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MIL-R-48628A (AR)
03 September 1993
SUPERSEDING
MIL-R-48628 (AR)
02 October 1987

MILITARY SPECIFICATION

RACK, STORAGE, SMALL ARMS: M14

This specification is approved for use by the U.S. Army Armament, Munitions and Chemical Command, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the requirements, examinations and tests for a Rack, Storage, Small Arms: M14, intended for storage of 9mm pistols (see 6.1).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

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| Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document, should be addressed to: Commander, U.S. Army ARDEC, ATTN: SMCAR-BAC-S, Picatinny Arsenal, New Jersey 07806-5000 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter. |
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AMSC N/A

FSC 1095

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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SPECIFICATIONS

MILITARY

- MIL-W-13855 - Weapons: Small Arms and Aircraft
Armament Subsystem, General
Specification for
- MIL-W-63150 - Weapons and Support Material, Standard
Quality Assurance Provisions for

STANDARDS

MILITARY

- MIL-STD-109 - Quality Assurance Terms and Definitions
- MIL-STD-1261 - Welding Procedures for Constructional
Steels
- MIL-STD-2073-1 - Procedures for Development and Applica-
tion of Packaging Requirements

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the DODSSP - Customer Service, Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings, and publi-
cations. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DRAWINGS (see 6.4)

US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING
CENTER (ARDEC)

- 9395764 - Rack, Storage, Small Arms: M14

SPECIAL PACKAGING INSTRUCTION

- PS 9395764 - Special Packaging Instructions for Rack,
Storage, Small Arms: M14

(Copies of other Government documents, drawings, and publications required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

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2.2 Non-Government publications. The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN WELDING SOCIETY (AWS)

AWS A2.4 - Symbols for Welding and Nondestructive Testing

(Application for copies should be addressed to the American Welding Society, 2501 N.W. 7th Street, Miami, FL 33125.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained. (See contract provisions for additional precedence criteria.)

3. REQUIREMENTS

3.1 First article. When specified in the contract or purchase order (see 6.2), a sample shall be subjected to first article inspection in accordance with the technical provisions herein (see 4.3). Unless otherwise specified, the first article shall include packing.

3.2 Materials and construction. The storage racks shall conform to the materials and construction requirements specified herein, on Drawing 9395764 and shall be in accordance with the applicable materials and construction processes of MIL-W-13855.

3.2.1 Welding. Welding shall be as specified on Drawing 9395764 and MIL-STD-1261. Welding symbols shall be interpreted as specified in AWS A2.4.

3.3 Design. The design of the storage rack shall assure conformance with the configuration requirements detailed herein and on Drawing 9395764, and shall be in accordance with the applicable design provisions of MIL-W-13855.

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3.4 Locking mechanism. The opening and closing action of the locking mechanism shall function smoothly without snagging or binding. When the mechanism is in the closed and simulated locked position, the padlock holes shall align to permit insertion of a conventional padlock.

3.5 Marking. Each rack shall be marked in accordance with Drawing 9395764 and MIL-W-13855.

3.6 Workmanship. Workmanship shall be in accordance with MIL-W-63150.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of Sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.1.2 General provisions. Unless otherwise specified herein, the provisions of MIL-W-63150 apply and form a part of this specification. Reference shall be made to MIL-STD-109 to define quality assurance terms used herein.

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4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.3).
- b. Quality conformance inspection (see 4.4).

4.3 First article inspection.

4.3.1 Submission. The contractor shall submit a first article sample as designated by the Contracting Officer for evaluation in accordance with provisions of 4.3.2. The sample shall be manufactured using the same methods and processes proposed for use in manufacturing the production racks. The first article sample shall consist of the assemblies, components and test specimens listed below in the quantities indicated.

| <u>Name</u> | <u>Drawing</u> | <u>Quantity</u> |
|---------------------|----------------|-----------------|
| Rack, Storage Small | | |
| Arms: M14 | 9395764 | 2 |

4.3.2 Inspections to be performed. As determined by the Government, the first article assemblies, components and test specimens shall be subjected to all of the examinations and tests specified in Table I, and shall be 100 percent inspected for all dimensional requirements specified on Drawing 9395764, and may be inspected for compliance with any or all requirements of the applicable drawings.

TABLE I. First article inspection.

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CLASSIFICATION OF CHARACTERISTICS

| PARAGRAPH | TITLE Rack, Storage, Small Arms: M14 | SHEET 1 OF 1 | | DRAWING NUMBER 9395764 |
|----------------|--|-------------------------|--------------------------|---|
| CLASSIFICATION | EXAMINATION OR TEST | CONFORMANCE CRITERIA | REQUIREMENT PARAGRAPH | NEXT HIGHER ASSEMBLY INSPECTION METHOD REFERENCE |
| . | Materials and construction | | 3.2 | Certification per MIL-W-63150 (para. 3.5) |
| . | Design | | 3.3 | Certification per MIL-W-63150 (para. 3.5) |
| | Missing or defective welding Improper assembly or missing parts Incorrect functioning of the locking mechanism Packaging | | 3.2.1 3.2.1.1 | Visual Visual |
| | | | 3.4 3.1 | Visual/Manual 4.4.3 |
| NOTES: | | | | |

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4.3.3 Rejection. If any assembly, component or test specimen fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure of an assembly, component or test specimen to comply with any of the requirements.

4.4 Quality conformance inspection.

4.4.1 Inspection lot formation. Inspection lots shall comply with the lot formation provisions of MIL-W-13855.

4.4.2 Examinations and tests.

a. Classification of characteristics. Quality conformance examinations and tests are specified in the following Classification of Characteristics paragraphs. The contractor's quality program or detailed inspection system shall provide assurance of compliance of all characteristics with the applicable drawing and specification requirements utilizing as a minimum the conformance criteria specified. When cited herein, attributes sampling inspection shall be conducted in accordance with Table II below, using the inspection levels stated in the Classification of Characteristics paragraphs.

TABLE II. Attributes sampling inspection.

| <u>Lot Size</u> | <u>Inspection Levels</u> | | |
|------------------|--------------------------|-----------|------------|
| | <u>I</u> | <u>II</u> | <u>III</u> |
| 2 to 8 | * | * | 5 |
| 9 to 15 | * | 8 | 5 |
| 16 to 25 | 20 | 8 | 5 |
| 26 to 50 | 20 | 8 | 5 |
| 51 to 90 | 20 | 8 | 7 |
| 91 to 150 | 20 | 12 | 11 |
| 151 to 280 | 20 | 19 | 13 |
| 281 to 500 | 47 | 21 | 16 |
| 501 to 1,200 | 47 | 27 | 19 |
| 1,201 to 3,200 | 53 | 35 | 23 |
| 3,201 to 10,000 | 68 | 38 | 29 |
| 10,001 to 35,000 | 77 | 46 | 35 |

Numbers under inspection levels indicate sample size; asterisks (*) indicate one hundred percent inspection. If sample size exceeds lot size, perform one hundred percent inspection. Accept on zero and reject on one or more for all inspection levels.

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b. Alternative quality conformance provisions. Unless otherwise specified herein or provided for in the contract, alternative quality conformance procedures, methods or equipment, such as statistical process control, tool control, other types of sampling plans, etc., may be used by the contractor when they provide, as a minimum, the level of quality assurance required by the provisions herein. Prior to applying such alternative procedures, methods or equipment, the contractor shall describe them in a written proposal submitted to the Government for evaluation (see 6.5). When required, the contractor shall demonstrate that the effectiveness of each proposed alternative is equal to or better than the specified quality conformance provisions(s) herein. In case of dispute as to whether the contractor's proposed alternative(s) provides equivalent assurance, the provisions of this specification shall apply. All approved alternative provisions shall be specifically incorporated into the contractor's quality program or inspection system, as applicable.

QUALITY CONFORMANCE INSPECTION
CLASSIFICATION OF CHARACTERISTICS

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| PARAGRAPH | TITLE | EXAMINATION OR TEST | CONFORMANCE CRITERIA | REQUIREMENT PARAGRAPH | DRAWING NUMBER |
|----------------|--|---------------------|----------------------|-----------------------|---|
| 4.4.2.1 | Rack, Storage, Small Arms: M14 | | | SHEET 1 OF 2 | 9395764 |
| CLASSIFICATION | | | | | NEXT HIGHER ASSEMBLY |
| CRITICAL: | None defined | | | | INSPECTION METHOD REFERENCE |
| MAJOR: | | | | | |
| 101. | Materials and construction | | | 3.2 | Certification per MIL-W-63150 (para. 3.5) |
| 102. | Design | | | 3.3 | Certification per MIL-W-63150 (para. 3.5) |
| 103. | .08 True position (16 places) (Sht 1) | | LEVEL I | 3.3 | SMTE |
| 104. | 5.37 Height (2 places) (Sht 2) | | LEVEL I | 3.3 | SMTE |
| 105. | 5.09 Location (5 places) (Sht 2) | | LEVEL I | 3.3 | SMTE |
| 106. | 4.875 Location of .438 hole (Sht 4) | | LEVEL I | 3.3 | SMTE |
| 107. | 9.32 Location (16 places) (Sht 4) | | LEVEL I | 3.3 | SMTE |
| 108. | 75 Degree angle (16 places) (Sht 4) | | LEVEL I | 3.3 | SMTE |
| 109. | .312 Height (16 places) (Sht 4) | | LEVEL I | 3.3 | SMTE |
| 110. | 3.562 Height (Sht 5) | | LEVEL I | 3.3 | SMTE |
| 111. | 1.87 Location (14 places) (Sht 5) | | LEVEL I | 3.3 | SMTE |
| 112. | 1.38 Width (16 places) (Sht 5)* | | LEVEL I | 3.3 | SMTE |
| 113. | Missing or defective welding | | LEVEL I | 3.3 | SMTE |
| 114. | Improper assembly or missing parts | | LEVEL I | 3.2.1 | Visual |
| 115. | Incorrect functioning of the locking mechanism | | LEVEL I | 3.3 | Visual |
| | * Minus Plastisol thickness | | LEVEL I | 3.4 | Visual/Manual |
| NOTES: | | | | | |

QUALITY CONFORMANCE INSPECTION (continued)

CLASSIFICATION OF CHARACTERISTICS

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| PARAGRAPH | TITLE | SHEET 2 OF 2 | DRAWING NUMBER | NEXT HIGHER ASSEMBLY |
|----------------|--|----------------------|-----------------------|-----------------------------|
| CLASSIFICATION | EXAMINATION OR TEST | CONFORMANCE CRITERIA | REQUIREMENT PARAGRAPH | INSPECTION METHOD REFERENCE |
| 4.4.2.1 | Rack, Storage, Small Arms: M14 | | 9395764 | |
| MINOR: | | | | |
| 201. | Diameter of .375 holes (8 holes) | LEVEL II | 3.3 | SMTE |
| 202. | True position of .375 holes (8 holes) | LEVEL II | 3.3 | SMTE |
| 203. | Diameter of .438 padlock holes (3 holes) | LEVEL II | 3.3 | SMTE |
| 204. | Missing or defective plasticol coating | LEVEL II | 3.3 | Visual |
| 205. | Incorrect or missing marking | LEVEL II | 3.6 | Visual |
| 206. | Workmanship | LEVEL III | 3.7 | Visual |
| | | | | |
| NOTES: | | | | |

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4.4.3 Packaging, packing and marking. Inspection of packaging, packing and marking shall be in accordance with MIL-STD-2073-1.

4.4.4 Inspection equipment. The inspection equipment required to perform the inspections specified herein is identified in the "Inspection Method Reference" column of the Classification of Characteristics listings starting with 4.4.2.1. Contractor inspection equipment designs shall be submitted for Government approval as specified in the contract. Designs which provide variable measurements instead of attributes data are preferred in order to facilitate the use of statistical process control. See MIL-W-63150 and 6.3 herein.

5. PACKAGING

5.1 Preservation and packing. Preservation and packing shall be in accordance with Special Packaging Instruction PS 9395764.

5.2 Marking. Marking shall be in accordance with the Special Packaging Instruction cited in 5.1.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The storage rack covered by this specification is intended to store the M9, 9mm Pistol.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number and date of this specification.
- b. Issue of DODISS to be cited in the solicitation, and, if required, the specific issue of individual documents referenced (see 2.1.1).
- c. Requirements for submission of first article sample.

6.3 Submission of contractor inspection equipment designs for approval. Submit copies of designs as required to: Commander, U.S. Army ARDEC, ATTN: SMCAR-QAF-I, Picatinny Arsenal, NJ 07806-5000. This address will be specified on the Contract Data Requirements List, DD Form 1423 in the contract.

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6.4 Drawings. Drawings listed in Section 2 of this specification under the heading U.S. Army Armament, Research, Development and Engineering Center (ARDEC) may also include drawings prepared by, and identified as U.S. Army Armament, Research and Development Command (ARRADCOM), Frankford Arsenal, Rock Island Arsenal or Picatinny Arsenal drawings. Technical data originally prepared by these activities is now under cognizance of ARDEC.

6.5 Submission of alternative quality conformance provisions. All contractor proposed alternative quality conformance provisions will be submitted to the Government for evaluation/approval as directed by the contracting activity.

6.6 Subject term (key word) listing.

Pistol
9mm

6.7 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 1095-A267)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

| | | | |
|---|--|--|-------------------------------|
| I RECOMMEND A CHANGE: | | 1. DOCUMENT NUMBER | 2. DOCUMENT DATE (YYMMDD) |
| 3. DOCUMENT TITLE | | | |
| 4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets if needed.) | | | |
| 5. REASON FOR RECOMMENDATION | | | |
| 6. SUBMITTER | | | |
| a. NAME (Last, First, Middle Initial) | | b. ORGANIZATION | |
| c. ADDRESS (Include Zip Code) | | d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (If applicable) | 7. DATE SUBMITTED (YYMMDD) |
| 8. PREPARING ACTIVITY | | | |
| a. NAME | | b. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON | |
| c. ADDRESS (Include Zip Code) | | IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340 | |