

| PART NUMBER | NOM DIA. | A THEO DIA. | A' DIA. MIN. | C MAX. | D DIA. | F DRIVING FLATS | H REF. | J DIA. MAX. | K MAX. | 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 |
|--------------|----------|--------------|--------------|--------|----------------|-----------------|--------|-------------|--------|----------------|--------------|--------|----------------|--------------|------------------|--------------------------------|--------------------------------|---------------------------|
| PLT112-06-() | .210 | .385 .378 | .342 | .328 | .2105 .2095 | .104 .099 | .070 | .300 | .312 | .0299 .0259 | .030 .015 | .015 | .3147 .3143 | .214 .211 | +0.15 -.073 | 1.5 | 5240 | 1400 |
| PLT112-08-() | .270 | .507 .499 | .463 | .379 | .2705 .2695 | .135 .130 | .096 | .384 | .351 | .0353 .0307 | .030 .015 | .015 | .4245 .4241 | .274 .271 | +0.10 -.078 | 2.5 | 9000 | 2100 |
| PLT112-10-() | .320 | .635 .626 | .577 | .448 | .3205 .3195 | .152 .147 | .128 | .427 | .426 | .0409 .0357 | .040 .020 | .020 | .5389 .5385 | .324 .321 | +0.10 -.083 | 3.5 | 12000 | 3600 |
| PLT112-12-() | .382 | .762 .752 | .696 | .535 | .3825 .3815 | .185 .180 | .154 | .516 | .495 | .0466 .0407 | .040 .020 | .023 | .6532 .6528 | .386 .383 | +0.10 -.093 | 4.0 | 19500 | 5600 |

| SECOND DASH NUMBER | G GRIP | GRIP RANGE | | L REF. | | | |
|--------------------|--------|------------|-------|--------|--------|--------|--------|
| | | MIN | MAX | PLT112 | | | |
| | | | | -06-() | -08-() | -10-() | -12-() |
| - | - | - | - | - | - | - | - |
| -02 | .156 | .094 | .156 | .853 | - | - | - |
| -03 | .219 | .157 | .219 | .916 | .944 | - | - |
| -04 | .281 | .220 | .281 | .978 | 1.006 | 1.158 | 1.242 |
| -05 | .344 | .282 | .344 | 1.041 | 1.069 | 1.221 | 1.304 |
| -06 | .406 | .345 | .406 | 1.103 | 1.131 | 1.283 | 1.367 |
| -07 | .469 | .407 | .469 | 1.166 | 1.194 | 1.346 | 1.429 |
| -08 | .531 | .470 | .531 | 1.228 | 1.256 | 1.408 | 1.492 |
| -09 | .594 | .532 | .594 | 1.291 | 1.319 | 1.471 | 1.554 |
| -10 | .656 | .595 | .656 | 1.353 | 1.381 | 1.533 | 1.617 |
| -11 | .719 | .657 | .719 | 1.416 | 1.444 | 1.596 | 1.679 |
| -12 | .781 | .720 | .781 | 1.478 | 1.506 | 1.658 | 1.742 |
| -13 | .844 | .782 | .844 | 1.541 | 1.569 | 1.721 | 1.804 |
| -14 | .906 | .845 | .906 | 1.603 | 1.631 | 1.783 | 1.867 |
| -15 | .969 | .907 | .969 | 1.666 | 1.694 | 1.846 | 1.929 |
| -16 | 1.031 | .970 | 1.031 | 1.728 | 1.756 | 1.908 | 1.992 |

| SECOND DASH NUMBER | G GRIP | GRIP RANGE | | L REF. | | | |
|--------------------|--------|------------|-------|--------|--------|--------|--------|
| | | MIN | MAX | PLT112 | | | |
| | | | | -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 | 2.228 | 2.256 | 2.408 | 2.492 |
| -25 | 1.594 | 1.532 | 1.594 | 2.291 | 2.319 | 2.471 | 2.554 |
| -26 | 1.656 | 1.595 | 1.656 | 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 | 2.658 | 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 |

▲ "G" TOLERANCE: -06 SIZES +.030/-0.010; FOR -08 & -10 SIZES +.040/-0.010; FOR -12 SIZES +.050/-0.010.



TITLE:
 VISU-LOK, FASTENER, BLIND
 INTERNALLY THREADED, EXTERNAL SLEEVE
 ALLOY STEEL
 100° FLUSH HEAD, SELF LOCKING, GROUND SHANK
 SPECIAL OVERSIZE

DRAWING NO:
 PLT112-(-)(-)

DRAWN BY: G.MARTINEZ DRAWN DATE: 07-10-13

APPROVED BY: CHECKED DATE:

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Alcoa
 CAGE CODE:
 5M902

MONOGRAM
 CAGE CODE:
 98524

ECN NO:
 14-0651
 ECN DATE:
 11/01/14

REV:
 F
 SHEET 1 OF 2



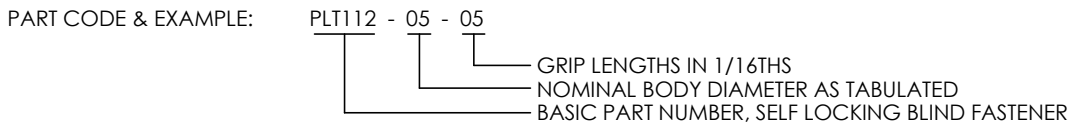
PROCUREMENT SPEC: ESCBB-2 CLASS I.

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: NUT & SCREW: HEAT TREAT PER AMS2759. APPROXIMATELY 180,000 - 200,000 PSI TENSILE (HRC 39-43).
 SLEEVE: AS REQUIRED FOR PERFORMANCE.

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

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



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. HEAD MARKINGS ON NUT DEPRESSED .010" MAX. LOCATION OPTIONAL.
5. STANDARD FINISHES AND LUBES ARE SHOWN ABOVE. REFER TO ESCBB-4 FOR SPECIAL FINISHES AND/OR LUBES, IF REQUIRED.
6. CONCENTRICITY OF NUT HEAD CONICAL SURFACE TO "D" DIAMETER SHALL BE WITHIN .005" T.I.R., EXCEPT OVER INDENTATIONS.
7. 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.
8. 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.
9. HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBERS.
 EXAMPLE: PLT112-06-4.5 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.
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", "V", "W" AND HEAD ANGLE DIMENSIONS.
11. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.



TITLE: VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE ALLOY STEEL 100° FLUSH HEAD, SELF LOCKING, GROUND SHANK SPECIAL OVERSIZE

| | |
|--------------------------------------|-------------------------|
| DRAWING NO: PLT112-()-() | |
| DRAWN BY: G.MARTINEZ | DRAWN DATE: 07-10-13 |
| APPROVED BY: | CHECKED DATE: |

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| Alcoa CAGE CODE: 5M902 | MONOGRAM CAGE CODE: 98524 | ECN NO: 14-0651 | REV: F |
| | | ECN DATE: 11/01/14 | SHEET 2 OF 2 |