

INTERNATIONAL STANDARD

ISO
8280

First edition
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Aerospace — Rivets, solid, universal head, metallic material, with or without surface treatment — Dimensions

*Aéronautique et espace — Rivets ordinaires, à tête ronde aplatie, en
matériau métallique, avec ou sans traitement de surface — Dimensions*



Reference number
ISO 8280:1993(E)

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8280 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Sub-Committee SC 4, *Aerospace fastener systems*.

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Aerospace — Rivets, solid, universal head, metallic material, with or without surface treatment — Dimensions

1 Scope

This International Standard specifies the dimensions of universal head solid rivets, in metallic material, with or without surface treatment.

It is intended for the drawing up of aerospace product standards.

2 Normative reference

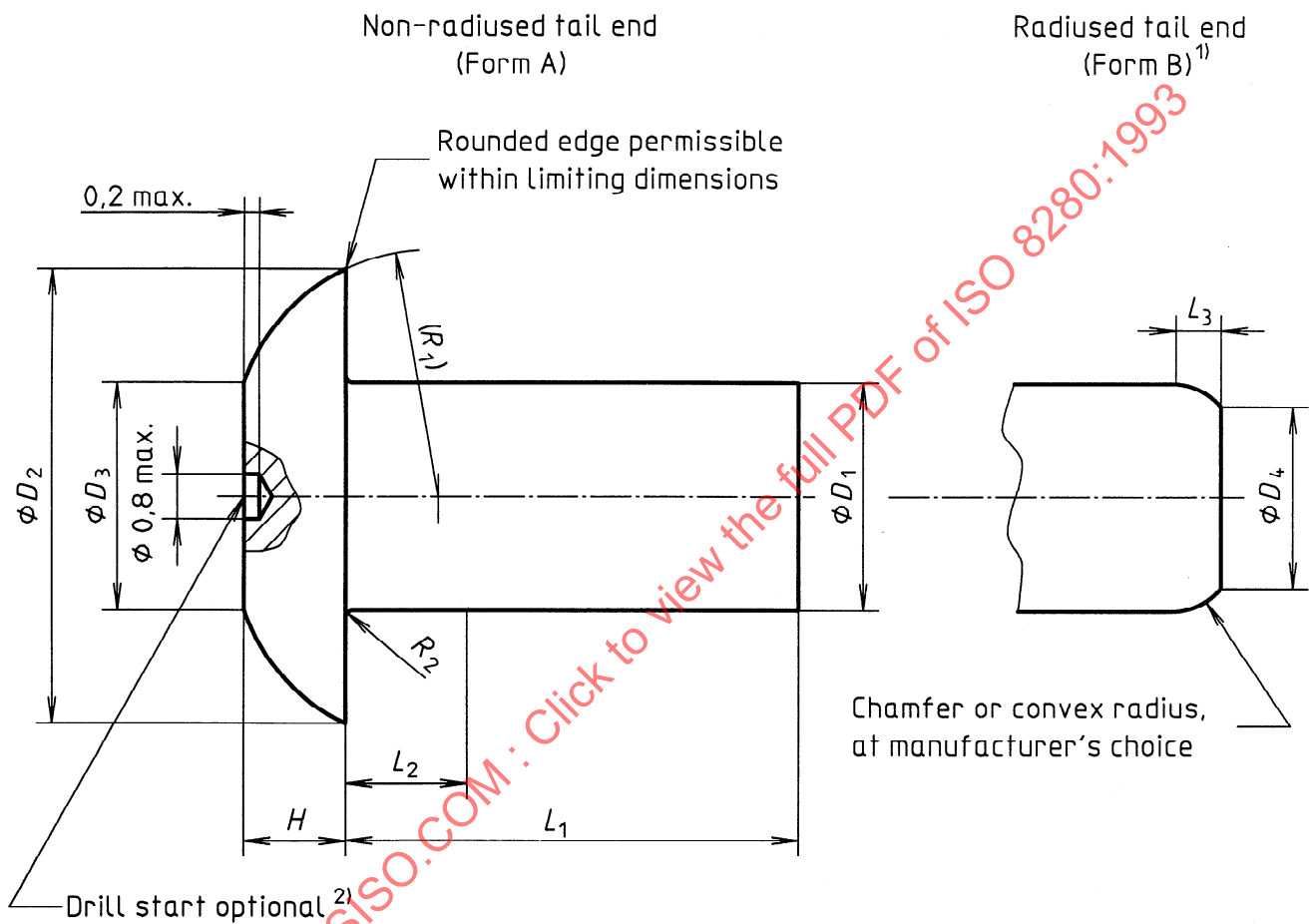
The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards

are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 286-2:1988, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts*.

3 Configuration and dimensions

See figure 1 and tables 1 to 3. Dimensions and tolerances are expressed in millimetres. They are applicable after any surface treatment.



1) The length range is limited (see tables 2 and 3).

2) Drill start optional, only for corrosion-resistant steel, nickel alloys, commercially pure titanium, titanium alloys.

Figure 1

Table 1 — Dimensions (except length L_1)

Diameter code	D_1 ¹⁾ d11 ²⁾	D_2		D_3		D_4		H		L_2	L_3		R_1	R_2 $\pm 0,08$
		max.	min.	max.	min.	max.	min.	max.	min.		max.	min.		
016	1,6	3,36	3,04	1,6	1,2	—	—	0,9	0,7	1,4	—	—	2	0,15
020	2	4,2	3,8	2,0	1,5	—	—	1,1	0,9		—	—	2,4	
025	2,5	5,25	4,75	2,5	1,8	2,0	1,7	1,3	1,1		0,8	0,5	3	
030	3	6,3	5,7	3,0	2,2	2,4	2,1	1,5	1,3		0,9	0,6	3,7	
035	3,5	7,35	6,65	3,5	2,6	2,8	2,45	1,8	1,6	1,6	1,05	0,70	4,3	0,25
040	4	8,4	7,6	4	3	3,2	2,8	2,0	1,8		1,2	0,8	4,9	
050	5	10,5	9,5	5,0	3,7	4,0	3,5	2,4	2,2	2	1,5	1,0	6,1	
060	6	12,6	11,4	6,0	4,5	4,8	4,2	2,8	2,6		1,8	1,2	7,3	
080	8	16,8	15,2	8	6	6,4	5,6	3,7	3,5		2,4	1,6	9,8	
100	10	21	19	10,0	7,5	8	7	4,5	4,3		3	2	12,2	

1) Over length L_2 , D_1 max. may increase by 0,03.

2) See ISO 286-2.

Table 2 — Lengths L_1 for rivets in aluminium and aluminium alloys

Code	Length L_1 $+0,5$ 0	Diameter code																	
		016	020	025		030		035		040		050		060		080		100	
		Shape of tail end ¹⁾																	
		A	A	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
003	3	+	+																
004	4	+	+	+	+	+	+	+	+										
005	5	+	+	+	+	+	+	+	+										
006	6	+	+	+	+	+	+	+	+	+	+								
007	7	+	+	+	+	+	+	+	+	+	+								
008	8	+	+	+	+	+	+	+	+	+	+	+	+						
009	9	+	+	+	+	+	+	+	+	+	+	+	+						
010	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
011	11	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
012	12	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
013	13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
014	14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
015	15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
016	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
017	17		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
018	18		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
019	19		+	+		+		+	+	+	+	+	+	+	+	+	+	+	+
020	20		+	+		+		+	+	+	+	+	+	+	+	+	+	+	+
022	22		+	+		+		+		+	+	+	+	+	+	+	+	+	+
024	24		+	+		+		+		+	+	+	+	+	+	+	+	+	+
026	26			+		+		+		+		+	+	+	+	+	+	+	+
028	28			+		+		+		+		+	+	+	+	+	+	+	+
030	30			+		+		+		+		+		+	+	+	+	+	+
032	32			+		+		+		+		+		+	+	+	+	+	+
035	35			+		+		+		+		+		+		+	+	+	+
040	40					+		+		+		+		+		+		+	
045	45							+		+		+		+		+		+	
050	50									+		+		+		+		+	
055	55											+		+		+		+	
060	60											+		+		+		+	

1) Form A: non-radiused tail end (see figure 1)
Form B: radiused tail end (see figure 1)