

Topic 1 Drawing Conventions-types, scales, set-outs, line-type and symbols

Language of building

- Legal - Contracts, Regulations, Permit
- Construction - Drawings, Specifications
 - Drawings focus on a building's shape, appearance and dimensions.
 - Specifications focus on what materials will be used and how they should be installed.

Scale

- 1:10000 Locality plan
- 1:500/200 Site plan
- 1:100/50 Floor plan/ Elevations/ Sections
- 1:5/10/20 Details

Dimensions

Type - actual(chain); sequence(datum); running

Classification

- Size dimensions are placed in direct relationship to a feature to identify the specific size.
- Location dimensions are used to identify the relationship of a feature to another feature within an object.

Tolerances – minimum quality of work expected

Topic 2 How Buildings Work

Types of Construction

- Type I A, B – most fire resistant e.g. reinforced concrete
- Type II A, B and III A, B – medium fire resistant e.g. steel and masonry factories
- Type V A, B – least fire resistant e.g. lightweight timber construction

Enclosure system is the envelope of the building, roof, external walls, floors, windows, doors.

Building elements fall **three material/ construction categories**

- Monolithic e.g. concrete
- Unitised masonry e.g. brickwork
- Supporting frame with cladding e.g. timber frame with brick veneer or lightweight cladding

Elements of good thermal control

- Orientation and Windows
- Seasonal control of sun through shading
- Ventilation and control of draughts
- Thermal insulation
- Thermal mass

Safe Movement -stairs barrier provided for falls above 1 metre

Topic 3 Building Regulations

Purpose - protect the safety and health of people who use buildings and places of public entertainment and enhance the amenity of buildings

Planning Permit is a legal document giving permission for a land use or development and designed to protect the community.

Building Permit ensures the building is structurally safe, stable and complies with regulations and designed to protect the dwelling occupant

Building Control

To establish and protect minimum levels of community health, safety and amenity in buildings

Documentation for building permit (issued by relevant registered building surveyor)

1. Form 1 application for a building permit
2. 3 copies of all required drawings showing plans at each floor level, elevations, sections, dimensions, structural members, details, site plan, etc.
3. 3 copies of soil test report and structural engineer's computation
4. 3 copies of specifications – material and construction methods