

BS EN 3911:2010



BSI Standards Publication

Aerospace series — Six lobe recess — Geometrical definition

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The UK participation in its preparation was entrusted to Technical Committee ACE/12, Aerospace fasteners and fastening systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments issued since publication

Date	Text affected
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ICS 49.030.01

English Version

Aerospace series - Six lobe recess - Geometrical definition

Série aérospatiale - Empreinte six lobes - Définition
géométriqueLuft- und Raumfahrt - Sechs-Bogenzahn, Innenantrieb -
Definition der Geometrie

This European Standard was approved by CEN on 16 April 2010.

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Foreword

This document (EN 3911:2010) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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1 Scope

This European Standard specifies the dimensions and tolerances of a six lobe recess.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 3905, *Aerospace series — Six lobe recesses for bolts — Technical specification*

NAS 1800:1990, *Recess, six lobe drive — Internal — Dimensions for recess and gages* ¹⁾

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances

Configuration shall be in accordance with Figure 1.

Dimensions and tolerances shall conform with Figure 1 and Table 1 and are expressed in millimetres.

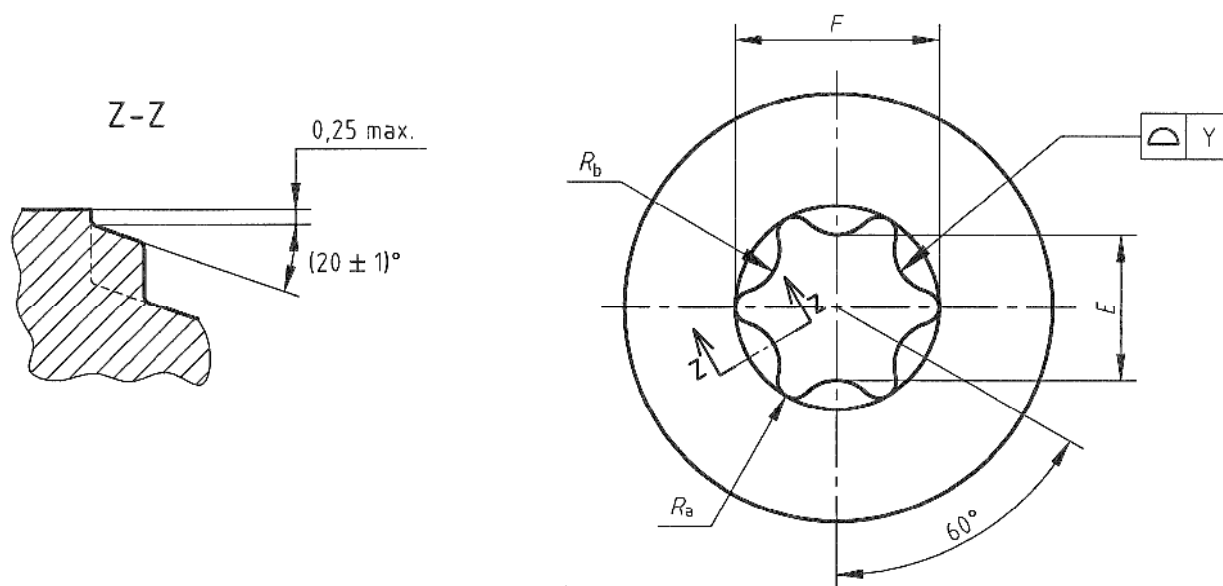


Figure 1

1) Published by: National Standards Association, Inc., 1200 Quince Orchard Blvd, Gaithersburg, MD 20878, United States.

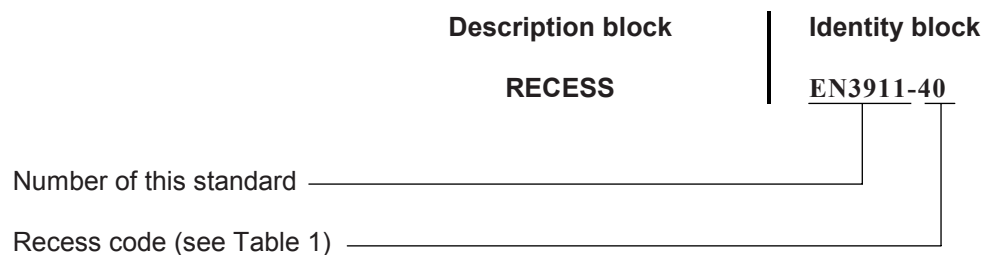
Table 1

Recess code	<i>E</i>	<i>F</i>	<i>R_a</i>	<i>R_b</i>	Y
06	1,27	1,75	0,16	0,36	0,025
07 ^a	1,50	2,07	0,18	0,42	
08	1,73	2,40	0,22	0,49	
09	1,86	2,58	0,23	0,53	
10 ^a	2,03	2,82	0,25	0,57	
15	2,41	3,35	0,30	0,69	
20 ^a	2,83	3,94	0,33	0,83	
25	3,24	4,52	0,40	0,89	0,035
27	3,63	5,08	0,42	1,08	
30 ^a	4,03	5,61	0,48	1,16	
40 ^a	4,84	6,76	0,58	1,40	0,050
45	5,64	7,92	0,61	1,76	
50 ^a	6,45	8,94	0,81	1,78	
55 ^a	8,03	11,34	0,96	2,62	0,060
60 ^a	9,61	13,42	1,12	2,83	

^a These dimensions are derived from NAS 1800.

4 Designation

EXAMPLE



5 Technical specification

EN 3905

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