This standard has been approved by the Naval Ship Engineering Center, Department of the Navy, and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

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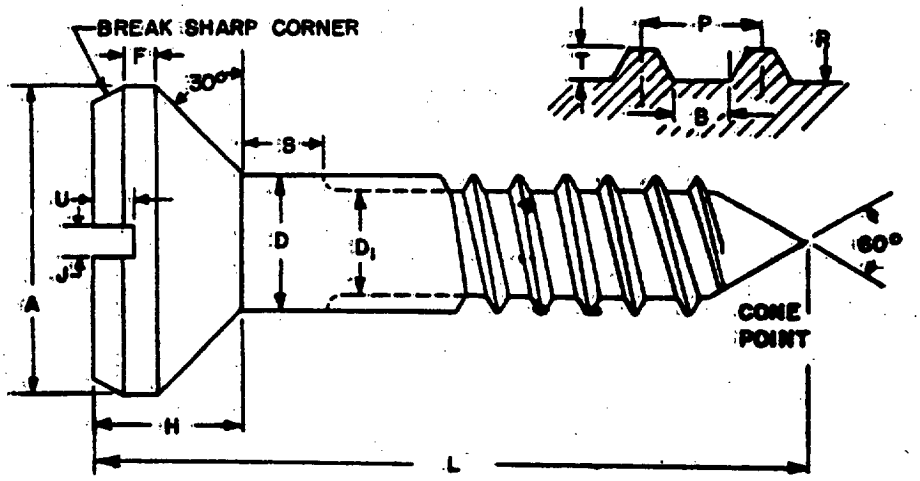
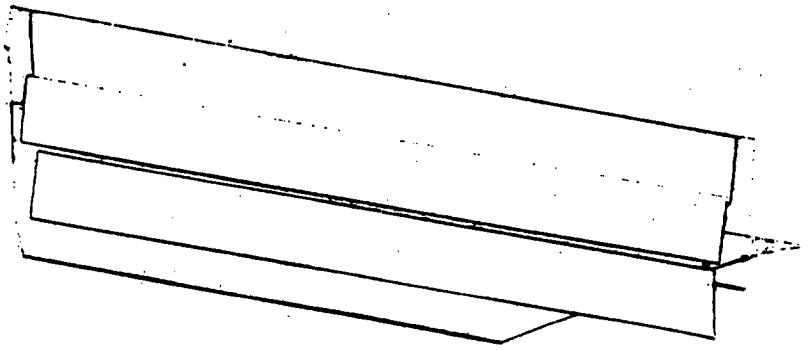
5306





(Project 5306-N008Sh) (A) For changes see sheets 1 through 3

APPROVED 8 MAY 1957 REVISED (A) 19 AUGUST 1966

CUSTODIANS	OTHER INT.	MILITARY STANDARD	MS16201 (SHIPS)
Ships	A - N - AF -	BOLTS, LAG, CONE POINT, COUNTERSUNK FLATHEAD, SLOTTED, COPPER-SILICON ALLOY, NONMAGNETIC	
Procurement Specification (A) FF-B-561			SHEET 1 OF 3

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(D) Nominal size		1/2	5/8	3/4
Threads per inch		6	5	4-1/2
) Head diameter	Nom.	1.000	1.125	1.500
	Max.	1.032	1.157	1.532
	Min.	0.968	1.093	1.468
(H) Head height	Nom.	.343	.430	.516
	Max.	.375	.462	.548
	Min.	.311	.398	.484
(F) Width of flat	Min.	.125	.156	.187
(J) Width of slot	Max.	.106	.133	.149
	Min.	.091	.116	.131
(C) Depth of slot	Max.	.103	.137	.171
	Min.	.065	.085	.111
(S) Length of shoulder[1]	Min.	.156	.312	.375
(D_1) Diameter of shank[1]	Min.	.371	.471	.579
(P) Pitch		.167	.200	.222
(B) Flat at root		.072	.086	.096
(T) Depth of thread		.064	.077	.085
(R) Root diameter		.371	.471	.579

(L) Length	Length tolerance 1/2 dia.	Length tolerance 5/8-3/4 dia.	MS part No.	FIIN	MS part No.	FIIN	MS part No.	FIIN
1-1/2	±1/8	±1/4	1		--		--	
2			2		14		--	
2-1/2			3		15		27	
3			4		16		28	
3-1/2			5		17		29	
4			6		18		30	
4-1/2			7		19		31	
5			8		20		32	
6			9		21		33	
7	±1/4		10		22		34	
8			11		23		35	
9			12		24		36	
10			13		25		37	
12			--		26		38	
14			--		--		39	

[1]Threads shall be cut or rolled. The diameter of the rolled thread shank shall be as indicated by (D_1). All rolled thread lag bolts shall be provided with a shoulder (S).

APPROVED 8 MAY 1957 REVISED (A) FOR CHANGES SEE SHEETS 1 THROUGH 3

CUSTODIANS	OTHER INT.	MILITARY STANDARD	MS16201 (SHIPS)
Ships	A - N - AF -	BOLTS, LAG, CONE POINT, COUNTERSUNK FLATHEAD, SLOTTED, COPPER-SILICON ALLOY, NONMAGNETIC	
Procurement Specification (A) FF-B-561			SHEET 2 OF 3

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(A) Material: Material shall be copper silicon alloy in accordance with copper alloy No. 651 of QQ-C-591.

Breaking strength: When tested in tension as specified in FF-B-561, the minimum breaking strength shall be as follows:

Size	Pounds
1/2	8,600
5/8	12,200
3/4	15,800

Length of thread: The minimum thread length shall be 1/2 the length (L) of the lag bolts plus 1/2 inch. Bolts too short for minimum thread length shall be threaded as close to the head as practicable.

Dimensions: All dimensions are inches unless otherwise specified.

Packaging and packing: Packaging and packing shall be in accordance with standard commercial practice.

Notes:

1. In case of conflict with any documents referenced herein this standard shall govern.
2. Referenced documents shall be the issue in effect on date of invitation for bids.

APPROVED 8 MAY 1957 REVISED (A) FOR CHANGES SEE SHEETS 1 THROUGH 3

CUSTODIANS	OTHER INT.	MILITARY STANDARD	MS 16201 (SHIPS)
Ships	A - N - AF -	BOLTS, LAG, CONE POINT, COUNTERSUNK FLATHEAD, SLOTTED, COPPER-SILICON	
Procurement Specification (A) FF-B-561		SUPERSEDES: ALLOY, NONMAGNETIC	SHEET 3 OF 3

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