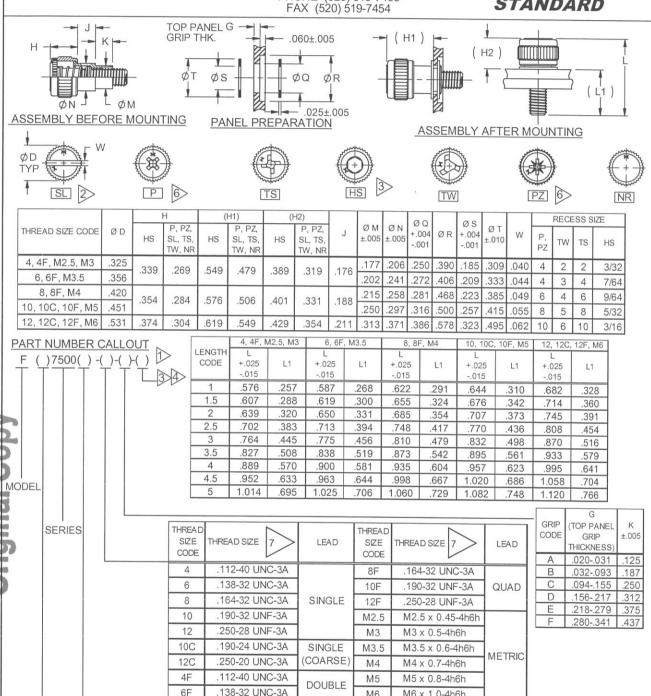




CURRENT DESIGN ACTIVITY CAGE CODE 0HDW7 AFSR TUCSON OPERATIONS 3724 EAST COLUMBIA STREET TUCSON, ARIZONA 85714 PHONE (520) 519-7400

TURN-LOC®

ENGINEERING STANDARD



| С | ODE | FINISH |
|---|-----|--------|
| N | ONE | CLEAR |
| Г | В | BLACK |

| _ | RECESS CODE | DRIVING RECESS AND SPECIFICATION | RECESS CODE | DRIVING RECESS AND SPECIFICATION |
|----|-------------|----------------------------------|-------------|----------------------------------|
| 2> | | SLOT RECESS PER ANSI B18.6.3 | PZ | RECESS PER TYPE 1A ANSI B18.6.3 |
| | HS | HEX SOCKET RECESS PER ANSI B18.3 | TS | RECESS PER MS 33781 |
| | NR | NO RECESS | TW | RECESS PER NAS 4000 |
| 6> | Р | CROSS RECESS PER MS 9006 | | |
| | | | | |

M6

M6 x 1.0-4h6h

PER DCN 12953, CHANGED FROM Alcoa Fastening Systems AND AFS TO Alcoa Fastening Systems & Rings AND AFSR ISSU

| | 3/31/2015 | TURN-LOC, LOW PROFILE, |
|------|-----------|------------------------|
| PAGE | 1 OF 2 | |

| | TOLERANCE UNLESS OTHERWISE NOTED: | DRAWN BY | J. SCHLOBOHM | - | | |
|---|--------------------------------------|------------|-------------------|---|--|--|
| - | .X = ±.05 .XX = ±.02 | CHECKED BY | SIGNATURE ON FILE | | | |
| | .XXX = ±.015 ANGLES ±0.5° | F()7500 | | | | |
| | DIMENSIONS IN INCHES | | S-0209 | - | | |

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Alcoa **Fastening** Systems & Rings



CURRENT DESIGN ACTIVITY CAGE CODE 0HDW7 AFSR TUCSON OPERATIONS 3724 EAST COLUMBIA STREET TUCSON, ARIZONA 85714

TURN-LOC®

ENGINEERING

| | | | | | | | | | | | - | | | | 20) 5 | | -740 454 | 0 | | | | | 5 | ST | 4/ | VD. | AR | |
|------|---|------------------------------|----|-------|-----------|---------------|-------|-------|-------|-----------|-------|------|------|--------------|--------|-------|-------------|---|---|------------------------------------|---|-----|---|-----|----|-----|----|--|
| | | | | | | | | | | INST | ALLA | TION | - AV | AILA | BILITY | ′ TAI | BLE | | | | | | | | | | - | |
| GRIP | | 4, 4F, M2.5, M3, 6, 6F, M3.5 | | | | | | | | 8, 8F, M4 | | | | | | | | | | 10, 10C, 10F, M5, 12, 12C, 12F, M6 | | | | | | | | |
| CODE | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | |
| Α | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| В | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| С | 0 | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| D | 0 | 0 | 0 | | | | | | | 0 | 0 | 0 | | | | | | | 0 | 0 | | | | | | | | |
| E | 0 | 0 | 0 | 0 | | | | | | 0 | 0 | 0 | | | | | | | 0 | 0 | 0 | | | | | | | |
| F | 0 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | | | | 0 | 0 | 0 | 0 | | | | | | |
| | 0 | | | | | AVAIL RMIN | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | ()OR | ARB | OR P | RESS | FOR | MING | тоо | L | | | | | | | | | | | | | |
| | | | M | TERL | <u>AL</u> | | | | | | | | | | | | | | | | | | | | | | | |
| | | | ST | UD: | HS, I | NR, P, | PZ, | & SLC | OT RE | ECES | SES | | | | | | | | | | | | | | | | | |
| | | | | | ALI | SIZE | S - (| CRES | PER | AST | Л-A-4 | 93 C | RAN | IS 56 | 36 (3 | 02) | | | | | | | | | | | | |
| | | | ST | I ID: | TC A | ND T | A/ DE | CECC | EC | | | | | | | | | | | | | | | | | | | |

STUD: TS AND TW RECESSES

ALL SIZES - CRES PER AMS 5737 (A-286), HEAT TREAT

TO 160 KSI MIN. ULTIMATE TENSILE STRENGTH

KNOB: ALUMINUM ALLOY PER QQ-A-225/8, OR AMS 4117 (6061), OR EQUIVALENT SLEEVE: ALUMINUM ALLOY PER QQ-A-225/8, OR AMS 4117 (6061), OR EQUIVALENT

SPRING: CRES PER ASTM-A313 OR AMS 5688 (302)

WASHERS: CRES PER AMS 5901, AMS 5517 OR AMS 5519 (301)

FINISH

NONE: STUD, SPRING & WASHERS: PASSIVATE PER AMS2700 KNOB & SLEEVE: ANODIZE PER MIL-A-8625, TYPE I I, CLASS I

8>

BLACK OXIDE PER MIL-DTL-13924, CLASS 4 (300 SERIES) BLACK OXIDE PER MIL-DTL-13924, CLASS 3 (A-286) KNOB: BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2

NOTES UNLESS SPECIFIED OTHERWISE:

> LETTERS AT THE END OF PART NUMBER DESIGNATE SPECIAL ASSEMBLIES: DL - ASSEMBLIES WITH DRI LUBE THREADS PER AS5272 PL - ASSEMBLIES WITH PATCH LOCK PER MIL-F-18240

2> NO CODE REQUIRED FOR SLOTTED HEADS.

3> WHEN USING THE HEX SOCKET CONFIGURATION, ADD .070 TO "L" LENGTH.

4> FOR LONGER LENGTHS, ADD .125 INCREMENTS PER LENGTH CODE

5> THREAD SIZE CODE

6> RECESS IS ONE SIZE SMALLER THAN NOMINAL SIZE REQUIRED FOR 100° FLAT HEAD.

-3A THREADS PER ASME B1.1. "M" THREADS PER ANSI/ASME B1.13M

COMPONENTS ARE FINISHED PRIOR TO THE ASSEMBLY PROCESS. DISCOLORATION OF THE BLACK ANODIZE MAY OCCUR ON THE CRIMPED PORTION OF THE KNOB DURING ASSEMBLY. A HIGH-ADHESION BLACK PAINT IS 8> PERMITTED FOR TOUCH-UP AFTER ASSEMBLY.

INSTALLATION TOOLS: () = THREAD SIZE CODE

ARBOR PRESS TOOL HW7600-(), REMOVAL ADAPTER TOOL FN7505-(), NOSE PIECE HN7513-(), PULLER HP7523-(), HANDLE ASSEMBLY TA7533;

COMPLETE HAND TOOL ASS'Y: H8603-() (INCLUDES NOSE PIECE, PULLER & HANDLE)

| AE | PER DO | CN 12953, CHANGED FROM Alcoa Fastening Systems AND AFS to a Fastening Systems & Rings AND AFSR | TOLERANCE UNLESS OTHERWISE NOTED: | DRAWN BY | J. SCHLOBOHM |
|---------|-----------|--|--------------------------------------|------------|-------------------|
| _ | _ | | .X = ±.05 .XX = ±.02 | CHECKED BY | SIGNATURE ON FILE |
| ISSUED | 4/27/2004 | TURN-LOC®, LOW PROFILE, | .XXX = ±.015 | | E/ \7500 |
| REVISED | 3/31/2015 | | ANGLES ±0.5° | | F()7500 |
| PAGE | 2 OF 2 | OPTIONAL RECESS, ALUM KNOB, .031 RADIAL FLOAT | DIMENSIONS IN INCHES | | S-0209 |