

CHAPTER 1

Terms And Definitions

The terms on Modular Coordination introduced in this Chapter ensure a common understanding by everyone and the definitions will assist others who are new to the subject. The Chapter consists of the following Sections:-

Coordination

Modules

The Building Reference System

Zones

The Controlling Reference System

The Component Reference System

The Building Component And Its Sizes

Alphabetical Index

1.1 Coordination

1.1.1 Dimensional coordination

The application of a range of related dimensions to the sizing of building components and assemblies and the buildings incorporating them.

1.1.2 Modular coordination

Dimensional coordination using the basic module, multi-modules, sub-modules and a modular reference system.

1.2 Modules

1.2.1 Module

A dimension used as a basis for dimensional coordination.

1.2.2 Basic module (M)

A module of 100mm.

1.2.3 Multi-module

A module which is an agreed multiple of 100mm.

1.2.4 Planning module

A multi-module chosen for a planning grid.

1.2.5 Sub-module

A module which is an agreed subdivision of 100mm.

1.3 The Building Reference System

1.3.1 Reference system

A system of points, lines and planes to which sizes and positions of a building component or assembly may be related.

1.3.2 Reference plane

A plane of a reference system.

1.3.3 Reference zone

A space bounded by reference planes in a building to receive a component, assembly or element including, where appropriate, allowances for tolerances and joint clearances.

1.3.4 Modular line

A line of a modular reference system.

1.3.5 Modular plane

A plane of a modular reference system.

1.3.6 Modular zone

A zone between modular planes.

1.3.7 Modular size

The size of a modular dimension.

1.3.8 Planning grid

A reference grid for the plan of a building.

1.3.9 Modular grid

A reference grid in which the distance between consecutive parallel lines is the basic module or a multiple thereof.

1.3.10 Space grid

A three-dimensional network of reference lines.

1.3.11 Modular space grid

A space grid in which the distance between consecutive parallel lines is the basic module or a multiple thereof.

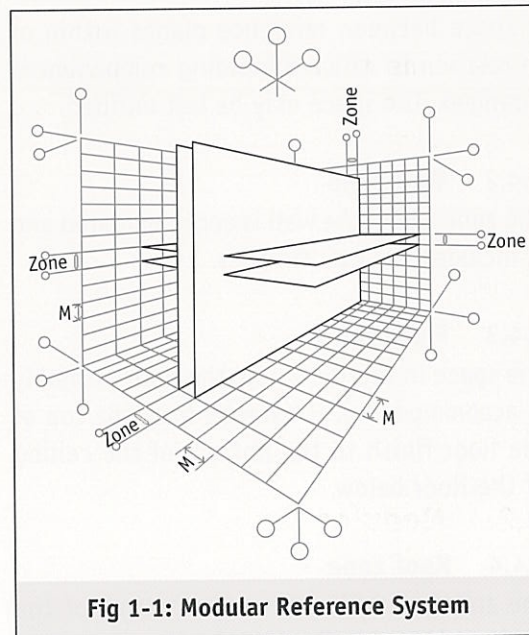


Fig 1-1: Modular Reference System

1.4 Zones

1.4.1 Zone

A space between reference planes within or in relation to which a building component is arranged. The space may be left unfilled.

1.4.2 Wall zone

The zone where the wall is accommodated and it includes the wall finishes.

1.4.3 Floor zone

The space in section where the floor assembly is accommodated, it extends from the top of the floor finish to the bottom of the ceiling of the floor below.

1.4.4 Roof zone

The zone stretching from the bottom of the ceiling of the top floor to the top of the roof of the building.

1.5 The Controlling Reference System

1.5.1 Controlling plane

A plane in a planning grid by reference to which the theoretical positions of structural elements are determined.

1.5.2 Controlling zone

A zone between controlling planes, provided for a floor, roof, loadbearing wall or column.

1.5.3 Controlling dimension

A dimension between controlling planes, such as floor-to-floor height, distance between axes of columns, thickness of controlling zone.

1.5.4 Modular floor plane

A horizontal modular plane spreading continuously over the whole of each storey of a building and coinciding with the upper surface of floor finish.

1.5.5 Floor-to-floor height

The dimension between the upper controlling plane of one floor zone and the upper controlling plane of the floor zone immediately above.

1.5.6 Floor-to-ceiling height

The dimension between the upper controlling plane of one floor zone and the lower controlling plane of the floor or roof zone immediately above.

1.5.7 Height of floor zone

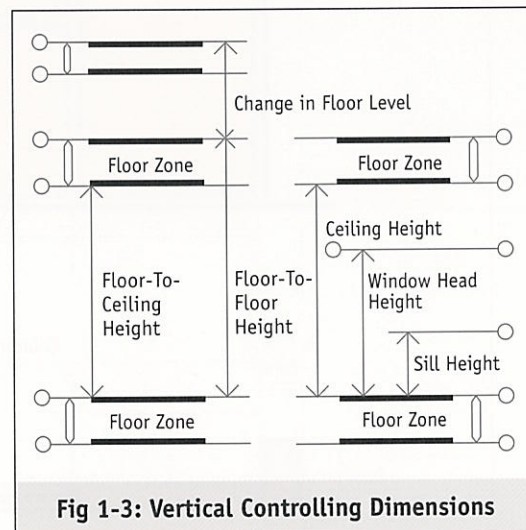
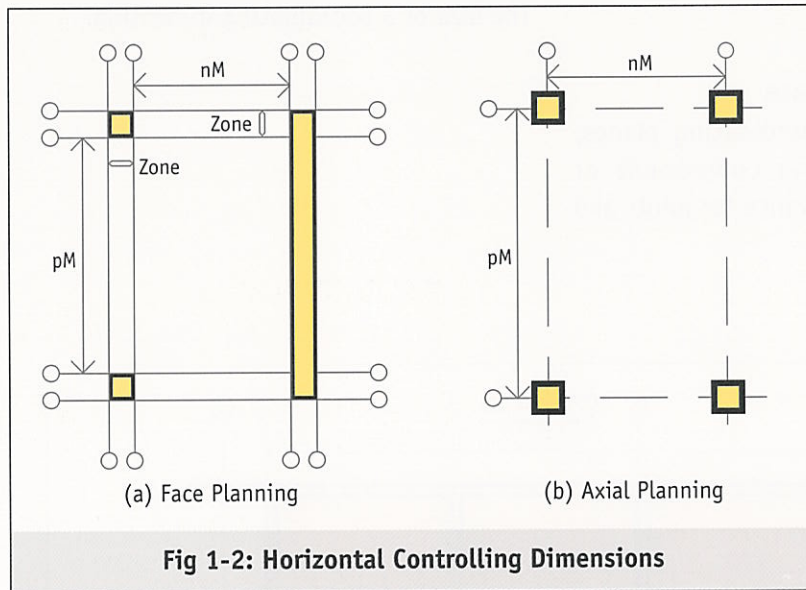
The dimension between the controlling plane of a ceiling and the upper controlling plane of the floor immediately above.

1.5.8 Floor-to-roof height

The height between the upper controlling plane of one floor and the upper controlling plane of the roof immediately above.

1.5.9 Height of roof zone

The dimension between the controlling plane of a ceiling and the upper controlling plane of the roof immediately above.



1.6 The Component Reference System

1.6.1 Coordinating line

Line bounding the zones where elements or components are fitted.

1.6.2 Coordinating plane

A plane by reference to which a building component or assembly is coordinated with another.

1.6.3 Coordinating space

A space bounded by coordinating planes, allocated to a building component or assembly, including allowance for joints and tolerances.

1.6.4 Coordinating dimension

- (1) A dimension of a coordinating space.
- (2) A dimension which is common to two or more building components to permit their assembly.

1.6.5 Coordinating size

The size of a coordinating dimension.

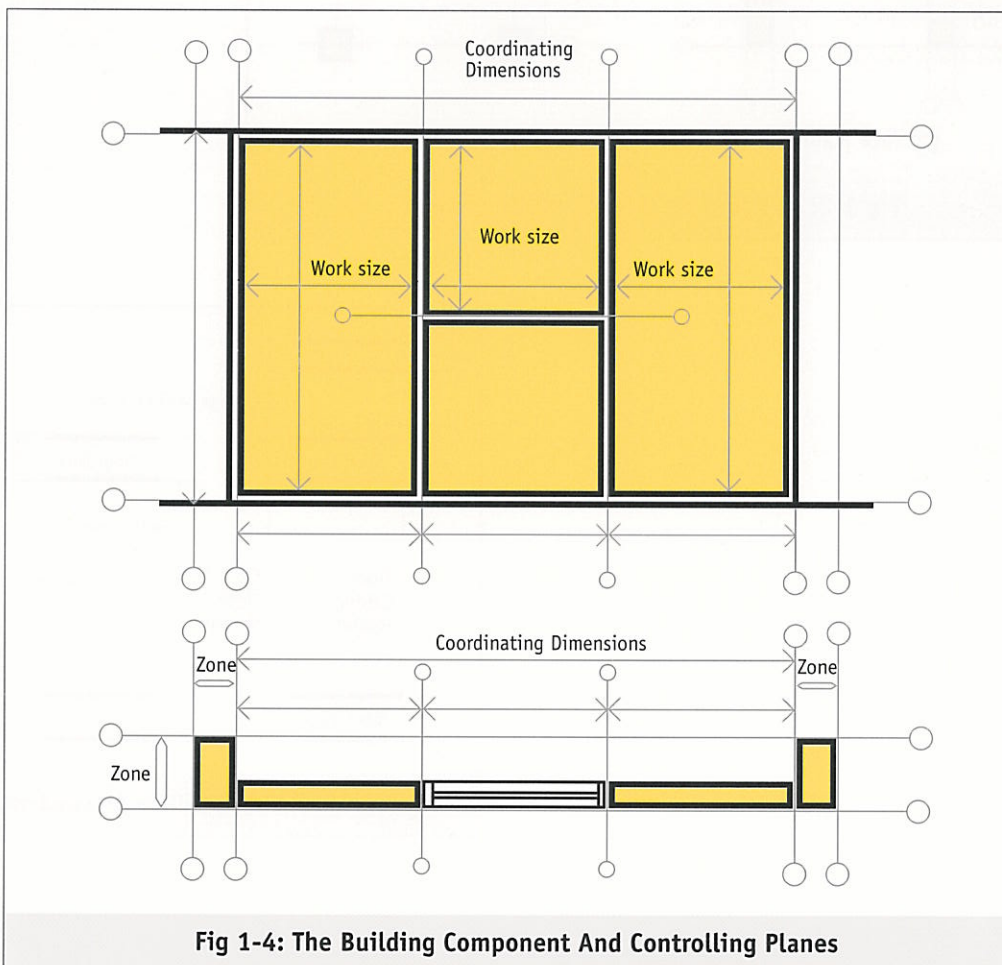


Fig 1-4: The Building Component And Controlling Planes

1.7 The Building Component And Its Sizes

1.7.1 Component

A building product formed as a distinct unit.

1.7.2 Modular component

A component whose coordinating sizes are modular.

1.7.3 Element

A part of a building or structure having its own functional identity, such as a footing, a floor, a roof, a wall or a column.

1.7.4 Modular element

An element whose coordinating sizes are modular.

1.7.5 Preferred dimension

A dimension chosen in preference to others for specific purposes.

1.7.6 Preferred size

A size chosen in preference to others for specific purposes.

1.7.7 Work size (manufacturing dimension)

A dimension used by the manufacturer of a building component or assembly to ensure that the actual dimension lies between the maximum dimension and the minimum dimension.

Terms & Definitions

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