
**Aerospace — Inserts, with clearance hole,
in metallic material, coated or uncoated —
Dimensions**

*Aéronautique et espace — Douilles lisses, en matériau métallique,
revêtues ou non revêtues — Dimensions*

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Printed in Switzerland

Foreword

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Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 13599 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 4, *Aerospace fastener systems*.

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Aerospace — Inserts, with clearance hole, in metallic material, coated or uncoated — Dimensions

1 Scope

This International Standard specifies the dimensions of inserts with clearance hole, in metallic material, coated or uncoated, for honeycomb and composite materials. The classification referring to strength and temperature, depending on the core material and potting compound, is not specified.

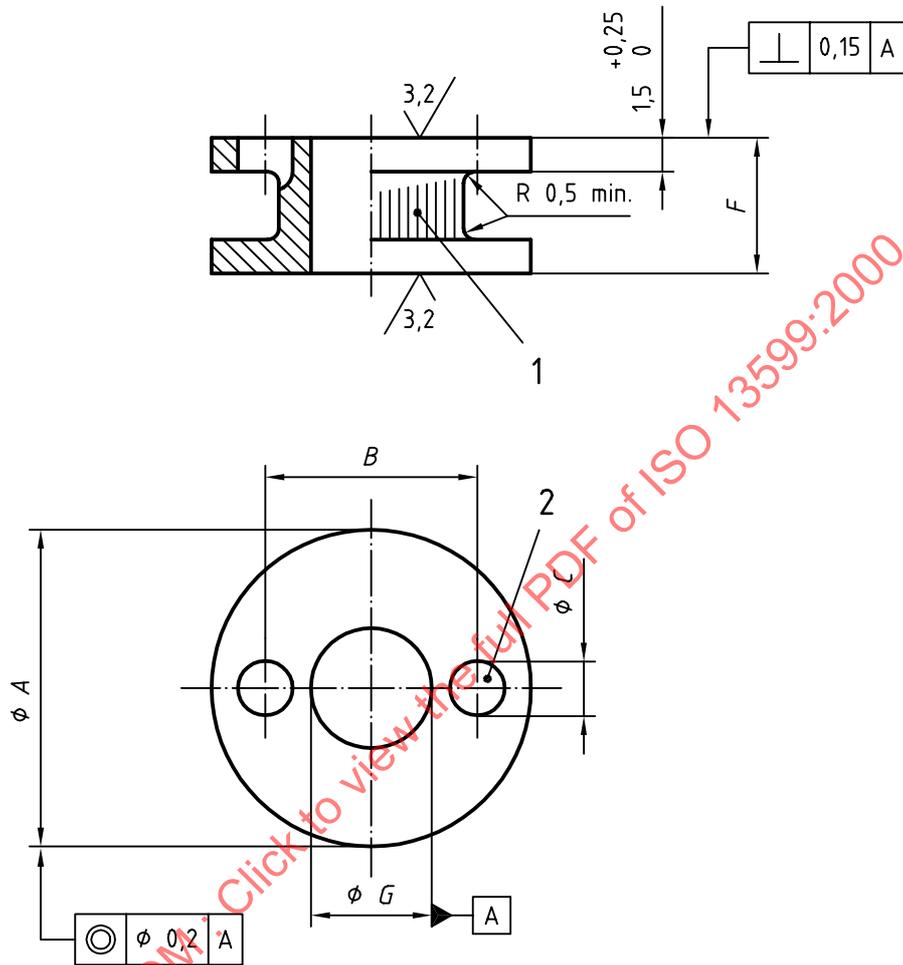
This International Standard is only applicable to the compilation of aerospace product standards.

2 Configuration and dimensions

See Figures 1 and 2 and Table 1. Dimensions and tolerances are expressed in millimetres. They apply to inserts after any surface coating(s).

$$12,5 / \left(\sqrt{3,2} \right)^a$$

Remove sharp edges 0,1 to 0,4



Details of form not stated are at the manufacturer's discretion.

Key

- 1 Antirotation knurl
- 2 Potting and vent hole

^a These values, in micrometres, are valid prior to any surface coating(s).

Figure 1 — Style A without countersink

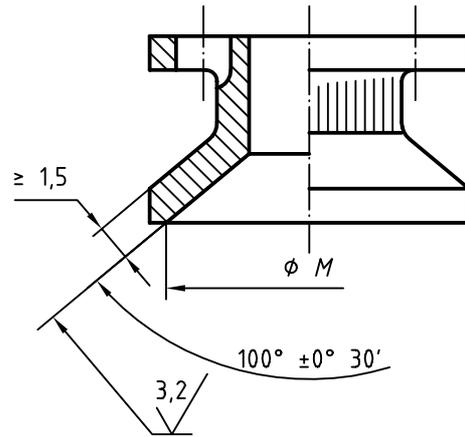


Figure 2 — Style B with countersink

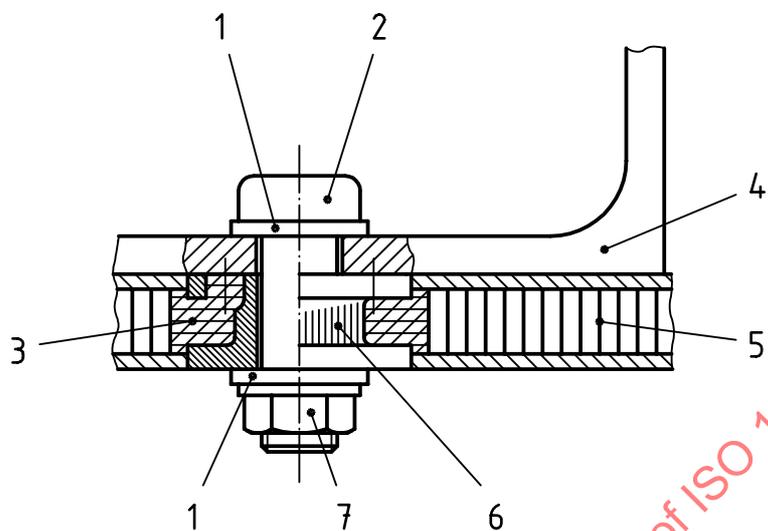
Table 1

| Diameter code | A 0 □-0,25 | B ± 0,25 | C ± 0,25 | F ^a | | G + 0,25 0 | M + 0,25 0 |
|---------------|------------------|-------------|-------------|------------------------|------------------------|------------------|------------------|
| | | | | Style A + 0,25 0 | Style B + 0,25 0 | | |
| 030 | 14 | 9,3 | 2,4 | 6 to 30 | 8 to 30 | 3,2 | 6 |
| 040 | | | | 6 to 40 | 8 to 40 | 4,2 | 8 |
| 050 | | | | 6 to 50 | 8 to 50 | 5,3 | 10 |
| 060 | | | | 6 to 60 | 8 to 60 | 6,4 | 12 |

^a Increments: 1

3 Example of application

See Figure 3.



Key

- 1 Washer
- 2 Bolt
- 3 Potting compound
- 4 Attached component
- 5 Sandwich panel
- 6 Insert
- 7 Nut

Figure 3 — Example of Style A application