Designation: F906 - 85 (Reapproved 2020)

An American National Standard

# Standard Specification for Letters and Numerals for Ships<sup>1</sup>

This standard is issued under the fixed designation F906; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\varepsilon$ ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

### 1. Scope

- 1.1 This specification specifies shape, size, spacing, and shading of letters and numerals to be used aboard ship.
  - 1.2 Characters are of Five Types:
  - 1.2.1 Type 1—Plain letters and numerals (16 units).
  - 1.2.2 Type 2—Block letters and numerals (12 units).
- 1.2.3 *Type 3*—Type 2 characters with shading (shading—1 unit).
- 1.2.4 *Type 4*—Block letters (10 units) and numerals (12 units).
- 1.2.5 *Type* 5—Type 4 characters with shading (shading—1 unit).
- 1.3 This specification does not give location or size of various shipboard markings incorporating letters and numerals.
- 1.4 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

#### 2. Ordering Information

2.1 When ordering letters and numerals in accordance with this specification, it is necessary to state the ASTM designation and the type and height of the character.

#### 3. General Requirements

- 3.1 Characters are designed using the grid method which allows the size of the character to be changed proportionately as required.
  - 3.1.1 Character Stroke (thickness—2 units).

- 3.1.2 Character Width:
- 3.1.2.1 *Type 1, Plain Characters*—12 in accordance with Fig. 1 unless otherwise noted.
- 3.1.2.2 *Type 2, Block Characters*—8 units in accordance with Fig. 2 unless otherwise noted.
- 3.1.2.3 *Type 3, Block Characters with Shading*—Same as Type 2 plus 1 unit for shading in accordance with Fig. 3.
- 3.1.2.4 *Type 4, Block Characters, Letters*—Width varies. Numerals—8 units.
- 3.1.2.5 *Type 5, Block Characters with Shading*—Same as Type 4 plus 1 unit for shading.
  - 3.2 Sizing of the Character:
  - 3.2.1 *Type 1*—Space characters in accordance with Table 1.
  - 3.2.2 Type 2—Space characters in accordance with Table 1.
- 3.2.3 *Type 3*—Space characters in accordance with Table 1 with 1 unit added to each value for shading.
- 3.2.4 *Type 4*—Space letters in accordance with Fig. 4; spacing shall be equal to the space following the letter. Numerals shall be spaced in accordance with Table 1.
- 3.2.5 *Type 5*—Space letters in accordance with Fig. 5; spacing shall be equal to the space following the letter. Numerals shall be spaced in accordance with Table 1 with 1 unit added to each value for shading.
- 3.3 Spacing Between Words, After Punctuation, or Between Sentences:
- 3.3.1 The space between words, after a comma, and after a period (as after initials) shall be in accordance with Table 1.
- 3.3.2 The space between sentences shall be in accordance with Table 1.
- 3.3.3 The space between a letter and a comma or period (for any use) shall be 2 units.
- 3.3.4 The space between lines shall be equal to one half the height of the tallest letter.

#### 4. Keywords

4.1 block characters; block letters; block numerals; letters; marine; numerals; plain letters; plain numerals; shading; ship; ship letters; ship markings; ship numerals

<sup>&</sup>lt;sup>1</sup> This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.07 on General Requirements.

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#### TABLE 1 Spacing Between Letters and Numerals<sup>A</sup>

					IABL	с г эра	cing bet	Units	etters an	u Nume	iais					
Letters and Numerals	4	33/4	31/2	3	2½	2	13/4	11/2	1	1/2	1/4	Δ1/4	Δ1/2	Δ1	Δ11/4	Δ1½
A					*	+		Z 7	A,X	J	4	V,W,Y	Т			
B,D,O,Q,S 3,5,8			*	+		A,V,W, X,Z 7		J,T,Y 4								
C,E,R				*	+	,		A,V,W, X,Z 7	J,T,Y 4							
F						*		+	X,Z 7	T,W,Y	A 4	J				
G 6		*	+		A,V,W, X,Z 7	J,T,Y 4			,		7					
H,I,M,N,U 1,9	*		+		A,V,W, X,Z 7	J,T,Y 4										
J		*	+			A,V,W, X,Z	J,T,Y 4									
K					*	+			A,V,W, X,Z	J,T,Y 4						
L						*		+	7 Z 7	A,X	4			V,W		T,Y
Р				*	ŧ ]	eh	Sta	V,W, X,Z 7	7,Y	IS	А	J				
Т			(	htt	ps:	//st	and	lar	ds.	V,W, X,Z 7	T,Y 4	А	J			
V,W				*	Dog	utn	ien	t P	V,W, X,Z	T,Y	, A	J				
Х				*		+ 121	M EQU	6_85(0	A,V,W, X,Z	J,T,Y 4						
https://s	tandar	ds.iteh.	ai/cata	log/stai	ndards	sist/5d	46c5f0	-29cd	4ca1-	V,W, 0 X,Z-1	25437	ea86b	5/astm	1906-8	352020	
Z 2				*		+			A,V,W, X,Z 7	J,T,Y 4						
						Spacing E	Between V	Vords and	I After Pur	ctuation						
Type 1	18	173/4	171/2	171/4	17	163/4										
Types 2–5	14	13¾	13½	131/4	13	12¾										
						;	Spacing B	Setween S	entences							
Type 1	22	21¾	21½	211/4	21	203/4										
Types 2–5	18	17¾	17½	171/4	17	16¾										

## AKey:

Character Spacing:

<sup>\*—</sup>means space for: B,D,E,F,H,I,K,L,M,N,P,R,U 1,3,8 (also used for punctuation and sentence spacing).

<sup>+-</sup>means space for: C,G,O,Q,S 0,2,5,6,9.

 $<sup>\</sup>Delta\text{---indicates}$  that a portion of a letter enters the area of the next letter.

Select a character from the vertical column, read across locating the next character, read up to find the correct spacing.

If the letter "K" is followed by the letter "A," the spacing is 1 unit. If the letter "F" is followed by the letter "H," the spacing is 2 units.

Punctuation and Sentence Spacing:

Locate in column of table the last character of word, read across locating (\*), drop vertically down to the appropriate row, and read spacing. Example:

If the first word was "vessel," the spacing to the first letter of the next word is 123/4 units.