8.2.10 Landslide hazard and steep land overlay code³⁶ ³⁷

8.2.10.1 Application

- (1) This code applies to accepted development and assessable development:-
 - (a) subject to the landslide hazard and steep land overlay shown on the overlay maps contained within **Schedule 2 (Mapping)**; and
 - (b) identified as requiring assessment against the Landslide hazard and steep land overlay code by the tables of assessment in **Part 5 (Tables of assessment)**.
- (2) The acceptable outcomes in Table 8.2.10.3.1 (Requirements for accepted development and performance outcomes and acceptable outcomes for assessable development) are requirements for applicable accepted development.
- (3) All provisions in this code are assessment benchmarks for applicable assessable development.

8.2.10.2 Purpose and overall outcomes

- (1) The purpose of the Landslide hazard and steep land overlay code is to ensure:-
 - (a) development avoids or mitigates the potential adverse impacts of landslide hazard on people, property, economic activity and the environment; and
 - (b) development on steep land is avoided or otherwise limited in scale and intensity, and is sensitively located and designed to minimise adverse impacts on scenic amenity, the environment and public safety.
- (2) The overall outcomes sought for the Landslide hazard and steep land overlay code are the following:-
 - development in areas at risk from landslide hazard is compatible with the nature of the hazard;
 - (b) the risk to people, property and the natural environment from landslide hazard is minimised:
 - development does not result in a material increase in the extent or severity of landslide hazard; and
 - (d) development on *steep land* occurs only where the scenic and environmental quality and integrity of the landscape is maintained and safe and efficient *access* can be provided.

8.2.10.3 Performance outcomes and acceptable outcomes

Table 8.2.10.3.1 Requirements for accepted development and performance outcomes and acceptable outcomes for assessable development

Performance Outcomes		Acceptable Outcomes		
Landslid	Landslide Hazard Areas			
Risk of I	Risk of Harm to People and Property			
PO1	Development does not increase the risk of harm to people and property as a result of landslide by either:- (a) avoiding development in a landslide hazard area; or (b) undertaking development in a landslide hazard area only	AO1	Development, including associated access, is not located on land identified as a landslide hazard area on a Landslide Hazard and Steep Land Overlay Map. OR	

Editor's note—landslide hazard areas and steep land (slopes of 15% or greater) are identified on the Landslide Hazard and Steep Land Overlay Maps in Schedule 2 (Mapping). Landslide hazard may also be a risk in other areas and warrant further assessment.
 Editor's note—the Planning scheme policy for the landslide hazard and steep land overlay code and the Planning scheme

³⁷ Editor's note—the Planning scheme policy for the landslide hazard and steep land overlay code and the Planning scheme policy for development works provide advice and guidance for achieving certain outcomes of this code, including guidance for the preparation of a site-specific geotechnical assessment report.



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Performance Outcomes Acceptable Outcomes Development, including associated access, where strictly in accordance is located in a low or very low landslide with practice best hazard area, as determined by a geotechnical principles. geotechnical investigation prepared by a competent person. Note—a site-specific geotechnical assessment may be used to demonstrate that although the proposed development is shown on a Landslide Hazard and Steep Land Overlay Map as being located within a landslide hazard area, the landslide hazard risk is in fact low or very low. Where development is located on land identified as a landslide hazard area38:a competent person has certified that:the stability of the site, including buildings associated infrastructure, will be maintained during the course of the development and will remain stable for the life of the development; development of the site will not increase the risk of landslide activity on other land, including land above the site; and the site is not subject to the risk of landslide activity originating from other land; and (b) any measures identified in a sitespecific geotechnical assessment for stabilising the site or development have been fully implemented. Steep Land Risk of Harm to People and Property PO₂ Development, including associated AO2 Development, including associated access, access, does not increase the risk is not located on steep land as identified on of harm to people and property by:a Landslide Hazard and Steep Land Overlay avoiding development Мар. steep land; or OR undertaking development on steep land only where strictly Development, including associated access, in accordance with bestis located on land with less than 15% slope, geotechnical practice as determined by a site-specific slope principles. analysis prepared by a competent person. OR Where development is located on steep land39. geotechnical site-specific assessment prepared by a competent person certifies that:-(a) the stability of the site, including associated buildings and infrastructure, will be maintained during both the

As specified on a Landslide Hazard and Steep Land Overlay Map of as determined by a site-specific ge

39 As specified on a Landslide Hazard and Steep Land Overlay Map or as determined by a slope analysis.



land.

development; and

construction and operational life of the

the site is not subject to risk of landslide activity originating from other

³⁸ As specified on a Landslide Hazard and Steep Land Overlay Map or as determined by a site-specific geotechnical assessment.

Performa	nce Outcomes	Acceptab	ole Outcomes
		lopment ar	nd performance outcomes and acceptable
outcome	s for assessable development when	e for a Dwe	elling House
PO3	Where for a dwelling house, the development:- (a) is responsive to the natural topography of the site and minimises the need for cut and fill; (b) does not visually dominate the hill slope or interrupt the skyline; and (c) is visually integrated with natural site characteristics including vegetation.	AO3.1	Where for a <i>dwelling house</i> and located on land having a <i>slope</i> exceeding 15%, as identified on a Landslide Hazard and Steep Land Overlay Map:- (a) buildings are of a split level design that steps down the slope or incorporates a suspended floor construction that avoids filling and/or excavation; OR (b) any <i>filling or excavation</i> associated with buildings, structures or driveways is confined to the driveway and plan area of the <i>dwelling house</i> , with ground level being retained around the driveway and the external walls of the building(s);
			(c) any filling or excavation associated with buildings, structures or driveways:- (i) is not more than 2 metres relative to ground level or 1.0 metre relative to ground level where within 1.5 metres of any property boundary; and (ii) does not necessitate the construction of a retaining wall exceeding 2 metres in height relative to ground level.
		AO3.2	Any filling or excavation associated with buildings, structures or driveways provides for the stabilisation of any cut or fill batter through the use of landscapes and/or retaining walls.
		AO3.3	Driveways are not steeper than 20% for more than 20 metres or one quarter of their length, whichever is the lesser, and not more than 25% in any location.
		AO3.4	Parts of a driveway steeper than 20% are provided with a slip-resistant surface.

Table 8.2.10.3.2 Additional performance outcomes and acceptable outcomes for assessable development

Performance Outcomes Landslide Hazard and Steep Land		Acceptable Outcomes		
	Essential Community Infrastructure			
PO1	Essential community infrastructure is able to function effectively during and immediately after landslide events.	AO1	Development involving essential community infrastructure is not located within a landslide hazard area, or on steep land, as identified on the applicable Landslide Hazard and Steep Land Overlay Map. OR	



Performa	ance Outcomes	Acceptable	Outcomes
			Development involving essential community infrastructure is located in a low or very low landslide hazard area, as determined by a site-specific geotechnical assessment prepared by a competent person.
			Development involving essential community infrastructure:- (a) does not result in any new building work, other than an addition to an existing building; (b) does not involve vegetation clearing; and (c) does not alter ground levels or stormwater conditions.
			Development involving essential community infrastructure includes measures identified by a site-specific geotechnical assessment, prepared by a competent person, that ensure:- (a) the long term stability of the site, including associated buildings and infrastructure; (b) access to the site will not be impeded by a landslide event; and (c) the community infrastructure will not be adversely affected by landslides originating from other land, including land above the site.
PO2	Development ensures that public safety and the environment are not adversely affected by the detrimental impacts of landslide on hazardous materials manufactured or stored in bulk.	AO2	Development involving the manufacture or storage of hazardous materials in bulk is not located within a landslide hazard area, or on steep land, as identified on a Landslide Hazard and Steep Land Overlay Map. OR
			Development involving the manufacture or storage of hazardous materials in bulk is located in a low or very low landslide hazard area, as determined by a site-specific geotechnical assessment prepared by a competent person. OR
			Where development is located in a landslide hazard area ⁴⁰ , a site-specific geotechnical assessment prepared by a competent person certifies that:- (a) the stability of the <i>site</i> , including associated buildings and <i>infrastructure</i> , will be maintained during both the construction and operational life of the development; and

⁴⁰ As specified on a Landslide Hazard and Steep Land Overlay Map or as determined by a site-specific geotechnical assessment.



Dorformo	ance Outcomes	Acceptable	Outcomes
Performa	ance Outcomes	Acceptable	(b) the <i>site</i> is not subject to risk of
			landslide activity originating from
			other land.
Steep La	nd		
	ponsive Design		
PO3	Development, including associated access, is designed and constructed to:- (a) sensitively respond to the	AO3.1	No additional lot which includes a house site is created on land with a <i>slope</i> of 25% or greater.
	constraints imposed by slope; (b) minimise impacts on the	AO3.2	Development avoids or minimises <i>filling or excavation</i> by using elevated construction or stepped (split level) building forms.
	natural landform and landscape character; and (c) avoid any potential instability and associated problems, including long term stability of the site and long term stability of the development and adjoining properties.	AO3.3	Development provides for cut and fill batters to be stabilised and protected from erosion by measures such as grassing, dense landscapes, retaining walls or other suitable stabilisation/protective methods.
PO4 ⁴¹	Development is sensitively designed, sited and erected to respect and be visually integrated into the <i>streetscape</i> and the natural surroundings by ensuring: (a) adequate screening of the underneath of buildings; (b) retention, where possible, of natural landforms, drainage lines and <i>vegetation</i> ; and (c) buildings and structures are not visually intrusive, particularly from ridge lines, public open spaces, scenic routes and other critical vantage points, outside of the <i>site</i> .	AO4.1	Any building, including any associated car parking structure:- (a) has a maximum undercroft height at the perimeter of the building of 3 metres above ground level; or (b) incorporates undercroft skirting or screening (such as timber battens) to the full height of any undercroft higher than 3 metres above ground level at the perimeter of the building; or (c) incorporates landscape screening for the full height of any undercroft higher than 3 metres above ground level at the perimeter of the building. The extent of filling or excavation is
0-6	I Efficient Access		revegetated immediately following completion of the works.
PO5	Efficient Access Development provides safe and	AO5.1	Road grades comply with the standards
F03	efficient access for vehicles and pedestrians.	A03.1	specified in the Planning scheme policy for development works.
		AO5.2	Driveways are not steeper than 20% for more than 20 metres or one quarter of their length, whichever is the lesser, and not steeper than 25% in any location.
		AO5.3	Vehicle turning areas are provided at the end of driveways so that it is not necessary to reverse up or down driveways.
		AO5.4	Where a driveway is steeper than 20% in any part, it is provided with a slip-resistant surface.

⁴¹ Editor's note—the acceptable outcomes corresponding to this performance outcome represent only partial fulfillment of the performance outcome. In order to adequately address this performance outcome, other measures are also likely to be necessary.