious odors, toxic or corrosive gases, or vapors that would be detrimental to the health of personnel.
- 3.3.6 *Vents*—The CBC shall include 2two vents for fresh air ventilation. The vents shall be located to facilitate fresh air flow through the cargo area. The vents shall prevent intrusion of driven rain and have provisions for blackout. Vents shall be capable of providing ventilation when the vehicle is both stationary and on the move. Vents requiring operation shall be capable of being operated manually. The interior surface of the door shall have a warning in at least 1½ 2 inch in. high letters contrasting the color of the door. The warning shall say "Warning—Suffocation hazard, door must remain open while occupied." This requirement shall apply to the Type IV CBCs in the height extended configuration only.
- 3.3.7 Roof Loads—The CBC roof shall be capable of supporting, without structural damage, degradation or permanent deformation: (1) a uniformly distributed load of $\frac{40 \text{ lbs/ft}}{40 \text{ lb/ft}}^2$ over the entire surface and (2) a concentrated load of $\frac{600 \text{ lbs over}}{40 \text{ lbs/ft}}$ over the entire surface and (2) a concentrated load of $\frac{600 \text{ lbs over}}{40 \text{ lbs/ft}}$ over the entire surface and (2) a concentrated load of $\frac{600 \text{ lbs over}}{40 \text{ lbs/ft}}$ over a $\frac{1 \times 2}{40 \text{ lbs/ft}}$ over a $\frac{1 \times 2}{40 \text{ lbs/ft}}$ over a $\frac{1 \times 2}{40 \text{ lbs/ft}}$ over $\frac{1 \times 2}{$
- 3.3.8 Interior Payload Provisions —The CBC shall be capable of accepting threaded fasteners such as rivnuts and inserts for mounting equipment to the interior of the CBC. The Type IV CBC and its Interior Payload Provisions shall be capable of

⁵ Available from Occupational Safety and Health Administration (OSHA), 200 Constitution Ave., NW, Washington, DC 20210, http://www.osha.gov.

⁶ Available from American Conference of Governmental Industrial Hygienists, Inc. (ACGIH), 1330 Kemper Meadow Dr., Suite 600, Cincinnati, OH 45240, http://www.acgih.org.



supporting at least 1100 pounds]b of payload during its stationary, rail transport, ground mobility and crane lifting operation modes without damage or degradation to either the CBC or its interior payload provisions. The payload shall be attached to the interior surfaces using interior payload provisions and shall be distributed as follows: 200 pounds]b mounted to each of the four wall surfaces, or 400 pounds]b mounted to each of the two side wall surfaces, and 300 pounds]b mounted to the ceiling.

- 3.3.9 Personnel Door Loads:
- 3.3.9.1 *Personnel Door Structure*—The personnel door, including its frame(s) and hardware, shall be capable of supporting a 200 lb static load without damage or degradation to either the CBC or its personnel door, frame(s) and hardware. The load shall be applied parallel to the hinge line, along the door edge opposite the hinge, with the personnel door open to 90 degrees. The personnel door shall operate freely after application of the load.
- 3.3.9.2 *Door Stop*—The personnel door, including its frame(s) and hardware, shall withstand a wind gust of 60 mph in any direction when the door is secured by its door stop.
- 3.3.10 *Surface Impact Resistance*—The exterior surface of the CBC's roof shall be capable of withstanding a blow from a 30 lb steel cylinder, 3 <u>inchesin.</u> in diameter with a hemispherical end, dropped from a height of 30 <u>inches,in.</u>, without structural degradation. All other exterior wall surfaces shall be capable of withstanding a blow from the same steel cylinder, dropped from a height of 16 <u>inches,in.</u>, without structural degradation.
 - 3.3.11 Tailgate Operation—The CBC, when mounted on its carrier, shall not inhibit operation of the carrier's tailgate.
- 3.3.12 *Blackout*—The CBC/carrier combination, with the personnel door and ports closed, shall not permit a light source from within to emit detectable amounts of light. This requirement shall apply to the Type IV CBCs in the height extended configuration only.
- 3.4 Support and Ownership Requirements—Unless otherwise specified, the Type IV CBC shall meet the following support and ownership requirements in both the height extended and height retracted configurations.
- 3.4.1 Weight—The Type IV CBC, including its height adjustment devise, but not its hardware/adapter kit, shall weigh no more than 800 pounds. <u>lb.</u>
- 3.4.2 *Personnel Door*—The Type IV CBC shall be equipped with a vertically hinged single personnel door, centrally located in the rear wall. The door opening shall be a minimum of 48.00 <u>inchesin.</u> wide by 60.00 <u>inchesin.</u> high in the height extended configuration and shall be a minimum of 48.00 <u>inchesin.</u> wide by 24.00 <u>inchesin.</u> high in its height retracted configuration. The personnel door shall swing to the outside. The personnel door's fully opened position shall be at least 135 degrees from its closed position. A door stop, for securing the personnel door in its fully opened position, shall be provided. In its closed position the personnel door shall prevent the intrusion of driven rain and dust and shall provide blackout protection.
- 3.4.2.1 *Door Handle*—The personnel door shall be equipped with a door handle that provides positive closure. From either side, the door handle shall be capable of being moved to its opened or closed position with a maximum force of 30 <u>lbslb</u> applied to the door handle. The personnel door shall be capable of being padlocked from the outside securing the CBC from the exterior.
- 3.4.2.2 Secondary Exit—A secondary exit shall be provided within the personnel door. The secondary exit opening shall be a minimum of 35.00 inchesin. wide by 30.00 inchesin. high. The secondary exit shall be capable of being opened with a maximum force of 30 lbslb applied to the release mechanism from inside of the CBC with: (1) the tailgate closed and the personnel door locked (2) the tailgate closed and the personnel door unlocked and (3) the tailgate open and the personnel door locked. With the personnel door locked, the secondary exit shall not be capable of being opened from outside the CBC. The secondary exit shall provide unobstructed egress for military personnel. This requirement shall apply to the Type IV CBC in the height extended configuration only.
- 3.4.3 *Ladder*—A ladder shall be provided to allow military personnel to safely enter and exit the CBC/carrier combination utilizing the CBC's Personnel Door. The ladder shall be capable of supporting at least 400 lbslb applied to any individual step without damage or degradation to either the CBC, carrier or ladder. The CBC shall have a stowage location for the ladder capable of securely retaining the ladder in all transportation modes without impeding any operations of the CBC or its carrier. The M1083 and M1095 carriers applicable to the Type IV CBC are equipped with a ladder.
- 3.4.4 Roof Access Handholds/Footholds —Roof access handholds/footholds shall be provided for safe access from the ground to and descend from the roof when the CBC is mounted on its carrier. The roof access handholds/footholds shall either be built into the CBC or attached to the exterior. The roof access handholds/footholds shall be designed such that the CBC/carrier combination does not: (1) exceed the legal highway size limitations imposed by states and foreign countries and (2) limit any other modes of transportation (e.g., (for example, rail, air, ship). The roof access handholds/footholds shall be designed for the 5th percentile female through the 95th percentile male military personnel. Each roof access handhold/footholds shall be capable of supporting 400 lbslb without damage or degradation to either the CBC or the roof access step/handhold.
- 3.4.5 Power and Signal Entry Ports—Two ports shall be provided in the side walls as forward as practicable to permit the pass through of power and signal lines into the CBC enclosed area when the CBC is in its height extended configuration. One port shall be located on the driver's side and the other port shall be located on the passenger's side. Each port shall be a minimum of four inches 4 in. in diameter and not allow the intrusion of driven rain and dust into the CBC and have provisions for blackout. The power and signal access ports shall have provisions for blackout.
 - 3.4.6 Transportability—The CBC/carrier combination shall be capable of obtaining transportability approval from the Military



Traffic Management Command transportability Engineering Agency (MTMCTEA) based on the requirements for transport in the following modes:

- 3.4.6.1 *Rail*—The CBC/carrier combination with payload shall: (1) meet the Gabarit International de Chargement (GIC) equipment gauge envelope as defined in interface standard MIL-STD-1366, and (2) be capable of withstanding multiple rail impacts without damage or degradation to either the CBC or its carrier and without damage to the tiedown cables, or blocking or bracing.
- 3.4.6.2 Fixed Wing—The CBC/carrier combination shall be transportable in C-130 and larger Air Mobility Command (AMC) aircraft. The combination shall also be capable of roll-on/roll-off loading at ramp angles of 15 degrees on the C-130 and larger AMC aircraft without special handling procedures or equipment. The Type IV CBCs shall be capable of roll-on/roll-off loading on the C-130 and C-141 AMC aircraft in the height retracted configuration only.
- 3.4.6.3 *Helicopter Sling Load (HSL)*—The Type IV CBC mounted on its carrier, in all its payload configurations, shall be capable of helicopter sling transport by CH-47 or larger rotary wing aircraft in the dual point configuration without damage or degradation to either the Type IV CBC or the carrier as a result of being flown.
- 3.4.6.4 *Ground Mobility*—The CBC/carrier combination shall be capable of meeting the same mission profile and miles as the carrier when driven over road courses as defined by Perryman, Churchville, and Munson courses found at Aberdeen Proving Ground, Maryland, without damage or degradation to either the CBC or its carrier. The CBC/carrier combination shall meet U.S. and NATO countries' highway legal limits.
- 3.4.6.5 *Lifting Provisions*—The CBC shall be equipped with lift provisions to enable it, with its payload, to be lifted on and off its carrier without damage or degradation to either the CBC or its lift provisions. The CBC's lift provisions shall conform to the crane lift requirements of interface standard MIL-STD-209.
 - 3.4.7 Finish:
- 3.4.7.1 *Non-skid Surfaces* Non-Skid Surfaces—All horizontal surfaces of the CBC (such as, interior floor (if applicable) and exterior roof) shall be non-skid.
 - 3.4.7.2 Interior Color—The color of the interior walls and ceiling of the CBC shall be semi-gloss white (see 6.4).
- 3.4.7.3 *Exterior Color*—Unless otherwise specified in the contract (see 6.2), the exterior color of the CBC shall be in accordance with a three-color camouflage pattern. The pattern shall be generated by the government and supplied to the contractor (see 6.4.1). The interior surface of the personnel door and secondary exit shall match the primary exterior color of the CBC.
- 3.4.8 Chemical Agent Resistance—All exterior surfaces, except weather seals and gaskets, shall be Chemical Agent Resistant Coated (CARC) in accordance with MIL-DTL-53072 using MIL-DTL-53039 chemical agent resistant coatings. All interior surfaces, except weather seals and gaskets, shall be Chemical Agent Resistant Coated (CARC) in accordance with MIL-DTL-53072 chemical agent resistant coating. Weather seals shall be resistant to chemical and biological agent contamination, decontamination fluids and petroleum products or be replaceable at the unit level.
- 3.4.9 *Special Tools*—No special tools or equipment shall be required to mount, dismount or operate the CBC. The Type IV CBC may have a height adjustment devise which includes special tools or equipment (see 3.3.2).
- 3.4.10 *Mounting*—The CBC shall be capable of multiple mounting and dismounting cycles from its carrier, in accordance with its manual, without damage or degradation to either the CBC, its carrier or its mounting provisions and hardware. These hardware/adapter kits shall allow the Type IV CBCs to mount to their respective carriers, and shall be ordered separately (see 6.2). With the CBC mounted to the carrier, the D-rings in the bed of the carrier shall not be covered, nor shall the operation of the D-ring be limited.
 - 3.4.11 Carrier Interface:
- 3.4.11.1 *Carrier Series*—Using applicable adapters (see 3.4.10) the Type IV CBC shall be capable of mounting to, and allowing full operation of, the following carriers:
 - (1) M923, 5 Ton Cargo Truck,
 - (2) M1083, 5 Ton Medium Tactical Vehicle (MTV), and
 - (3) M1095, 5 Ton MTV Trailer.
 - 3.4.11.2 Carrier Modifications:

(1)

- 3.4.11.2.1 M923 Modifications—Installation of the Type IV CBC shall utilize the M923's existing mounting regions to the maximum extent possible. Modifications to the M923, such as drilled holes, shall be kept to a minimum. No modifications shall be made to the vehicle's frame. Any proposed modification(s) made to the M923 must be submitted to the government for approval prior to incorporation into the design. Only modifications capable of being made in the field with hand tools or small power tools (that is, installation of rivnuts, drilled or punched holes) shall be considered. Only modifications which permit multiple mounting and dismounting shall be considered.
- 3.4.11.2.2 (2) M1083 and M1095 Modifications —The Type IV CBC shall be capable of being mounted to the M1083 and M1095 using the existing mounting regions of the carriers. No modifications shall be made to these carriers. The D-rings in the bed of the carrier shall not be covered, nor shall the operation of the D-ring be limited.
- 3.4.11.3 *Hardware/Adapter Kits*—The CBC shall have provisions to mount it to any of the carriers listed in 2.5.2.1. These provisions may include separate hardware or adapters for each type carrier. The hardware/adapter kits shall have as much



- commonality as practicable. The hardware/adapters kits shall be ordered separately from the CBC. The kits shall not be part of the CBC weight but shall weigh no more than 200 pounds.lb. A ladder meeting the requirements of paragraph 3.4.3 shall be provided for the M923 hardware/adapter kit only. The M1083 and M1095 carriers come with a ladder, and therefore do not require a ladder.
- 3.4.11.4 *Installation Tools*—The Type IV CBC using the appropriate carrier hardware/adapter kit shall be capable of being attached to, and detached from, the carrier using only those tools of the Basic Issue Items (BII) and the Additional Authorization List (AAL) as described in the carrier's operator's manual.
- 3.4.11.5 *Interference*—The Type IV CBC shall not obstruct or interfere with the installation, removal, or operation of the carrier's components (such as, reflectors, brake/tail lights, rear antenna mounts or D-rings).
- 3.4.12 *Identification*—The exterior endwall at the door end of each CBC shall be permanently marked to identify the item nomenclature, including CBC type, manufacturer, contract number, national stock number, tare weight and serial number. This information shall be visible, by personnel standing on the ground, with the CBC either mounted or dismounted from its carrier.
- 3.5 Environmental Requirements —Unless otherwise specified, the Type IV CBCs shall meet the following Environmental requirements in both the height extended and height retracted configurations.
- 3.5.1 *Humidity Resistance*—The CBC shall be capable of withstanding daily exposure of up to 97 % relative humidity for 20 hours and exposure of 100 % relative humidity (with condensation) for 4 hours without evidence of corrosion, structural damage, degradation or permanent deformation.
- 3.5.2 Marine Atmosphere (Sea-salt [Sea-Salt Fallout)—The CBC, when exposed to a marine environment sea salt fallout rate equivalent to 25 pounds per acre per year (2.0 g/m ²/yr), shall not corrode or degrade.
- 3.5.3 *Ice*—The CBC including its door(s), vents and cable ports shall be capable of withstanding and remaining operational while the CBC is exposed to the forces and effects due to the accumulation of .25 inches (6mm)0.25 in. (6 mm) of ice produced by freezing rain, mist, or sea spray.
- 3.5.4 *Temperature Range*—The CBC shall be capable of withstanding temperatures ranges of -60°F to 160°F in storage and transit and -60°F to 120°F plus solar load for normal operations. The CBC, including fasteners, seals or other hardware, shall show no evidence of corrosion or degradation.
- 3.5.5 Temperature Shock—The CBC shall withstand a temperature shock from an equilibrium state of 160°F to -70°F within 5 minutesmin and from an equilibrium state of -70 °F to 160°F within 5 minutesmin without evidence of structural damage, degradation, or permanent deformation.
- 3.5.6 Blowing Sand and Dust—The CBC, when mounted on its carrier, shall resist the effects of blowing sand and dust without damage or degradation. The CBC shall remain fully operational with no more than 16.80 in. $^3(0.50 \text{ pint})$ _(0.50 pt) of sand penetration into the interior of the CBC. Blowing sand is defined as 150-_1000 micron particles in concentrations of $\frac{1.32 \times 10^{-4}}{150}$ with a wind speed of 1750 ft/min.
- 3.5.7 *Ultraviolet Effects*—The CBC shall show no evidence of structural damage, degradation or permanent deformation as a result of exposure to ultraviolet effects.

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- 3.5.8 *Fire Resistance*—The CBC shall be non-burning or self-extinguishing (that is, have a flame time of less than 30 seconds) after removal of a flame.
 - 3.5.9 Fungus—The CBC shall be impervious to fungus growth. Materials shall be selected to minimize fungus growth.
- 3.5.10 *Watertightness*—The CBC, when mounted on its carrier, without the aide of supplementary sealing, caulking, taping or other means, shall be capable of withstanding a 40 psig spray from nozzles located 19 inchesin. from, and normal to, each external CBC surface. The CBC shall not allow more than 8 fluid oz. of water into the interior of the CBC in a 40 minute 40-min period and the weight of the CBC shall not increase by more than 1.00 lb.
- 3.6 *Interface and Operability Requirements*—Unless otherwise specified, the Type IV CBCs shall meet the following interface and operability requirements in both the height extended and height retracted configurations.
- 3.6.1 *Interchangeability*—The spare parts of the CBC produced under this specification shall be functionally and dimensionally interchangeable without modification or rework of the part or assembly.
- 3.6.2 Size—The Type IV CBC shall enclose the cargo (rear) portion of the carrier to provide the maximum volume practicable for its configuration.
- 3.6.2.1 *Interior Width, Length, and Height*—The interior dimensions of the Type IV CBC shall be no less than 140.00 <u>inchesin.</u> long by 77.0 <u>inchesin.</u> wide by 72.00 <u>inchesin.</u> high in its height extended configuration and shall be no less than 140.00 <u>inchesin.</u> long by 77.0 <u>inchesin.</u> wide by 30.00 <u>inchesin.</u> high in its stowed configuration. The CBC shall not interfere, cover or limit the operation of the D-Rings located around the perimeter of the host vehicle cargo bed.

4. Verification

- 4.1 Classification of Inspections —The inspection requirements specified herein are classified as follows:
 - (1) First article inspection (see 4.1.1), and
- (2) Conformance inspection (see 4.1.2).
- 4.1.1 *First Article Inspection*—When a first article inspection is required (see 3.1 and 6.2), the CBC shall undergo the tests and examinations outlined in Table 1. Sampling for the first article inspection shall be as specified in the contract or purchase order.
 - 4.1.2 Conformance Inspection—When a conformance inspection is required (see 6.2) specific inspections to be performed shall

TABLE 1 Sequence-O of First Article Verifications

Verification	Requirement Paragraph	Verification Paragraph	
Configurations	3.3.1	4.3.1	
Configurations Height adjustment device	3.3.2	4.3.1	
CBC service life, reliability and			
maintainability	3.3.3	4.3.3	
CBC service life, reliability, and	0.00	400	
maintainability	<u>3.3.3</u>	4.3.3	
Toxicity	3.3.4	4.4.4	
Personnel hazards	<u>3.3.4</u>	4.3.4	
Vents	3.3.4.1	4.3.4.1	
Mechanical	<u>3.3.4.1</u>	<u>4.3.4.1</u>	
Edge rounding	3.3.4.2	4.3.4.2	
Toxicity	3.3.5	4.3.5	
Roof loads	3.3.5.1	4.3.5.1	
Materials Cases of Veneral	3.3.5.1	4.3.5.1	
Gases or vapors Vents	3.3.5.2 3.3.6	4.3.5.2 4.3.6	
Interior pay load provisions	3.3.7	4.3.7	
Roof loads	3.3.7	4.3.7	
Personneldoors	3.3.8	4.3.7 4.3.8	
Interior payload provisions	3.3.8	4.3.8	
Personnel doorstructure	3.3.8.1	4.3.8.1	
Personnel doors	3.3.9	4.3.9	
Door stop	3.3.8.2	4.3.8.2	
Personnel door structure	3.3.9.1	4.3.9.1	
Surface impact re sistance	3.3.9	4.3.9	
Door stop	3.3.9.2	4.3.9.2	
Tailgate operation	3.3.10	4.3.10	
Surface impact resistance	3.3.10	4.3.10	
Black out	3.3.11	4.3.11	
Tailgate operation	3.3.11	4.3.11	
Blackout	3.3.12	4.3.12	
Support and ownership	3.4	4.4	
requirements			
Weight U U O O O O O O O O O O O O O O O O O	3.4.1	4.4.1	
Personnel door	3.4.2	4.4.2	
Door handle	3.4.2.1	4.4.2.1	
Secondary exit	3.4.2.2	4.4.2.2	
Ladder	3.4.3	4.4.3	
Roof access step/handholds	3.4.4	4.4.4	
Power and signal access ports	3.4.5 3.4.6 - 11	4.4.5 4.4.6	
Transportability AST	3.4.6.1	4.4.6.1	
Fixed wingstandards/sist/685	0ca 3.4.6.222a-4	Bb-94.4.6.2 12ddf6980b10/a	
Helicopter sling lift (HSL)	3.4.6.3	4.4.6.3	
Ground mobility	3.4.6.4	4.4.6.4	
Lifting provisions	3.4.6.5	4.4.6.5	
Finish	3.4.7	4.4.7	
Non-skid surfaces	3.4.7.1	4.4.7.1	
Interior color	3.4.7.2	4.4.7.2	
Exterior color	3.4.7.3	4.4.7.3	
Chemical agent resistance	3.4.8	4.4.8	
Special tool	3.4.9	4.4.9	
Carrier interface	3.4.11	4.4.11	
Identification	3.4.12	4.4.12	
Environmental requirements	3.5	4.5	
Humidity resistance	3.5.1	4.5.1	
Marine atmosphere	3.5.2	4.5.2	
lce	3.5.3	4.5.3	
Temperature range	3.5.4	4.5.4	
Temperature shock	3.5.5	4.5.5	
Blowing sand and dust	3.5.6	4.5.6	
Ultraviolet effects	3.5.7	4.5.7	
Fire resistance	3.5.8	4.5.8	
Fungus Watertightness	3.5.9 3.5.10	4.5.9 4.5.10	
Interface and operability	3.5.10	4.5.10	
requirements	3.6	4.6	
Interchangeability	3.6.1	4.6.1	
Size	3.6.2	4.6.2	
Interior width, length and height	3.6.2.1	4.6.2.1	
Interior width, length, and height	3.6.2.1	4.6.2.1	
Exterior width, length and height	3.6.2.2	4.6.2.2	