ASME Y14.1-2012
[Revision of ASME Y14.1-2005 (R2010)]

Decimal Inch Drawing Sheet Size and Format

Engineering Drawing and Related Documentation Practices

AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

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The American Society of Mechanical Engineers
Two Park Avenue • New York, NY • 10016 USA

Date of Issuance: February 22, 2013

This Standard will be revised when the Society approves the issuance of a new edition.

Errata to codes and standards may be posted on the ASME Web site under the Committee Pages to provide corrections to incorrectly published items, or to correct typographical or grammatical errors in codes and standards. Such errata shall be used on the date posted.

The Committee Pages can be found at http://cstools.asme.org/. There is an option available to automatically receive an e-mail notification when errata are posted to a particular code or standard. This option can be found on the appropriate Committee Page after selecting "Errata" in the "Publication Information" section.

The American Society of Mechanical Engineers
Two Park Avenue, New York, NY 10016-5990

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FOREWORD

This Standard establishes a series of recommended decimal inch drawing sizes and the basic format for engineering drawings. It provides a basis for uniformity in engineering drawing size and format that industry and government can utilize. It is not the intent of this Standard to prevent individual organizations from designing specific formats that meet their individual needs, but rather to provide common engineering delineation standards to aid the interchange of drawings between industry, government, and other users.

This Standard is a revision of ASME Y14.1-2005, Drawing Sheet Size and Format. Work on the revision of this Standard began in October 2010 in Tucson, Arizona, by the members of Subcommittee 1.

The following is a summary of the significant changes that were incorporated into this revision:

(a) Added ASME Y14 Series Conventions section.

(b) Revised various definitions to match those listed in ASME Y14.100.

(c) Added definition for field of drawing and updated Figs. 4-1 through 4-3.

(d) Expanded zoning practices to address continuous and repetitive zoning methods.

(e) Microfilming practices are now listed as optional.

(f) Introduced DAI (design activity identification), replacing CAGE Code.

(g) Addressed revision status of sheets block for multiple-sheet drawings that are maintained at the same revision level.

(h) Made the location of the angle of projection block optional (within or adjacent to the title block).

(i) Added zone numbers to Fig. 4-3.

(j) Lengthened K-size drawing sheets from 143 in. to 176 in. and expanded the maximum number of zones from 26 to 32 to match that of J-size drawing sheets.

(k) Changed reference to ASME Y14.5 in Fig. 10-1.

Where this Standard is specified as a requirement in a document, its defined requirements are assumed to be consistent with the needs of the user. Therefore, each user provides appropriate interpretations, as the need arises, consistent with the environment in which it is applied.

The successful revision of this Standard is attributed to the subcommittee members and their respective companies, and the department and agencies of the U.S. Government.

Suggestions for the improvement of this Standard are welcome. They should be sent to The American Society of Mechanical Engineers, Attn: Secretary, Y14 Standards Committee, Two Park Avenue, New York, NY 10016-5990.

This revision was approved as an American National Standard on December 19, 2012.

ASME Y14 COMMITTEE
Engineering Drawing and Related Documentation Practices

(The following is the roster of the Committee at the time of approval of this Standard.)

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CORRESPONDENCE WITH THE Y14 COMMITTEE

General. ASME Standards are developed and maintained with the intent to represent the consensus of concerned interests. As such, users of this Standard may interact with the Committee by requesting interpretations, proposing revisions, and attending Committee meetings. Correspondence should be addressed to:

Secretary, Y14 Standards Committee
The American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016-5990
http://go.asme.org/Inquiry

Proposing Revisions. Revisions are made periodically to the Standard to incorporate changes that appear necessary or desirable, as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published periodically.

The Committee welcomes proposals for revisions to this Standard. Such proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent documentation.

Requests that are not in this format may be rewritten in the appropriate format by the Committee prior to being answered, which may inadvertently change the intent of the original request.

ASME procedures provide for reconsideration of any interpretation when or if additional information that might affect an interpretation is available. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME Committee or Subcommittee. ASME does not "approve," "certify," "rate," or "endorse" any item, construction, proprietary device, or activity.

Attending Committee Meetings. The Y14 Standards Committee regularly holds meetings that are open to the public. Persons wishing to attend any meeting should contact the Secretary of the Y14 Standards Committee.

DECIMAL INCH DRAWING SHEET SIZE AND FORMAT

1 GENERAL

1.1 Scope

This Standard defines decimal inch sheet sizes and formats for engineering drawings. Metric sheet sizes and format are defined in ASME Y14.1M. For engineering drawing preparation and practices, see ASME Y14.100.

1.2 Purpose

Standardization of drawing sheet sizes and the uniform location of format features on drawing forms provides definite advantages in readability, handling, filing, and reproduction. In using drawing sheets made by other organizations, an advantage is gained when like items of information are in the same location on all drawing sheets, and when uniformity of form and language is applied in making information entries. Revision information and dates are of particular importance to users of drawings and should be located and expressed uniformly on all engineering drawings.

The widespread use and exchange of reduced-size copies of drawing sheets both within and between organizations emphasizes the importance of standardization of drawing sheet size and format.

1.3 ASME Y14 Series Conventions

The conventions in paras. 1.3.1 through 1.3.10 are used in this and other ASME Y14 series of standards.

1.3.1 Mandatory, Nonmandatory, Guidance, and Optional Words

(a) The words "shall" and "will" establish a mandatory requirement.

(b) The words "should" and "may" establish a recommended practice.

(c) The words "typical," "example," "for reference," or the Latin abbreviation "e.g." indicate suggestions given for guidance only.

(d) The word "or" used in conjunction with a mandatory requirement or a recommended practice indicates that there are two or more options for complying with the stated requirement or practice.

1.3.2 Cross-Reference of Standards. Cross-reference of standards in text with or without a date following the standard identity shall be interpreted as follows:

(a) Reference to other ASME Y14 series of standards in the text without a date following the standard identity indicates the issue of the standard as identified in the Reference section shall be used to meet the requirement.

(b) Reference to other ASME Y14 series of standards in the text with a date following the standard identity indicates that only that issue of the standard shall be used to meet the requirement.

1.3.3 Invocation of Referenced Standards. The following examples define the invocation of a standard when specified in the Reference section and referenced in the text of this Standard:

(a) When a referenced standard is cited in the text with no limitations to a specific subject or paragraph(s) of the standard, the entire standard is invoked. For example, "dimensioning and tolerancing shall be in accordance with ASME Y14.5" is invoking the complete standard because the subject of the standard is dimensioning and tolerancing and no specific subject of paragraph(s) within the standard are invoked.

(b) When a referenced standard is cited in the text with limitations to a specific subject or paragraph(s) of the standard, only the paragraph(s) on that subject is invoked. For example, "assign part or identifying numbers in accordance with ASME Y14.100" is only invoking the paragraph(s) on part or identifying numbers because the subject of the standard is engineering drawing practices and part or identifying numbers is a specific subject within the standard.

(c) When a reference standard is cited in the text without an invoking statement such as "in accordance with," the standard is for guidance only. For example, "for gaging principles see ASME Y14.43" is only for guidance and no portion of the standard is invoked.

1.3.4 Parentheses Following a Definition. When a definition is followed by a standard referenced in parentheses, the standard referenced in parentheses is the source for the definition.

1.3.5 Notes. Notes depicted in this Standard in ALL UPPERCASE letters are intended to reflect actual drawing entries. Notes depicted in initial uppercase or lowercase letters are to be considered supporting data to the contents of this Standard and are not intended for literal entry on drawings. A statement requiring the addition of a note with the qualifier "such as" is a requirement to add a note, and the content of the text is allowed to vary to suit the application.