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Graphic technology — Plates for offset printing — Dimensions

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 130, *Graphic technology*.

This third edition cancels and replaces the second edition (ISO 12635:2008), which has been technically revised.

The main changes compared to the previous edition are as follows:

— referred plate sizes have been introduced.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html..

Introduction

This document stipulates dimensional properties of printing plates for offset printing. While not all present plate dimensions will conform to this document, the specifications for dimensions serve as an effort to reduce the multitude of possible formats to a reasonable level that simplifies manufacture and communications between plate, platesetter and press manufacturers, and the printer.

In this revision, preferred plate sizes are introduced. These represent the most widely used plate sizes and should be selected where possible. It is recognised that for some printing work, other sizes are required.

Graphic technology — Plates for offset printing — Dimensions

1 Scope

This document specifies the width, length and thickness of metal lithographic printing plates (referred to hereafter as "plates"). For plates to be used in computer to plate (CtP) applications, flatness, edge straightness and burr requirements are also included. These requirements are applicable to unprocessed plates.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
cutting burr
ridge along the edge of a plate produced by cutting, especially with a blunt knife

3.2
plate width
W
dimension of a printing plate parallel to the cylinder axis (clamping edge)

3.3
plate thickness
s
caliper of a coated plate

3.4
edge waviness
degree to which a plate edge conforms to a measurement plane

3.5
plate edge straightness
maximum deviation of the plate edge parallel to the cylinder axis (clamping edge) from a straight line, drawn from the corners of the plate

3.6
unprocessed plates
plates as received from the manufacturer