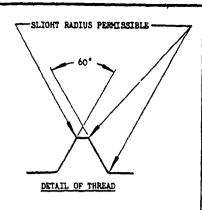


MOTE This discuss was approved by Jone action of the All Porce and Nav. Departments as the Als Force Navy and added for they produced. All darking approved to the same produced discussed discusses affective for the procurement of acronical appeara. Or for use to now deadly for the procurement of acronical appeara, or for use to now deadly, not later than 8 months after the bless date of approved above.



NATAER 18894 (Rev. 841)

LENGTH SEE NOTE (a) (b) (c) ÓRIP 80° TYPE B OR Z

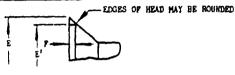


(5) 17 Feb 59

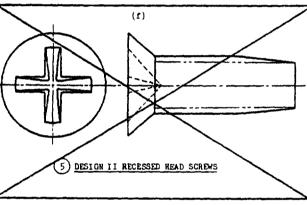
REVISED (1) 25 Apr 14 (2) 18 Feb 16 (3) 29 Apr 1,9 (1, 1,0 Jan 55

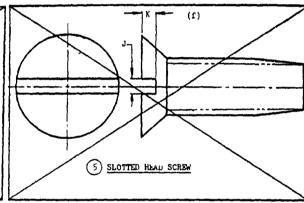
APPROVED 12 Feb 43

5 DESIGN I RECESSED HEAD, THREAD FORMING SCREW



DETAILED VIEW OF HEAD





(5) DIMENSIONING AND GAGING OF THE ABOVE RECESS DESIGNS SHALL BE IN ACCORDANCE WITH FF-S-92.

									(1	)	(	ſ)		
SI ZE	THREADS PER INCH	D MAX DI A	E DIA		E'	F	н					K /	P DIA	
			MAX SHARP	MIN SHARP	ABSOLJTE MIN WITH MAX P	MAX	ХАМ	ИІМ	MAX	ZIN	MLX	MIN	MAX	MIN
NO 4 NO, 6 NO, 8	2L 20 18	.114 .139 .166	.225 .279 .332	.207 .257 .308	,200 ,249 300	016 019 022	067 083 100	.055 069 081	£ 6.0	.031 039 045	.030 .030 .045	. 558 050 050	079 095 112	.074 089 106
NO. 10	16 14	189 246	.385 .491	.359 .461	34.8 1.4.7	025 031	116 148	098 127	060 075	.050	053 068	03	.130 179	.123 .171

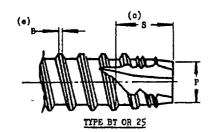
(r) Design II recessed and slotted head screws inactive for design after 17 February 1959.

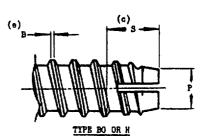
PROCUREMENT SPECIFICATION MIL-8-6033

AIR FORCE-NAVY AERONAUTICAL STANDARD SCREW, TAPPING, THREAD FORMING OR THREAD

CUTTING, 82-DEGREE FLAT HEAD, SPACED THREAD

TYPE BF OR FZ





## (d) OPTIONAL TYPES OF ENDS FOR THREAD CUTTING SCREWS

CARBON STEEL, SLOTTED HEAD SCREWS, THREAD FORMING, DASH NUMBERS FOR

LENGTH		NO. 4		NO. 6		NO. 8		NO. 10		1/4	
		DASH NO.	ORIP MIN	DASH NO.	ORIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN
1/4 3/8 1/2 5/8	+0 -1/5?	n-6 n-9	.115 .240 .365	6-6 6-8 6-10	.219 .3hh .469	8-6 6-8 8-10	.205 .330 .455	10-8 10-10	.313 .438	14-10	.415
3/4 7/8 1 1 1/4 1 1/2	+0 -3/64			6-12 6-14 6-16 6-20 6-24	.578 .703 .828 1.078 1.328	8-12 8-14 8-16 8-20 8-24	.564 .689 .814 1.203 1.314	10-12 10-14 10-16 10-20 10-24	.547 .672 .797 1.047 1.297	14-12 14-14 14-16 14-20 14-24	.524 .649 .774 1.024 1.274
1 3/4 2 2 1/4 2 1/2	40 -1/16					8-28 8-32 8-36 8-40	1.549 1.800 2.049 2.300	10-28 10-32 10-36 10-40	1.532 1.782 2.032 2.282	14-28 14-32 14-36 14-40	1.509 1.759 2.009 2.259

PROCUREMENT MIL-8-6033

AIR FORCE-NAVY AERONAUTICAL STANDARD

SCREW, TAPPING, THREAD FORMING OR THREAD CUTTING, 82-DEGREE FLAT HEAD, SPACED THREAD **AN531** 

10 Jan 55 REVISED 1) 12 Jul 55

APPROVED

SHEET 2

- (b) THE GRIP LENGTH IS MEASURED FROM THE TOP OF THE HEAD TO THE END OF THE FULL-THREADED PORTION OF THE SHANK. THE MINIMUM GRIP DIMENSIONS SHOWN IN THE DASH NUMBER TABLE ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT.
- (c) TAPER LENGTH, S, IS 2 TO 2-1/2 TIMES THE PITCH OF THE THREAD.
- (d) STREWS DESIGNATED AS THREAD FORMING HAVE PLAIN ENDS (NOT FLUTED OR SLOTTED). SCREWS DESIGNATED AS THREAD CUTTING HAVE FLUTED OR SLOTTED ENDS.
- (e) MAXIMUM CHEST OF THREAD, B, UP TO APD INCLUDING SIZE NO. 8 EQUALS 0.004 INCH; MAXIMUM CREST OF THREAD OVER SIZE NO. 8 EQUALS 0.006 INCH. TAPERED THREADS HAVE UNFINISHED CRESTS.
- (1) MATERIAL: CARBON STEEL, CASE HARDENLD, OR CORROSION-RESISTAM STEEL, TYPE 410, HARDENED.
- 1 FINISH: CARBON STEEL, CADMIUM PLATE, SPECIFICATION QC-P-L16, TYPE I, CLASS C. CORROSION-RESISTANT STEEL, NONE.

ADD C BEFORE FIRST DASH NUMBER FOR CORROSION-RESISTANT STELL SCREWS.

ADD F BETWEEN FIRST AND SECOND DASH NUMBERS FOR SCREWS WITH FLUTED OR SLOTTED ENDS, (THREAD CUTTING). IF R APPEARS IN THE CODING, ADD THE F IMMEDIATELY FOLLOWING THE R.

ADD R BETWEEN FIRST AND SECOND DASH NUMBERS FOR RECESSED HEAD SCREWS.

(1) EXAMPLES OF PART NUMBERS:

a second

tra transfer of the control of the c

reflections, or other data ere u States Government through the States and any way applied the sebelief or says the protect or by he related thereto.

bill a

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AN531-6-8 - NO.6, CARBON STEEL, SLOTTED HEAD, THREAD FORMING SCREW, 8/16 IN LLNGTH.

AN531-608 - NO.5, CARBON STEEL, RECESSED HEAD, THREAD FORMING SCREW, 8/16 1N LENGTH.

AN531-GREG = NO.6, CARBON SILEL, RECESSED HEAD, FLUTED OR THREAD CUTTING SCREW, 8/16 IN LENGTH.

AN53)C6-F - NO. 6, CORRESION-RESISTANT STEEL, SLOTTED HEAD, THREAD FORMING SCREW, 8/16 IN LENGTH.

AN531CGR8 = NO. 6, CORROSION-RESISTANT STEEL, RECESSED HEAD, THREAD FORMING SCREW, 8/16 IN LENGTH.

AN531C6RF8 = NO. 6, CORROSION-RESISTANT STEEL, RECESSED HEAD, FLUTED OR THREAD CUTTING SCREW, 8/16 IN LENGTH.

SCREMS HAVING FIVE THREADS OR LESS MAY HAVE FINER PITCH THREADS, OR SHORTER POINTS, OR FINER PITCH THREADS AND SHORTER POINTS, AT THE OPTION OF THE PRODUCER.

SCREW MANUFACTURER'S DESIGNATION MAY BE INCLUDED ON THE SCREWS.

SCREWS SHALL BE FREE OF ALL LOOSE OR HANGING BURRS OR SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

DIMENSIONS IN INCHES.

SUBJECT TO ANDIO087 LIMITATIONS, THE THREAD FORMING SCREWS SHOWN ON THIS DRAWING MAY BE USED WITH SPECIFICATION MIL-N-3337 SHEET SPPING NUTS.

SUBJECT TO ANDLOO87 LIMITATIONS, THE SCREWS MAY BE USED AS TAPPING SCREWS WITH ANDLO325 HOLE SIZES AND ANDLO387 HOLE TOLERANCES.

PROGUREMENT SPECIFICATION

AIR FORCE-NAVY AERONAUTICAL STANDARD

MIL-S-6033

SCREW, TAPPING, THREAD FORMING OR THREAD CUTTING, 82-DEGREE FLAT HEAD, SPACED THREAD AN531

REVISED (1) 12 Jul 55

APPROVED 10 Jan 55

INCH-POUND

AN531 REV. 5 AMENDMENT 1 20 May 1996

## AIR FORCE - NAVY AERONAUTICAL STANDARD

SCREW, TAPPING, THREAD FORMING OR THREAD CUTTING, 82 DEGREE, FLAT HEAD, SPACED THREAD

This amendment forms a part of AN531 REV. 5, dated, 17 February 1959 and is approved for use by all Departments and Agencies of the Department of Defense.

## PAGES 1, 2 and 3

In Procurement Specification Block delete: "MIL-S-6033" and substitute: "FF-S-107".

## PAGE 3

The fifth and sixth sentences under part number examples "Subject to AND10087 limitations...." delete: "AND10087" and substitute: "MS33749".

Custodians: Navy - AS Air Force - 99 Preparing Activity: DLA-IS

(Project 5305-2133)