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THIS DRAWING, THE STRUCTURAL DESIGN DISCLOSED THEREIN AND THE TECHNICAL

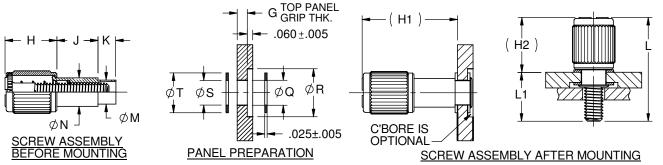
Alcoa Fastening Systems & Rings



CURRENT DESIGN ACTIVITY
CAGE CODE 0HDW7
AFSR TUCSON OPERATIONS
3724 EAST COLUMBIA STREET
TUCSON, ARIZONA 85714
PHONE (520) 519-7400
FAX (520) 519-7454

TURN-LOC®

ENGINEERING STANDARD



ØD W









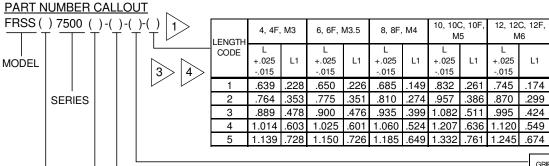
THREAD







			Н		(H1)		(H2)		αM	ØN	øQ		øs			RECESS SIZE			
THREAD SIZE CODE	ØD	HS	P, PZ, SL, TS, TW, NR	HS	P, PZ, SL, TS, TW, NR	HS	P, PZ, SL, TS, TW, NR		Ø M ±.005	Ø N ±.005	001	ØR	+.004 001	Ø T ±.010	W	P, PZ	TW	TS	HS
4, 4F, M3	.325	.444	.374	.746	.676	.481	.411	.265	.177	.206	.250	.390	.185	.309	.040	4	2	2	3/32
6, 6F, M3.5	.356	.449	.379	.764	.694	.494	.424	.280	.202	.241	.272	.406	.209	.333	.044	4	3	4	7/64
8, 8F, M4	.420	.559	.489	.986	.916	.606	.536	.385	.215	.258	.281	.468	.223	.385	.049	6	4	6	9/64
10, 10C, 10F, M5	.451	.599	.529	1.061	.991	.641	.571	.427	.250	.297	.316	.500	.257	.415	.055	8	5	8	5/32
12, 12C, 12F, M6	.531	.604	.534	1.066	.996	.641	.571	.428	.313	.371	.386	.578	.323	.495	.062	10	6	10	3/16



			SIZE CODE	THREAD SIZE 5	LEAD	SIZE CODE	THREAD SIZE 5	LEAD
			4	.112-40 UNC-3A		8F	.164-32 UNC-3A	
			6	.138-32 UNC-3A		10F	.190-32 UNF-3A	QUAD
			8	.164-32 UNC-3A	SINGLE	12F	.250-28 UNF-3A	
			10	.190-32 UNF-3A		МЗ	M3 x 0.5-4h6h	
			12	.250-28 UNF-3A		M3.5	M3.5 x 0.6-4h6h	
CODE	FINISH		10C	.190-24 UNC-3A	SINGLE	M4	M4 x 0.7-4h6h	METRIC
			12C	.250-20 UNC-3A	(COARSE)	M5	M5 x 0.8-4h6h	Ĭ
NONE	CLEAR		4F	.112-40 UNC-3A	DOUBLE.	M6	M6 x 1.0-4h6h	Ī I
В	BLACK		6F	.138-32 UNC-3A	DOUBLE		•	

THREAD

GRIP CODE	G (TOP PANEL GRIP THICKNESS)	K ±.005
Α	.020031	.125
В	.032093	.187
С	.094155	.250
D	.156217	.312
Е	.218279	.375
F	.280341	.437

_	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 NASM 33781
\setminus	NR	NO RECESS	TW	RECESS PER NAS 4000
6>	Р	CROSS RECESS PER NASM 9006		

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

ISSUED	9/28/2004								
REVISED	3/31/2015								
PAGE	1 OF 2								

TURN-LOC®, HIGH PROFILE, OPTIONAL RECESS, ALUM KNOB, .031 RADIAL FLOAT

TOLERANCE UNLESS OTHERWISE NOTED:	
$.X = \pm .05$ $.XX = \pm .02$	(
.XXX = ±.015	Г
ANGLES ±0.5°	
DIMENSIONS IN INCHES	Г

	S-1051
FF	RSS7500
CHECKED BY	SIGNATURE ON FILE
DRAWN BY	J. SCHLOBOHM

NO

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ISSUED

REVISED

PAGE

2 OF 2

Alcoa Fastening Systems &



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

TURN-LOC® FNGINFFRING

S-1051

DIMENSIONS IN INCHES

3ys	rem	15 6	<u> </u>	KIN	gs	.						ΉC	NE XX ((52	20) !	519	-740	00	•						4 <i>N</i> /				
		•								AVAIL	ABIL	.ITY	TABLE																
	GRIP		4, 41	-, M3			6, 6F	, M3.5	5		8	3, 8F,	, M4			10, 10	OC, 10	F, M	5	1	12, 12	2C, 12	2F, M6						
	CODE	1	2	3 4	5	1	2	3 4	4	5 1	2	3	4	5	1	2	3	4	5	1	2	3	4	5					
	A B							t		0										0									
	C D	0				0				0				H	0					0	0								
	E F	0	0	0		0	0			0	0	_			0	0				0 0	0	0							
		0	ASS	EMBL	IES N	OT AV	/AILAB	LE .		<u> </u>																			
							ASSE				LID V		DDOT	חוחר	- DEI	0.44	N 41N 11N 4	II IN 4 -	TOD	D 4 N I	-, -,	IICI/A	IECC)						
		ш	A55	FMBL	IES IN	JIFU	JLLY RE	ETRAC	JIAI	BLE (ST	OD V	VILL	PROT	KUDE	: BEL	LOW	MINIM	IUW	IOP	PANE	EL IF	IICKN	NESS)						
N	S S S W <u>E</u> IONE: S B: S E	TUD: NOB LEEV PRING (ASH STUD (NOE STUD STUD SLAC BLAC	HS, ALL TS ALL TO:: 60 (E:: 3 G:: 3 ERS: K O) K O)	SIZE AND SIZE 160 h 61 A 804 C 30 2 C 30 30 KING, ODIZ ASH KIDE	ES - (TW ES - / (SIM LUM) CRES RES 1 CR SLE ERS PER PER	REC REC A-28 MIN. U INUM S PE PEF ES F EEVE E MIL I MIL	CRES ESSI 6 CRI JLTIM I ALL R AM R AST PER I E & W IIL-A-I -DTL-	ES PEFES PIATE OY PIS QUEEN PASTINAL PEREN PASTINAL PEREN PASTINAL PEREN PASTINAL PEREN PE	RAPER TEPEFQ-S 313 MA IER 5, T	SSES STM-/ R AMS ENSILE R AMS 6-763 (3 OR A 666 C RS: PA YPE II CLAS CLAS -8625,	A-49 573 S S S T QC DR A S SI , CL S 4 S 3	37, F RE: 2-A-3 AMS 5 56 MMS VAT (30 (4-2	HEA ⁻ NGT 225/8 8 5563 88 6 551 TE P S I	FTR H 3, OF 39 9 OF ER F	EAT R AM R EC AMS	- MS 4 QUIV	/ALE		REC	QUIV	/ALE	≣NT							
NOTE	S: ETTEF DL -	RS A	T TH	IE E	ND (OF I	PAR ⁻	T NL	JM	BER	DE	SIG	ana [.]	TE S	SPE	ECIA	AL A	SS	ΕM	BLI	ES								
	DL - PL -	ASS ASS	EME	BLIE:	S W S W	ITH ITH	DRI PAT	CH	BE LO	THRE OCK P	ER	OS MI	PEF L-D	R AS	3527 1824	72 40													
2> N	o coi	DE R	EQI	JIRE	DF	OR	SLO	TTE	DΙ	HEAD	s																		
3> W	/HEN I	JSIN	IG T	HE I	HEX	SO	CKE	T C	ON	IFIGU	RA	TIC	ON, A	ADE	0. 0	70 1	ГО "	L" L	LEN	IGT	Ή.								
4> F	OR LC	NGE	RL	ENG	SHT	S, A	DD .	125	IN	CREN	ΛEΝ	NTS	S PE	RL	EN(GTH	H CC	ODE	Ξ										
5>-3	BA THE	REA	OS P	ER.	ASN	ΛE E	31.1.	"M"	TH	IREA	DS	PE	RA	NSI	/AS	ME	B1.	131	И.										
6> R	ECES	S IS	ONE	E SIZ	ZE S	MAI	LLEF	R TH	IA۱	NON N	ΜIN	IAL	SIZ	ΕR	EQ	UIR	ED	FO	R 1	00 9	° FL	ΑТ	HEA	D.					
└ BL	OMPO -ACK / HIGH-	ANO	DIZE	E MA	Y C	CC	UR C	T NC	HE	E CRI	MΡ	ΕD	PO	RTI	ON	OF	THE	ΕK	NO	ВΕ)UR	RINC	3 AS						
INSTA	ALLAT	ION	TOC	LS:	()	IND	ICAT	ΓES	Τŀ	HREA	D S	SIZE	E CC	DE															
PULL	OR PRI ER HP PLETE	7520	3-()	, HA	NDL	_E A	SSE	MBL	LY	TA75	33:							•						HN75	13-()),			
M P	ER DC	N 12 a Fa	953, sten	CH.	ANG Syste	ED ems	FRO & Rii	M A	lco AN	a Fas ID AF	ten SR	ing	Sys	tem	s Al	ND .	AFS	;			TO X.	DLERA THER = :	WISE N ±.05	JNLESS NOTED:	DRAW			LOBOH	IM ON FILE
VISED 3/			(ЭРТІ	IONI	AI F				C [®] , HIO LUM K					עום.	l F	I ∩∆	T			XX. IA	XX = NGLE	±.015 S ±0.5					750	0
GE 2	OF 2	ı	`	''	. J. W			,				_,			,	'		• •			LDIN	MENS	IONS IN	INCHES	:1		S-10	:D	