



Ammunition Transportability Certification

Defense Ammunition Center
Explosives Safety Engineering
JMAC-ESE, 1-C Tree Road, Bldg. 35
McAlester, OK 74501



Date: 2 July 2014

Item Nomenclature: ISO 20 Large SharkCage

Part Number: 1305011 and 13050111

Model: N/A

NSN: N/A

Manufacturer: Mobile Shelter Systems

Requestor: Mobile Shelter Systems

Superseded: N/A

Certification Number: ATC 2014-008



Figure 1: ISO 20 Large SharkCage



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Figure 2: ISO 20 Large SharkCage During Hazard Course Test

1. References:

- a. AR 385-10, 27 November 2013, subject: The Army Safety Program.
- b. AR 740-1, 15 June 2001, subject: Storage and Supply Activity Operation.
- c. JMC-R 10-23, 23 September 2011, subject: Mission and Major Functions of U.S. Army Defense Ammunition Center (DAC)/US Army Technical Center for Explosives Safety (USATCES).
- d. TP-94-01, Revision 2, June 2004, subject: Transportability Testing Procedures.
- e. Test Report No. 12-26, March 2013, subject: Transportability Testing of the Mobile Shelter Systems (MSS) ISO 20 Large SharkCage.
- f. Drawing 19-48-4349, December 2014, subject: Typical Loading Procedures for Storage and Transport Frame (STF).
- g. Drawing 19-48-4350, December 2014, subject: Loading and Bracing in End Opening ISO Container and Flatbed Trailer of Ammunition Items Packed in Storage and Transport Frames (STF).

2. Tested and Approved Comparable Articles:

- a. ISO 20 Large (Part # 1305011)
- b. ISO 20 Large (Divided Shelves) (Part # 13050111)

3. Method of Certification: Transportability Testing IAW TP-94-01. Tests included: Rail Impacts, Hazard Course, Road Trip, Washboard and Ship Motion Simulator.



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4. Analysis: The ISO 20 Large and ISO 20 Large (Divided Shelves) were certified for ammunition transportation on March 2013. The Mobile Shelter Systems ISO 20 Large SharkCage, as currently designed, is adequate for the transport of ammunition. The ISO 20 Large SharkCage successfully completed transportability testing and is approved for transport of ammunition.

5. Conditions of Certification:

- a. Approved Modes of Transportation: Highway, Rail, Tactical, Ship.
- b. Maximum Weight of Ammunition Certified: 5,000 lbs Total (1,000 lbs Shelf Capacity).
- c. Outloading Instructions: See references 1f-1g above. Additional drawings are available from DAC at <https://www3.dac.army.mil/DET>.
- d. Item Preparation: Use appropriate outloading procedures for the commodity being shipped. Drawings vary depending on transportation mode.

6. Point of Contact: Adin Feliciano, adin.feliciano.civ@mail.mil, DSN 956-8033, Commercial 918-420-8033.

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