
**Buildings and civil engineering
works — Modular coordination —
Module**

*Bâtiments et ouvrages de génie civil — Coordination modulaire —
Module*

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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 59, *Buildings and civil engineering works*.

This first edition cancels and replaces ISO 1006:1983, ISO 1040:1983, ISO 6512:1982, ISO 6513:1982 and ISO 6514:1982, which have now been merged into one document with a new logical structuring. There is no technical change compared with the previous versions.

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.

Buildings and civil engineering works — Modular coordination — Module

1 Scope

This document establishes the values of basic module, multimodules for horizontal coordinating dimensions and sub-modular increments for use in modular coordination of buildings. This document also specifies preferred vertical modular dimensions, series of preferred multimodular sizes for horizontal dimensions for all types in accordance with general principles and rules for modular coordination.

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 6707-1, *Buildings and civil engineering works — Vocabulary — Part 1: General terms*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6707-1 and the following apply.

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

— ISO Online browsing platform: available at <https://standards.iteh.ai/catalog/standards/sist/b9b95c64-d302-4489->
<https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

3.1

modular storey height

vertical dimension between two modular floor planes of two consecutive floors

[SOURCE: ISO 1791:1983, 25]

3.2

modular floor height

vertical dimension of the modular floor zone between the modular plane of the upper surface of the floor covering and the modular plane of the finished ceiling

[SOURCE: ISO 1791:1983, 27, modified — "a floor covering" has been replaced with "the floor covering".]

4 Specifications

4.1 Basic module

4.1.1 The basic module is represented by the letter **M**.

4.1.2 The international standardized value of the basic module is

$$1 \text{ M} = 100 \text{ mm}$$

NOTE [Annex A](#) provides imperial units.

4.2 Multimodules for horizontal coordination dimensions

4.2.1 The international standardized values of multimodules for horizontal coordinating dimensions are 3 M, 6 M, 12 M, 30 M, 60 M.

NOTE 1 The multimodule 15 M can also be used for special applications.

NOTE 2 See also ISO 8560.

4.2.2 The series of preferred multimodular sizes for horizontal dimensions are shown in Table 1.

Table 1 — Series of preferred multimodular sizes for horizontal dimensions

	Multimodules					
	3 M	6 M	12 M	15 M	30 M	60 M
Series of values	3 M					
	6 M	6 M				
	9 M					
	12 M	12 M	12 M			
	15 M			15 M		
	18 M	18 M				
	21 M					
	24 M	24 M	24 M			
	27 M					
	30 M	30 M		30 M	30 M	
	33 M					
	36 M	36 M				
	39 M					
	42 M	42 M				
	45 M			45 M		
	48 M	48 M	48 M			
		54 M				
		60 M	60 M	60 M	60 M	60 M
		66 M				
		72 M	72 M			
				75 M		
	78 M					
	84 M	84 M				
	90 M		90 M	90 M		
	96 M	96 M				
			105 M			
		108 M				
		120 M	120 M	120 M	120 M	
		etc.	etc.	etc.	etc.	

4.2.3 The 12 M series can be extended further to use larger increments such as 24 M where technical and economical advantages are evident.

4.2.4 The 15 M, 30 M and 60 M series correspond to the series in a system of preferred numbers which contain the factor five. These series can also be extended to use larger increments in the series of the multimodule 60 M such as 120 M or larger.

4.2.5 In the selection of sizes from [Table 1](#), preference should be given to the series of the largest multimodule compatible with functional requirements and economic design.

4.2.6 The preferred multimodular sizes for horizontal dimensions are primarily intended for sizing of components, groups of components and spaces.

4.2.7 The series are standardized for general guidance. Functional, economical and especially national considerations may justify the use of multimodular sizes which are not included in the series.

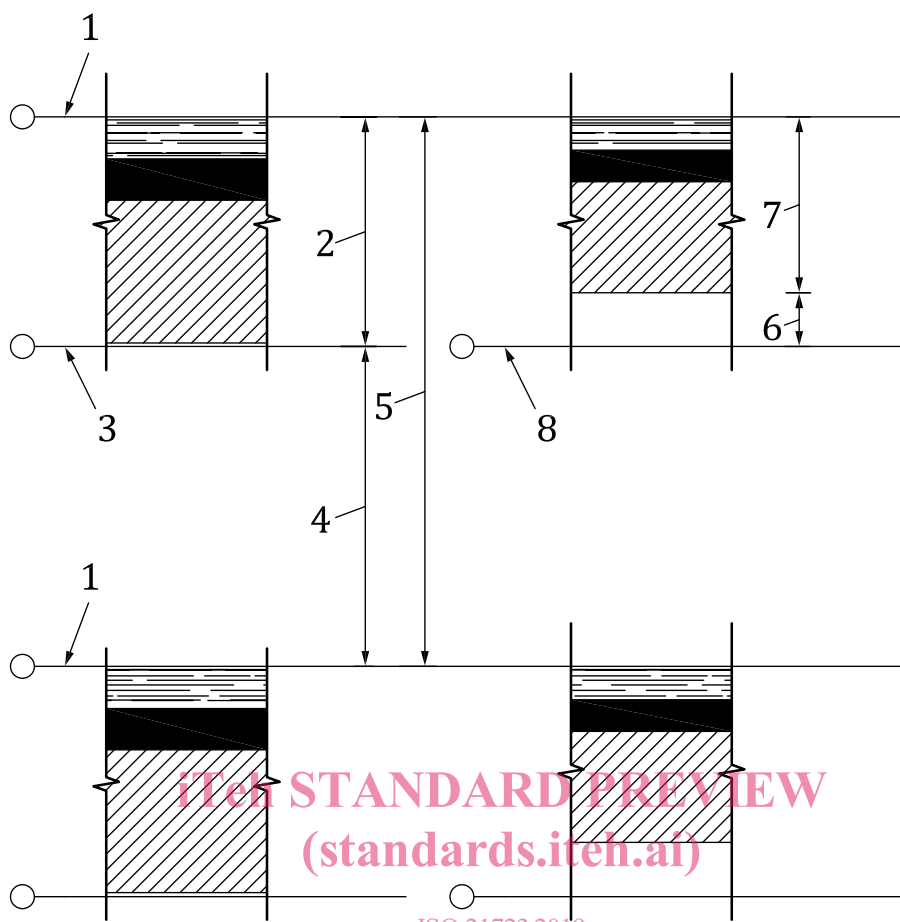
4.3 Modules for vertical coordination dimensions

4.3.1 The modular storey height and the modular room height shall be chosen from the following modular sizes:

- up to 36 M: 1 M increment step
- from 36 M to 48 M: 3 M increment step
- above 48 M: 6 M increment step

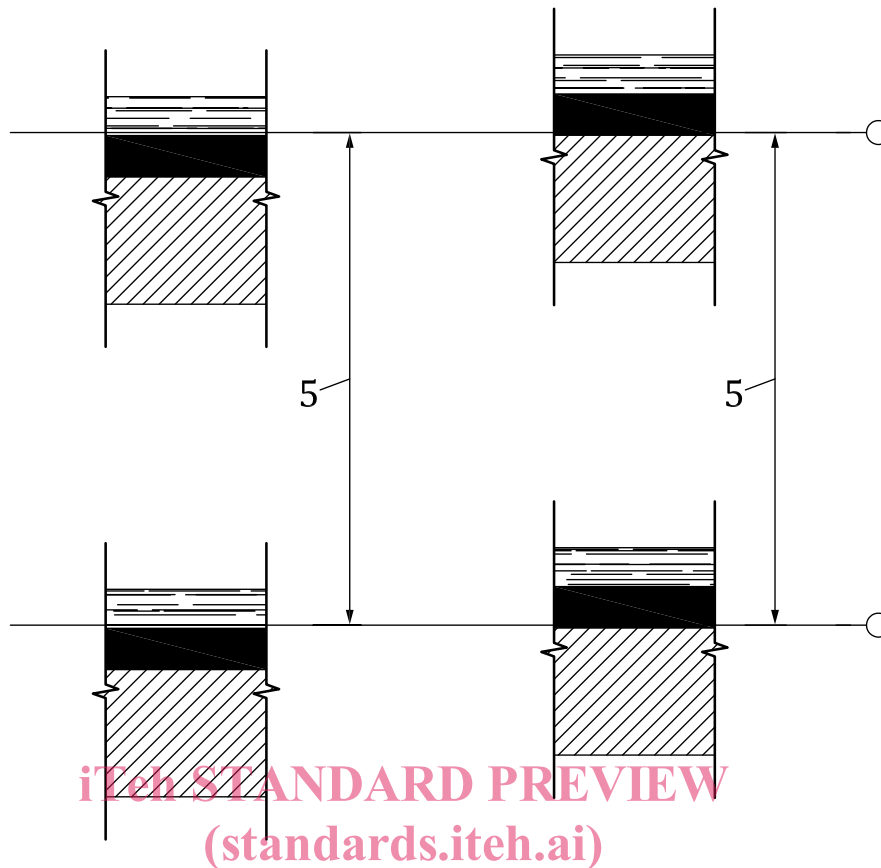
4.3.2 The modular storey height combined with the modular floor height determines the modular room height when the modular floor plane coincides with the upper surface of the floor covering [see [Figure 1](#), a)]. As the modular floor height (according to the type of building system, construction, span, etc.) may have any modular value from 2 M and upwards, the standard series for modular storey heights given above correspond to an increased series of modular room heights with 1 M increments.

In [Figure 1](#), a), b), c) and d) illustrate the situation at different positions of the modular floor plane.



a) Modular floor height - modular floor plane coinciding with the upper surface of the floor covering




b) Non-modular floor height - modular floor plane coinciding with the upper surface of the floor covering



c) Modular floor plane coinciding with the upper surface of the rough floor

d) Modular floor plane coinciding with the upper surface of the structural floor

Key

-  floor covering
-  rough floor
-  structural floor

- 1 modular floor plane
- 2 modular floor height
- 3 modular plane for finished ceiling

- 4 modular room height
- 5 modular storey height
- 6 supplementary height
- 7 non-modular floor height
- 8 modular plane nearest the finished ceiling

Figure 1 — Different positions of the modular floor plane

4.4 Sub-modular increments

4.4.1 The international standardized value of the the sub-modular increment is $M/2 = 50$ mm.

4.4.2 Sub-modular increments are to be used where there is a need for an increment smaller than the basic module.

4.4.3 Sub-modular increments should not be used for determining the distance between modular reference planes of a modular grid.