



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
PLT1020-05-(-)	.1625	4,128	.332 .325	8,44 8,25	.296	7,51	.285	7,24	.163 .162	4,140 4,115	.1598	4,06	.086 .081	2,19 2,05	.069	1,75	.244	6,20	.257	6,53
PLT1020-06-(-)	.1975	5,017	.385 .378	9,78 9,60	.342	8,68	.320	8,13	.198 .197	5,029 5,004	.1948	4,95	.104 .099	2,65 2,51	.077	1,96	.300	7,62	.288	7,32
PLT1020-08-(-)	.2585	6,566	.507 .499	12,88 12,67	.463	11,76	.355	9,02	.259 .258	6,578 6,553	.2559	6,50	.135 .130	3,43 3,30	.102	2,59	.384	9,76	.320	8,13
PLT1020-10-(-)	.3105	7,887	.635 .626	16,13 15,90	.577	14,65	.440	11,18	.311 .310	7,899 7,874	.3078	7,82	.152 .147	3,87 3,73	.134	3,40	.427	10,85	.396	10,06
PLT1020-12-(-)	.3725	9,462	.762 .752	19,36 19,10	.696	17,67	.525	13,34	.373 .372	9,474 9,449	.3700	9,40	.185 .180	4,70 4,57	.160	4,06	.516	13,11	.473	12,02

PART NUMBER	M GAGE PROT.		R RAD.		S MAX.		W GAGE DIA.		BREAK-OFF LIMITS		HOLE SIZE		PREVAILING TORQUE MIN.		DOUBLE SHEAR STRENGTH MIN.		TENSILE STRENGTH MIN.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	IN-LBS	Nm	LBS.	daN	LBS.	daN
PLT1020-05-(-)	.0276 .0238	0,702 0,604	.040 .035	1,02 0,88	.012	0,31	.2671 .2667	6,785 6,774	+0,20 -0,068	+0,51 -1,73	.168 .165	4,27 4,19	1.0	0,11	4680	2080	1350	600
PLT1020-06-(-)	.0299 .0259	0,760 0,657	.050 .045	1,27 1,14	.015	0,39	.3147 .3143	7,994 7,983	+0,15 -0,073	+0,39 -1,86	.202 .199	5,13 5,05	1.5	0,16	6900	3060	2100	930
PLT1020-08-(-)	.0353 .0307	0,897 0,779	.060 .055	1,53 1,39	.015	0,39	.4245 .4241	10,783 10,772	+0,10 -0,078	+0,26 -1,99	.263 .260	6,68 6,60	2.5	0,28	11800	5240	3650	1620
PLT1020-10-(-)	.0409 .0357	1,039 0,906	.070 .060	1,78 1,52	.020	0,51	.5389 .5385	13,689 13,677	+0,10 -0,083	+0,26 -2,11	.315 .312	8,00 7,92	3.5	0,39	17000	7560	5200	2310
PLT1020-12-(-)	.0466 .0407	1,184 1,033	.070 .060	1,78 1,52	.023	0,59	.6532 .6528	16,592 16,581	+0,10 -0,093	+0,26 -2,37	.378 .375	9,60 9,52	4.0	0,45	24500	10890	7500	3330

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 5% CHROME STEEL (H-11) 100° FLUSH HEAD, SELF LOCKING

DRAWING NO:
PLT1020-(-)-(-)
DRAWN BY:
B. GEE
APPROVED BY:
B. GEE
DRAWN DATE:
09/30/13
CHECKED DATE:

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Alcoa CAGE CODE: **5M902**
MONOGRAM CAGE CODE: **98524**
DCN NO: **14-0711**
DCN DATE: **11/08/14**
REV: **H**
SHEET 1 OF 2



PROCUREMENT SPEC: ESCBB-10 EXCEPT AS SPECIFIED HEREIN

MATERIAL: NUT & SCREW: 5% CHROME STEEL (H-11) PER AMS6487.

SLEEVE: INCONEL X-750 PER AMS5667 OR AMS5582 OR A-286 PER AMS5731, AMS5732 OR AMS5737.

HEAT TREAT: NUT & SCREW: ROCKWELL "C" 48-55

SLEEVE: AS REQUIRED FOR PERFORMANCE.

FINISH: NUT & SCREW: CADMIUM PLATE PER NAS672 .0003 IN. (0,007 mm) MIN. THICKNESS. EXCEPT THERMAL INDICATOR MAY BE OMITTED. SUPPLEMENTARY CHROMATE TREATMENT PER AMS-QQ-P-416. AFTER BAKE, COLOR NUT BLACK.

SLEEVE: CADMIUM PLATE PER AMS-QQ-P-416, TYPE I CLASS 3.

LUBRICATION: LUBRICANTS LISTED BELOW MAY BE APPLIED TO ANY OR ALL COMPONENTS IF REQUIRED FOR PERFORMANCE:

NUT & SCREW: CETYL ALCOHOL

SLEEVE: AS REQUIRED FOR PERFORMANCE.

GENERAL NOTES:

- OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NO BE GREATER THAN MAXIMUM "E" DIAMETER.
- FASTENERS SHALL BE FREE OF ALL LOOSE OR HANGING BURRS.
- 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 FASTENER).
- HEAD MARKING ON NUT DESPRESSED .010" (0.26 mm) MAXIMUM. LOCATION OPTIONAL.
- STANDARD FINISHES AND LUBRICANTS ARE SHOWN ABOVE. SEE SPECIFICATION ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBRICANTS, IF REQUIRED.
- CONCENTRICITY OF NUT HEAD CONICAL SURFACE TO "D" DIAMETER SHALL BE WITHIN 0.003" (0.076 mm) T.I.R., EXCEPT OVER INDENTATIONS.
- CONCENTRICITY OF SCREW 'E' DIAMETER TO "D" DIAMETER SHALL BE WITHIN 0.008" (0.21 mm) T.I.R., EXCEPT OVER INDENTATIONS.
- 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" + .001". FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS (22.23 NEWTONS).
- STANDARD GRIP LENGTHS ARE SHOWN AS TABULATED, SHORTER OR LONGER GRIPS THAN THOSE LISTED MAY BE AVAILABLE AS SPECIALS. ON GRIP LENGTHS SHORTER THAN THOSE LISTED, THE BREAKOFF LIMITS AND PREVAILING TORQUES DO NOT APPLY.
- 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", "V", "W" AND HEAD ANGLE DIMENSIONS.
- DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.

SECOND DASH NUMBER	▲ G GRIP		△ 9 GRIP RANGE				L. REF.										
	MIN	MAX	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	2.38	.156	3.97	.713	18.11	.829	21.06	-	-	-	-	-	-	-
-03	.219	5.56	.157	3.98	.219	5.57	.776	19.71	.892	22.66	.910	23.11	-	-	-	-	-
-04	.281	7.14	.220	5.58	.281	7.14	.838	21.29	.954	24.23	.972	24.69	1.189	30.20	1.261	32.03	32.03
-05	.344	8.74	.282	7.15	.344	8.74	.901	22.89	1.017	25.83	1.035	26.29	1.252	31.80	1.324	33.63	33.63
-06	.406	10.31	.345	8.75	.406	10.32	.963	24.46	1.079	27.41	1.097	27.86	1.314	33.38	1.386	35.20	35.20
-07	.469	11.91	.407	10.33	.469	11.92	1.026	26.06	1.142	29.01	1.160	29.46	1.377	34.98	1.449	36.80	36.80
-08	.531	13.49	.470	11.93	.531	13.49	1.088	27.64	1.204	30.58	1.222	31.04	1.439	36.55	1.511	38.38	38.38
-09	.594	15.09	.532	13.50	.594	15.09	1.151	29.24	1.267	32.18	1.285	32.64	1.502	38.15	1.574	39.98	39.98
-10	.656	16.66	.595	15.10	.656	16.67	1.213	30.81	1.329	33.76	1.347	34.21	1.564	39.73	1.636	41.55	41.55
-11	.719	18.26	.657	16.68	.719	18.27	1.276	32.41	1.392	35.36	1.410	35.81	1.627	41.33	1.699	43.15	43.15
-12	.781	19.84	.720	18.28	.781	19.84	1.338	33.99	1.454	36.93	1.472	37.39	1.689	42.90	1.761	44.73	44.73
-13	.844	21.44	.782	19.85	.844	21.44	1.401	35.59	1.517	38.53	1.535	38.99	1.752	44.50	1.824	46.33	46.33
-14	.906	23.01	.845	21.45	.906	23.02	1.463	37.16	1.579	40.11	1.597	40.56	1.814	46.08	1.886	47.90	47.90
-15	.969	24.61	.907	23.03	.969	24.62	1.526	38.76	1.642	41.71	1.660	42.16	1.877	47.68	1.949	49.50	49.50
-16	1.031	26.19	.970	24.63	1.031	26.19	1.588	40.34	1.704	43.28	1.722	43.74	1.939	49.25	2.011	51.08	51.08
-17	1.094	27.79	1.032	26.20	1.094	27.79	1.767	44.88	1.785	45.34	2.002	50.85	2.074	52.68	2.146	54.25	54.25
-18	1.156	29.36	1.095	27.80	1.156	29.37	1.829	46.46	1.847	46.91	2.064	52.43	2.136	54.25	2.208	56.13	56.13
-19	1.219	30.96	1.157	29.38	1.219	30.97	1.892	48.06	1.910	48.51	2.217	54.03	2.199	55.85	2.271	57.73	57.73
-20	1.281	32.54	1.220	30.98	1.281	32.54	1.954	49.63	1.972	50.09	2.189	55.60	2.261	57.43	2.333	59.03	59.03
-21	1.344	34.14	1.282	32.55	1.344	34.14	2.017	51.23	2.035	51.69	2.252	57.20	2.324	59.03	2.396	60.53	60.53
-22	1.406	35.71	1.345	34.15	1.406	35.72	2.079	52.81	2.097	53.26	2.314	58.78	2.386	60.60	2.458	62.03	62.03
-23	1.469	37.31	1.407	35.73	1.469	37.32	2.142	54.41	2.160	54.86	2.377	60.38	2.449	62.20	2.521	63.73	63.73
-24	1.531	38.89	1.470	37.33	1.531	38.89	2.204	55.98	2.222	56.44	2.439	61.95	2.511	63.78	2.583	65.43	65.43
-25	1.594	40.49	1.532	38.90	1.594	40.49	2.267	57.58	2.285	58.04	2.502	63.55	2.574	65.38	2.646	67.13	67.13
-26	1.656	42.06	1.595	40.50	1.656	42.07	2.329	59.16	2.347	59.61	2.564	65.13	2.636	66.95	2.708	68.63	68.63
-27	1.719	43.66	1.657	42.08	1.719	43.67	2.392	60.76	2.410	61.21	2.627	66.73	2.699	68.55	2.771	70.13	70.13
-28	1.781	45.24	1.720	43.68	1.781	45.24	2.454	63.33	2.472	62.79	2.689	68.30	2.761	70.13	2.833	71.63	71.63
-29	1.844	46.84	1.782	45.25	1.844	46.84	2.517	63.93	2.535	64.39	2.752	69.90	2.824	71.73	2.896	73.23	73.23
-30	1.906	48.41	1.845	46.85	1.906	48.42	2.579	65.51	2.597	65.96	2.814	71.48	2.886	73.30	2.958	74.83	74.83
-31	1.969	50.01	1.907	48.43	1.969	50.02	2.642	67.11	2.660	67.56	2.877	73.08	2.949	74.90	3.020	76.43	76.43
-32	2.031	51.59	1.970	50.03	2.031	51.59	2.704	68.68	2.722	69.14	2.939	74.65	3.011	76.48	3.083	78.03	78.03

▲ "G" TOLERANCES: FOR -05 & -06 SIZES: +.030 + 0.77
 -.010 (- 0.25mm);
 FOR -08 & -10 SIZES: +.040 + 1.02
 -.010 (- 0.25mm);
 FOR -12 SIZES: +.050 + 1.27
 -.010 (- 0.25mm).

PART CODE & EXAMPLE:

PLT1020 - 08 - 08

GRIP LENGTHS IN 1/16THS OF AN INCH (1.59mm)
 NOMINAL BODY DIAMETER IN 1/32NS OF AN INCH (0.79mm)

BASIC PART NUMBER, SELF LOCKING BLIND FASTENER.



TITLE:

VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE 5% CHROME STEEL (H-11) 100° FLUSH HEAD, SELF LOCKING

DRAWING NO:

PLT1020-()-()

DRAWN BY:

B. GEE

DRAWN DATE:

09/30/13

APPROVED BY:

CHECKED DATE:

PROPRIETARY AND CONFIDENTIAL:

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Alcoa CAGE CODE: 5M902

MONOGRAM CAGE CODE: 98524

DCN NO: 14-0711
 DCN DATE: 11/08/14

REV: H

SHEET 2 OF 2