

ASME Y14.1-2020

(Revision and Consolidation of ASME Y14.1-2012 and ASME Y14.1M-2012)

Drawing Sheet Size and Format

**Engineering Product Definition and
Related Documentation Practices**

AN AMERICAN NATIONAL STANDARD



**The American Society of
Mechanical Engineers**

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CONTENTS

Foreword	vi
Committee Roster	vi
Correspondence With the Y14 Committee	vii
1 General	1
1.1 Scope	1
1.2 Purpose	1
1.3 ASME Y14 Series Conventions	1
2 References	2
3 Terms and Definitions	3
4 Drawing Sheet Sizes	4
4.1 Margins	4
4.2 Drawing Sheet Sizes	5
4.3 Computer-Generated Drawings	5
5 Formats	5
5.1 Drawing Sheet One	5
5.2 Continuation Sheets	5
5.3 Blocks	5
5.4 Lettering	5
5.5 Zoning	5
5.6 Lines	5
5.7 Segment Alignment (Optional)	6
6 Title Blocks	6
6.1 Location	6
6.2 Contents	6
6.3 Continuation Sheet Title Block	7
7 Revision History Block	7
7.1 Location	7
7.2 Contents	7
8 Revision Status of Sheets Block	7
9 Associated Lists	7
10 Additional Data Blocks (Optional)	7
10.1 Angle of Projection Block	7
10.2 Dimensioning and Tolerancing Block	7
10.3 Application Block	7
11 Additional Drawing Number Blocks (Optional)	8
11.1 Margin Drawing Number Block	8
11.2 Elongated Drawing Sheet Size Segment Identification Blocks	8
12 Data Markings	8

Figures

4-1	Smaller Metric Drawing Sheet Size Formats, A0 Through A4 Sizes	10
4-2	Elongated Metric Drawing Sheet Size Formats, A1.0, A2.1, A2.0, A3.2, A3.1, and A3.0 Sizes . . .	11
4-3	Smaller Decimal-Inch Drawing Sheet Size Formats, A Through F Sizes	13
4-4	Elongated Decimal-Inch Drawing Sheet Size Format, G Size	14
4-5	Elongated Decimal-Inch Drawing Sheet Size Formats, H, J, and K Sizes	15
4-6	Metric System Size Overview	16
5-1	Title Block for Smaller Drawing Sheet Size Formats	17
5-2	Title Block for Elongated Drawing Sheet Size Formats	18
5-3	Continuation Sheet Title Block for Smaller Drawing Sheet Size Formats	19
5-4	Continuation Sheet Title Block for Elongated Drawing Sheet Size Formats	20
5-5	Segment Alignment Arrowheads	21
5-6	Segment Identification Block	22
7-1	Revision History Block	23
8-1	Revision Status of Sheets Block	24
10-1	Dimensioning and Tolerancing and Angle of Projection Blocks	25
10-2	Application Block	26
11-1	Margin Drawing Number Block	27
12-1	Example of Location of Data Markings	28

Tables

4-1	Smaller Metric Drawing Sheet Size Formats	9
4-2	Elongated Metric Drawing Sheet Size Formats	9
4-3	Smaller Decimal-Inch Drawing Sheet Size Formats	12
4-4	Elongated Decimal-Inch Drawing Sheet Size Formats	12

FOREWORD

This Standard establishes a series of recommended drawing sizes and formats for engineering drawings. It provides a basis for uniformity in engineering drawing size and format that industry and government can use. This Standard is not intended 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 users in industry, government, and other areas.

This Standard is a revision of ASME Y14.1-2012, Drawing Sheet Size and Format and ASME Y14.1M-2012, Metric Drawing Sheet Size and Format. This revision combines both the metric and decimal-inch standards. Work on the revision of this Standard was begun in October 2016 by the members of ASME Y14 Subcommittee 1.

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

- (a) Combined ASME Y14.1-2012 and ASME Y14.1M-2012 into a single standard
- (b) Added the term “segment” to use in place of microfilm, allowing for the application of digital data
- (c) Reinstated the practice of indicating the initial release date in the area of the title block
- (d) Expanded on location of table headings for the revision status of sheets block
- (e) Expanded the practice of maintaining all sheets at the same revision level
- (f) Added “PART OR IDENTIFYING NUMBER” to the application block to align with ASME Y14.34
- (g) Added a paragraph and figure addressing data markings on drawing sheets
- (h) Expanded maximum horizontal width for H- and K-size formats to align with largest segment width indicated in [Figure 4-5](#)

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

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

This revision was approved as an American National Standard on August 14, 2020.

ASME Y14 COMMITTEE

Engineering Product Definition 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 or a case, and attending Committee meetings. Correspondence should be addressed to:

Secretary, Y14 Standards Committee
The American Society of Mechanical Engineers
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<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.

Proposing a Case. Cases may be issued to provide alternative rules when justified, to permit early implementation of an approved revision when the need is urgent, or to provide rules not covered by existing provisions. Cases are effective immediately upon ASME approval and shall be posted on the ASME Committee web page.

Requests for Cases shall provide a Statement of Need and Background Information. The request should identify the Standard and the paragraph, figure, or table number(s), and be written as a Question and Reply in the same format as existing Cases. Requests for Cases should also indicate the applicable edition(s) of the Standard to which the proposed Case applies.

Attending Committee Meetings. The Y14 Standards Committee regularly holds meetings and/or telephone conferences that are open to the public. Persons wishing to attend any meeting and/or telephone conference should contact the Secretary of the Y14 Standards Committee. Future Committee meeting dates and locations can be found on the Committee Page at <http://go.asme.org/Y14committee>

DRAWING SHEET SIZE AND FORMAT

1 GENERAL

1.1 Scope

This Standard defines sheet sizes and formats for engineering drawings. Both metric and decimal-inch sheet sizes and formats are included. For engineering product definition preparation and practices, see ASME Y14.100.

1.2 Purpose

Standardization of drawing sheet sizes and uniform location of format features on drawing forms provides definite advantages in readability, handling, filing, and reproduction of engineering drawings. When 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 standardizing drawing sheet size and format.

1.3 ASME Y14 Series Conventions

The conventions in [paras. 1.3.1 through 1.3.9](#) are used in this and other ASME Y14 standards.

1.3.1 Mandatory, Recommended, Guidance, and Optional Words

- (a) The word “shall” establishes a requirement.
- (b) The word “will” establishes a declaration of purpose on the part of the design activity.
- (c) The word “should” establishes a recommended practice.
- (d) The word “may” establishes an allowed practice.
- (e) The words “typical,” “example,” “for reference,” and the Latin abbreviation “e.g.” indicate suggestions given for guidance only.
- (f) The word “or” used in conjunction with a requirement or a recommended practice indicates that there are two or more options for complying with the stated requirement or practice.

(g) The phrase “unless otherwise specified” or “UNLESS OTHERWISE SPECIFIED” shall be used to indicate a default requirement. The phrase is used when the default is a generally applied requirement and an exception may be provided by another document or requirement.

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

(a) Reference to other ASME Y14 standards in the text without a date following the standard designator indicates that the issue of the standard identified in the References section ([section 2](#)) shall be used to meet the requirement.

(b) Reference to other ASME Y14 standards in the text with a date following the standard designator 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 References section ([section 2](#)) 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 or 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 invoking only the paragraph(s) on part or identifying numbers because the subject of the standard is engineering drawing practices and part or identifying numbers are a specific subject within the standard.

(c) When a referenced standard is cited in the text without an invoking statement, such as “in accordance with,” the standard is invoked 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.