MIL-A-52401B(ME)
25 March 1981
SUPERSEDING
MIL-A-52401A(ME)
25 June 1974

MILITARY SPECIFICATION

ADAPTER, ARCTIC, DRIVE-TYPE PICKET

This specification is approved for use by the Mobility Equipment Research and Development Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers an adapter with anchor pins for drive-type steel fence posts used in arctic terrain.

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

PPP-B-601	- Boxes, Wood, Cleated-Plywood.
PPP-B-621	- Boxes, Wood, Nailed and Lock-Corner.

FSC 5660

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: US Army Mobility Equipment Research and Development Command, ATTN: DRDME-DS, Fort Belvoir, VA 22060 by using the self addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

STANDARDS

MILITARY

MIL-STD-105	- Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129	- Marking for Shipment and Storage.
MIL-STD-1188	- Commercial Packaging of Supplies and Equipment.

DRAWING

ME

TA13213E5521	- Adapter, Arctic, Drive-Type Picket.

(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.)

3. REQUIREMENTS

3.1 Description. The adapter shall be in accordance with Top Assembly TA13213E5521 and as specified herein.

3.1.1 Drawings. The drawings forming a part of this specification are end product drawings. No deviation from the prescribed dimensions or tolerances is permissible without prior approval of the contracting officer. Where tolerances could cumulatively result in incorrect fits, the contractor shall provide tolerances within those prescribed on the drawings to insure correct fit and assembly. Any data (e.g. shop drawings, layouts, flow sheets, processing procedures, etc.) prepared by the contractor or obtained from a vendor to support fabrication and manufacture of the production item shall be made available, upon request, for inspection by the contracting officer or his designated representative.

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

3.3 Material. Material shall be as specified herein and as shown on the applicable drawings (see 6.4).

3.4 Workmanship.

3.4.1 Metal fabrication. Metal used in fabrication shall be free from kinks and sharp bends. The straightening of material shall be done by methods that will not cause damage to the material. Flame-cutting, using tips suitable for the thickness of the steel, may be employed instead of shearing and sawing. All bends shall be made with controlled means to insure uniformity of size and shape. Precaution shall be taken to avoid overheating. Heated steel shall be allowed to cool slowly. External surfaces shall be free of burrs, sharp edges and corners, except when sharp edges or corners are required or where they are not detrimental to safety.

3.4.2 Welding. The surfaces of parts to be welded shall be free from rust, scale, paint, grease, mill scale that can be removed by chipping and wire brushing, and other foreign matter. Welds shall transmit stress without failure when the parts connected by the welds are subjected to loadings. Parts to be joined by welds shall be brought into as close contact as possible and in no event shall be separated by more than 0.1875 inch unless appropriate bridging techniques are used. All welded parts shall be free from cracks and other imperfections that may reduce the effectiveness of the part. The welding process used in fabrication of the adapter shall be at the option of the contractor.

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.

4.1.1 Component and material inspection. The contractor is responsible for insuring that components and materials used are manufactured, examined, and tested in accordance with referenced specifications and standards, as applicable.

4.1.2 Disassembly inspection. Failure of any examination by the first article shall be cause for disassembly, in the presence of a Government representative, of the first article to the extent necessary to determine the cause of the failure. Each disassembled part shall be examined in detail for compliance with this specification and referenced drawings in regard to materials, dimensions, tolerances, and workmanship. Parts not complying with such requirements shall be rejected and shall be cause for rejection of the first article. Reassembly with replacement parts and retesting shall be the responsibility of the contractor.

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).
(c) Inspection of packaging (see 4.6).

4.3 First article inspection.

4.3.1 Examination. The adapter shall be examined as specified in 4.5.1. Presence of one or more defects shall be cause for rejection or shall be cause for performing the inspection specified in 4.1.2.

4.4 Quality conformance inspection.

4.4.1 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.4.2 Examination. Samples selected in accordance with 4.4.1 shall be examined as specified in 4.5.1. AQL shall be 2.5 percent defective.

4.5 Inspection procedure.

4.5.1 Examination. The adapter shall be examined as specified herein, for the following defects:

101. Dimensions not as specified.
102. Material not as specified.
103. Evidence of kinks or sharp bends in metal.
104. Holes omitted or incorrectly located.
105. Treatment or painting not as specified.
106. Welding not as specified.

4.6 Inspection of packaging.

4.6.1 Quality conformance inspection of pack.

4.6.1.1 Unit of product. For the purpose of inspection, a completed pack prepared for shipment shall be considered a unit of product.

4.6.1.2 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.6.1.3 Examination. Samples selected in accordance with 4.6.1.2 shall be examined for the following defects. AQL shall be 2.5 percent defective.

107. Containers not as specified for Levels A and B.
108. Inadequate blocking, bracing, and anchoring for Levels A and B.
109. Strapping not zinc coated for Level A.
110. Marking illegible, incomplete, incorrect, or missing.

5. PACKAGING

5.1 Packing. Packing shall be Level A, B, or Commercial, as specified (see 6.2).

5.1.1 Level A. The adapters with the required number of pins shall be packed in close-fitting boxes conforming to PPP-B-621, Class 2, Style 2, 2-1/2, or 3, for Type 3 load; or in boxes conforming to PPP-B-601, Overseas Type, Style A or B, for Type 3 load. Blocking, bracing, and anchoring shall be provided to prevent movement of the contents. The boxes shall be closed and strapped in accordance with the appendix to the applicable box specification.

5.1.2 Level B. The adapters and pins shall be packed as specified in 5.1.1 for Level A, except boxes shall be domestic type and Class. Strapping is not required to be zinc coated.

5.1.3 Commercial. Commercial packing shall be in accordance with MIL-STD-1188.

5.2 Marking. Shipping containers shall be marked in accordance with MIL-STD-129 for military levels of protection. Commercial marking shall be in accordance with MIL-STD-1188.

6. NOTES

6.1 Intended use. The adapter is intended for use in securing drive-type steel fence posts in frozen ground.

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 for inspection and approval (see 3.2).
(c) Degree of packing required (see 5.1).

6.3 First article. When a first article is required, it shall be tested and approved under the appropriate provisions of 7-104.55 of the Defense Acquisition Regulation. The first article should be a first production item. The first article should consist of one or more adapters. The contracting officer should include specific instructions in all procurement instruments, regarding arrangements for examinations, and approval of the first article.

6.4 Recycled material. It is encouraged that recycled material be used, when practical, as long as it meets the requirements of this specification (see 3.3).

Custodian:
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Preparing activity:
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Project 5660-A062

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DOCUMENT IDENTIFIER *(Number)* AND TITLE

MIL-A-52401B(ME) Adapter, Arctic, Drive-Type Picket

NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

☐ VENDOR ☐ USER ☐ MANUFACTURER

1. ☐ HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? ☐ IS ANY PART OF IT TOO RIGID, RESTRICTIVE, LOOSE OR AMBIGUOUS? PLEASE EXPLAIN BELOW.

A. GIVE PARAGRAPH NUMBER AND WORDING

B. RECOMMENDED WORDING CHANGE

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2. REMARKS

SUBMITTED BY *(Printed or typed name and address — Optional)*

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