

JIS

JAPANESE INDUSTRIAL STANDARD

**Modular co-ordination of
equipment unit for dwellings**

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Modular co-ordination of equipment unit for dwellings A 0018-1992

1. Scope

This Japanese Industrial Standard specifies the modular co-ordination⁽²⁾, (hereafter referred to as MC) and its application relating to the equipment units⁽¹⁾ and the components thereof to be installed mainly in dwellings.

Notes (¹) This Standard specifies the fundamental items of MC relating to equipment units for dwellings, and its subjects herein are the sanitary units and kitchen units.

(²) The MC of equipment units and components thereof means that to apply modules to the components of appliances of equipment, pipings, etc. constituting equipment units and the dimensions between the components, for adjusting the dimensional relations with the building, and for clarifying the assembling and interchangeability of those components such as the building and appliances, piping units and appliances, and the building and equipment units.

Remarks: The applicable standards to this Standard are the following:

JIS A 0001-Building Module

JIS A 0004-Principle of Modular Co-Ordination in Buildings

JIS A 0012-Modular Co-Ordination - Sizes of Sanitary Unit
for Dwellings

JIS A 0017-Kitchen Equipment - Coordination Sizes

2. Constitution of MC

The MC of equipment units shall be constituted being based on the following elements:

- (1) Establishment of modules and preferred sizes
- (2) Application of modules to component sizes and reference planes of components
- (3) Method of determining manufacturing sizes of components
- (4) Methods of determining and co-ordinating the positions of pipings and appliances in the assembling reference system

3. Establishment of modules and preferred sizes

The establishment of modules and preferred sizes shall be in accordance with the following:

- (1) The module mentioned herein shall mean a unified dimensional system established for co-ordinating the sizes of the components of the equipment units, and shall be the numerical values in accordance with JIS A 0001, as appropriate.
- (2) Among the component sizes, a module to be used in common with each other shall be selected as preferred sizes, and the numerical values thereof shall generally be as given in the following (Unit: mm).

100, 150, 200, 300, 400, 450, 500, 600, 800, 900, 1000, 1200, 1500,
1600, 1800, 2000, 2400, 2700, 3600, 4500, 4800, 5400, 7200, 9600

4. Application of module to component sizes and reference planes of component

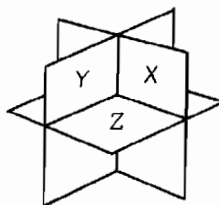
The application of the module to the component sizes and the reference plane of component shall be in accordance with the following:

- (1) In the components of an equipment unit, reference planes of components⁽³⁾ shall be established, considering the connections with the building.

Note ⁽³⁾ The reference planes of components mean the planes for reference which have been established for the indication of the component sizes and the designation of positions of the components in the case of assembling, and for the designation of the dimensions (including co-ordination planes) of respective parts of components.

- (2) The reference planes of components shall generally be established in the three directions of X, Y and Z (See Fig. 1).

Fig. 1



- (3) The establishing method of the reference planes of components varies with the type of component, however, it shall be unified for the components of the same kind of assembling method.
- (4) The methods of establishing the reference planes of components shall be in accordance with the examples of Fig. 2 and Fig. 3.
- (5) In the case where the connection with the other component is anticipated, a reference plane of component which designates a region shall be established on its boundary. In the case where connections on both sides of the plane are anticipated in a certain direction, a module of the numerical value specified in JIS A 0001 shall be applied to the distance between these, and it shall be referred to as the modular nominal dimension.

- (6) Even in the case where no connection with the other component is anticipated in a certain direction, one reference plane of component shall be established at an appropriate position for designating the position.

Fig. 2. In the case of multiple components

Fig. 2-1 Example of bathroom unit

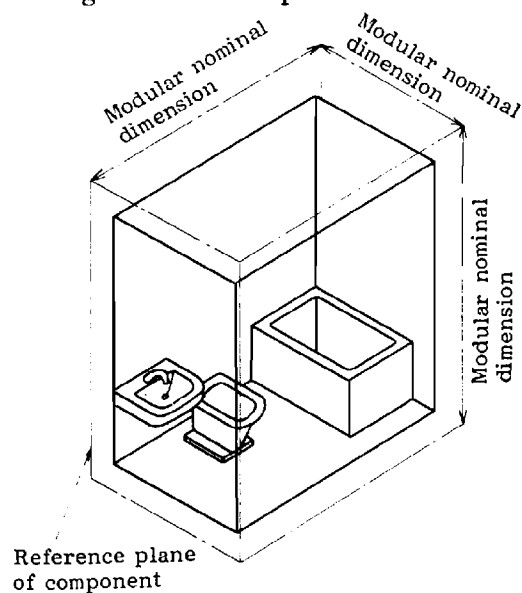


Fig. 2-2 Example of kitchen unit

