

[INCH-POUND]

A-A-2202

June 7, 1990

## COMMERCIAL ITEM DESCRIPTION

### STAKES, WOOD

The General Services Administration has authorized the use of this commercial item description as a replacement for Federal Specification NN-S-730 which is canceled.

#### 1. SCOPE AND CLASSIFICATION

1.1 Scope. This commercial item description covers hub and location stakes.

1.2 Classification. The wooden stakes shall be of the following types and sizes.

Type I - Location marker.

Size - 14, 16, and 18 inches in length, as specified (see 6.2).

Type II - Hub, square cross-section.

Size - 12 and 16 inches in length, as specified (see 6.2).

#### 2. APPLICABLE DOCUMENTS

2.1 The documents referenced in this commercial item description shall be the issues in effect on the date of the invitation for bids or request for proposal unless otherwise specified. These documents form a part of this commercial item description to the extent specified. In the event that there is a conflict between this commercial item description and a document referenced herein, this commercial item description shall take precedence.

##### Federal Standard:

FED-STD-376 - Preferred Metric Units For General Use By The Federal Government.

Copies of Commercial Item Descriptions and Federal standards are available from the General Services Administration Business Service Centers in Boston, MA; New York, NY; Philadelphia, PA; Washington, D.C.; Atlanta, GA; Chicago, IL; Kansas City, MO; Fort Worth, TX; Denver, CO; San Francisco, CA; Los Angeles, CA; and Seattle, WA.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Industrial Engineering Group (7FXE1), 819 Taylor St., Fort Worth, TX 76102
--

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

FSC 5510

A-A-2202

Military Standard:

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

Copies of military standards may be obtained from Military Specifications and Standards, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

ASTM Standard:

E 29 - Standard Practice For Using Significant Digits To Determine Conformance with Specifications.

Application for copies of ASTM standards should be addressed to ASTM, 1916 Race Street, Philadelphia, Pennsylvania 19103.

3. SALIENT CHARACTERISTICS.

3.1 Material. Unless otherwise specified (see 6.2), the wood species shall be at the option of the manufacturer.

3.2 Dimensions.

3.2.1 Nominal Thickness and width. Type I location stakes shall be 1 inch in thickness and 2 inches in width. Type II hub stakes shall be 2 inches in thickness and 2 inches in width.

3.2.2 Dressed sizes. Stakes shall be dressed sizes in accordance with table I.

TABLE I.		
Type	Nominal size	Dressed size
I	1 X 2 inch	3/4 X 1-1/2 inch
II	2 X 2 inch	1-1/2 X 1-1/2 inch

3.3 Wood characteristics.

3.3.1 Wane. Shall not exceed 1/4 inch on edges or corners.

3.3.2 Knots. Stakes shall be free from loose knots and knots over 3/8 inch in diameter on the 1 inch side of the stake, and knots over 3/4 inch on the 2 inch side.

3.3.3 Cross grain. Slope of grain shall not exceed 1 inch in 4 inches.

3.3.4 Decay. Stakes shall be free from decay except decay confined to knots.

A-A-2202

**3.3.5 Pitch pockets and splits.** Pitch pockets shall not be greater than 1/4 inch in length or width. Splits will be acceptable at a maximum length not to exceed the width of the face in which the split is located. The pitch pockets and splits shall not affect the function and serviceability of the stake.

**3.4 Surfaces.** Both types of stakes shall be smooth sawn or planed on not less than two sides (S2S). Skip dressing shall be limited to 1/32 inch in depth on face and 1/16 inch on one edge only. Type I stakes shall be surfaced on the two wide faces, and type II stakes shall be surfaced on two opposite faces (S2S).

**3.5 Pointed end.** Type I location marker stakes shall be pointed on two sides. Type II hub stakes shall be pointed on four sides or shall have a conical end. The pointed ends of the stakes shall have straight or curved sides. The shape of the pointed end shall be at the manufacturer's option. Pointed ends shall be free from burrs, splinters, and tears. The length of points measured along the stake center line shall be no less than 2-7/8 inches. The difference in length between the two sides shall be 1/4 inch or less. Points shall be within 1/16 inch either side of center. Slightly blunt points up to 3/16 inch flat shall be acceptable.

**3.6 Dimensional tolerances.** Shall be in accordance with Table II.

Dimension	Table II	
	Tolerance	
	Plus	Minus
Length of stake	3/4 inch	3/4 inch
Length of points	1 inch	0 inch
Dressed thickness		
3/4 inch	1/16 inch	1/16 inch
1-1/2 inch	1/8 inch	1/8 inch

**3.7 Workmanship.** The wood stakes shall meet the quality level established by this Commercial Item Description and have no defects which will prevent the stakes from performing their intended purpose.

**3.8 Metric products.** Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch/pound units, provided they fall within the tolerances specified using conversion tables contained in the latest revision of Federal Standard No. 376, and all other requirements of this commercial item description are met.

A-A-2282

4.5 Visual and dimensional examination. The sample stakes shall be visually and dimensionally examined in accordance with Table III to verify compliance with this description. Tolerance limits specified are absolute limits as defined in ASTM E 29.

Table III. Classification of defects

Defects	Major	Minor
Type and size not as specified	X	
Wane greater than 1/4 inch in length or width	X	
Knots over 3/8 inch in diameter on the 1 inch side	X	
Knots over 3/4 inch in diameter on the 2 inch side	X	
Cross grain exceeds 1 inch in 4 inches	X	
Splits in stake (see 3.3.5)	X	
Pitch pockets greater than 1/4 inch	X	
Skip dressing greater than 1/32 inch in depth on face and greater than 1/16 inch on a side		X
Stakes surfaced on one side only		X
Dimensions not within tolerances	X	
Damage or defects affecting function or serviceability	X	
Damage or defects not affecting function or serviceability		X

4.6 Examination for preparation for delivery. A random sample of bundles shall be selected from each lot and examined for conformance with the preservation, packaging, packing, labeling and marking required in the contract or order. Samples shall be selected in accordance with inspection level S-2, AQL 6.5, expressed in terms of defects per hundred units.

## 5. PREPARATION FOR DELIVERY

5.1 Preservation, packaging, packing, labeling, and marking. The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

## 6. NOTES

### 6.1 Intended use.

6.1.1 Type I. Location stakes are intended for use in laying out foundations for buildings and other structures, and trail marking.

6.1.2 Type II. Hub stakes are intended for use in surveying applications such as land and building foundations.

A-A-2202

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents (if applicable).

- a. Title, number and date of this commercial item description.
- b. Type and size (see 1.2).
- c. Species of wood (see 3.1).
- d. The preservation, packaging, packing, labeling, and marking desired.

6.3 Part Numbering. Wood stakes conforming with this commercial item description shall be identified by a part number configuration consisting of identification of a portion of the specification number, type, and size. An example of the part number configuration is shown below. This part numbering system is intended for identification and cross-indexing of the item within the Federal cataloging system. Part numbers are not required to be placed on the product or container.

AA22021B

Size	A - 12 inches
B	- 14 inches
C	- 16 inches
D	- 18 inches
Type	1 - Type I
2	- Type II
General specification number.	

#### 6.4 Referencing NSN'S.

5510-00-171-7701	Type I	- Size 14 inches	P/NAA2202-1B
5510-00-171-7700	Type I	- Size 16 inches	P/NAA2202-1C
5510-00-171-7734	Type I	- Size 18 inches	P/NAA2202-1D
5510-00-171-7733	Type II	- Size 12 inches	P/NAA2202-2A
5510-00-171-7732	Type II	- Size 16 inches	P/NAA2202-2C

#### MILITARY INTERESTS:

NONE: DoD has determined that no military activity has an official interest in this Commercial Item Description.

#### CIVIL AGENCY COORDINATING ACTIVITY:

USDA - AFS

#### PREPARING ACTIVITY:

GSA - FSS