

Table 8.2.4.1 - Flood hazard overlay code

Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
For accepted, accepted subject to requirement	s and assessable development (code, code (fast	tracked) and impact)
All flood hazard areas		
PO1 Development prevents the carriage or dispersal of contaminants or pollutants into the receiving environment.	AO1 The processing or storage of dangerous goods or hazardous materials is: (a) not undertaken in a flood hazard area on Flood hazard overlay maps (OM-004); or (b) is located above the defined flood level plus 300mm freeboard.	
PO2 Community infrastructure is able to function effectively during and immediately after flood events.	AO2 Design levels for <i>buildings</i> must comply with the flood immunity standards specified in Table 8.2.4.2 and Table 8.2.4.3 where within a flood hazard area identified on Flood hazard overlay maps (OM-004) . Note- Refer to SC6.2 – Planning Scheme Policy 1 – Design and Construction Standards for definition of development type categories identified in Table 8.2.4.3 .	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
PO3 Development within an Extreme flood hazard area on Flood hazard overlay maps (OM-004) is appropriate to the flood hazard risk having regard to the: (a) likelihood and frequency of flooding; (b) the flood risk acceptability of development; (c) the vulnerability of and safety risk to persons associated with the use; and (d) associated consequences of flooding in regard to impacts on proposed buildings, structures and supporting infrastructure.	 Where for Material Change of Use AO3.1 Uses within the following Activity groups are not located within an Extreme flood hazard area identified on Flood hazard overlay maps (OM-004): (a) Accommodation activities; (b) Business activities; (c) Centre activities, Community activities or Entertainment activities, except where for a Club with a maximum gross floor area of 100m²; (d) Industry activities; (e) Rural activities, except where for animal husbandry, cropping, and permanent plantation. 	
	AO3.2 Recreation activities are not located within an Extreme flood hazard area identified on Flood hazard overlay maps (OM-004) except where for: (a) Environment facility; (b) Park; and (c) Outdoor Sport and Recreation (excluding the provision of ancillary facilities or amenities conducted within a building).	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
PO4 Development is located and designed to: (a) maintain and enhance the flood conveyance capacity of the premises; (b) not increase the number of people calculated to be at risk from flooding; (c) not increase the flood impact on adjoining premises; (d) ensure the safety of all persons by ensuring that development levels are set above the defined flood level; (e) reduce property damage; and (f) provide flood safe access to buildings.	Where for Material Change of Use or Building Work AO4.1 Buildings, including extensions to existing buildings are: (a) not located within an Extreme flood hazard area on Flood hazard overlay maps (OM- 004); or (b) elevated above the defined flood level; and (c) elevated above the defined flood level plus 300mm freeboard where for habitable rooms within a dwelling.	
Note- buildings may be constructed from flood resistant, waterproof materials below the defined flood level where certified by a qualified structural engineer to be flood proof (including the ability to withstand damage from floodwater and debris) and where a performance solution to PO3 is also demonstrated.	All building work must be high set (comprising pier and beam construction) and retains the flood storage and conveyance capacity of the premises. Note- Building work must be certified by a qualified structural engineer to be flood proof including the ability to withstand damage from floodwater and debris.	
Note- in the event that a lawful building or structure is destroyed by flood or other event the building may be replaced where a building work approval is obtained and where not constituting a material change of use i.e. there is no increase in: i. gross floor area; or ii. the number of dwellings or bedrooms on the premises	Where for Material Change of Use AO4.3 New buildings are provided with flood free pedestrian and vehicle evacuation access between the building and a flood safe accessible road. Note- a flood safe accessible road includes a road where identified as no flood hazard, Low flood hazard, Potential flood hazard or Medium flood hazard on Flood hazard overlay maps (OM-004).	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
	Where for Reconfiguring a Lot AO4.4 Development does not increase the number of lots in areas of Extreme flood hazard area as identified on Flood hazard overlay maps (OM-004) except where for the purposes of public open space.	
Flood risk management minimises the impact on property and appropriately protects the health and safety of persons at risk of Extreme flood hazard, and: (a) indicates the position and path of all safe evacuation routes off the site; and (b) if the site contains or is within 100 metres of a flood hazard area, hazard warning signage and depth indicators are provided at key hazard points, such as at floodway crossings.	Where for Material Change of Use or Reconfiguring a Lot that involves new gross floor area or increases the number of persons living, working or residing in areas of High flood hazard area other than a Dwelling house AO5 No acceptable outcome.	
Note- A material change of use or reconfiguring a lot that involves new <i>gross floor area</i> or increases the number of persons living, working or residing in areas of Extreme flood hazard area as identified on Flood hazard overlay maps (OM-004) is supported by a Flood Emergency Evacuation Plan prepared by suitably qualified persons having regard to <i>Floodplain Management in Australia: Best Practice Principles and Guidelines</i> (2000), prepared by Standing Committee on Agriculture and Resource Management (SCARM), CSIRO.		



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
Where for Material Change of Use or Building Work or Operational Works PO6 Development involving earthworks in a flood hazard area below the defined flood level must protect life and property on premises and off premises through maintaining: (a) flood storage capacity of land; (b) flood conveyance function of land; (c) flood and drainage channels; (d) overland flow paths; and (e) flood warning times.	Where for Material Change of Use or Building Work or Operational Works AO6 Filling above ground level is not undertaken in areas of Extreme flood hazard area as identified on Flood hazard overlay maps (OM-004).	
High flood hazard area		
PO7 Development within a High flood hazard area on Flood hazard overlay maps (OM-004) is appropriate to the flood hazard risk having regard to the: (a) likelihood and frequency of flooding; (b) the flood risk acceptability of development; (c) the vulnerability of and safety risk to persons associated with the use; and (d) associated consequences of flooding in regard to impacts on proposed buildings, structures and supporting infrastructure.	 Where for Material Change of Use AO7.1 Uses within the following Activity groups are not located within a High flood hazard area identified on Flood hazard overlay maps (OM-004): (a) Accommodation activities, except where for dwelling house and only where the lot existed or had a lawful reconfiguring a lot approval at the commencement of the planning scheme; (b) Centre activities, except where for business activities; (c) Community activities or Entertainment activities, except where for a Club with a maximum gross floor area of 100m²; (d) Rural activities, except where for animal husbandry, cropping, and permanent plantation. 	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
	 AO7.2 Recreation activities are not located within a High flood hazard area identified on Flood hazard overlay maps (OM-004) except where for: (a) Environment facility; (b) Park; and (c) Outdoor Sport and Recreation (excluding the provision of ancillary facilities or amenities conducted within a building). 	
PO8 Development is located and designed to: (a) maintain the flood conveyance capacity of the premises; (b) minimise the number of people calculated to be at risk from flooding; (c) minimise the flood impact on adjoining premises; (d) ensure the safety of all persons by ensuring that an appropriate proportion of buildings are set above the defined flood level; (e) reduce the carriage of debris in flood waters; (f) reduce property damage; and (g) provide flood safe access. Note- buildings may be constructed from flood	Where for Material Change of Use or Building Work AO8.1 Buildings, including extensions to existing buildings are: (a) not located within a High flood hazard area on Flood hazard overlay maps (OM-004); or (b) elevated above the defined flood level; and (c) elevated above the defined flood level plus 300mm freeboard where for habitable rooms within a dwelling. (d) comply with the Queensland Development Code MP 3.5 - Construction of buildings in flood hazard areas. OR	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
resistant, waterproof materials below the defined flood level where certified by a qualified structural engineer to be flood proof (including the ability to withstand damage from floodwater and debris) and where a performance solution to PO8 is also demonstrated. Note- in some circumstances a flood safe access may be provided in the form of an emergency evacuation route.	Where for business activities or industry activities buildings the minimum floor level supporting the following elements of the development must be located above the defined flood level plus 300mm freeboard: (a) administrative areas; (b) utilities, plant and equipment associated with the building. Note- in complying with A08.2 the proponent accepts that the cost of flood impact is an operational cost of the business activity or industry activity. A08.3 All building work below the defined flood level must be high set (comprising pier and beam construction) and retains the flood storage and conveyance capacity of the premises. Note- Building work must be certified by a qualified structural engineer to be flood proof including the ability to withstand damage from floodwater and debris. A08.4 New temporary, relocatable or impermanent buildings and structures are to be anchored with the ability to withstand transportation by floodwater. Note- Building work must be certified by a qualified structural engineer.	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
	Where for Material Change of Use AO8.5 New buildings are provided with flood safe pedestrian and vehicle evacuation access between the building and a flood safe accessible road.	
	Note- a flood safe accessible road includes a road where identified as no flood hazard, Low flood hazard, Potential flood hazard or Medium flood hazard on Flood hazard overlay maps (OM-004).	
	Where for Accommodation activities AO8.6 Dwellings do not exceed four bedrooms.	
	Where for Reconfiguring a Lot AO8.7 Development does not increase the number of lots in areas of High flood hazard area as identified on Flood hazard overlay maps (OM-004) except where for the purposes of public open space.	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
Flood risk management minimises the impact on property and appropriately protects the health and safety of persons at risk of High flood hazard, and: (a) indicates the position and path of all safe evacuation routes off the site; and (b) if the site contains or is within 100 metres of a flood hazard area, hazard warning signage and depth indicators are provided at key hazard points, such as at floodway crossings. Note- A material change of use or reconfiguring a lot that involves new gross floor area or increases the number of persons living, working or residing in areas of High flood hazard area as identified on Flood hazard overlay maps (OM-004) is supported by a Flood Emergency Evacuation Plan prepared by suitably qualified persons having regard to Floodplain Management in Australia: Best Practice Principles and Guidelines (2000), prepared by Standing Committee on Agriculture and Resource Management (SCARM), CSIRO.	Where for Material Change of Use or Reconfiguring a Lot that involves new gross floor area or increases the number of persons living, working or residing in areas of High flood hazard area other than a Dwelling house AO9 No acceptable outcome.	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
Where for Material Change of Use or Building Work or Operational Works PO10 Development involving earthworks in a flood hazard area below the defined flood level must protect life and property on premises and off premises through maintaining: (a) flood storage capacity of land; (b) flood conveyance function of land; (c) flood and drainage channels; (d) overland flow paths; and (e) flood warning times.	Where for Material Change of Use or Building Work or Operational Works AO10 Filling above ground level is not undertaken in areas of High flood hazard area as identified on Flood hazard overlay maps (OM-004).	
Medium flood hazard area		
PO11 Development within a Medium flood hazard area on Flood hazard overlay maps (OM-004) is appropriate to the flood hazard risk having regard to the: (a) likelihood and frequency of flooding; (b) the flood risk acceptability of development; (c) the vulnerability of and safety risk to persons associated with the use; and (d) associated consequences of flooding in regard to impacts on proposed buildings, structures and supporting infrastructure.	Where for Material Change of Use AO11 The following uses are not located within a Medium flood hazard area identified on Flood hazard overlay maps (OM-004): (a) residential care facility; (b) retirement facility; (c) child care centre; (d) hospital; or (e) community use.	
PO12 Flood risk management minimises the impact on property and appropriately protects the health and safety of persons at risk of Medium flood hazard, and: (a) indicates the position and path of all safe	Where for Material Change of Use that involves three or more dwellings, or accommodation activities, business activities, centres activities, entertainment activities or community activities with a staff or resident or non-resident worker or guest occupancy of	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
evacuation routes off the site; and (b) if the site contains or is within 100 metres of a flood hazard area, hazard warning signage and depth indicators are provided at key hazard points, such as at floodway crossings.	more than 10 persons on premises at any one time AO12 No acceptable outcome.	
Note- A material change of use that involves new gross floor area or increases the number of persons living, working or residing in areas of Extreme flood hazard area as identified on Flood hazard overlay maps (OM-004) is supported by a Flood Emergency Evacuation Plan prepared by suitably qualified persons having regard to Floodplain Management in Australia: Best Practice Principles and Guidelines (2000), prepared by Standing Committee on Agriculture and Resource Management (SCARM), CSIRO.		



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
Medium flood hazard area, Low flood hazard ar		
PO13 Development is located and designed to: (a) maintain hydrological function of the premises; (b) not increase the number of people calculated to be at risk from flooding; (c) minimises the flood impact on adjoining premises; (d) ensure the safety of all persons by ensuring that a proportion of buildings are set above the defined flood level; (e) reduce the carriage of debris in flood waters; (f) reduce property damage; and (g) provide flood immune access to buildings.	 Where for Material Change of Use or Building Work AO13.1 Buildings, including extensions to existing buildings are: (a) elevated above the defined flood level; and (b) and the defined flood event does not exceed a depth of 600mm; and (c) elevated above the defined flood level plus 300mm freeboard where for habitable rooms within a dwelling. (d) To comply with the Queensland Development Code MP 3.5 - Construction of buildings in flood hazard areas. OR 	
Note- where the development is located in a Potential flood hazard area and there is no defined flood level as identified on Flood hazard overlay maps (OM-004) a hydraulic (flood hazard assessment) report prepared by a RPEQ is required in substantiation of a Performance Solution is required or the defined flood level from the adjacent representative hazard zone is used.	Where for business activities or industry activities buildings the minimum floor level supporting the following elements of the development must be located above the defined flood level plus 300mm freeboard: (a) administrative areas; (b) utilities, plant and equipment associated with the building. Note- in complying with A013.2 the proponent accepts that the cost of flood impact is an operational cost of the business activity or industry activity.	



Performance Outcomes	Acceptable Outcomes	Proposed Solution Explanation of how the development addresses the Acceptable Outcome and/or Performance Outcome.
	AO13.3 All building work below the defined flood level must be high set (comprising pier and beam construction) and retains the flood storage and conveyance capacity of the premises. Note- Building work must be certified by a qualified structural engineer to be flood proof including the ability to withstand damage from floodwater and debris.	
	Where for Reconfiguring a Lot AO13.4 No acceptable outcome.	
Where for Material Change of Use or Building Work or Operational Works PO14 Development involving earthworks in a flood hazard area below the defined flood level must protect life and property on premises and off premises through maintaining: (a) flood storage capacity of land; (b) flood conveyance function of land; (c) flood and drainage channels; (d) overland flow paths; and (e) flood warning times.	Where for Material Change of Use or Building Work or Operational Works AO14 Development does not involve in excess of 50m³ of fill above <i>ground level</i> per 1,000 metres squared of site area.	



Table 8.2.4.2 Flood immunity levels

Development Type	Minimum design floor or pavement levels (mAHD)
Category A	100y ARI + 0.5 metres
Category B	100y ARI + 0.3 metres
Category C	100y ARI
Category D	100y ARI
Category E	50y ARI

Table 8.2.4.3 Community infrastructure immunity levels

Development Type	Minimum design floor or pavement levels (mAHD)
Emergency services, where for:	
Emergency Shelters	500y ARI
Police facilities	200y ARI
Other Emergency services	500y ARI + 0.5m
Hospital	500y ARI + 0.5m
Community use (where for the storage of valuable records or items of historic or cultural significance including libraries and museums)	200y ARI
Special industry (where for power station)	200y ARI
Substations	200y ARI
Utility installation (where for a sewage treatment plant)	200y ARI
Utility installation (where for a water treatment plant)	200y ARI
Utility installation (other)	200y ARI
Air services	200y ARI