



**TYPICAL INSTALLATION**

**TABLE I**

PART NUMBER	Ø A		Ø D		Ø E MAX		F WRENCH FLATS		( G )		H		( L )		R. R MAX		( T ) HEX ACROSS FLATS		Z MAX	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
MBF2130-5-( )	.359 .329	9.12 8.36	.167 .166	4.24 4.21	.1640	4.17	.085 .080	2.16 2.03	.017	0.43	.060 .053	1.52 1.35	.512	13.00	.030	0.76	.375	9.52	.030	0.76
MBF2130-6-( )	.421 .391	10.69 9.93	.201 .200	5.11 5.08	.1985	5.04	.113 .108	2.87 2.74	.027	0.68	.070 .063	1.78 1.60	.575	14.61	.030	0.76	.375	9.52	.030	0.76
MBF2130-7-( )	.421 .391	10.09 9.93	.230 .229	5.84 5.81	.2275	5.78	.121 .116	3.07 2.95	.035	0.89	.070 .063	1.78 1.60	.635	16.13	.030	0.76	.375	9.52	.030	0.76
MBF2130-8-( )	.546 .516	13.87 13.11	.262 .261	6.66 6.63	.2595	6.59	.135 .130	3.43 3.30	.055	1.40	.085 .078	2.16 1.98	.700	17.78	.030	0.76	.375	9.52	.040	1.02
MBF2130-9-( )	.546 .516	13.87 13.11	.292 .291	7.42 7.39	.2895	7.35	.152 .147	3.86 3.73	.065	1.65	.085 .078	2.16 1.98	.815	20.70	.030	0.76	.500	12.70	.040	1.02
MBF2130-10-( )	.640 .610	16.26 15.49	.314 .313	7.98 7.95	.3110	7.90	.152 .147	3.86 3.73	.070	1.78	.105 .098	2.67 2.49	.892	22.66	.040	1.02	.500	12.70	.045	1.14
MBF2130-11-( )	.640 .610	16.26 15.49	.346 .345	8.79 8.76	.3433	8.72	.185 .180	4.70 4.57	.075	1.90	.105 .098	2.67 2.49	.941	23.90	.040	1.02	.500	12.70	.045	1.14
MBF2130-12-( )	.765 .735	19.43 18.67	.377 .376	9.58 9.55	.3740	9.50	.185 .180	4.70 4.57	.080	2.03	.125 .118	3.18 3.00	1.090	27.69	.040	1.02	.500	12.70	.045	1.14

**TABLE I (CONTINUED)**

PART NUMBER	MIN AVAILABLE GRIP DASH NO.	INSTALLED DIMENSIONS								MECHANICAL PROPERTIES					
		RECOM. HOLE SIZE		Ø J MIN		K MAX		BREAK-OFF LIMITS		TENSILE STRUCTURAL FAILURE MIN		DOUBLE SHEAR MIN		LOCKING TORQUE MIN	
		INCH	mm	INCH	mm	INCH	mm	INCH	mm	LBS	N	LBS	N	IN-LBS	N-m
MBF2130-5-( )	-100	.166 .165	4.22 4.19	.250	6.35	.300	7.62	+1.03 -0.00	+2.62 -0.00	900	4000	3770	16770	1.0	0.113
MBF2130-6-( )	-100	.200 .199	5.08 5.05	.300	7.62	.350	8.89	+1.03 -0.00	+2.62 -0.00	1400	6230	5500	24460	1.5	0.170
MBF2130-7-( )	-100	.229 .228	5.82 5.79	.350	8.89	.400	10.16	+1.03 -0.00	+2.62 -0.00	1600	7120	7250	32250	2.0	0.226
MBF2130-8-( )	-150	.261 .260	6.63 6.60	.400	10.16	.450	11.43	+1.03 -0.00	+2.62 -0.00	2100	9340	9400	41810	2.5	0.282
MBF2130-9-( )	-150	.291 .290	7.39 7.37	.450	11.43	.500	12.70	+1.03 -0.00	+2.62 -0.00	2600	11565	11800	52490	3.0	0.339
MBF2130-10-( )	-150	.313 .312	7.95 7.92	.475	12.06	.550	13.97	+1.03 -0.00	+2.62 -0.00	3600	16010	13600	60490	3.5	0.400
MBF2130-11-( )	-150	.345 .344	8.76 8.74	.525	13.33	.575	14.60	+1.03 -0.00	+2.62 -0.00	4400	19570	16600	73840	4.0	0.452
MBF2130-12-( )	-150	.376 .375	9.55 9.52	.575	14.60	.625	15.87	+1.03 -0.00	+2.62 -0.00	5000	22240	19700	87630	4.0	0.452

**APPLICABLE SPECIFICATIONS:**

PROCUREMENT SPECIFICATION:	MBF2000
SPECIAL LUBE AND FINISH:	MBF2002
INSTALLATION AND INSPECTION SPECIFICATION:	MBF2003
PART NUMBER ASSIGNMENT:	MBF2005

**MATERIAL AND HEAT TREAT:**

NUT:	CRES A286 PER THE CHEMICAL REQUIREMENTS OF AMS5732. HEAT TREATED AS REQUIRED FOR PERFORMANCE.
SCREW:	INCONEL 718 PER AMS5662. HEAT TREATED TO 125 KSI ULTIMATE SHEAR STRENGTH.
SLEEVE:	CRES 304 PER AMS5639. HEAT TREATED AS REQUIRED FOR PERFORMANCE.
INSERT:	ACETAL PER ASTM-D6778.
DRIVE NUT:	MILD STEEL

**FINISH:**

NUT:	PASSIVATE PER AMS2700, CONVERSION COATING OPTIONAL.
SLEEVE AND SCREW:	PASSIVATE PER AMS2700, CONVERSION COATING OPTIONAL.
INSERT:	NONE
DRIVE NUT:	CORROSION RESISTANT COATING, COLOR BLACK.

**LUBRICANT:**

THE FOLLOWING LUBRICANTS MAY BE APPLIED TO ANY OR ALL COMPONENTS IN ANY COMBINATION AS REQUIRED FOR PERFORMANCE: SOLID FILM LUBRICANT PER THE CHEMICAL REQUIREMENTS OF AS5272 TYPE I OR EVERLUBE 812 PER MIL-PRF-81329, PARAFFIN WAX OR CETYL ALCOHOL PER AS87132.

**TABLE II**

2ND DASH NO. (GRIP)	GRIP RANGE			
	MIN GRIP		MAX GRIP	
	INCH	mm	INCH	mm
100	.050	1.27	.100	2.54
150	.100	2.54	.150	3.81
200	.150	3.81	.200	5.08
250	.200	5.08	.250	6.35
300	.250	6.35	.300	7.62
350	.300	7.62	.350	8.89
400	.350	8.89	.400	10.16
450	.400	10.16	.450	11.43
500	.450	11.43	.500	12.70
550	.500	12.70	.550	13.97
600	.550	13.97	.600	15.24
650	.600	15.24	.650	16.51
700	.650	16.51	.700	17.78
750	.700	17.78	.750	19.05
800	.750	19.05	.800	20.32
850	.800	20.32	.850	21.59
900	.850	21.59	.900	22.86
950	.900	22.86	.950	24.13
1000	.950	24.13	1.000	25.40
1050	1.000	25.40	1.050	26.67
1100	1.050	26.67	1.100	28.19
1150	1.100	28.19	1.150	29.21

**GENERAL NOTES:**

1. EXAMPLE PART NUMBER:  
 MBF2130 ( ) - 6 - 200



2. 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.
3. AN "L" IN PLACE OF THE DASH (-) BETWEEN THE DIAMETER DASH NUMBER AND THE GRIP DASH NUMBER DESIGNATES MODIFIED BREAK-OFF LIMITS OF +.053 / -.050. EXAMPLE: MBF2130( ) - 6L200. AN "LL" DESIGNATES MODIFIED BREAK-OFF LIMITS OF +.003 / -.100. EXAMPLE: MBF2130( ) - 6LL200.
4. PROPOSED MINIMUM TENSILE STRUCTURAL FAILURE VALUES.
5. THESE PARTS ARE INTENDED FOR APPLICATIONS REQUIRING UP TO A .002" DIAMETRICAL INTERFERENCE FIT BETWEEN FASTENER SHANK AND STRUCTURE HOLE.
6. DISTORTION OF "ØD" PERMISSIBLE IN LOCKING AREA.
7. DRIVE NUT NOT SHOWN FOR CLARITY OF HEAD MARKINGS.
8. GRIP DASH NUMBER MARKING LOCATED ON TOP OR SIDE OF DRIVE NUT.

TITLE:

FASTENER, BLIND,  
 LOW PROFILE PROTRUDING HEAD,  
 FOR INTERFERENCE FIT APPLICATIONS  
 IN METALLIC STRUCTURES,  
 CRES A286 (90 KSI ULTIMATE SHEAR STRENGTH)

DRAWING NO:

MBF2130( )-( )-( )

DRAWN BY:

A PEREZ

DRAWN DATE:

05/03/2014

APPROVED BY:

CHECKED DATE: