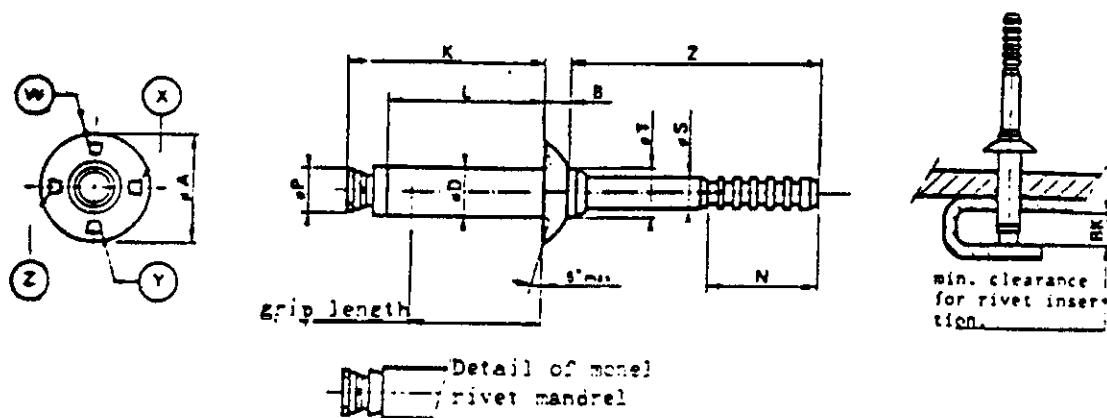


<b>aerospatiale</b> TECHNICAL MANAGEMENT STANDARDS DEPT.	CHERRYLOCK BLIND RIVETS a) - BULB TYPE - MUSHROOM HEAD (Non-Standard diameters)	GENERAL DESIGN MANUAL <b>ASN-A0064</b>
<p style="text-align: center;">CONTENTS</p> <p>1 - DESCRIPTION</p> <p>2 - CHARACTERISTICS</p> <p>3 - MATERIALS &amp; SURFACE TREATMENTS</p> <p>4 - DESCRIPTION</p> <p>5 - SPECIFICATIONS</p> <p>6 - MANUFACTURERS</p> <p>1 - DESCRIPTION</p> <p>Depending on the manufacturer, these blind rivets are made of 3 parts (sleeve, shank and ring) or 2 parts (integral sleeve &amp; ring + shank).</p> <p>Engagement and installation proceed on the same face of components to be fitted.</p> <p>This document is the property of Aerospatiale ; it shall not be communicated to third parties and/or copied without prior consent of Aerospatiale and no disclosure shall be made of its content.</p>		
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### 2 - CHARACTERISTICS



- 2.1 - Markings - The markings on the rivet head are as follows :
- at W, a letter specifying the nature of the material :  
     letter M : for monel ;  
     no marking : for aluminium alloy.
  - at X, manufacturer's identification mark  
     see I.C.C. 04.61.104.
  - at Y, grip length symbol (see paragraph 2.3)
  - at Z sign "+" if necessary, for inconel 600 stems.

### 2.2 - Dimensions

Diameter code	Nominal diameter		D		A		B REF.		BK min.			
			+ .003 - .001 in	+ 0.076 - 0.025 mm	+ .010 - .025 in	+ 0.25 - .025 mm	+ .010 - .025 in	+ 0.25 - .025 mm	Aluminium alloy		Monel	
4	1.8	3.2	.140	3.556	.750	8.35	.054	1.37	.30	7.62	.33	8.38
5	5.32	4.0	.173	4.294	.312	7.92	.067	1.70	.33	8.38	.37	9.40
6	3.16	4.8	.2015	5.118	.375	9.52	.080	2.03	.37	9.40	.41	10.41

Diameter code	N min.		P max.		S		T REF.		Z REF.		Drilling Hole dia.				Bit No (gauge)
	in	mm	in	mm	+ .006 - .003 in	+ 0.15 - 0.07 mm	in	mm	in	mm	max.	min.	max.	min.	
4			.143	3.63	.090	2.29	.119	3.02	1.65	41.91	.146	.143	3.71	3.63	# 27
5	.375	9.52	.176	4.47	.112	2.84	.148	3.76	1.63	41.40	.180	.176	4.57	4.47	# 16
6			.205	5.21	.132	3.35	.174	4.42	1.65	41.91	.208	.206	5.31	5.23	# 5

**2.3 - GRIP LENGTHS AND DIMENSIONS**

Only rivets whose dimensions are in the framed area are covered by document NAS 1738.

Grip length code	Grip length min.   max.	4				5				6			
		Aluminium alloy		Monel		Aluminium alloy		Monel		Aluminium alloy		Monel	
		L	K	L	K	L	K	L	K	L	K	L	K
		± .010 ± 0.25	max.	± .010 ± 0.25	max.	± .010 ± 0.25	max.	± .010 ± 0.25	max.	± .010 ± 0.25	max.	± .010 ± 0.25	max.
01	.020 0.51	.062 1.57	.183 4.65	.32 8.13	.203 5.16	.34 8.64	.205 5.21	.35 8.89	.236 5.99	.39 9.91	.233 5.92	.39 9.91	.43 10.92
02	.063 1.60	.125 3.17	.242 6.15	.38 9.65	.265 6.73	.40 10.16	.265 6.73	.41 10.16	.298 7.57	.45 11.43	.293 7.44	.45 11.43	.49 12.45
03	.126 3.20	.187 4.75	.306 7.77	.45 11.43	.328 8.33	.47 11.94	.329 8.36	.47 11.94	.360 9.14	.51 12.95	.357 9.07	.52 13.21	.55 13.97
04	.168 4.28	.250 6.35	.370 9.40	.51 12.95	.390 9.91	.53 13.46	.393 9.98	.54 13.72	.423 10.74	.58 14.73	.421 10.69	.58 14.73	.61 15.49
05	.251 6.38	.312 7.92	.434 11.02	.56 14.23	.453 11.51	.59 14.99	.457 11.61	.60 15.24	.485 12.32	.64 16.26	.485 12.32	.65 16.51	.63 16.27
06	.313 7.95	.375 9.52	.498 12.65	.64 16.26	.515 13.08	.65 16.51	.521 13.23	.67 17.02	.548 13.92	.70 17.78	.549 13.94	.71 18.03	.74 18.80
07	.376 9.55	.437 11.10	.562 14.27	.71 18.03	.578 14.68	.72 18.29	.585 14.86	.73 18.54	.610 15.49	.76 19.30	.613 15.57	.78 19.81	.80 20.32
08	.438 11.12	.500 12.70	.626 15.90	.77 19.56	.640 16.26	.78 19.81	.649 16.48	.80 20.32	.673 17.09	.83 21.08	.677 17.20	.84 21.24	.86 21.84
09	.501 12.73	.562 14.27	.690 17.53	.84 21.34	.703 17.86	.84 21.34	.713 18.11	.86 21.84	.735 18.67	.89 22.61	.741 18.82	.91 22.11	.93 23.02
10	.563 14.30	.625 15.88					.777 19.74	.93 23.62	.798 20.27	.95 24.13	.805 20.45	.97 24.64	.99 25.15
11	.626 15.90	.687 17.45					.841 21.36	.99 25.15	.860 21.84	1.01 25.65	.869 22.07	1.04 26.42	1.05 26.67
12	.688 17.48	.750 19.05									.933 23.70	1.10 27.94	1.11 28.19

**2.4 - TENSILE AND SHEAR STRENGTHS**

Material surface treatment code	4		5		6	
	Tensile (N)	Shear (N)	Tensile (N)	Shear (N)	Tensile (N)	Shear (N)
11	1530	2750	2360	4160	3160	5600
12						
20	2180	3980	3290	6020	4450	8110
21						

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### 3 - MATERIALS AND SURFACE TREATMENT

CODE	MATERIAL			PROTECTIVE TREATMENT			Maximum working temperature
	Sleeve	Shank	Ring	Sleeve	Shank	Ring	
11	Aluminium alloy 5056 F	Inconel 600 QQ-W-390	Monel QQ-N-281 or Aluminium alloy 2017-14 QQ-A-430	Alumilite anodizing MIL-A-8625 or MIL-A-5541	None	None	120°C
12	2017-T4 QQ-A-430	Alloyed steel 8740A/56322			Cadmige QQ-P-416 Type II		
20	Monel QQ-N-281	Inconel 600 QQ-W-390	Monel QQ-N-281	None	None	None	480 C
21		Monel QQ-N-281		Cadmium plating QQ-P-416 Type II			

- 1) Sleeve and ring can, depending on the manufacturer, be made integral ; the shank will, in this case, be made of aluminium alloy 7075-T6 for codes 11 and 12.

### 4 - DESCRIPTION

Each blind rivet is to be designated solely by its name and identification block as in the example below :

#### a) NEW REFERENCE

Name	Identification block	
	Manufacturer code	Reference
BLIND RIVET	F5442 1)	ASN-A0064 - 4 03 21
Basic reference	_____	
Diameter code (see § 2.2)	_____	
Grip length code (see § 2.3)	_____	
Material & surface treatment code (see § 3)	_____	

#### b) FORMER REFERENCE

Name	Identification block	
	Manufacturer code	Reference
BLIND RIVET	F5442 1)	54224 - 4 03 21
Basic reference	_____	
Diameter code (see § 2.2)	_____	
Grip length code (see § 2.3)	_____	
Material & surface treatment code (see § 3)	_____	

### 5 - SPECIFICATIONS

Supply specification : NAS 1740

### 6 - MANUFACTURERS

See PQ 0001.05.

- 1) F5442 : Manufacturer code attributed to Aerospatiale General Standardization for standard parts fully defined by their reference in the General Design Manual.

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## AMENDMENT LIST

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