

Irish Standard I.S. EN ISO 16228:2018

Fasteners - Types of inspection documents (ISO 16228:2017)

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I.S. EN ISO 16228:2018

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National Foreword

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EUROPEAN STANDARD NORME EUROPÉENNE

EN ISO 16228

EUROPÄISCHE NORM

February 2018

ICS 21.060.01

English Version

Fasteners - Types of inspection documents (ISO 16228:2017)

Fixations - Types de documents de contrôle (ISO 16228:2017)

Mechanische Verbindungselemente - Arten von Prüfbescheinigungen (ISO 16228:2017)

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EN ISO 16228:2018 (E)

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European foreword

This document (EN ISO 16228:2018) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by August 2018, and conflicting national standards shall be withdrawn at the latest by August 2018.

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INTERNATIONAL STANDARD

ISO 16228

First edition 2017-11

Fasteners — Types of inspection documents

Fixations — Types de documents de contrôle



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 7, *Reference standards*.

Introduction

This document specifies the fastener inspection documents which can be supplied when requested at the time of the order.

Before publication of this document, inspection documents according to ISO 10474 or EN 10204 were also applied for fasteners. This document was developed specifically for fasteners, as a preferred alternative to ISO 10474 or EN 10204.

Data in inspection documents may be collected from in-process control during the manufacture of the fasteners and/or from final control on the finished fasteners based on sampling. In-process control during manufacture within a certified quality assurance system operated by the manufacturer gives the most reliable information about conformance of the fasteners (for more information regarding acceptance inspection or quality assurance for fasteners, see ISO 3269 or ISO 16426).

Inspection documents for fasteners may include material, mechanical, physical, dimensional, functional and finish-coating properties, as agreed at the time of the order.

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Fasteners — **Types of inspection documents**

1 Scope

This document specifies the different types of fastener inspection documents issued by the fastener manufacturer or distributor and/or by the external authorized representative on specific request of the purchaser at the time of the order.

— declaration of compliance (F2.1);

— test reports (F2.2, F3.1 and F3.2).

NOTE The term "certificate" is in common use, however for fastener inspection documents the terminology to be used is "test report".

This document specifies requirements for the content of each fastener inspection document, in conjunction with the order, the relevant standards and/or specified requirements.

This document is applicable to finished fasteners such as bolts, screws, studs, nuts, washers, pins, rivets, etc. made of steel, stainless steel, non-ferrous metal or non-metallic material.

This document does not apply to special-purpose or specially engineered applications requiring other types of procedures (e.g. initial samples).

Examples of inspection documents are given in <u>Annex A</u>. An example of a coding system identifying the sections in fastener inspection documents is given in <u>Annex B</u>.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 898-1, Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread

ISO 898-2, Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes — Coarse thread and fine pitch thread

ISO 898-3,¹)Mechanical properties of fasteners made of carbon steel and alloy steel — Part 3: Flat washers with specified property classes

ISO 898-5, Mechanical properties of fasteners made of carbon steel and alloy steel — Part 5: Set screws and similar threaded fasteners with specified hardness classes — Coarse thread and fine pitch thread

ISO 1891-4:2017, Fasteners — Terminology — Part: 4: Control, inspection, delivery, acceptance and quality

ISO 2320, Fasteners — Prevailing torque steel nuts — Functional properties

ISO 2702, Heat-treated steel tapping screws — Mechanical properties

ISO 3269, Fasteners — Acceptance inspection

ISO 3506-1, Mechanical properties of corrosion-resistant stainless steel fasteners — Part 1: Bolts, screws and studs

¹⁾ Under preparation.



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