



PART NUMBER	NOM DIA	A	C MAX	D DIA	F DRIVING FLATS	H MAX	J DIA MAX	K MAX	N MIN	R RAD	HOLE SIZE	BREAK-OFF LIMITS	PREVAILING TORQUE IN. LBS. MIN	DOUBLE SHEAR STRENGTH LBS. MIN	TENSILE STRENGTH LBS. MIN
PLT220-05-(-)	.164	.250 .244	.268	.1645 .1625	.086 .081	.096	.244	.246	.272	.020 .010	.168 .165	+088 +000	1.0	3150	900
PLT220-06-(-)	.200	.312 .305	.303	.1990 .1970	.104 .099	.113	.300	.281	.340	.025 .015	.202 .199	+103 +015	1.5	4600	1400
PLT220-08-(-)	.260	.375 .367	.354	.2600 .2580	.135 .130	.135	.384	.325	.409	.025 .015	.263 .260	+130 +032	2.5	7900	2100
PLT220-10-(-)	.312	.437 .429	.423	.3115 .3095	.152 .147	.160	.427	.390	.479	.030 .015	.315 .312	+130 +027	3.5	11350	3600
PLT220-12-(-)	.375	.500 .491	.510	.3745 .3725	.185 .180	.190	.516	.470	.548	.030 .015	.378 .375	+130 +027	4.0	16450	5600

SECOND DASH NUMBER	G GRIP	GRIP RANGE		L REF.				
		MIN	MAX	PLT220				
				-05-(-)	-06-(-)	-08-(-)	-10-(-)	-12-(-)
-01	.093	.031	.093	.733	.874	-	-	-
-02	.156	.094	.156	.795	.936	1.006	1.158	-
-03	.219	.157	.219	.858	.999	1.069	1.221	1.367
-04	.281	.220	.281	.920	1.061	1.131	1.283	1.429
-05	.344	.282	.344	.983	1.124	1.194	1.346	1.492
-06	.406	.345	.406	1.045	1.186	1.256	1.408	1.554
-07	.469	.407	.469	1.108	1.249	1.319	1.471	1.617
-08	.531	.470	.531	1.170	1.311	1.381	1.533	1.679
-09	.594	.532	.594	1.233	1.374	1.444	1.596	1.742
-10	.656	.595	.656	1.295	1.436	1.506	1.658	1.804
-11	.719	.657	.719	1.358	1.499	1.569	1.721	1.867
-12	.781	.720	.781	1.420	1.561	1.631	1.783	1.929
-13	.844	.782	.844	1.483	1.624	1.694	1.846	1.992
-14	.906	.845	.906	1.545	1.686	1.756	1.908	2.054
-15	.969	.907	.969	1.608	1.749	1.819	1.971	2.117
-16	1.031	.970	1.031	1.670	1.811	1.881	2.033	2.179

SECOND DASH NUMBER	G GRIP	GRIP RANGE		L REF.				
		MIN	MAX	PLT220				
				-05-(-)	-06-(-)	-08-(-)	-10-(-)	-12-(-)
-17	1.094	1.032	1.094	1.874	1.944	2.096	2.242	
-18	1.156	1.095	1.156	1.936	2.006	2.158	2.304	
-19	1.219	1.157	1.219	1.999	2.069	2.221	2.367	
-20	1.281	1.220	1.281	2.061	2.131	2.283	2.429	
-21	1.344	1.282	1.344	2.124	2.194	2.346	2.492	
-22	1.406	1.345	1.406	2.186	2.256	2.408	2.554	
-23	1.469	1.407	1.469	2.249	2.319	2.471	2.617	
-24	1.531	1.470	1.531	2.311	2.381	2.533	2.679	
-25	1.594	1.532	1.594	2.374	2.444	2.596	2.742	
-26	1.656	1.595	1.656	2.436	2.506	2.658	2.804	
-27	1.719	1.657	1.719	2.499	2.569	2.721	2.867	
-28	1.781	1.720	1.781	2.561	2.631	2.783	2.929	
-29	1.844	1.782	1.844	2.624	2.694	2.846	2.992	
-30	1.906	1.845	1.906	2.686	2.756	2.908	3.054	
-31	1.969	1.907	1.969	2.749	2.819	2.971	3.117	
-32	2.031	1.970	2.031	2.811	2.881	3.033	3.179	

▲ "G" TOLERANCES: FOR -05 & -06 SIZES +.030/-0.10; FOR -08 SIZE +.040/-0.10; FOR -12 SIZES +.050/-0.10.



PROCUREMENT SPEC: ESCBB-2 CLASS II.

MATERIAL: NUT, SCREW, & SLEEVE: CORROSION RESISTANT STEEL, TYPE A-286 PER AMS5731, AMS5732 OR AMS5737.

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

SLEEVE: SOLUTION HEAT TREATED.

FINISH: NUT, SCREW, & SLEEVE: PASSIVATE PER AMS2700.

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: PLT220 - 05 - 05

GRIP LENGTHS IN 1/16THS
 NOMINAL BODY DIAMETER AS TABULATED
 BASIC PART NUMBER, SELF LOCKING BLIND FASTENER

GENERAL NOTES:

1. OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NOT EXCEED MAXIMUM "D" 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 ABOVE THE INTERSECTION OF THE NUT NOSE ANGLE AND O.D. (MEAN GRIP OF FASTENER).
 4. THE PREVAILING TORQUE SHALL CONFORM TO THE VALUES AS TABULATED, WHEN TESTED IN ACCORDANCE WITH SPECIFICATION ESCBB-2. HOWEVER, PREVAILING TORQUES FOR THE PLT220-05-01 AND PLT220-06-01 SHALL BE RECORDED THRU A ROTATION OF ONLY 360° OF THE NUT.
 5. MANUFACTURER'S IDENTIFICATION: (REFER TO NOTE 7 FOR INTERIM IDENTIFICATION)
 LETTER "N" DESIGNATES MONOGRAM AEROSPACE FASTENERS.
 LETTERS "VS" DESIGNATE VOI-SHAN.
 6. HEAD MARKINGS ON NUT DEPRESSED .010 MAX.
 7. THE PRODUCT DESCRIBED BY THIS DRAWING IS "EQUIVALENT TO" AND "INTERCHANGEABLE WITH" THE MANUFACTURER'S PRODUCT LISTED BELOW EXCEPT THE HEAD MARKING AND SELF-LOCKING FEATURE. EXISTING STOCK MAY BE REWORKED TO COLOR AND HEAD MARKING MAY BE AS SHOWN BELOW:
 MONOGRAM...: PL164A-PL375A SERIES MARKING: "O" AND "N" OVERSTAMPED "L" OR "SL".
 VOI-SHAN...: VA 407 SERIES MARKING: "VS", "O", AND "SL".
 8. STANDARD FINISHES AND LUBRICANTS ARE SHOWN ABOVE. REFER TO SPECIFICATION ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBRICANTS, IF REQUIRED.
 9. HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBERS.
- EXAMPLE: PLT220-06-4.5 INDICATES A NOMINAL GRIP LENGTH OF 4.5 SIXTEENTHS = .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.
10. 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.
 11. 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.
 12. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.



TITLE: VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE A-286 STEEL PROTRUDING HEX HEAD, SELF LOCKING

DRAWING NO: PLT220-()-()	
DRAWN BY: G.MARTINEZ	DRAWN DATE: 06-22-13
APPROVED BY:	CHECKED DATE:

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Alcoa CAGE CODE: 5M902	MONOGRAM CAGE CODE: 98524	ECN NO: 14-0677	REV: R
		ECN DATE: 11/04/14	SHEET 2 OF 2