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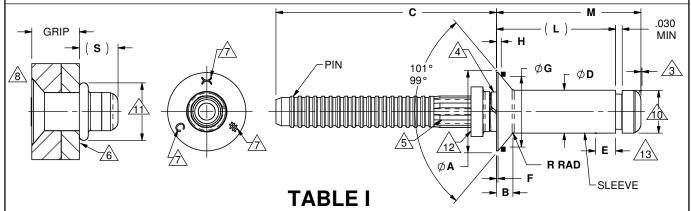
THE STRUCTURAL DESIGN

THIS DRAWING,

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

Unimatic® **BLIND BOLT**

ENGINEERING STANDARD



	PART NUMBER	NOM DIA.	Ø A HEAD THEO. INTER. MAX	B HEAD HEIGHT MAX	C MIN.	Ø D SLEEVE ±.001	E MAX	F MAX		H GAGE HEIGHT	R RAD. MAX.	(S) DESIGN REF	_	TENSILE 1	HOLE LIMITS +.003 000
۵	UB100-EU05-()	05	.334	.073	.844	.163	.215	.011	.2831	.0206 .0171	.010	.202	1980	1150	.164
<u>9</u>	UB100-EU06-()	06	.387	.080	.875	.198	.250	.013	.3271	.0243 .0205	.015	.231	2925	1690	.199
	UB100-EU08-()	80	.508	.106	1.000	.259	.305	.017	.4319	.0310 .0270	.020	.279	5005	2900	.260
	UB100-EU10-()	10	.635	.138	1.218	.311	.350	.020	.5450	.0367 .0325	.025	.319	7215	4170	.312
	UB100-EU12-()	12	.763	.166	1.562	.373	.405	.023	.6581	.0428 .0380	.030	.364	10380	5970	.374

/1.\ MINIMUM ULTIMATE SINGLE SHEAR AND TENSILE STRENGTHS IN POUNDS OF INSTALLED FASTENER.

APPLIES TO GRIPS 05-04 MAX, 06-05 MAX, 08-06 MAX, 10-07 MAX, 12-09 MAX AND UP. IN SHORTER GRIPS, A TRUE COMPOSITE SHEAR TEST CANNOT BE OBTAINED.

/3.\ TRIM FLASH NOT TO EXCEED .005 MAXIMUM LENGTH ABOVE HEAD OF PIN.

4. SOLID OR SPLIT LOCK COLLAR - MANUFACTURER'S OPTION. SPLIT NOT TO EXCEED .020 WIDTH.

 $\sqrt{5.}$ KNURLED TO FACILITATE FASTENER ASSEMBLY. NOT PART OF THE INSTALLED FASTENER.

6 BLIND SIDE HEAD MAY BE INSTALLED ON 5° MAXIMUM SLOPE.

 $\sqrt{7}$.\ IDENTIFICATION: HUCK SYMBOL, "C" AND GRIP DASH NUMBER.

CONCENTRICITY: CONICAL SURFACE OF FLUSH HEAD TO "D" DIAMETER TO BE WITHIN .010 T.I.R. HEAD ROUNDNESS TO BE WITHIN .010.

 $\sqrt{9}$ NOMINAL 05 AND 06 DIAMETER PARTS ARE COLOR IDENTIFIED GREEN (LOCATION OPTIONAL).

MAXIMUM DIAMETER OF PIN HEAD SHALL NOT EXCEED "D" MAX. AND MAY BE .002 BELOW "D" MIN.

MAXIMUM DIAMETER OF BLIND HEAD SHALL NOT EXCEED MAXIMUM DIAMETER OF MANUFACTURED HEAD "A", FOR ENGINEERING DESIGN REF ONLY.

12 DRIVE WASHER AVAILABLE TO FACILITATE INSTALLATION ONLY. NOT PART OF INSTALLED FASTENER.

 $\cancel{13}$ "E" LENGTH OF "ØD" MAY BE .002 UNDERSIZE.

				DIMENSI	ONS IN INCHES	
14/		14848 UPDATED ALCOA LOGO	PROC. SPEC. NASM8975	DRAWN BY	J. SCHLOBOHM	
W	TO HOWN	MET LOGO	NAS 353: CODE AWY	CHECKED BY	SIGNATURE ON FILE	
ISSUED	7/19/1982	Unimatic® BLIND BOLT FASTENER, HIGH STRENGTH,		JB100-I		
REVISED	9/8/2021	PULL-TYPE, POSITIVE MECHANICAL LOCK, 100° FLUSH HEAD,	(MS21140U)			
PAGE	1 OF 3	A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION		BLB ₁₀	8	



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HFS TUCSON OPERATIONS
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TUCSON, ARIZONA 85714
PHONE (520) 519-7400
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ENGINEERING STANDARD

120-.157. THE GRIP RANGE OF UB100-EU06-02 IS

TABLE II

GRIP NUMBER TABULATION													
	GRIP DASH	I KANGE		05		06		08		10		12	
•	NUM BER	MIN.	MAX.	(L)	M MAX								
14	02	.094	.157	.280	.434	.329	.505						
	03	.156	.220	.342	.496	.365	.541	.406	.616				
	04	.219	.282	.405	.559	.428	.604	.469	.678	.506	.743	.548	.820
	05	.281	.345	.467	.622	.490	.666	.531	.740	.568	.805	.610	.883
	06	.344	.407	.530	.684	.553	.729	.594	.803	.631	.868	.673	.945
	07	.406	.470	.592	.746	.615	.791	.656	.866	.693	.930	.735	1.007
	80	.469	.532	.655	.809	.678	.854	.719	.928	.756	.993	.798	1.070
	09	.531	.595	.717	.872	.740	.916	.781	.990	.818	1.055	.860	1.133
	10	.594	.657	.780	.934	.803	.979	.844	1.053	.881	1.118	.923	1.195
	11	.656	.720	.842	.996	.865	1.041	.906	1.116	.943	1.180	.985	1.257
	12	.719	.782	.905	1.059	.928	1.104	.969	1.178	1.006	1.243	1.048	1.320
	13	.781	.845	.967	1.122	.990	1.166	1.031	1.240	1.068	1.305	1.110	1.383
	14	.844	.907	1.030	1.184	1.053	1.229	1.094	1.303	1.131	1.368	1.173	1.445
	15	.906	.970	1.092	1.246	1.115	1.291	1.156	1.366	1.193	1.430	1.235	1.507
	16	.969	1.032	1.155	1.309	1.178	1.354	1.219	1.428	1.256	1.493	1.298	1.570
	17	1.031	1.095	1.217	1.372	1.240	1.416	1.281	1.490	1.318	1.555	1.360	1.633
	18	1.094	1.157	1.280	1.434	1.303	1.479	1.344	1.553	1.381	1.618	1.423	1.695
	19	1.156	1.220	1.342	1.496	1.365	1.541	1.406	1.616	1.443	1.680	1.485	1.757
	20	1.219	1.282	1.405	1.559	1.428	1.604	1.469	1.678	1.506	1.743	1.548	1.820
	21	1.281	1.345	1.467	1.622	1.490	1.666	1.531	1.740	1.568	1.805	1.610	1.883
	22	1.344	1.407	1.530	1.684	1.553	1.729	1.594	1.803	1.631	1.868	1.673	1.945
	23	1.406	1.470	1.592	1.746	1.615	1.791	1.656	1.866	1.693	1.930	1.735	2.007
	24	1.469	1.532	1.655	1.809	1.678	1.854	1.719	1.928	1.756	1.993	1.798	2.070
	25	1.531	1.595	1.717	1.872	1.740	1.916	1.781	1.990	1.818	2.055	1.860	2.133
	26	1.594	1.657			1.803	1.979	1.844	2.053	1.881	2.118	1.923	2.195
	27	1.656	1.720					1.906	2.116	1.943	2.180	1.985	2.257
	28	1.719	1.782					1.969	2.178	2.006	2.243	2.048	2.320
	29	1.781	1.845					2.031	2.240	2.068			
	30	1.844	1.907									2.173	
	31	1.906	1.970							2.193	2.430	2.235	2.507
	32	1.969	2.032									2.298	2.570
	33	2.031	2.095										2.633
	34	2.094	2.157										2.695
	35	2.156	2.220									2.485	2.757
	36	2.219	2.282									2.548	2.820

				DIMENSI	ONS IN INCHES		
\A/		14848 UPDATED ALCOA LOGO	PROC. SPEC. NASM8975	DRAWN BY	J. SCHLOBOHM		
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PAGE	2 OF 3	A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION		BLB ₁₀	8		

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TABLE III

BOLT COMPONENTS	COMPOSITION	FINISHES				
SLEEVE	A-286 CRES PER CHEMISTRY OF AMS5737	PASSIVATE PER AMS2700 AND AMS QQ-P-35 OR CADMIUM PLATE PER AMS-QQ-P-416, TYPE I I, CLASS 2 OR ALUMINUM (IVD) COAT PER MIL-DTL-83488, CLASS 3, TYPE I I OR ALUMINUM COAT PER NAS4006 AND BMS10-85				
PIN	A-286 CRES PER CHEMISTRY OF AMS5737	PASSIVATE PER AMS2700 AND AMS QQ-P-35				
MECHANICAL LOCK	A-286 CRES PER CHEMISTRY OF AMS5737 OR TYPE 316 CRES PER CHEMISTRY OF AMS5690 (MANUFACTURER'S OPTION)	PASSIVATE PER AMS2700 AND AMS QQ-P-35				

LUBRICATION- WHEN LUBRICATED, PARTS SHALL BE LUBRICATED PER AS5272, AS87132 OR DOD-L-85645 (MANUFACTURER'S OPTION).

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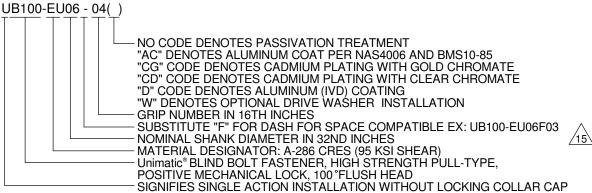
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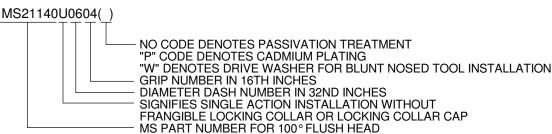
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FOR "F" CODE, SPACE COMPATIBLE APPLICATIONS FASTENER MAY BE EITHER UNLUBRICATED OR LUBRICATED PER DOD-L-85645. (MANUFACTURER'S OPTION)

PART NUMBER EXAMPLE:



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