

MIL-C-43516A

2 June 1977

~~SUPERSEDING~~

MIL-C-43516

14 July 1967

MILITARY SPECIFICATION

CROSS-CRUCIFIX, METAL

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers one type metal cross-crucifix for use in Military chapels (see 6.1 and 6.4).

2. APPLICABLE DOCUMENTS

2.1 Issues of documents. The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

SPECIFICATIONS

FEDERAL

- | | |
|-----------|--|
| QQ-C-320 | - Chromium Plating (Electrodeposited) |
| QQ-S-365 | - Silver Plating, Electrodeposited: General Requirements For |
| PPP-B-636 | - Boxes, Shipping, Fiberboard |

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: US Army Natick Research and Development Command, ATTN: DRXNM-TDT, Natick, MA 01760 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 9925

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STANDARDS

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection By Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.

DRAWING

US ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND

- 14-1-63 - Cross-Crucifix, Assembly and Details.

(Copies of specifications, standards and drawings required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer).

2.2 Other publications. The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply:

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC., AGENT

National Motor Freight Classification

(Application for copies should be addressed to the American Trucking Associations, Inc., Traffic Department, 1616 P Street, N.W., Washington, DC 20036.)

UNIFORM CLASSIFICATION COMMITTEE, AGENT

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

3. REQUIREMENTS

3.1 First article. When specified (see 6.2), the contractor shall furnish a sample for first article inspection and approval (see 4.3 and 6.3).

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3.2 Materials. Materials specified shall conform to requirements specified herein. Materials not definitely specified shall be of the quality normally used for the purpose in commercial practice.

3.3 Construction. The cross portion shall be fabricated of brass. The corpus and scroll shall be fabricated of white metal. The cross-crucifix shall conform to Drawing 14-1-63 and drawings referenced thereon.

3.4 Finish. All exterior brass components shall be chromium plated in accordance with class 1, type I of QQ-C-320. The corpus and scroll shall be silver plated in accordance with type II, grade B of QQ-S-365, and shall be given a clear organic coating.

3.5 Workmanship. Components shall be free from sharp edges, burrs, slivers, fractures, tool marks, splits, punctures, dents, creases, or malformations. Plating and other finishes shall be free from areas of poor or no coverage. Organic coated surfaces shall be dry and free from blister, runs, peels, flakes, cracks, wrinkles, finger marks, scratches, or imbedded foreign matter.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, 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 the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

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

1. First article inspection (see 4.3).
2. Quality conformance inspection (see 4.4).

4.3 First article inspection. When a first article is required, it shall be examined for the defects in table I and specified dimensions.

4.4 Quality conformance inspection. Sampling for inspection shall be in accordance with the provisions set forth in MIL-STD-105, except where otherwise indicated hereinafter.

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4.4.1 Component and material inspection. In accordance with 4.1 above, components and materials shall be inspected in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified or qualified in this specification, or applicable purchase document.

4.4.2 End item inspection. A lot shall consist of all cross-crucifixes offered for inspection at one time. The sample unit for this inspection shall be one completely fabricated cross-crucifix.

4.4.2.1 Visual examination. Examination shall be made of the end item for defects in table I. The inspection level shall be level II with an AQL of 6.5, expressed in terms of defects per hundred units.

TABLE I. Defects

<u>Examine</u>	<u>Defect</u>
Finish	Not finish required.
Construction and workmanship	Sharp edge, burr or sliver. Tool mark, fracture, split, puncture, dent, or malformation, inclusion, discolored, pit.
Organic coating	Wet or tacky, blister, run, peel, crack, wrinkle, finger mark, scratch or imbedded foreign matter.

4.4.2.2 Dimensional examination. Inspection shall be made of the end item for compliance with dimensions specified. Any deviation from specified requirements shall constitute a defect. The inspection level shall be S-4 with an AQL of 4.0, expressed in terms of defects per hundred units.

4.4.3 Packaging inspection. An examination shall be made to determine that preservation-packaging, packing, and marking are in accordance with section 5. The sample unit shall be one shipping container fully prepared for delivery except it need not be closed. Examination of closure defects listed below shall be made on shipping containers fully packaged. The lot shall be the number of containers offered for inspection at one time. The inspection level shall be S-2 with an AQL of 4.0, expressed in terms of defects per hundred units. Defects shall be scored as specified in table II.

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TABLE II. Packaging inspection

<u>Examine</u>	<u>Defect</u>
Marking	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application.
Material	Component missing or damaged.
Workmanship	Inadequate application of components such as incomplete closure of container flaps; strapping or sealing, improper or missing; closures improperly affixed; inadequate stapling; bulging or distortion of containers.

5. PACKAGING

5.1 Preservation-packaging. Preservation-packaging shall be level A or commercial, as specified (see 6.2).

5.1.1 Level A. Each cross-crucifix shall be packaged in a minimum 0.001-inch thick polyethylene bag.

5.1.2 Commercial. The cross-crucifix shall be preserved-packaged to afford adequate protection against physical damage during shipment from the supply source to the first receiving activity. The package and the quantity per package shall be the same as that normally used by the contractor for retail distribution.

5.2 Packing. Packing shall be level A, B, or commercial, as specified (see 6.2).

5.2.1 Level A packing. Each cross-crucifix, preserved-packaged as specified in 5.1, shall be packed in a fiberboard shipping container conforming to style RSC, (end-opening), V2s of PPP-B-636. Fiberboard inserts or cushioning material shall be used to immobilize the contents within the container. Each shipping container shall be closed in accordance with method III, waterproofed in accordance with method V and reinforced as specified in the appendix of the container specification, except that the inspection shall be in accordance with 4.4.3.

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5.2.2 Level B packing. Each cross-crucifix, packaged as specified in 5.1, shall be packed in a fiberboard shipping container conforming to style RSC (end-opening), type CF (variety SW), or type SF, class domestic, grade 275 of PPP-B-636. Fiberboard inserts or cushioning material shall be used to immobilize the contents within the container. Closure shall be in accordance with method II of the appendix of PPP-B-636, except that the inspection shall be in accordance with 4.4.3. When specified (see 6.2), the shipping container shall be a V3c, V3s or V4s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with method III as specified in the appendix thereto, except that the inspection shall be in accordance with 4.4.3.

5.2.3 Commercial packing. Cross-crucifixes, preserved-packaged as specified in 5.1, shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. The quantity per shipping container shall be the same as that normally used by the contractor for retail distribution. Containers shall be in accordance with Uniform Freight Classification or National Motor Freight Classification, as applicable.

5.3 Marking. In addition to any special marking required by the contract or order, shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. The cross-crucifix covered by this specification is intended for use on altars in Military chapels.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number and date of this specification.
- (b) When a first article is required (see 3.1 and 6.3).
- (c) Selection of applicable levels of preservation-packaging and packing (see 5.1 and 5.2).
- (d) When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2).

6.3 First article. When a first article is required, it shall be inspected and approved under the appropriate provisions of ASPR 7-104.55. The first article should be the first production item. The first article should consist of one unit. The contracting officer should include specific instructions in all procurement instruments regarding arrangements for inspection and approval of the first article.

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6.4 Cross reference of classifications. The size 1, finish 1 and size 2 cross-crucifixes covered by MIL-C-43516 are no longer required, and are replaced by the cross-crucifix covered by the specification (formally size 1, finish 2).

6.5 Changes from the previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes.

Custodians:

Army - GL
Navy - PE
Air Force - 28

Preparing activity:

Army - GL
Project No. 9925-0142

Review activities:

DSA - GS
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