

Tapping screw and washer assemblies with plain washers (ISO 10510:2011)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 10510:2011 sisaldab Euroopa standardi EN ISO 10510:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.04.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 01.04.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 10510:2011 consists of the English text of the European standard EN ISO 10510:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English Version

Tapping screw and washer assemblies with plain washers (ISO 10510:2011)

Vis à tôle à rondelle plate imperdable (ISO 10510:2011)

Kombi-Blechsrauben mit flachen Scheiben (ISO 10510:2011)

This European Standard was approved by CEN on 17 January 2011.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN ISO 10510:2011) 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 DIN.

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of an identical text or by endorsement, at the latest by October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 10510:2011 has been approved by CEN as a EN ISO 10510:2011 without any modification.

Tapping screw and washer assemblies with plain washers

1 Scope

This International Standard specifies the requirements for tapping screws and plain washer assemblies with thread sizes from S2,2 to ST9,5 inclusive, flat seating heads and mechanical properties as specified in ISO 2702.

The plain washers are captive, i.e. prevented from disassembly and free to rotate.

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.

ISO 1478, *Tapping screws thread*

ISO 1479, *Hexagon head tapping screws*

ISO 1481, *Slotted pan head tapping screws*

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

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 7049, *Cross-recessed pan head tapping screws*

ISO 10669, *Plain washers for tapping screw and washer assemblies — Normal and large series — Product grade A*

3 Dimensions

The dimensions of the assembled screws shall conform to the designated product standards for loose parts with the following exceptions:

- screws shall have a shank of such diameter, d_s , that the washer with dimensions in accordance with ISO 10669 is free to rotate;
- the permitted distance from the underside of the head to the first full thread shall be increased by the maximum thickness of the washer as specified in ISO 10669;
- the transition diameter, d_a , shall be reduced by the difference between the nominal and thread rolling diameter.

For the dimensions, see Figures 1 to 4 and Table 1.