

PART NUMBER	NOM DIA.	A THEO DIA.	A' A' DIA MIN.	C MAX.	D DIA.	E DIA. MAX.	F DRIVING FLATS	H REF.	J DIA. MAX.	K MAX.	M GAGE PROT.	R RAD.	S MAX.	W GAGE DIA.	BREAK-OFF LIMITS	PREVAILING TORQUE IN. LBS. MIN	DOUBLE SHEAR STRENGTH LBS. MIN	TENSILE STRENGTH LBS. MIN
PLT1093-05-()	.179	.2612 .2564	.241	.293	.1836	.1790	.086 .081	.034	.244	.272	.0178	.030	.010	.2195	+.088	1.0	4000	900
					.1826						.0153			.2193	000			
PLT1093-06-()	.214	.3016 .2966	.270	.328	.2186 .2176	.2140	.104 .099	.037	.300	.312	.0246 .0218	.030 .015	.015	.2440 .2438	+.088 000	1.5	6100	1400
PLT1093-08-()	.275	.3948 .3898	.363	.379	.2796 .2786	.2750	.135 .130	.050	.384	.351	.0271 .0242	.030 .015	.015	.3314 .3312	+.098 000	2.5	10100	2100
PLT1093-10-()	.326	.4739 .4689	.442	.448	.3306 .3296	.3260	.152 .147	.062	.427	.426	.0296 .0266	.040 .020	.015	.4047 .4045	+.103 000	3.5	13200	3600
PLT1093-12-()	.389	.5604 .5554	.529	.535	.3936 .3926	.3890	.185 .180	.072	.516	.495	.0321 .0290	.040 .020	.015	.4854 .4852	+.103 000	4.0	21100	5600

SECOND		$\sqrt{2}$	/8\	L REF.						
DASH	G GRIP	GRIP R	RANGE	PLT1093						
NUMBER		MIN	MAX	-05-()	-06-()	-08-()	-10-()	-12-()		
-	-	-	-	-	-	-	-	-		
-02	.156	.094	.156	.733	.853	-	-	-		
-03	.219	.157	.219	.795	.916	.944	1.096	-		
-04	.281	.220	.281	.858	.978	1.006	1.158	1.242		
-05	.344	.282	.344	.920	1.041	1.069	1.221	1.304		
-06	.406	.345	.406	.983	1.103	1.131	1.283	1.367		
-07	.469	.407	.469	1.045	1.166	1.194	1.346	1.429		
-08	.531	.470	.531	1.108	1.228	1.256	1.408	1.492		
-09	.594	.532	.594	1.170	1.291	1.319	1.471	1.554		
-10	.656	.595	.656	1.233	1.353	1.381	1.533	1.617		
-11	.719	.657	.719	1.295	1.416	1.444	1.596	1.679		
-12	.781	.720	.781	1.358	1.478	1.506	1.658	1.742		
-13	.844	.782	.844	1.420	1.541	1.569	1.721	1.804		
-14	.906	.845	.906	1.483	1.603	1.631	1.783	1.867		
-15	.969	.907	.969	1.545	1.666	1.694	1.846	1.929		
-16	1.031	.970	1.031	1.608	1.728	1.756	1.908	1.992		

SECOND	_	<u> </u>	/8	L REF.							
DASH NUMBER	G GRIP	GRIP R	RANGE	PLT1093							
NUMBER		MIN	MAX	-05-()	-06-()	-08-()	-10-()	-12-()			
-17	1.094	1.032	1.094		1.791	1.819	1.971	2.054			
-18	1.156	1.095	1.156		1.853	1.881	2.033	2.117			
-19	1.219	1.157	1.219		1.916	1.944	2.096	2.179			
-20	1.281	1.220	1.281		1.978	2.006	2.158	2.242			
-21	1.344	1.282	1.344		2.041	2.069	2.221	2.304			
-22	1.406	1.345	1.406		2.103	2.131	2.283	2.367			
-23	1.469	1.407	1.469		2.166	2.194	2.346	2.429			
-24	1.531	1.470	1.531	NOT AVAILABLE	2.228	2.256	2.408	2.492			
-25	1.594	1.532	1.594	IN -05 DIAMFTER	2.291	2.319	2.471	2.554			
-26	1.656	1.595	1.656	Di uneren	2.353	2.381	2.533	2.617			
-27	1.719	1.657	1.719		2.416	2.444	2.596	2.679			
-28	1.781	1.720	1.781		2.478	2.506	2.656	2.742			
-29	1.844	1.782	1.844		2.541	2.569	2.721	2.804			
-30	1.906	1.845	1.906		2.603	2.631	2.783	2.867			
-31	1.969	1.907	1.969		2.666	2.694	2.846	2.929			
-32	2.031	1.970	2.031		2.728	2.756	2.908	2.992			

DRAWING NO:

▲ "G" TOLERANCE: FOR -05 AND -06 SIZES +.030/-.010; FOR -08 AND -10 SIZES +.040/-.010; FOR -12 SIZES +.050/-.010.



a TriMas company

3423 SOUTH GARFIELD AVENUE COMMERCE, CALIFORNIA 90040 (323) 722-4760 FAX (323) 727-1029 VISU-LOK, FASTENER, BLIND
INTERNALLY THREADED, EXTERNAL SLEEVE
ALLOY STEEL
AND SELECTION OF THE ADDRESS OF THE

100° REDUCED FLUSH HEAD, SELF-LOCKING GROUND SHANK, 1/64" OVERSIZE

PROPRIETARY AND CONFIDENTIAL:

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TITLE:

AlcoaCAGE CODE:
5M902

PLT1093()-()-()





PROCUREMENT SPEC: ESCBB-2, CLASS I EXCEPT AS SPECIFIED HEREIN

MATERIAL:

NUT & SCREW: ALLOY STEEL: 4130 PER AMS-S-6758, 4140 PER AMS6382 OR AMS6349 OR 8740 PER AMS6322.

SLEEVE: CORROSION RESISTANT STEEL: 303 OR 304 PER AMS-QQ-S-763, AMS5639 OR AMS5641.

HEAT TREAT:

HEAT TREAT PER AMS2759 TO HRC 39-46. NUT & SCREW:

SLEEVE: AS REQUIRED FOR PERFORMANCE.

6 FINISH:

CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2. CADMIUM PLATE PER NAS672 IS PERMISSIBLE PROVIDED IT NUT & SCREW:

IS FOLLOWED BY A DICHROMATE POST TREATMENT PER AMS-QQ-P-416.

SLEEVE: PASSIVATE PER AMS2700. CADMIUM PLATE PER AMS-QQ-P-416, TYPE I, CLASS 3.

6 LUBRICANT: LUBRICANTS LISTED BELOW MAY BE APPLIED TO ANY OR ALL COMPONENTS IF REQUIRED FOR FASTENER

PERFORMANCE:

NUT: WWM CARBO-WAX, PARAFFIN WAX, AND/OR CETYL ALCOHOL PER MIL-L-87132.

SCREW & SLEEVE: DRY FILM LUBE PER AS5272 OR MIL-PRF-81329, WWM CARBO-WAX, PARAFFIN WAX, AND/OR CETYL ALCOHOL

PER AS87132.

PART CODE & EXAMPLE:



GENERAL NOTES:

CONCENTRICITY OF NUT HEAD CONICAL SURFACE TO "D" DIAMETER SHALL BE WITHIN .005 T.I.R. (EXCEPT OVER INDENTS). 1.

2. REMOVE 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" ABOVE THE INTERSECTION OF THE NUT NOSE ANGLE AND O.D. (MEAN GRIP OF FASTENER).

MANUFACTURER'S IDENTIFICATION: LETTER "N" DESIGNATES MONOGRAM/AEROSPACE FASTENERS.

LETTERS "VS" DESIGNATE VOI-SHAN.

PART MARKING: "1093"

5. HEAD MARKINGS ON NUT DEPRESSED .010 MAX. LOCATION OPTIONAL.



STANDARD FINISHES AND LUBRICANTS ARE SHOWN ABOVE. REFER TO SPECIFICATION ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBRICANTS, IF REQUIRED.



HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBERS.

PLT1093-06-4.5 INDICATES A NOMINAL GRIP LENGTH OF 4.5 SIXTEENTHS = 0.281"

THE GRIP RANGE FOR THESE HALF-GRIP SIZES WILL BE NOMINAL GRIP +.031"/-.030". THE BASIC "G" DIMENSION WILL BE NOMINAL GRIP +.031" AND THE OVERALL SCREW LENGTH "L" DIMENSION MAY

VARY AT MANUFACTURER'S OPTION.



STANDARD GRIP LENGTHS ARE 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 AS TABULATED DO NOT APPLY.



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.



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. 11

TITLE:



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VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE **ALLOY STEEL** 100° REDUCED FLUSH HEAD, SELF-LOCKING

GROUND SHANK, 1/64" OVERSIZE

	DRAWING NO:								
	PL1	-()							
	DRAWN BY:	DRAWN DATE:							
	B. GEE	12/10/13							
	APPROVED BY:	CHECKED DATE:							
	MONOGRAM CAGE CODE:	14-0748	REV:						
2	98524	11/12/14	SHEET 2 OF 2						

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