

PART NUMBER	NOM DIA.		A THEO DIA.		A' DIA. MIN.		C MAX.		D DIA.		E DIA. MAX.		F DRIVING FLATS		H REF.		J DIA. MAX.		K MAX.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
PLT125-05(-)	.1635	4,15	.332 .325	8,43 8,25	.296	7,52	.268	6,81	.1645 .1625	4,178 4,128	.1620	4,12	.086 .081	2,18 2,06	.069	1,75	.244	6,20	.267	6,79
PLT125-06(-)	.1890	4,80	.385 .378	9,78 9,60	.342	8,69	.303	7,70	.1900 .1880	4,826 4,775	.1875	4,77	.104 .099	2,64 2,51	.081	2,06	.300	7,62	.302	7,68
PLT125-08(-)	.2480	6,30	.507 .499	12,88 12,67	.463	11,76	.354	9,00	.2490 .2470	6,325 6,274	.2465	6,27	.135 .130	3,43 3,30	.107	2,72	.384	9,75	.346	8,79
PLT125-10(-)	.3105	7,89	.635 .626	16,13 15,90	.577	14,66	.423	10,75	.3115 .3095	7,912 7,861	.3090	7,85	.152 .147	3,86 3,73	.134	3,40	.427	10,85	.414	10,52
PLT125-12(-)	.3735	9,49	.762 .752	19,35 19,10	.696	17,68	.510	12,96	.3745 .3725	9,512 9,462	.3720	9,45	.185 .180	4,70 4,57	.160	4,06	.516	13,11	.470	11,94

PART NUMBER	M GAGE PROT.		R RAD.		S MAX.		W GAGE DIA.		HOLE SIZE		BREAK-OFF LIMITS		PREVAILING TORQUE IN. LBS. MIN		DOUBLE SHEAR STRENGTH LBS. MIN		TENSILE STRENGTH LBS. MIN	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	IN-LBS	Nm	LBS.	N	INCH	N
PLT125-05(-)	.0276 .0238	0,071 0,604	.030 .010	0,76 0,25	.012	0,30	.2671 .2667	6,784 6,774	.168 .165	4,27 4,19	+.082 -.006	+2,09 -.016	1,0	0,113	3150	14000	900	4000
PLT125-06(-)	.0299 .0259	0,760 0,658	.030 .015	0,76 0,38	.015	0,38	.3147 .3143	7,993 7,983	.193 .190	4,90 4,82	+.072 -.016	+1,83 -.041	1,5	0,170	4200	18600	1400	6230
PLT125-08(-)	.0353 .0307	0,897 0,780	.030 .015	0,76 0,38	.015	0,38	.4245 .4241	10,782 10,772	.252 .249	6,40 6,32	+.072 -.026	+1,83 -.067	2,5	0,282	7200	32000	2100	9340
PLT125-10(-)	.0409 .0357	1,039 0,907	.040 .020	1,02 0,51	.020	0,51	.5389 .5385	13,688 13,678	.315 .312	8,00 7,92	+.072 -.031	+1,83 -.079	3,5	0,400	11350	50500	3600	16010
PLT125-12(-)	.0466 .0407	1,184 1,034	.040 .020	1,02 0,51	.023	0,58	.6532 .6528	16,591 16,581	.378 .375	9,60 9,52	+.072 -.031	+1,83 -.079	4,0	0,452	16450	73200	5600	24910

**MONOGRAM AEROSPACE FASTENERS**  
a TriMas company  
3423 SOUTH GARFIELD AVENUE  
COMMERCE, CALIFORNIA 90040  
(323) 722-4760 FAX (323) 727-1029

TITLE:  
**VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE HIGH TEMPERATURE (A286 ALLOY) 100° FLUSH HEAD, SELF LOCKING FRACTIONAL DIAMETER**

DRAWING NO:  
**PLT125(-)(-)(-)**  
DRAWN BY: G.MARTINEZ  
DRAWN DATE: 07-11-13  
APPROVED BY:  
CHECKED DATE:

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Alcoa CAGE CODE: 5M902  
MONOGRAM CAGE CODE: 98524  
ECN NO: 14-0657  
ECN DATE: 11/01/14  
REV: L  
SHEET 1 OF 2



PROCUREMENT SPEC: ESCBB-2, CLASS 2.

MATERIAL:  
NUT, SCREW, &  
SLEEVE: CORROSION AND HEAT RESISTANT STEEL.  
TYPE A286 PER AMS5731, AMS5732, AND  
AMS5737.

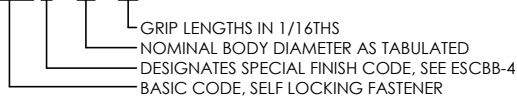
HEAT TREAT:  
NUT, SCREW &  
SLEEVE: SOLUTION HEAT TREATED AND AGED TO A  
CORE HARDNESS OF HRC 30 TO HRC 45 ALL  
CORE HARDNESS READINGS ARE TAKEN ON  
MOUNTED SPECIMEN, USING A BRALE  
PENETRATOR AND A 30 Kg LOAD  
(ROCKWELL 30N).

FINISH:  
(-) NUT, SCREW, &  
SLEEVE: PASSIVATE PER AMS2700.  
(A) NUT, SCREW, &  
SLEEVE: PASSIVATED PER AMS2700, CADMIUM  
PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.

LUBRICANT:  
LUBRICANTS LISTED BELOW MAY BE APPLIED  
TO ANY OR ALL COMPONENTS IF REQUIRED  
FOR PERFORMANCE:  
DRY FILM LUBE PER AS5272 TYPE I OR  
MIL-PRF-81329, WWM CARBO-WAX, PARAFFIN  
WAX AND/OR CETYL ALCOHOL PER  
AS87132.

PART CODE & EXAMPLE:

PLT125 A - 05 - 05



GENERAL NOTES:

1. OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NO BE GREATER THAN MAXIMUM "E" DIAMETER.
2. REMOVE ALL LOOSE OR HANGING BURRS.
3. LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT AND APPROXIMATELY .040" (1.02 mm) ABOVE THE INTERSECTION OF THE NUT NOSE ANGLE AND O.D. (MEAN GRIP OF FASTNER).
4. HEAD MARKING ON NUT DEPRESSED .010" (0.26 mm) MAXIMUM.
5. STANDARD FINISHES AND LUBRICANTS ARE SHOWN ABOVE. REFER TO SPECIFICATION ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBRICANTS, IF REQUIRED.
6. CONCENTRICITY OF NUT HEAD "A" DIAMETER TO "D" DIAMETER SHALL BE WITHIN 0.005" (0.13 mm) T.I.R., EXCEPT OVER INDENTS.
7. 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 MAXIMUM "D" MAX + .001". FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS (22.23 NEWTONS).
8. HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBERS.  
  
EXAMPLE: PLT125-06-4.5 INDICATES A NOMINAL GRIP LENGTH OF 4.5 SIXTEENTHS (.281 = 7.14mm). THE GRIP RANGE FOR THESE HALF-GRIP SIZES WILL BE NOMINAL GRIP +.031/- .030 (+0.79/-0.76 mm). THE BASIC "G" DIMENSION WILL BE NOMINAL GRIP +.031 (+0.79) AND THE OVERALL SCREW LENGTH "L" DIMENSION MAY VARY AT MANUFACTURER'S OPTION.
9. STANDARD GRIP LENGTHS ARE SHOWN IN TABLE II. SHORTER OR LONGER GRIPS THAN THOSE LISTED MAY BE AVAILABLE AS SPECIALS. ON GRIP LENGTHS SHORTER THAN THOSE LISTED, THE BREAKOFF AND PREVAILING TORQUES DO NOT APPLY.
10. DIMENSIONS "A", "A' " AND "H" ARE FOR ENGINEERING REFERENCE PURPOSES ONLY AND ARE NOT TO BE USED FOR INSPECTION PURPOSES. THESE DIMENSIONS ARE THEORETICAL VALUES DERIVED FROM "D", "S", "M", "W" AND HEAD ANGLE DIMENSIONS.
11. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.
12. "G" TOLERANCES: FOR -05 & -06 SIZES +.030"/-.010" (+0.77/-0.25 mm), FOR -08 & -10 SIZES +.040"/-.010" (+1.02/-0.25 mm), FOR -12 SIZES +.050"/-.010" (+1.27/-0.25 mm).

SECOND DASH NUMBER	GRIP		GRIP RANGE						L REF. PLT125										
			MIN			MAX			-05-()		-06-()		-08-()		-10-()		-12-()		
			INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	
-02	.156	3.96	.094	2.39	.156	3.96	.795	20.19	.916	23.27	-	-	-	-	-	-	-		
-03	.219	5.56	.157	3.99	.219	5.56	.858	21.80	.978	24.84	1.006	25.557	-	-	-	-	-		
-04	.281	7.14	.220	5.59	.281	7.14	.920	23.37	1.041	26.44	1.069	27.153	1.221	31.013	1.304	33.122	-		
-05	.344	8.74	.282	7.16	.344	8.74	.983	24.97	1.103	28.016	1.131	30.328	1.283	32.588	1.367	34.722	-		
-06	.406	10.31	.345	8.76	.406	10.31	1.045	26.543	1.166	29.616	1.194	30.328	1.346	34.188	1.429	36.230	-		
-07	.469	11.91	.407	10.34	.469	11.91	1.108	28.143	1.228	31.191	1.256	31.902	1.408	35.763	1.492	36.897	-		
-08	.531	13.49	.470	11.94	.531	13.49	1.170	29.718	1.291	32.791	1.319	33.503	1.471	37.363	1.554	39.472	-		
-09	.594	15.11	.532	13.51	.594	15.11	1.233	31.318	1.353	34.366	1.381	35.077	1.533	38.938	1.617	41.072	-		
-10	.656	16.66	.595	15.11	.656	16.66	1.295	32.893	1.416	35.966	1.444	36.678	1.596	40.538	1.679	42.647	-		
-11	.719	18.26	.657	16.69	.719	18.26	1.358	34.493	1.478	37.541	1.506	38.252	1.658	42.113	1.742	44.247	-		
-12	.781	19.84	.720	18.29	.781	19.84	1.420	36.068	1.541	39.141	1.569	39.853	1.721	43.713	1.804	45.822	-		
-13	.844	21.44	.782	19.86	.844	21.44	1.483	37.668	1.603	40.716	1.631	41.427	1.783	45.288	1.867	47.422	-		
-14	.906	23.01	.845	21.46	.906	23.01	1.545	39.243	1.666	42.316	1.694	43.028	1.846	46.888	1.929	48.997	-		
-15	.969	24.61	.907	23.04	.969	24.61	1.608	40.843	1.728	43.891	1.756	44.602	1.908	48.463	1.992	50.597	-		
-16	1.031	26.19	.970	24.64	1.031	26.19	1.670	42.418	1.791	45.491	1.819	46.203	1.971	50.063	2.054	52.172	-		
-17	1.094	27.79	1.032	26.21	1.094	27.79						1.853	47.066	1.881	47.777	2.033	51.638	2.117	53.772
-18	1.156	29.36	1.095	27.81	1.156	29.36						1.916	48.666	1.944	49.378	2.096	53.238	2.179	55.347
-19	1.219	30.96	1.157	29.39	1.219	30.96						1.978	50.241	2.006	50.952	2.158	54.813	2.242	56.947
-20	1.281	32.54	1.220	30.99	1.281	32.54						2.041	51.841	2.069	52.553	2.221	56.413	2.304	58.522
-21	1.344	34.14	1.282	32.56	1.344	34.14						2.103	53.416	2.131	54.127	2.283	57.988	2.367	60.122
-22	1.406	35.71	1.345	34.16	1.406	35.71						2.166	55.016	2.194	55.728	2.346	59.588	2.429	61.697
-23	1.469	37.31	1.407	35.74	1.469	37.31						2.228	56.591	2.256	57.302	2.408	61.163	2.492	63.297
-24	1.531	38.89	1.470	37.34	1.531	38.89						2.291	58.191	2.319	58.903	2.471	62.763	2.554	64.872
-25	1.594	40.49	1.532	38.91	1.594	40.49						2.353	59.766	2.381	60.477	2.533	64.338	2.617	66.472
-26	1.656	42.06	1.595	40.51	1.656	42.06						2.416	61.366	2.444	62.078	2.596	65.938	2.679	68.047
-27	1.719	43.66	1.657	42.09	1.719	43.66						2.478	62.941	2.506	63.652	2.658	67.513	2.742	69.647
-28	1.781	45.24	1.720	43.69	1.781	45.24						2.541	64.541	2.569	65.253	2.721	69.113	2.084	71.222
-29	1.844	46.84	1.782	45.26	1.844	46.84						2.603	66.116	2.631	66.827	2.783	70.688	2.867	72.822
-30	1.906	48.41	1.845	46.86	1.906	48.41						2.666	67.716	2.694	68.428	2.846	72.288	2.929	74.397
-31	1.969	50.01	1.907	48.44	1.969	50.01						2.728	69.291	2.756	70.002	2.908	73.863	2.992	75.997
-32	2.031	51.59	1.970	50.04	2.031	51.59						2.791	70.891	2.819	71.603	2.971	75.463	3.054	77.572

NOT AVAILABLE IN -05 DIAMETER

3423 SOUTH GARFIELD AVENUE  
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TITLE:  
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INTERNALLY THREADED, EXTERNAL SLEEVE  
HIGH TEMPERATURE (A286 ALLOY)  
100° FLUSH HEAD, SELF LOCKING  
FRACTIONAL DIAMETER

DRAWING NO: <b>PLT125(-)(-)(-)</b>	
DRAWN BY: <b>G.MARTINEZ</b>	DRAWN DATE: <b>07-11-13</b>
APPROVED BY:	CHECKED DATE:

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			<b>SHEET 2 OF 2</b>