

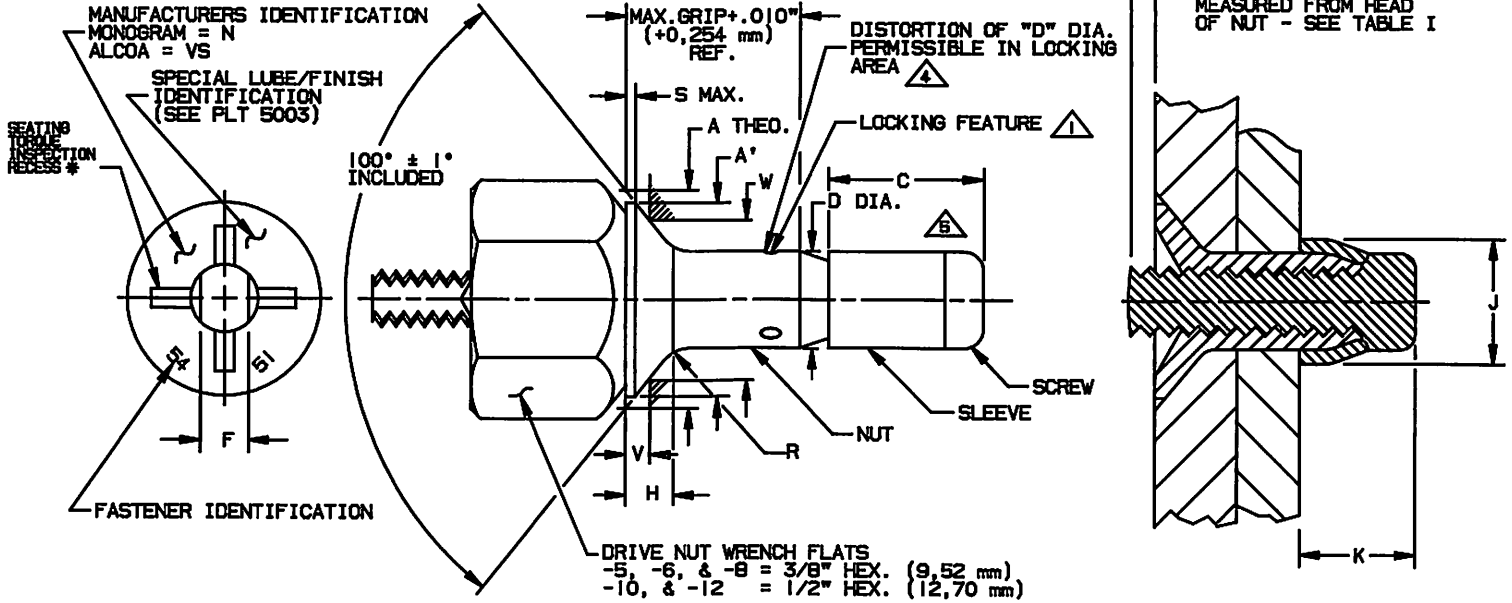


ALCOA

Alcoa Fastening Systems

CUSTODIAN: ENGINEERING STANDARD COMMITTEE FOR BLIND BOLTS  
3423 SOUTH GARFIELD AVENUE  
LOS ANGELES, CALIFORNIA 90040

**MF**® MONOGRAM  
AEROSPACE  
FASTENERS



HEAD MARKINGS DEPRESSED .010 INCH (0,254 mm MAX.) (SEE NOTE #3) (POSITION OPTIONAL)  
# DRIVE-NUT NOT SHOWN FOR CLARITY OF HEAD MARKINGS.

TABLE I

PART NUMBER	NOM. DIA.		A DIA. THEO.		A' DIA. MIN.		C MAX.		D DIA.		F FLATS		H REF.		J DIA. MAX.		K REF.		R RAD.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
PLT 5451-5-()	.1790	4,55	.2612 .2564	6,63 6,51	.241	6,12	.315	8,00	.1800 .1780	4,572 4,521	.086 .081	2,18 2,06	.033	0,84	.244	6,20	.300	7,62	.030 .010	0,76 0,25
PLT 5451-6-()	.2140	5,44	.3016 .2966	7,66 7,53	.270	6,86	.350	8,89	.2150 .2130	5,461 5,410	.104 .099	2,64 2,52	.036	0,91	.300	7,62	.333	8,46	.030 .015	0,76 0,38
PLT 5451-8-()	.2750	6,98	.3948 .3898	10,03 9,90	.363	9,22	.385	9,78	.2760 .2740	7,010 6,960	.135 .130	3,43 3,30	.049	1,24	.384	9,75	.366	9,30	.030 .015	0,76 0,38
PLT 5451-10-()	.3260	8,28	.4739 .4689	12,04 11,91	.442	11,23	.470	11,94	.3270 .3250	8,306 8,255	.152 .147	3,86 3,73	.061	1,55	.427	10,85	.447	11,35	.040 .020	1,02 0,51
PLT 5451-12-()	.3890	9,88	.5604 .5554	14,23 14,11	.529	13,44	.555	14,10	.3900 .3880	9,906 9,855	.185 .180	4,70 4,57	.071	1,80	.516	13,11	.527	13,39	.040 .020	1,02 0,51

TABLE I (CONT.)

PART NUMBER	S MAX.		V GAGE PROT.		W GAGE DIA.		BREAK-OFF LIMITS		MINIMUM AVAILABLE GRIP LENGTH (TABLE II)	HOLE SIZE		PREVAILING TORQUE MIN.		DOUBLE SHEAR STRENGTH MIN.		TENSILE STRENGTH MIN.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm		INCH	mm	IN-LBS	Nm	LBS.	kN	LBS.	kN
PLT 5451-5-()	.010	0,25	.0178 .0153	0,452 0,389	.2195 .2193	5,575 5,570	+.088 -.000	+2,24 -0,00	-2	.183 .181	4,65 4,60	1.0	0,113	5600	24.9	1060	4.7
PLT 5451-6-()	.015	0,38	.0246 .0218	0,625 0,554	.2440 .2438	6,198 6,193	+.088 -.000	+2,24 -0,00	-2	.218 .216	5,54 5,49	1.5	0,170	8000	35.8	1770	7.9
PLT 5451-8-()	.015	0,38	.0271 .0242	0,688 0,615	.3314 .3312	8,418 8,412	+.098 -.000	+2,49 -0,00	-3	.279 .277	7,09 7,04	2.5	0,282	13300	59.1	3120	13.9
PLT 5451-10-()	.015	0,38	.0296 .0268	0,752 0,676	.4047 .4045	10,276 10,274	+.103 -.000	+2,62 -0,00	-3	.330 .328	8,38 8,33	3.5	0,400	18700	83.3	4440	19.7
PLT 5451-12-()	.015	0,38	.0321 .0290	0,815 0,737	.4854 .4852	12,329 12,324	+.103 -.000	+2,62 -0,00	-4	.393 .391	9,98 9,93	4.0	0,452	26600	118.2	6390	28.4

ALCOA

CODE IDENT. NO.  
5M902

MONOGRAM

CODE IDENT. NO.  
98524

APPROVED DATE

5-29-85 ECN 4154

REV. LETTER AND DATE

"D" 09-27-11 ECN5848

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TITLE  
VISU-LOK® II FASTENER, BLIND  
100° REDUCED FLUSH SHEAR HEAD,  
1/64" OVERSIZE DIAMETER  
5% CHROME STEEL ALLOY (H-11)

STANDARD

PLT 5451

SHEET 1 OF 2



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APPLICABLE SPECIFICATIONS:

PROCUREMENT SPECIFICATION = PLT 5000 CLASS 4, TYPE III
PART NUMBER ASSIGNMENT = PLT 5001
INSTALLATION AND REMOVAL = PLT 5002
SPECIAL LUBE AND FINISH = PLT 5003

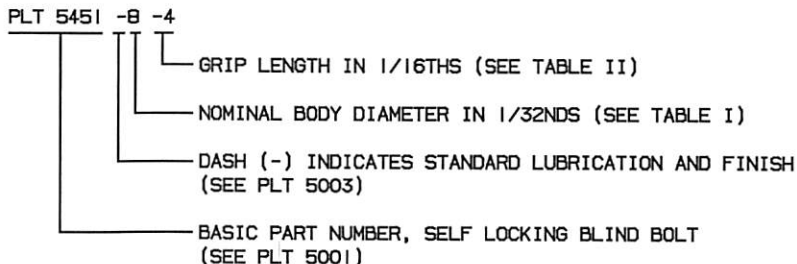
MATERIAL: NUT & SCREW: 5% CHROME STEEL (H-11) PER AMS 6487
SLEEVE: A-286 PER AMS 5731, AMS 5732, AMS 5737, OR INCONEL X-750 PER AMS 5667 OR AMS 5582
DRIVE NUT: MILD STEEL

HEAT TREAT: NUT & SCREW: HEAT TREAT TO RC 48-53
SLEEVE: AS REQUIRED FOR PERFORMANCE
DRIVE NUT: AS REQUIRED FOR PERFORMANCE

FINISH: NUT & SCREW: CADMIUM PLATE PER NAS 672, .0003" MINIMUM THICKNESS (EXCEPT THERMAL INDICATOR MAY BE OMITTED) FOLLOWED BY A DICHROMATE POST TREATMENT PER QQ-P-416
SLEEVE: PASSIVATE PER AMS2700. CADMIUM PLATE PER QQ-P-416, TYPE I, CLASS 3
DRIVE NUT: CORROSION RESISTANT COATING. COLOR RED

LUBRICATION: SOLID DRY FILM LUBRICANT PER THE CHEMICAL REQUIREMENTS OF AS5272 TYPE I OR EVERLUBE 812 PER MIL-L-81329, PARAFFIN WAX OR CETYL ALCOHOL PER AS97132, MAY BE APPLIED TO ANY OR ALL COMPONENTS AS REQUIRED FOR PERFORMANCE (SEE PLT 5003 FOR SPECIAL LUBRICANTS AND FINISHES)

PART CODE & EXAMPLE:



GENERAL NOTES:

- 1. LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT
2. HALF GRIP SIZES MAY BE ORDERED BY ADDING .5 TO THE GRIP DASH NUMBER
3. SECOND DASH NUMBER (GRIP RANGE) -17 THROUGH -32 NOT AVAILABLE IN -5 DIAMETER.
4. DISTORTION OF "D" DIAMETER SHALL NOT PREVENT INSERTION OF THE FASTENER INTO A RING GAUGE OF LENGTH EQUAL TO ONE DIAMETER AND DIAMETER EQUAL TO MINIMUM RECOMMENDED HOLE SIZE. FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS (22.23 NEWTONS)
5. OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NOT BE GREATER THAN MAXIMUM "D" DIAMETER.
6. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.

TABLE II

Table with columns: 2ND DASH NO., GRIP RANGE (MIN. GRIP, MAX. GRIP) in INCH and mm for dash numbers -2 to -32.

ALCOA CODE IDENT. NO. 5M902
APPROVED DATE 5-28-85 ECN 4154
REV. LETTER AND DATE \*D\* 09-27-11 ECN#5848

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STANDARD
PLT 5451
SHEET 2 OF 2