

**MIL-R-2784A****20 SEPTEMBER 1957****SUPERSEDING****MIL-R-2784****23 AUGUST 1951****MILITARY SPECIFICATION****RULES, SOUNDING, JOINTED**

*This specification has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force.*

**1. SCOPE**

1.1 This specification covers jointed sounding rules.

PPP-B-621 — Boxes, Wood, Nailed and Lock-Corner.

PPP-B-636 — Boxes, Fiber.

PPP-B-676 — Boxes, Set-Up, Paperboard.

**2. APPLICABLE DOCUMENTS**

2.1 The following specifications and standards, of the issue in effect on date of invitation for bids, form a part of this specification.

**MILITARY**

MIL-P-116 — Preservation: Methods of.

MIL-N-994 — Naval Brass, Bars, Plates, Rods, Sheets, Strips, Wire, Forgings, and Structural and Special Shaped Sections.

MIL-C-3955 — Cans, Fiber, Spirally Wound.

MIL-B-4229 — Boxes: Paperboard, Metal-Stayed.

MIL-B-10377 — Boxes: Wood-Cleated, Veneer, Paper Overlaid.

**SPECIFICATIONS****FEDERAL**

PPP-B-566 — Boxes, Folding, Paperboard.

PPP-B-585 — Boxes, Wood Wire-bound.

PPP-B-591 — Boxes, Fiberboard, Wood-Cleated (for Domestic Shipment).

PPP-B-601 — Boxes, Wood, Cleated-Plywood.

**FSC 6680**

**MIL-R-2784A**

MIL-L-10547 — Liners, Case, Waterproof.

**STANDARDS****MILITARY**

MIL-STD-105 — Sampling Procedures and Tables for Inspection by Attributes.

MIL-STD-129 — Marking for Shipment and Storage.

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

**2.2 Other publications.** The following document forms a part of this specification. Unless otherwise indicated, the issue in effect on date of invitation for bids shall apply.

**CONSOLIDATED CLASSIFICATION COMMITTEE**

Consolidated Freight Classification Rules.

(Application for copies should be addressed to the Consolidated Classification Committee, 202 Chicago Union Station, Chicago 6, Ill.)

**3. REQUIREMENTS**

**3.1 Material.** The rules shall be made of naval brass conforming to Specification MIL-N-994.

**3.2 Design.** The rules shall be as shown on figure 1.

**3.3 Graduations with figures, in inches and feet,** shall be plainly and permanently stamped on one side of the rule. The rule shall be graduated from the bottom. Numerals shall be 3/16 inch high.

**3.4 Workmanship** shall be first class in every respect.

**4. QUALITY ASSURANCE PROVISIONS****4.1 Sampling for lot acceptance.**

**4.1.1 Inspection lot.** A lot shall consist of all sounding rules offered for delivery at one time.

**4.1.2 Sampling for examination.** A random sample of rules shall be selected from each inspection lot of material offered for inspection with lot acceptance based on the following sampling inspection requirements in accordance with Standard MIL-STD-105.

TABLE I. *Sampling for examination*  
*AQL (approx.) = 1.5 percent defective*

Number of rules in lot	Number of rules in sample
40 and under	Inspection level III
41 to 300	Inspection level II
301 and over	Inspection level I

The Government inspector may institute tightened or reduced inspection in accordance with Standard MIL-STD-105.

**4.2 Examination.** The sample rules selected in accordance with 4.1.2 shall be examined by the inspector to verify conformance with the requirements of this specification. Failure to conform to the specification requirements shall be counted as a defect and the rule shall be rejected. If the number of such nonconforming rules in any sample exceeds the acceptance number for that sample, the lot represented by the sample shall be rejected. Rejected lots may be offered again for inspection provided the contractor has removed or reworked all nonconforming products.

**4.3 Material.** The composition of the material shall be verified in accordance with the quality assurance provisions of Specification MIL-N-994.

**5. PREPARATION FOR DELIVERY****5.1 Preservation and packaging.**

**5.1.1 Level A.** Rules shall be individually packaged in accordance with method III of

**MIL-R-2784A**

Specification MIL-P-116. Unit containers shall conform to Specification PPP-B-566, PPP-B-676, MIL-B-4229, PPP-B-636 or MIL-C-3955.

5.1.2 *Level C.* Rules shall be preserved and packaged in accordance with the manufacturer's commercial practice.

## 5.2 Packing.

5.2.1 *Level A.* Rules, packaged in accordance with level A or C as specified (see 6.1), shall be packed in overseas type wood cleated fiberboard, nailed wood, wirebound wood, corrugated or solid fiberboard, wood cleated paper overlaid, or wood cleated plywood boxes conforming to Specifications PPP-B-591, PPP-B-621, PPP-B-585, (class 2 or 3), PPP-B-636 (class 3), MIL-B-10377 or PPP-B-601, respectively. Shipping containers shall have case liners conforming to Specification MIL-L-10547 and shall be closed and sealed in accordance with the appendix thereto. Case liners for boxes conforming to Specification PPP-B-636 may be omitted provided all joints of the boxes are sealed with tape as specified in the appendix of the box specification. Box closures shall be as specified in the applicable box specification or appendix thereto. The gross weight of wood boxes shall not exceed 200 pounds; that of fiberboard boxes shall not exceed the weight limitations of the applicable box specification.

5.2.2 *Level B.* Rules, packaged in accordance with level A or C as specified (see 6.1), shall be packed in domestic type wood cleated fiberboard, nailed wood, wirebound wood, corrugated or solid fiberboard, wood cleated plywood, or wood cleated paper overlaid boxes conforming to Specifications PPP-B-591, PPP-B-621, PPP-B-585, PPP-B-636, PPP-B-601 and MIL-B-10377, respectively. Closures shall be as specified in the applicable box specification, or appendix thereto. Fiberboard boxes shall conform to the special requirements of the applicable box

specification. The gross weight of wood boxes shall not exceed 200 pounds, that of fiberboard boxes shall not exceed the weight limitations of the applicable box specification.

5.2.3 *Level C.* Rules, packaged in accordance with level A or C as specified (see 6.1), shall be packed in a manner to insure safe delivery and acceptance at destination. Containers or method of shipment shall comply with the Consolidated Freight Classification Rules or other carrier regulations applicable to the mode of transportation.

5.3 *Marking.* In addition to any special marking specified in the contract or order, or herein, each unit and intermediate packing and shipping container shall be marked in accordance with Standard MIL-STD-129.

## 6. NOTES

6.1 *Ordering data.* Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Depth of the tank and length and diameter of sounding tube for which each sounding rule is required.
- (c) Selection of applicable level of preservation and packaging and packing (see 5.1 and 5.2).

**Notice.** When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

## **MIL-R-2784A**

### **Custodians:**

**Army—Quartermaster Corps**

**Navy—Bureau of Ships**

### **Other interest:**

**Army—T**

### **Preparing activity:**

**Navy—Bureau of Ships**

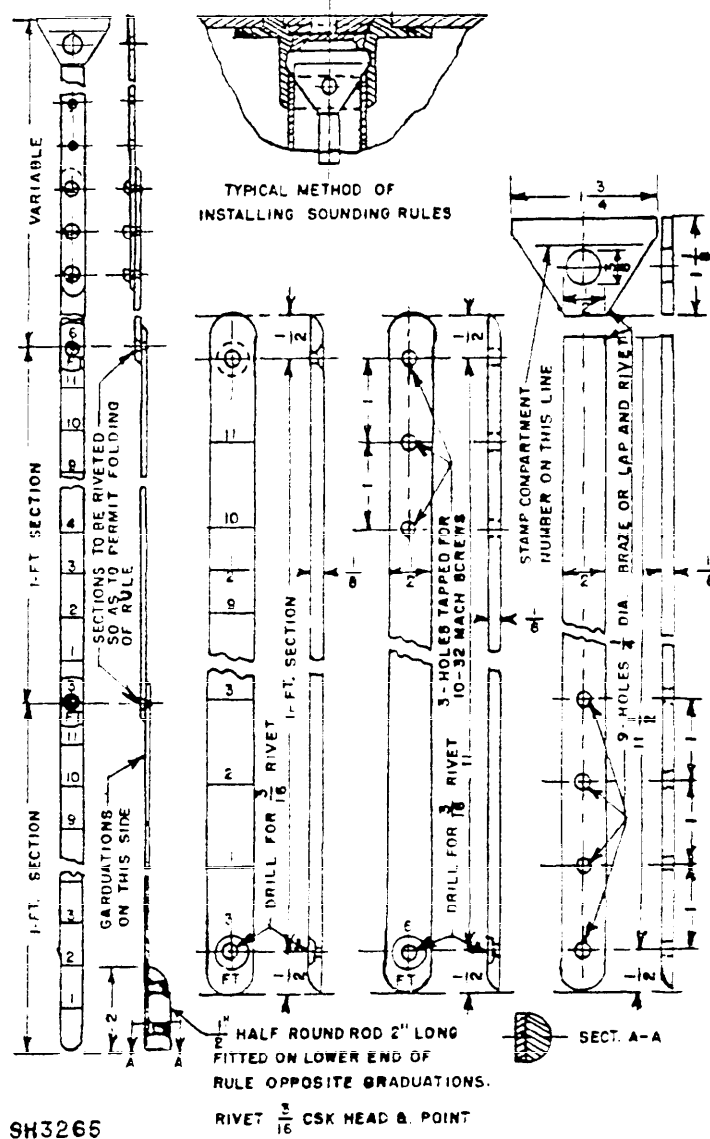


FIGURE 1. Sounding rules—jointed.