

## MultiProof - design compliance with Building Code clauses

Applicants and designers should use this table as a starting point for MultiProof. It lists the Building Code clauses, summarises what you need to demonstrate and gives examples of what you typically need to provide within your plans and specifications to demonstrate compliance.

Code clause	Summary	Examples of what to provide
<b>General provisions</b>		
<b>A1 Classified uses</b>	This clause defines the seven categories of building type used in the Building Code: such as housing, communal residential, communal non-residential, etc.	State the proposed building type: such as “Housing – Detached dwelling”; or “Housing – Multi-unit dwelling”; or “Communal – Assembly Care”; or “Commercial” etc.
<b>A2 Interpretation</b>	[Defines specific terms used in the Building Code.]	No requirement
<b>A3 Building importance levels</b>	This clause defines the five building importance levels used in Clause C fire safety.	State the applicable building importance level: for example, “Importance level 2”
<b>Stability</b>		
<b>B1 Structure</b>	How the building will withstand the combination of loads likely to be experienced (for example, wind, earthquake, snow).	Define the loads and provide details of the framing and bracing. Include load and bracing calculations; schedules or drawings showing the locations and set out for framing members and bracing elements; specifications; and product information. Provide calculations and producer statements for any specific design.
<b>B2 Durability</b>	How the building elements will continue to satisfy the performance requirements of the Code for the periods stated (5, 15 or at least 50 years).	Provide information on the exposure zones, materials, use, and location of the element. Product information.
<b>Fire safety</b>		
<b>C1 Objectives of clauses C2 to C6 (protection from fire)</b>	How to: (a) safeguard people from an unacceptable risk of injury or illness caused by fire, (b) protect other property from	Refer to C2-C6. Information on use and occupant loads. Schedule of the minimum requirements for the proposed use and how these will be achieved. This may need to be

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	damage caused by fire, and (c) facilitate firefighting and rescue operations.	provided as a separate fire safety report. Specify the relevant reference documents.
<b>C2 Prevention of fire occurring</b>	How fixed appliances are designed, constructed and installed to reduce the likelihood of illness or injury due to fire.	Specify the appliance; provide product information and drawings showing the location and any key dimensions and installation details. Provide or reference the installation instructions.
<b>C3 Fire affecting areas beyond the fire source</b>	How people not in close proximity to a fire source will be protected; how fire will be prevented from spreading to other property.	Provide a schedule stating the specific requirements for the different parts of the building; locations of any fire separations required on plan, sections and elevation; construction details specifying and locating materials; product information; and specifications.
<b>C4 Movement to place of safety</b>	How people can safely escape without being delayed. Confirm that escape routes are of adequate size and length for the number of occupants.	Information and location of warning systems, escape routes, handrails, signage and emergency lighting.
<b>C5 Access and safety for firefighting operations</b>	How fire fighters and emergency services can safely access the building without being delayed or impeded.	Information on fire service vehicle and building access; locations of inlets for sprinkler systems or fire hydrants, and indicator panels.
<b>C6 Structural stability</b>	How the building will maintain structural stability during fire so that there is a low probability of injury or illness to occupants and fire service personnel; and low probability of damage to adjacent household units or other property.	Schedule stating the specific requirements; locations; construction details; product information and specifications.
<b>Access</b>		
<b>D1 Access routes</b>	How people can safely and easily enter, exit and move around the building; and ensure that people with disabilities are able to enter and carry out normal activities and functions within the building.	Provide details of stairs, nosings, handrails, slip resistance etc. State whether access for people with disabilities is required and the numbers and types of facilities required (such as ramps, accessible stairs, toilets and showers). Incorporate requirements into the plans and construction details.

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<b>D2 Mechanical installations for access</b>	How people can safely use and maintain mechanical installations for movement into, within and out of buildings.	Specify the relevant reference documents and the means of verifying compliance. Drawings, specifications, product information. Information detailing how compliance with D2.3.5 will be achieved if provided on an accessible route.
<b>Moisture</b>		
<b>E1 surface water</b>	How the building and site work are constructed to protect people and property from the adverse effects of surface water.	Specify the relevant reference documents and the means of verifying compliance. Provide calculations, size of the roof area to be drained, capacity of gutters and outlets. Details (location, size and type of material) of spouting, gutters, downpipes etc. Drawings, specifications, product information.  Note: Site work is not normally included in MultiProof plans.
<b>E2 External moisture</b>	How the building is constructed to provide adequate resistance to penetration, and the accumulation, of moisture from outside.	Risk assessment or matrix (refer to E2/AS1). Schedule of materials and finishes. Construction details showing all junctions. Drawings, specifications, product information.
<b>E3 Internal moisture</b>	How the building is constructed to safeguard people against illness, injury and amenity that could result from accumulation of internal moisture; and protect an adjacent household unit from free water in the same building.	Schedule of materials and finishes. Specifications and details to demonstrate that surfaces in wet areas are sufficiently durable, easily cleaned and designed to resist moisture, and that ventilation and the space temperature are sufficient to avoid the excessive build-up of moisture. Coving details and floor drainage to prevent free flow of water between household units.
<b>Safety of users</b>		
<b>F1 Hazardous agents on site</b>	How the building is constructed to avoid the likelihood of people within	Site specific.

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	the building being adversely affected by hazardous agents or contaminants on the site.	
<b>F2 Hazardous building materials</b>	How people are safeguarded from injury and illness caused by exposure to hazardous building materials.	Schedule of materials. Window and door schedule. Glazing schedule.
<b>F3 Hazardous substances and processes</b>	How the building is constructed to provide adequate protection to people and other property from hazardous substances and processes in buildings.	Not expected to be relevant.
<b>F4 Safety from falling</b>	How the building is constructed to reduce the likelihood of accidental fall.	Details of all barriers (handrails and balustrades); restrictors where required to windows.
<b>F5 Construction and demolition hazards</b>	Not applicable.	Site specific.
<b>F6 Visibility in escape routes</b>	How people are safeguarded from injury in escape routes during failure of the main lighting.	Where applicable provide details of emergency lighting and/or other systems, and levels of illuminance.
<b>F7 Warning systems</b>	The appropriate means of warning people to escape to a safe place in an emergency.	Specify the relevant reference documents and the means of verifying compliance. How the appropriate means has been established; what systems are required; the specification for the system; product information; the locations of detectors, sounders and call points.
<b>F8 Signs</b>	Signage for escape routes, emergency related safety features, potential hazards, and accessible routes and facilities for people with disabilities.	Where applicable provide details of signs, sign locations, and means of lighting if the main lighting fails.

### Services and facilities

<b>G1 Personal hygiene</b>	Sufficient sanitary fixtures (toilets, urinals, showers, basins etc.) to safeguard people from illness caused by infection and contamination; and where applicable ensure people with	Specify the relevant reference documents. Plans and details showing the location, layout of spaces and the fixtures and surface finishes.
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	<p>disabilities are able to carry out normal activities and processes.</p>	<p>Where applicable show how the numbers of fittings are calculated; how privacy and accessibility is achieved; and how backflow is prevented.</p>
<b>G2 Laundering</b>	<p>Adequate space and facilities for laundering; and where applicable ensure people with disabilities are able to carry out normal activities and processes.</p>	<p>Plans and details showing the location, layout of spaces and the fixtures. Where applicable show how the numbers of fittings are calculated, and how accessibility is achieved.</p>
<b>G3 Food preparation and prevention of contamination</b>	<p>Adequate space and facilities for the hygienic storage, preparation and cooking of food; and where applicable ensure people with disabilities are able to carry out normal activities and processes.</p>	<p>Specify the relevant reference documents. Plans and details showing the location, layout of spaces and the fixtures and surface finishes.</p>
<b>G4 Ventilation</b>	<p>Adequate ventilation consistent with the intended use.</p>	<p>Specify the relevant reference documents and the means of verifying compliance. Provide drawings showing: the sizes of all opening windows or other ventilators if required for ventilation; schedules showing the minimum size of openings required in each space and how this is achieved; drawings and specifications detailing the location and performance requirements for any mechanical ventilation systems.</p>
<b>G5 Interior environment</b>	<p>Adequate controlled interior temperature and activity space for the intended use; and where applicable ensure people with disabilities are able to carry out normal activities and processes.</p>	<p>Limited application.  Details of accessible counters where required to be provided.</p>
<b>G6 Airborne and impact sound</b>	<p>How building elements are constructed to prevent undue noise transmission from other occupancies and common spaces to habitable spaces of household units.</p>	<p>Specify the relevant reference documents and the means of verifying compliance. Specify the performance requirements for each element and how this is to be achieved. Specify materials and products and provide details of all building elements and flanking paths to show how this is to be achieved.</p>

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<b>G7 Natural light</b>	How natural light and visual awareness of the outside environment is provided to habitable spaces.	Provide drawings showing: the sizes of all windows; schedules showing the minimum area of glazing required in each space and how this is to be achieved; calculations to demonstrate how the performance requirements are met if using the verification method.
<b>G8 Artificial light</b>	Adequate artificial lighting to enable safe movement.	Specify the relevant reference documents and the means of verifying compliance. Specify the performance requirement for each location, specify products, and provide a lighting layout demonstrating how this will be met.
<b>G9 Electricity</b>	How the electrical system will be installed to safeguard against the outbreak of fire, and protect people; and where applicable ensure people with disabilities are able to carry out normal activities and processes.	Specify the relevant reference documents and the means of verifying compliance.
<b>G10 Piped services</b>	How potentially hazardous services containing hot, cold, flammable, corrosive or toxic fluids are constructed and installed to provide adequate safety for people.	Specify the relevant reference documents and the means of verifying compliance.
<b>G11 Gas as an energy source</b>	Where gas is used as an energy source how the supply system shall be safe and adequate for its intended use.	Specify the relevant reference documents and the means of verifying compliance; specify and locate appliances and gas meter.
<b>G12 Water supplies</b>	How sanitary fixtures and appliances will be provided with a safe and adequate water supply.	Specify the relevant reference documents and the means of verifying compliance. Specify the scope of work, materials and the water supply. Specify and locate any water storage, the water heater, any backflow preventers and other safety mechanisms.
<b>G13 Foul water</b>	How water-borne disposal is managed to safeguard people from illness due to infection or contamination and any loss of	Specify the relevant reference documents and the means of verifying compliance. Specify the scope of work, all materials,

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	amenity due to unpleasant odours and accumulation of offensive matter.	traps, vents etc. Provide a schematic layout.
<b>G14 Industrial liquid waste</b>	How industrial waste is held, treated and disposed of to safeguard people from injury or illness caused by infection or contamination.	Specify the relevant reference documents and means of verifying compliance. Specify the scope of the work; all materials; and means of holding, treating and disposing of different wastes. Provide drawings.
<b>G15 Solid waste</b>	Space and facilities for the collection and safe hygienic holding prior to disposal of solid waste arising from the use of the building.	Likely to be site specific. Where included specify the relevant reference documents, the scope of work and all materials. Provide drawings showing any chutes, screening, wash-down facility, ventilation and vermin or insect protection.
<b>Energy efficiency</b>		
<b>H1 Energy efficiency</b>	Adequate degree of energy efficiency when energy is used for modifying temperature or humidity; providing ventilation, hot water for sanitary fixtures or appliances; or for artificial lighting.	Specify the relevant reference documents and means of verifying compliance. Provide calculations and data sheets to show how performance requirements will be met. Specify the materials (such as insulation, glazing, pipe insulation) and scope of work. Provide product information. Locate on drawings and show how installed. State any conditions relating to building orientation.