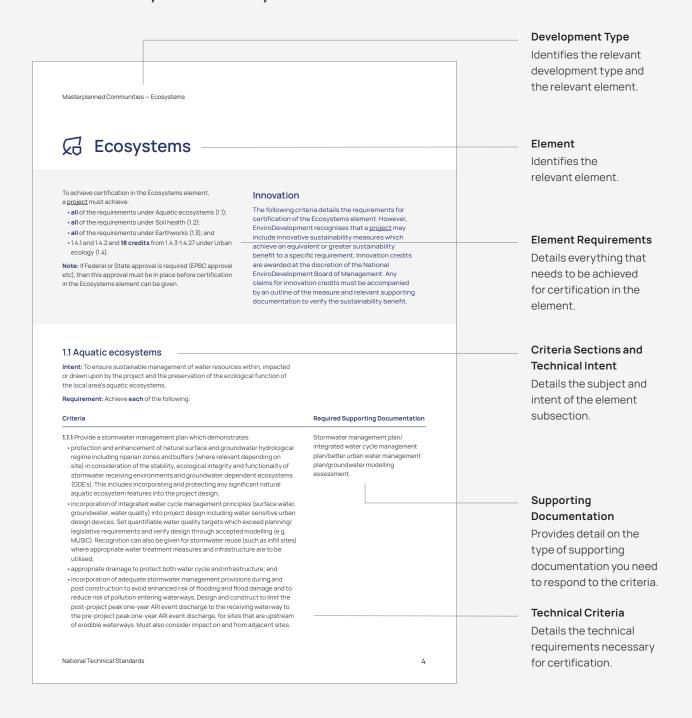






Using this document

The guide below provides useful tips on how to use this document easily and efficiently.



The process

Our certification process has been developed and is routinely refined to ensure that each project's journey through the certification process is smooth, efficient and connected.

01. Expression of interest

- Meeting to discuss EnviroDevelopment and its applicability to the project.
- Access to EnviroDevelopment National Technical Standards and Application template.
- Overview of resources available to assist in preparation of submission.
- Copy of Application Spreadsheet and Fee Schedule.

02. Project registration

- Registration fee payable.
- Site specific workshop with developer and/or project team on the application of EnviroDevelopment and how the standards apply to the project.
- Anticipate scheduling for National EnviroDevelopment Board of Management review.
- Access to EnviroDevelopment application advice.
- Access to EnviroDevelopment team to undertake application on behalf of submitter.

03. Application submission

- Respond to any requests for further information following submission.
- Draft comments provided to applicant, with opportunity to respond / clarify prior to Board review.
- Commence early discussions on media release and announcement event.

04. Board review

• Respond to any requests for further clarification (if required).

05. Certification decision

- Licensing document, logos, and statutory declaration provided for signing.
- Announcement event / media announcement coordinated.
- Framed EnviroDevelopment certificate provided.
- Project added to the list of EnviroDevelopment certified projects on the website.
- Supplied with EnviroDevelopment
- marketing material.
- Certification fee payable.

06. Ongoing certification (Annual)

- Project specific support to build the project's EnviroDevelopment branding strategy.
- Annual recertification process undertaken.
- Recertification fee payable.

Submitting an application: What you need to know

The basics

Each project should demonstrate compliance with the essential requirements as featured in this booklet.

To be recognised as a certified EnviroDevelopment, projects must meet at least four of the elements as part of a certification.

EnviroDevelopment applications will be processed within six to eight weeks of receipt of all documentation and supporting information.

Criteria

- If a particular criteria is not relevant to the project, mark the column 'not applicable' and provide reasoning why the criteria is not applicable or feasible in this instance. If a requirement is not addressed at all, with no reasoning provided, it will be determined by the National EnviroDevelopment Board of Management that this requirement has not been met.
- Examples used within the element criteria are
- Not exclusive and are intended as a compliance guide only.
- Each requirement is equal to one credit, unless otherwise stated.
- When the EnviroDevelopment National Technical Standards are reviewed and a revised set of standards is released, a certified EnviroDevelopment is required to demonstrate how the project's future stages will comply with the revised EnviroDevelopment Technical Standards. The revised standards will not apply retrospectively (i.e. to those dwellings/buildings already approved/built) and applicants will not be required to undertake further baseline studies such as further ecological assessment studies. The National EnviroDevelopment Board of Management shall retain the right to vary or amend the application of this requirement at its absolute discretion.

When should I apply?

- You should make contact with your local EnviroDevelopment Coordinator as early as possible to discuss the project and its eligibility.
- Usually, EnviroDevelopment applications are processed at least three months prior to the release of the first phase of the project for sale or commencement of leasing.
- You can delay the commencement of the term of your project's EnviroDevelopment license by up to six months to coincide with a specific project milestone.
- Preliminary certification may be available to projects that choose to apply for certification prior to receiving a development approval/planning permit.
- Where a project has obtained preliminary EnviroDevelopment certification (subject to the final development approval), supplementary documentation must be submitted after the development approval/ planning permit is received, highlighting any changes made since the preliminary certification.

What do I need to provide?

An application for EnviroDevelopment certification should include:

- a completed Application Template (available from your local EnviroDevelopment Coordinator or by emailing info@envirodevelopment.com.au); and
- supporting documentation that clearly demonstrates compliance and future delivery of initiatives to satisfy the EnviroDevelopment standards.

Costs Associated with EnviroDevelopment Certification

An EnviroDevelopment fee schedule is available from your local EnviroDevelopment Coordinator or by emailing info@envirodevelopment.com.au

Recertification fee – 20% of the original certification fee (payable annually until project elects to let certification lapse).

Annual Recertification Process

To renew EnviroDevelopment certification, the developer will be required to submit, four weeks before the renewal date:

- a completed renewal form;
- the renewal fee;
- · signed statement; and
- all appropriate documentation detailing any changes in the project that may affect the basis upon which the EnviroDevelopment license was granted from the time of the initial certification to the end of the period of renewal.

EnviroDevelopment Compliance

The following information details EnviroDevelopment's compliance mechanisms and procedures to ensure the integrity of EnviroDevelopment certification and the continued compliance of certified projects.

- EnviroDevelopment certified projects may be subject to random site checks.
- At the National EnviroDevelopment Board of Management's discretion, further information may be requested from the project at any stage during its certification.
- Developers of EnviroDevelopment certified projects must advise the UDIA within 10 business days of any changes made, or proposed to be made, to the proposed or existing project which may affect eligibility for EnviroDevelopment certification.

- If the National EnviroDevelopment Board of Management has concerns regarding compliance with the standards (or any aspect of the certification) or breach of the licensing agreement, the UDIA will advise the developer (licensee) of these concerns and request evidence of compliance within 10 business days of the notice.
- EnviroDevelopment certification may be revoked if the National EnviroDevelopment Board of Management is not satisfied that the certified EnviroDevelopment is meeting the requirements and the spirit of EnviroDevelopment. In the instance of non-conformance, the licence will be revoked and the application and licensing fees will not be refunded. There may also be cause to make public statements about such non-compliance to protect the broader integrity of EnviroDevelopment.
- The developer may be declared by the National EnviroDevelopment Board of Management to be ineligible for EnviroDevelopment certification for any project for a period of two years if found to breach the agreement or provide incorrect or false statements. Similarly, any third parties or consultants found to be providing substantially incorrect or false statements or evidence for the purpose of EnviroDevelopment certification may be declared by the National EnviroDevelopment Board of Management to be ineligible to provide evidence for EnviroDevelopment certification for a period of two years.
- The use of the EnviroDevelopment logo system is protected and action will be taken against persons or organisations found to be fraudulently representing a project, or a component of a project, as an EnviroDevelopment, or fraudulently representing any other product as EnviroDevelopment certified or endorsed.
- EnviroDevelopment certification is not an alternative to compliance with all Federal, State and Local legislative and regulatory requirements. EnviroDevelopments must fulfil all relevant legislative and regulatory requirements.

Further questions?

An EnviroDevelopment Coordinator is available to answer all queries on the certification process, and will provide timely and accurate advice. Contact details for local EnviroDevelopment Coordinators are available via the relevant UDIA state office or at envirodevelopment. com.au. Additional resources, such as case studies, a list of EnviroDevelopment Professionals and facilitation of a workshop discussion specific to a project's EnviroDevelopment application, can also be provided upon request.

Become an Envirodevelopment Professional

The EnviroDevelopment Professional program is designed to provide formal recognition of property development professionals who have undertaken a course in EnviroDevelopment and are part of a sustainability network.

EnviroDevelopment Professionals can assist by:



Being an active member of a project team who is pursuing EnviroDevelopment certification and provide advice on how the project may be eligible for certification.



Providing assistance in coordinating an EnviroDevelopment application.



Providing assistance in collating documentation for an EnviroDevelopment recertification.

A current directory of EnviroDevelopment Professionals is available on the EnviroDevelopment website. To register for training to become an EnviroDevelopment Professional, visit envirodevelopment.com.au.

Enviro Development XProfessional

Which development type are you?

It's really important that you identify which type of development your project is before you go any further in the certification process.



Masterplanned Communities

Projects primarily used for residential purposes and containing more than 1,500 dwellings.



Residential Subdivisions

Projects primarily used for residential purposes and containing less than or equal to 1,500 dwellings.



Seniors Living

Projects primarily used for seniors living or retirement living.



Multi-Unit Residential

Projects with two or more attached dwellings



Mixed Use

Projects with two or more attached dwellings.



Industrial

Projects primarily used for industrial purposes.



Retail

Projects primarily used for retail purposes.



Education

Projects primarily used for educational purposes (e.g. primary or secondary school campuses or buildings, university campuses or buildings).



Commercial

Projects primarily used for commercial purposes.



Health and Aged Care

Projects primarily used for healthcare and aged care purposes (e.g. hospitals, medical centres, aged care facilities).

02.

Residential Subdivisions

Essential requirements

To be eligible for certification, each <u>project</u> must demonstrate compliance against the following essential requirements:

- a. Establish a community education program targeting residents/tenants/users which specifically addresses:
 - information regarding the waste hierarchy of reduce, reuse and recycle;
 - energy and water efficiency; and
 - use of environmentally responsible materials, emissions and maintenance.

Example mechanisms include interpretive signage, fact sheets, and end user manuals.

- b. Demonstrate that an ecological net gain will be achieved for the project in relation to local native vegetation communities and fauna habitat resources. This must include identifying and implementing appropriate strategies prior to commencement of works.
- C. Where relevant, recycle and reuse all vegetative debris on site (e.g. for landscaping or composting purposes). If not feasible, arrangements should be made for vegetative debris to be transported for reuse or disposed of by a licensed recycler or reprocessor. There should be no pit burning of green waste on site.

- d. Demonstrate assessment of solar orientation options to provide best practice solar access opportunities.
- **e.** Demonstrate how the project will reduce greenhouse gas emissions beyond regulatory requirements.
- f. Demonstrate how the project will reduce <u>potable</u> water consumption for irrigation.
- **g.** Demonstrate how community consultation and feedback has been incorporated into the project's design or activities.

Ecosystems

To achieve certification in the Ecosystems element, a <u>project</u> must achieve:

- all of the requirements under Aquatic ecosystems (1.1);
- all of the requirements under Soil health (1.2);
- all of the requirements under Earthworks (1.3); and
- 1.4.1 and 1.4.2 and **10 credits** from from Flora systems and **8 credits** from Fauna systems under Urban ecology (1.4).

Note: If Federal or State approval is required (EPBC approval etc), than this approval must be in place before certification in the Ecosystems element can be given.

Innovation

The following criteria details the requirements for certification of the Ecosystems element. However, EnviroDevelopment recognises that a project may include innovative sustainability measures which achieve an equivalent or greater sustainability benefit to a specific requirement. Innovation credits are awarded at the discretion of the National EnviroDevelopment Board of Management. Any claims for innovation credits must be accompanied by an outline of the measure and relevant supporting documentation to verify the sustainability benefit.

1.1 Aquatic ecosystems

Intent: To ensure sustainable management of water resources within, impacted or drawn upon by the project and the preservation of the ecological function of the local area's aquatic ecosystems.

Requirement: Achieve each of the following:

Criteria

1.1.1 Provide a stormwater management plan which demonstrates:

- protection and enhancement of natural surface and groundwater hydrological regime including riparian zones and buffers (where relevant depending on site) in consideration of the stability, ecological integrity and functionality of stormwater receiving environments and groundwater dependent ecosystems (GDE's). This includes incorporating and protecting any significant natural aquatic ecosystem features into the project design;
- incorporation of integrated water cycle management principles (surface water, groundwater, water quality) into project design including water sensitive urban design devices. Set quantifiable water quality targets which exceed planning/legislative requirements and verify design through accepted modelling (e.g. MUSIC). Recognition can also be given for stormwater reuse (such as infill sites) where appropriate water treatment measures and infrastructure are to be utilised;
- appropriate drainage to protect both water cycle and infrastructure; and
- incorporation of adequate stormwater management provisions during and post construction to avoid enhanced risk of flooding and flood damage and to reduce risk of pollution entering waterways. Design and construct to limit the post-project peak one-year ARI event discharge to the receiving waterway to the pre-project peak one-year ARI event discharge, for sites that are upstream of erodible waterways. Must also consider impact on and from adjacent sites.

Required Supporting Documentation

Stormwater management plan / integrated water cycle management plan / better urban water management plan / groundwater modelling assessment.



Required Supporting Documentation

- **1.1.2** Demonstrate that any herbicide or pesticide use is undertaken in such a way to avoid contamination of aquatic ecosystems. Applicant is to demonstrate that:
 - alternative pest control measures have been considered with the intent to avoid/minimise use of pesticides and herbicides;
 - any use of herbicides and pesticides can be undertaken safely, with conservation benefit outweighing risk of harm; and
 - potential environmental impacts of herbicide/chemical use have been considered and that significant impacts are not anticipated.
- **1.1.3** Where there is an ecological need, provide water features that allow habitat and refuge for fauna.

Statement outlining steps to minimise use of pesticides (including termite control), herbicides and artificial fertilisers and/or weed and pesticide management plan.

Stormwater management plan and ecological study.

1.2 Soil health

Intent: To ensure construction practices retain the ecological integrity of the soil to assist in achieving better environmental outcomes.

Requirement: Achieve each of the following:

Criteria

Required Supporting Documentation

- **1.2.1** Take soil samples in areas that are to be retained for vegetative growth to ensure an understanding of soil characteristics. For soils used for revegetation purposes, the organic content of the soil, pH and nutrient status shall be similar to that of undisturbed native soils of ecosystems that support the appropriate plant species intended for the site.
- Soil or landscape management plan, including test results.
- **1.2.2** Unless soil is heavily contaminated, retain insitu or stockpile and reuse all topsoil to best advantage on site. Where topsoil is minimal or absent and subsoil is deemed suitable for amendment, stockpile subsoil on site.
- Evidence in plans of topsoil stockpile location and management requirements.

Note: Wherever possible, stockpiles should be no more than 1.5m high with maximum 1:2 batter and once stockpiling completed, covered with a green cover crop to avoid erosion, desiccation and solarisation.

- **1.2.3** Restrict access to site by vehicles to nominated roadways or parking areas, well away from existing trees or intended public realm areas, to minimise compaction. Rip compacted soil once building works are completed. Ensure building wastes, particularly liquid wastes do not contaminate the soil.
- Construction management plan, identifying access locations.
- **1.2.4** Recycle and reuse all vegetative debris on site (e.g. for topsoil augmentation or composting purposes). If onsite reuse is not feasible, arrangements should be made for green waste to be transported for reuse or disposed of at a fully licensed recycler or reprocessor. There should be no pit burning of green waste on site or disposal to landfill.
- Statement from developer and registered landscape architect.



Required Supporting Documentation

1.2.5 Amend, mulch and revegetate soils disturbed during construction as well as soils on the remainder of the site where the site has formerly been used for farming, forestry, industrial, commercial or urban land uses. Demonstrate that soils are suitable for intended purposes.

Soil or landscape management plan.

1.3 Site analysis and earthworks

Intent: To reduce the disturbance of construction works on the site's natural topography and nearby waterways.

Requirement: Achieve each of the following:

Criteria

Required Supporting Documentation

- 1.3.1 Conduct thorough site analysis prior to planning and design to identify:
 - areas of prime ecological significance;
 - presence of local native flora and fauna as well as pest species;
 - habitat areas and/or connections between habitat areas;
 - · opportunities for re-vegetation; and
 - opportunities for vegetation retention.
 - the project must adequately consider and preserve significant areas based on the advice of this report.
- **1.3.2** Demonstrate that an ecological net gain will be achieved for the project in relation to local native vegetation communities and fauna habitat resources. This must include identifying and implementing appropriate strategies prior to commencement of works.

Options to achieve a net gain through the life of the project may include:

- rehabilitation works demonstrating a net gain in the ecological condition and functionality of vegetation communities/fauna habitat resources will be achieved post development.
- environmental offset provisions associated with development which achieve a net gain in ecological attributes of significance via onsite, offsite or financial contribution modes of offset delivery.
- direct benefit management approaches to support conservation of native wildlife created by development. Examples may include contribution to a local wildlife hospital or funding of academic research.
- 1.3.3 If identified through site analysis, demonstrate that the project incorporates impact mitigation measures targeting <u>threatened species</u> such as Koala (Phascolarctos cinereus). Measures include fauna friendly fencing, establishment of refuge habitat, domestic animal management protocols to protect native fauna and traffic calming devices.

Site analysis outlining areas which require protection Ecological Context report/report section and/or Ecological Assessment Report.

Statement from Ecologist summarising net gain works and activities including Ecological Assessment report and/or Flora/Fauna Management plan.

Detailed measures with supporting information including Ecological Assessment report.

Criteria	Required Supporting Documentation
1.3.4 The project is planned, designed and constructed in manner that achieves a balanced earthworks outcome (no spoil or import). Where spoil is generated it shall be disposed of in a location requiring import and not to landfill.	Statement from engineer.
Note: Projects which require importation of fill for groundwater or other environmental considerations may apply for discretion under this criteria.	
1.3.5 Plan, implement and maintain effective erosion and sediment control measures during construction and operation. As a minimum, these should exceed relevant legislative and regulatory requirements.	Erosion and sediment control plan / soil and water management plan, staging plan and statement of compliance from an appropriately qualified professional.
1.3.6 Ensure appropriate staging of earthworks to ensure bare earthworks are avoided in high-risk areas of the site during dominant rainfall periods and the area and duration of bare earthworks is minimised during construction.	Statement from engineer.
1.3.7 Design and construct street layout to respond sensitively to the existing landform and topography.	Pre and post civil contour maps.
Note: The achievement of this criteria should be balanced with solar orientation and other sustainability considerations including walkability/ accessibility outcomes.	
1.3.8 Where there is contamination identified on site, employ best practice techniques to remediate contaminants including rehabilitation to meet regulatory	Contamination report and details on remediation actions.

1.4 Urban ecology

requirements and suit future uses.

 $\textbf{Intent:} \ \textbf{To ensure there is a comprehensive strategy for the project that retains}$ the existing ecological attributes and functions of the site or creates new opportunities for the establishment or restoration of degraded ecosystem values and functions.

Requirement:

- i. Meet **each** requirement under Essential actions;
- ii. Meet the requirements of 10 credits of the 'Flora systems' options (1.4.3 - 1.4.16); and
- iii. Meet the requirements of **8 credits** of the 'Fauna systems' options (1.4.17 - 1.4.27).

Criteria	Required Supporting Documentation
1.4.1 Demonstrate that <u>environmental weeds</u> will not be utilised in landscaping works.	Statement from registered landscape architect / horticulturalist.



1.4.2 Reduce urban heat island effect. This needs to be demonstrated through adoption of at least 5 of the following options:

- reduction of hardstand areas;
- consideration of roof reflectiveness, material and area;
- · consideration of road reflectiveness;
- utilisation of different materials for construction (e.g. open-grid pavement);
- incorporation of breezeways and greenways;
- provision of shading to roads, footpaths and bicycle paths;
- maximising vegetative cover;
- · WSUD outcomes; and/o
- green (vegetated) or shaded surfaces.

Required Supporting Documentation

Evidence from environmental science professional, registered landscape architect (or related professional) and plans. <u>Design guidelines</u> should also be included if measures include requirements regarding roof colour.

Flora systems

Requirement: Achieve at least 10 credits from the following options.

- **1.4.3** Develop a climate change risk assessment for the site which considers the following factors which are directly relevant to the project site including:
 - · flooding;
 - · sea level rise;
 - · consideration of extreme events;
 - · biodiversity decline; and
 - bushfire hazards.
- **1.4.4** Locate on a <u>brownfield</u> site or site that had been <u>significantly modified</u> from its natural state and had little or limited existing ecological value.

2 credits - >75% of the site area has been <u>significantly modified</u>.

3 credits - brownfield site.

Note: This credit is not available for sites that have been cleared of vegetation as part of the current project, or a previous phase of a broader project of which the current project is part, or if the site was cleared of vegetation by the proponent for any reason in the 10 years prior to the EnviroDevelopment application date.

1.4.5 All plant species introduced to the site for landscaping <u>public spaces</u> (excluding those areas designated for turfed recreation areas), or for landscaping private areas prior to sale are <u>locally native</u>. Plant selection should consider flora that provide a diverse range of food resources to fauna. Plant selection that provides resources for limited fauna types/species is to be avoided.

1 credit - 90% of all plant species

2 credits - 100% of all plant species

Note: In relevant climates, species selected specifically to allow solar access are excluded from the 90% or 100% requirement.

Climate change risk assessment report/statement from appropriately qualified professional.

Details of use of site prior to new development including predevelopment site photos and statement from environmental professional /registered landscape architect/related professional detailing ecological value of the site prior to development.

Landscape palette and statement from ecologist.

Required Supporting Documentation

1.4.6 Rehabilitate degraded natural ecosystems in excess of regulatory requirements.

1 credit can be allocated for each 20% in excess of regulatory requirements, with a maximum of 5 credits for 100% in excess of regulatory requirements. In addition to credits for on-site rehabilitation areas, credits can also be claimed for off-site rehabilitation areas which have a conservation value and specific connection to the project (noting that off-site areas can only be claimed once). Credits can only be obtained under this criteria for works carried out by the project. Paid offsets are not eligible to apply for credits under this criteria.

Note: Projects without a regulatory requirement to deliver rehabilitation may be awarded credits at the discretion of the National EnviroDevelopment Board of Management, having regard to amount of rehabilitation relative to size and nature of the project.

- **1.4.7** Incorporate Water Sensitive Urban Design principles into design of public realm. This may include:
 - living waterways;
 - · water wise street trees; and
 - dual-use public realm.

1.4.8 Prepare and implement bushfire mitigation and management plans which are cognisant of the principles of bushfire ecology (fire-adaptive flora, fire behaviour impact study etc) and take appropriate management actions in a manner that avoids ecological impacts.

1.4.9 Where appropriate, retain mature vegetation in the streetscape, public open space and within private lots. This can be demonstrated by retaining vegetation or transplanting vegetation.

Note: Over 50% of identified mature healthy trees must be retained in project to achieve credit.

- ${\bf 1.4.10} \ {\bf Mandated} \ design \ controls \ within \ the \ project \ to \ achieve \ 1 \ native \ tree \ species \ being \ planted \ in \ front \ yard \ of \ each \ dwelling.$
- **1.4.11** Mandated design controls within the project so that no more than 25% of front yard is allocated to turfed areas, increasing opportunity for locally native planted species.
- **1.4.12** Establish a native plant procurement program to assist with supply issues of local provenance stock for the purposes of landscaping of public open space areas, private land holdings and the local region. This may include seed collection and propagation from surrounding area and sourcing locally native species for local nurseries.

1.4.13 Establish and encourage vegetation communities within the project, with the incorporation of <u>threatened species</u> or communities (either local, state or national) within public realm plantings.

Evidence from environmental science professional, registered landscape architect (or related professional).

Maintenance plan and schedule and details of arrangements.

WSUD report

Bushfire management plan.

Tree retention plan

Design guideline controls

Design guideline controls

Details of program including establishment timeframes, landscape plan, details of operator, and evidence of procurement collection

Evidence from environmental science professional, registered landscape architect (or related professional) and landscape plans including landscape palette.

1.4.14 Implement a monitoring and maintenance plan (at least 5 years in duration) to assess flora and habitat quality and health.

1.4.15 Demonstrate the incorporation of food bearing and/or cultural landscapes within the public realm.

1.4.16 Contribute green space significantly in excess of the planning authority requirements for green space.

Credits are to be allocated pro-rata for each 20% in excess of local government requirements and 5 credits for 100% in excess of local government requirements. This is capped at a maximum of 5 credits. Stringent design guidelines or other protective measures to secure the use of private land for open space and flora and fauna purposes may also be applicable and contribute to the green space calculations for EnviroDevelopment purposes (however, if the longevity of such measures is likely to be less than through other means there may need to be a discount factor used in the calculations).

Note: Credits can be claimed if evidence is provided of off-site land holdings, however this land holding can only be claimed once and must have nature conservation value.

Required Supporting Documentation

Monitoring plan and details of timeframes and responsibility matrix.

Statement from registered landscape architect / horticulturalist.

When claiming credits under this category, a statement of compliance must be provided regarding the ongoing ownership and maintenance arrangements (in the form of an approved management plan) for this land to provide certainty about the longevity of its maintenance as green space.

The ecological function of the green space pre and post development works should be articulated.

Fauna systems

Requirement: Achieve at least 8 credits from the following options

1.4.17 Where appropriate and cognisant of the road hierarchy and traffic volumes, identify and use potential habitat trees within streetscape / open space areas which provide foraging opportunities and related biodiversity benefits.

1.4.18 Implement a monitoring and maintenance plan (at least 5 years in duration) to assess fauna health.

1.4.19 Ensure ecological corridors are not severed by road networks without provision of appropriate fauna crossings, bridges or tunnels (1 credit).
Demonstrate that retained corridors link to offsite protected areas/habitat (2 credits).

1.4.20 Provide appropriate structures and policies to facilitate native fauna habitation (e.g. fauna boxes, hollow trees, relocate felled timber to open space areas).

1.4.21 Provide features that allow sheltering, breeding or refuge habitat for terrestrial and/or aquatic native fauna.

Evidence from environmental science professional, registered landscape architect (or related professional) and details of beneficiary species.

Monitoring plan and details of timeframes and responsibility matrix.

Evidence from environmental science professional, registered landscape architect (or related professional).

Evidence from environmental science professional, registered landscape architect (or related professional).

Evidence from ecological professional, including details on habitat created and targeted species.

Criteria	Required Supporting Documentation
 1.4.22 Provide fauna habitat within the project through the installation of at least one of the following options: native bee boxes; bird boxes; and/or nest boxes. 	Details on amount and location. Statement from registered ecologist on how the bees/boxes will improve ecological function.
These should be installed by an <u>appropriately qualified professional</u> and form part of a broader strategy for fauna habitat creation.	
1.4.23 Adopt measures to manage native fauna through maintenance of habitat and control of non-native predators.	Pest management strategy or similar.
1.4.24 Have dog and/or cat exclusion zones to allow safe movement of native fauna, particularly in wildlife corridors.	Evidence from environmental science professional (or related professional). <u>Design guidelines</u> / covenants.
1.4.25 Where the project is located adjacent to a sensitive area such as a national park or nature reserve or conservation area, minimise light pollution during and post-construction to limit ecological light pollution i.e. no direct beam light should be directed beyond the site boundaries or upwards, except where it is falling directly on a surface that it is intended to illuminate (exemptions may be made for illuminated place names).	Lighting plans and statement from environmental science professional, registered landscape architect (or related professional).
1.4.26 Demonstrate that overall masterplan will achieve 30% canopy cover in the public realm.	Evidence from Landscape Architect.
Note: The public realm includes all space outside of the private residential lot, including the streetscape, parks and rehabilitated areas with the project boundary.	

Fauna management plan.

 $\textbf{1.4.27} \, \mathsf{Develop} \, \mathsf{a} \, \mathsf{site} \, \mathsf{specific} \, \mathsf{fauna} \, \mathsf{management} \, \mathsf{plan} \, \mathsf{for} \, \mathsf{the} \, \mathsf{demolition} \, \mathsf{and} \,$

construction phases of the project.

% Waste

To achieve certification in the Waste element, a <u>project</u> must achieve:

- all of the requirements Essential action (2.1); and,
- 2.2.1 and **one credit** from 2.2.2-2.2.5 under Postconstruction phase (2.2).

Innovation

The following criteria details the requirements for certification of the Ecosystems element. However, EnviroDevelopment recognises that a project may include innovative sustainability measures which achieve an equivalent or greater sustainability benefit to a specific requirement. Innovation credits are awarded at the discretion of the National EnviroDevelopment Board of Management. Any claims for innovation credits must be accompanied by an outline of the measure and relevant supporting documentation to verify the sustainability benefit.

2.1 Essential action

Intent: To identify the most suitable opportunities for recycling of resources available to the site.

Requirement: Achieve the following:

Criteria

- **2.1.1** The contractor implements a comprehensive, project-specific, waste management plan for the pre-construction, civil works and construction phases of the project. At a minimum, the waste management plan should meet all legislative requirements and align with relevant waste targets (where set and applicable) and include the following:
 - waste generation;
 - waste systems;
 - minimisation strategy;
 - performance / reduction targets;
 - bin quantity and size;
 - collection frequency;
 - waste contractors; and
 - · monitoring and reporting including frequency and method.

${\bf Required\,Supporting\,Documentation}$

Site waste management plan endorsed by the developer, with further statements from the engineer as appropriate. The plan must address each of the requirements for the preconstruction and construction phases.



Required Supporting Documentation

2.1.2 Recycle or reuse a minimum of 80% (by weight or volume) of demolition, land clearing and civil works materials/products (including vegetative debris) on site. In the event that demolition, land clearing or civil works materials cannot be recycled on site, full details of the operators to be engaged (including all licences they hold to operate) and materials streams to be recovered as part of the off site activity must be provided.

Details of existing materials on site and arrangements and estimates of waste streams and generation.

Note:

- i. Hazardous materials (e.g. asbestos, contaminated soil) are excluded.
- ii. If reuse on site is not feasible, the establishment of partnerships which embrace industrial ecology principles is strongly encouraged.
- **2.1.3** Manage and dispose/treat all hazardous substances, pollutants and contaminants in accordance with all legislative requirements. Where these materials are treated or used on site, that must occur in accordance with a sanctioned remediation process.
- Details of any on site treatment processes for hazardous substances, pollutants, contaminants or acid sulphate soils must be provided and such processes must be supported by approved State Agency requirements and laws.
- **2.1.4** Provide guidance for builders working on site regarding waste practices. At a minimum, the following should be included:
 - the use of skip bins rather than cages;
 - maintenance of waste records;
 - use of contractors who transport waste to a licensed recycling centre;
 - select materials and products which minimise or use recycled packaging; and
 - design dwellings to maximise use of standard sizes of materials wherever possible.

The above requirements must be mandated in display villages and buildings directly controlled by the developer.

<u>Design guidelines</u>, educational information or similar.

2.2 Post-construction phase

Intent: To provide recycling opportunities and facilities for end users to reduce waste going to landfill.

Requirement: Achieve the following:

Criteria

Required Supporting Documentation

2.2.1 Where waste infrastructure is required to be installed in public spaces, include separate waste receptacles for general and recyclable waste.

Note: Board discretion may be given if the local authority prohibits the provision of separate recycling receptacles.

Evidence in plans and <u>statement of</u> <u>compliance</u> from developer and local authority.

Required Supporting Documentation

Requirement: Achieve at least one credit from the following options:

2.2.2 Provide on lot and/or on site facilities for a compost facility for use by each dwelling/facility. If individual household/facility compost bins cannot be provided, a communal facility may be provided. Compost facility should be at least one cubic metre in size and can be used to recycle a balanced mix of green material (fruit and vegetable scraps) and brown material (twigs).

In the instance that a communal compost facility is provided, evidence in the form of an agreement or contract should be provided detailing how the responsibility and ongoing maintenance of the facility will be managed.

2.2.3 Ensure that there are arrangements in place (e.g. contract with appropriate organisation, body corporate procedures or local government service) to provide collection and reuse of garden/green waste.

<u>Statement of compliance</u> from developer and local authority or service provider.

2.2.4 Establish and/or facilitate during development and occupancy phases, use of a recycling centre where mulch, rock, fencing, and other construction materials can be crushed and reused to provide landscaping supplies for occupants.

Evidence of proposed location and timing for recycling centre.

2.2.5 Repurpose sales office or display suite by:

- utilising it at another development site; or
- retaining on site for a permanent use (e.g. community building, café etc).

<u>Statement of compliance</u> from Developer detailing intent.



To achieve certification in the Energy element, a <u>project</u> must achieve:

- all of the requirements under Climate responsive design (3.1);
- 3.2.1 under Peak load (3.2);
- two credits from 3.3.1-3.3.6 or meet 3.3.7 under Reduction in greenhouse gas emissions (3.3); and
- if the project includes any community facilities, meet **all** of the requirements under Community facilities (3.4)

Innovation

The following criteria details the requirements for certification of the Ecosystems element. However, EnviroDevelopment recognises that a project may include innovative sustainability measures which achieve an equivalent or greater sustainability benefit to a specific requirement. Innovation credits are awarded at the discretion of the National EnviroDevelopment Board of Management. Any claims for innovation credits must be accompanied by an outline of the measure and relevant supporting documentation to verify the sustainability benefit.

3.1 Climate responsive design

Intent: To ensure that the project is underpinned by a comprehensive strategy which considers climate responsive design to improve comfort levels for occupants.

Requirement: Achieve each of the following:

Criteria

3.1.1 At least 70% of lots within the project must demonstrate favourable orientation to provide best practice solar access opportunities.

Required Supporting Documentation

Provide evidence that lot layouts, including the positioning of fenestration/access points, habitable/ non-habitable zones and associated outdoor areas (as appropriate) have been/will be designed to encourage ideal solar orientation. This may include a site analysis of local climatic data (average monthly temperatures, humidity, rainfall, wind speed/ direction), topography, solar access (including sun paths), overshadowing, glare and privacy.

Required Supporting Documentation

3.1.2 Dwellings and their associated outdoor spaces are positioned in a manner that will enhance the solar amenity of the primary living areas, both internal and external.

Provide evidence that building orientations have been/will be designed to encourage ideal solar orientation. This may include a site analysis of local climatic data (average monthly temperatures, humidity, rainfall, wind speed/ direction), topography, solar access (including sun paths), overshadowing, glare and privacy. Also provide evidence that good design intentions are assured through project process by the provision of a system of education, advice, control and monitoring, including the use of building envelope plans administered through design guidelines.

3.1.3 The project is designed to minimise extremities in temperatures, including negative microclimatic factors.

Statement from planner or engineer with reference to specific examples.

3.1.4 The design of <u>public spaces</u> optimises microclimatic conditions at all times of the year.

Statement from planner or engineer with reference to specific examples.

3.2 Peak load

Intent: To ensure that the project has adequately considered and sought to implement mechanisms to reduce peak load.

Requirement: Achieve the following:

Criteria

Required Supporting Documentation

3.2.1 Demonstrate how peak load has been considered at a masterplanning level. This may include but is not limited to peak load management in <u>community facilities</u>, requirements in <u>design guidelines</u>, load limiting devices, direct load control or other hardwired inventions.

Evidence in electrical plans or design guidelines or similar and a <u>statement</u> of <u>compliance</u> from engineer or developer.

3.3 Reduction in greenhouse gas emissions

Intent: To reduce greenhouse gas emissions within the project.

Requirement: Achieve at least **two** credits from the following options, or meet 3.3.6:

Note: Projects located in Victoria are not eligible to receive credit for 3.3.2. For projects located in New South Wales, demonstrate a 20% improvement beyond minimum thermal performance within BASIX.

Criteria

3.3.1 Green power

Mandated use for 80% of dwellings to be:

- supplied by solar power or other non-polluting, renewable power source. (1 credit)
- battery storage (2 credits)

3.3.2 Water heating and appliances

Mandated use of:

- · heat pump; or
- solar hot water (gas or electric boosted).

And, mandated use of appliances which produce less greenhouse gas emissions. This should include at a minimum:

- dishwashers with an energy consumption of ≤245kWh per annum; and
- air conditioning systems with COP of ≥3.20 and EER of ≥3.00.

3.3.3 NatHERS rating

Mandated design controls within the project to achieve minimum NatHERS rating for each dwelling:

- 7.5 -8 star (1 credit)
- 9-10 star (2 credits)

Required Supporting Documentation

Statement from engineer showing capacity and supporting guidance within <u>design guidelines</u> regarding optimal positioning for performance.

Statement of compliance from developer and design guidelines which include placement guidelines.

Appliance palette including product manufacturer, number and energy star rating and/or COP and EER.

<u>Design guidelines</u> and supporting evidence of energy efficiency using BERS, Accurate or FirstRate5 using second generation software systems' thermal calculation method.

Required Supporting Documentation

3.3.4 Reduction through design

Mandated design controls through <u>design guidelines</u> including at a minimum:

For projects located within <u>climatic zones</u> 1-3:

- light coloured roofs with an absorbance value of less than or equal to 0.6;
- design to encourage breezes and circulation around dwellings;
- east and west walls have an insulation level of at least R2.0;
- shaded or appropriate glazed windows;
- use of louvres and/or fly screens/security screens to maximise natural ventilation for prevailing breezes; and
- naturally ventilated living spaces.

For projects located within <u>climatic zones</u> 4-8:

- ventilated living spaces;
- minimum National Construction Code compliant levels of insulation; and
- thorough use of draught seals.

<u>Statement of compliance</u> from developer and design guidelines.

3.3.5 Demand/behavioural management

This may include:

- technology including sensors, timers etc.
- access to smart app which allows remote controls of lighting and air conditioning;
- education using community-based social marketing and use of normative messaging, end user manual, community workshop; and/or
- use of load monitoring devices to provide feedback (e.g. energy monitors).

Evidence in design guidelines or electrical plans with statement of compliance from engineer or developer. Evidence of end user manual and proposed structure of end user education program.

3.3.6 Street lighting

Where street lighting is installed in the project, install:

- solar powered street lights; and/or
- smart street lighting with motion sensor dimming technology; and/or
- light coloured road surface to maximise luminance.

Evidence in electrical plans with statement of compliance from engineer or developer.

Alternative compliance

3.3.6 Reduction through other means

Reduce greenhouse gas emissions within the project by at least 20% more than required under relevant Federal and State government regulatory means.

Statement from engineer showing the energy requirements of the project and the energy savings compared to regulatory requirements (i.e. energy balance calculations/modelling).

Mechanisms to achieve reductions to be specified.

3.4 Community facilities

Intent: To reduce energy usage in community facilities.

Requirement: Where the project includes <u>community facilities</u>, achieve **each** of the following:

Criteria

Required Supporting Documentation

3.4.1 Where swimming pools are installed in the project, demonstrate consideration of pump systems that are energy efficient and environmentally friendly. This includes but is not limited to:

Statement from developer.

- variable speed control;
- variable-frequency drives; or
- · variable-speed pumps.
- 3.4.2 In community facilities utilise (where relevant)
 - energy efficient lighting (e.g. LED or Compact Fluorescent Lamp); and
 - dishwashers with an energy consumption of ≤245kWh per annum; OR
 - provision of green power or solar power or other non-polluting, renewable power source.

Statement from engineer and relevant plans or green power agreement.

Materials

To achieve certification in the Materials element, a <u>project</u> must achieve:

- all requirements from Healthy buildings (4.1) across the entire project; and
- the requirements under Environmentally responsible materials (4.2) according to the correct applicant description.

Innovation

The following criteria details the requirements for certification of the Ecosystems element. However, EnviroDevelopment recognises that a project may include innovative sustainability measures which achieve an equivalent or greater sustainability benefit to a specific requirement. Innovation credits are awarded at the discretion of the National EnviroDevelopment Board of Management. Any claims for innovation credits must be accompanied by an outline of the measure and relevant supporting documentation to verify the sustainability benefit.

4.1 Healthy buildings

Intent: To increase the use of finishes and products which minimise the levels of emissions in buildings.

Requirement:

Land-Only Developers:

- Meet the requirements in any buildings which are directly contracted by the developer within the project (e.g. community buildings/facilities, sales offices etc).
- ii. Provide explicit wording and guidance in design guidelines regarding the use of low emission paints, sealants and adhesives and the related health benefits.

Land and Built Form Developers:

i. Meet the requirements across the entire project, including all dwellings.

Land and Some Built Form Developers

- Meet the requirements in all dwellings completed by the developer within the project.
- ii. Provide explicit wording and guidance in design guidelines regarding the use of low emission paints, sealants and adhesives and the related health benefits.

Criteria

4.1.1 Use <u>low emission</u> products on 90% of internal surfaces. This includes:

- low emission paints;
- low emission sealants;
- low emission adhesive; and
- low emission floor coverings.

Required Supporting Documentation

Statement from developer and architect and/or interior decorator as applicable, stating how this requirement has been met. Details including product name, number and data sheet should also be provided.

4.1.2 All composite and engineered wood products (including exposed and concealed applications) comply with the following formaldehyde emissions levels (or equivalent):

- panels with Particleboard base: E1 or better
- panels with MDF base: E0 or better
- other engineered wood products (LVL, Glulam, CLT, plywood etc): better than E0.

Required Supporting Documentation

Statement from developer and architect and/or interior decorator as applicable, stating how this requirement has been met. Details including product name, number and data sheet should also be provided.

4.2 Environmentally responsible materials

Intent: To promote the use of environmentally responsible materials in the project.

Requirement:

Land-Only Developers:

- i. Meet the requirements under 'Roads' and **two** others under 'Civil works' options (4.1.2-4.1.4) across the entire project, or meet 4.1.9; and
- ii. Meet the requirements under 'Structure', 'Envelope/linings' and **one** other under 'Built form' options (4.1.5-4.1.8) in any buildings which are directly contracted by the developer within the project (e.g. community buildings/facilities, sales offices etc.), or meet 4.1.9.

Note: If no buildings are to be directly contracted by the developer, built form requirements do not apply.

Land and Built Form Developers:

- i. Meet the requirements under 'Roads' and **two** others under 'Civil works' options (4.1.2-4.1.4) across the entire project, or meet 4.1.9; and
- ii. Meet the requirements under 'Structure', 'Envelope/linings' and **one** other under 'Built form' options (4.1.5-4.1.8) in all dwellings, or meet 4.1.9.

Land and Some Built Form Developers:

- i. Meet the requirements under 'Roads' and **two** others under 'Civil works' options (4.1.2-4.1.4) across the entire project, or meet 4.1.9; and
- ii. Meet the requirements under 'Structure', 'Envelope/linings' and **one** other under 'Built form' options (4.1.5-4.1.8) in all dwellings completed by the developer within the project, or meet 4.1.9.

Criteria

Required Supporting Documentation

Civil works

4.21 Roads

95% of constructed roads use **one or more** of the following materials:

- a. concrete with ≥30% supplementary cement materials or ≥30% of recycled aggregate and utilising a minimum 50% captured or reclaimed water;
- b. asphalt which contains at least 10% reclaimed asphalt pavement (RAP) content (or the maximum allowable RAP content for the application);
- c. warm mix asphalt replacing 40% by weight of hot mix asphalt; and/or
- d. recycled materials used for road base or sub-base.

Statement from supplier and supporting technical information.

Required Supporting Documentation

4.2.2 Services

95% of constructed services infrastructure use ${\bf one}\ {\bf or}\ {\bf more}$ of the following materials:

- a. PVC content is reduced to zero through replacement with alternative materials;
- b. PVC content is sourced from an ISO 14001 certified supplier;
- c. concrete pipes with ≥30% supplementary cement materials or ≥30% of recycled aggregate and utilising a minimum 50% captured or reclaimed water; and/or
- d. recycled plastic piping.

Statement from quantity surveyor, engineer and/or supplier and supporting technical information.

4.2.3 Hard Landscaping

95% of constructed hard landscape materials use one or more of the following materials:

- e. reused or salvaged materials;
- f. materials which have a recycled content (e.g. park furniture made from recycled plastic); and/or
- g. concrete with ≥30% supplementary cement materials or ≥30% of recycled aggregate and utilising a minimum 50% captured or reclaimed water.

Statement from supplier and supporting technical information.

4.2.4 Soft Landscaping

Throughout the project:

- a. any vegetative debris from the site is mulched and reused; and
- b. any non-contaminated topsoil is stockpiled and reused within the site.

Statement from landscape architect, including details of quantities, uses and attributes.

Built form

4.2.5 Structure

The structure of the built form (both above and below ground) uses **one or more** of the following materials:

a. concrete with ≥30% supplementary cementious materials or >30% of recycled aggregate and utilising a minimum 50% captured or reclaimed water;

Note: Where structural integrity is an issue, the percentage should reflect the highest allowable replacement to be incorporated.

- b. 80% non-structural steel with a recycled content ≥15% or an Environmental Product Declaration complying with EN15804; (x) 60% of structural steel from a supplier who is both ISO14001 compliant and a member of the World Steel Association's Climate Action Program;
- c. pre-cast panels with >15% supplementary cement materials;
- d. structural timber which is certified to a PEFC Programme for Endorsement of Forest Certification) standard such as AFS (Australian Forestry Standard) or FSC (Forest Stewardship Council) standard; and/or covered by an Environmental Product Declaration complying with EN15804;
- e. bricks containing a recycled content of at least 25% or an Environmental Product Declaration complying with EN15804; and/or
- f. reused materials (post-consumer) are utilised for \geq 30% of the structure.

Statement from supplier and supporting technical information.

4.2.6 Envelope / linings

The building envelope uses **one or more** of the following materials:

- a. timber window frames which are PEFC (e.g. AFS) or FSC accredited/endorsed;
- b. aluminium windows which contain ≥20% recycled aluminium or glass by mass;
- c. plasterboard consists of ≥10% recycled gypsum; and/or
- d. plasterboard consists of recycled paper.

Statement from supplier and supporting technical information.

4.2.7 Services

Building services achieve one of the following:

- a. 25% of the total cost of PVC content is reduced to zero through replacement with alternative materials;
- b. PVC content is sourced from an ISO 14001 certified supplier; and/or
- c. alternative products are used in preference to sheet metal.

Statement from quantity surveyor, engineer and/or supplier and supporting technical information.

4.2.8 Furniture, fixtures, equipment and finishes

Furniture, fixtures, equipment and finishes uses at least **one** of the following:

- a. underlay consists of 95% recycled product;
- b. minimum 50% of the carpet has a rating of level 2 or greater under the Australian Carpet Classification Scheme Environmental Classification Scheme;
- c. joinery is PEFC (e.g. AFS) or FSC certified/endorsed; and/or
- d. materials which have a recycled content of ≥60%.

Statement from supplier and supporting technical information.

Alternative compliance

4.2.9 Use lifecycle assessment (LCA) to quantify the environmental performance of materials selected for the project. At a minimum, the LCA(s) should be in accordance with:

- EN 15978 and demonstrate a combined 20% weighted improvement against standard practice in environmental performance using weightings that comply with the Building Products Innovation Council's lifecycle Inventory Data Protocol; or
- ISO 14044 and EN 15978 and demonstrate a 20% improvement in environmental performance in Global Warming Potential and three other environmental impact categories against standard practice, expressed in impacts per functional unit. As required by the standards, the functional unit should reflect the core purpose of the development (kgCO2e/occupant/year). Alternatively, a lifecycle assessment in accordance with the above conditions can be provided in lieu of any of the options outlined under 4.1.1 4.1.8.

Lifecycle assessment of relevant products and details of quantities and uses within the project.

OR

EPDs and/or certifications

OR

80% of procured materials have an Environmental Product Declaration (EPD) or are certified under a recognised environmental certification scheme.



To achieve certification in the Materials element, a <u>project</u> must achieve:

- **Two credits** from 5.1.1-5.1.3 or meet 5.1.4 under Reduction in potable water demand (5.1); ;
- all of the requirements under Irrigation requirements (5.2); and
- if the project includes any <u>community facilities</u>, **all** of the requirements under Community facilities (5.3).

Innovation

The following criteria details the requirements for certification of the Water element. However, EnviroDevelopment recognises that a project may include innovative sustainability measures which achieve an equivalent or greater sustainability benefit to a specific requirement. Innovation credits are awarded at the discretion of the National EnviroDevelopment Board of Management. Any claims for innovation credits must be accompanied by an outline of the measure and relevant supporting documentation to verify the sustainability benefit.

5.1 Reduction in potable water demand

Intent: To reduce household potable water consumption.

Requirement: Achieve at least **two credits** from the following options, or meet 5.1.6:

Criteria

5.1.1 Utilise non-potable water source by achieving at least one of the following:

- a. Project mandates through design guidelines, covenants or encumbrances rainwater tanks on lots over 300m2 which are plumbed to dwellings;
- b. Non-potable source service that is plumbed to dwellings; and/or
- c. Project includes a central storage facility which captures either stormwater or rainwater for reuse within dwellings.
- **5.1.2** Project mandates through design guidelines or similar water efficient fixtures. At a minimum mandated fixtures must include:
- a. showerheads that use <7.5 litres per minute;
- b. taps to bathrooms, kitchen and laundry that use <6 litres per minute;
- c. a dishwasher with a water consumption of ≤14 litres per use; and
- d. a washing machine with a water consumption of \leq 90 litres per use.

5.1.3 Project provides dedicated water efficient landscaping packages for private open space/outdoor areas. Water efficient landscaping packages must include the provision of at least 70% endemic/native drought tolerant species.

${\bf Required\,Supporting\,Documentation}$

Statement from engineer and relevant plans.

Design guidelines and details of building design review processes.

Landscape palette and statement from landscape architect.

Required Supporting Documentation

Alternative compliance

5.1.4 Reduce <u>potable water</u> usage within the project (excluding common area irrigation requirements captured in 5.2.1) by at least 20% more than required under relevant Federal and State government regulatory means.

Design guidelines and worked calculations showing how initiatives will achieve at least 20% reduced potable water usage compared to regulatory compliance.

5.2 Irrigation requirements

Intent: To reduce the use of <u>potable water</u> for irrigation purposes in the public realm.

Requirement: Achieve each of the following:.

Criteria

5.2.1 Use drought tolerant species which have no irrigation requirements for the public realm.

Where irrigation is required either for the purposes of establishment or for ongoing watering, water should be supplemented from a non-potable source including through:

- stormwater harvesting (e.g. broad scale collection of stormwater runoff for use in irrigation);
- plumbing of recycled water reticulation (such as dual reticulation facilitating the reuse of treated effluent water);
- greywater reuse (e.g. plumbing to facilitate reuse of greywater on lot);
- rainwater harvesting (e.g. collection of rainwater in tanks from roof runoff);
 and/or
- use of underground water sources.

Note: the following exemptions may apply:

- <u>potable water</u> used during the establishment phase (maximum establishment phase is considered three years for trees, two years for shrubs and one year for herbaceous cover);
- <u>potable water</u> used to irrigate non-commercial food production gardens if accompanied by an effective irrigation minimisation strategy; and
- potable water used for playing / sports fields.

Required Supporting Documentation

Landscape palette and statement from landscape architect.

Certification by engineer or local government engineer or development assessment officer or other appropriately qualified professional (e.g. through water balance calculations and hydrological modelling and a statement) that sufficient non-potable water will be available and that the civil works will be constructed in such a way as to facilitate its harvest and use. (Such infrastructure should be constructed as part of the civil works.)

If using an underground water source, certification of bore licence and capacity should be provided. Must also show proof of recharge (by hydrogeologist) and water balance calculations to show that there will be no net drain to aquifer. Where irrigation is sourced from a recycled water or grey water supply, a soil management plan must be provided.

If potable water is used to irrigate noncommercial food production gardens, an irrigation minimisation strategy must be provided.

Criteria	Required Supporting Documentation
5.2.2 Demonstrate that irrigation will be delivered via the most efficient system for that situation. This could include the use of integrated sensors and/or weather monitoring. Water should be directly applied to the vegetation to limit evaporation, runoff or wastage.	Irrigation plan or statement from landscape architect regarding irrigation methods.
5.2.3 Where sandy or clay soils are present in the public realm, soil is ameliorated to increase the effectiveness and efficiency of irrigation.	Statement from registered landscape architect.
5.2.4 Mulch (at a minimum depth of 75mm) is applied to planted areas and maintained.	Statement from registered landscape architect.

5.3 Community facilities

Intent: To reduce the use of potable water in community facilities.

 $\label{eq:community facilities} \textbf{Requirement} : \textbf{Where the project includes } \underline{\textbf{community facilities}}, \text{ achieve } \textbf{each} \\ \text{of the following:}$

Criteria	Required Supporting Documentation
5.3.1 Where an outdoor swimming pool is included within the project, a pool blanket is included.	Statement from developer.
5.3.2 Where a swimming pool is included within the project, ensure there is a backwash minimisation system in place (e.g. cartridge filter, filter utilising cyclone technology, oversized sand filter, centrifugal / pre-filter device, backwash recycling system or similar).	Statement from developer.
 5.3.3 In community facilities utilise (where relevant): waterless urinals; taps with water usage of <6 litres per minute; showerheads that use <7.5 litres per minute; and dishwashers with a water consumption of <14 litres per use. 	Statement from engineer and relevant plans.
 OR connect to a non-potable water source for indoor non-drinking water uses. 	
5.3.4 In <u>community facilities</u> ensure there is easy access to a potable water source (e.g. water bubbler or water tap).	Statement of compliance from developer evidence on plans.

്റ് Community

To achieve certification in the Materials element, a <u>project</u> must achieve:

- all of the requirements under Essential actions (6.1); and
- the requirements of **five** of the following sections:
- Community engagement (6.2)
- · Care for Country (6.3)
- Corporate social responsibility (6.4)
- Sustainability initiatives (6.5)
- Efficient and accessible transport (6.6)
- Engaging and inclusive public realm (6.7)
- Housing diversity and economic prosperity (6.8)
- Food sensitive design (6.9)
- Connected communities (6.10)
- Internet (6.11)
- · Safe and accessible living (6.12)
- Healthy and active communities (6.13)

Innovation

The following criteria details the requirements for certification of the Community element. However, EnviroDevelopment recognises that a project may include innovative sustainability measures which achieve an equivalent or greater sustainability benefit to a specific requirement. Innovation credits are awarded at the discretion of the National EnviroDevelopment Board of Management. Any claims for innovation credits must be accompanied by an outline of the measure and relevant supporting documentation to verify the sustainability benefit.

6.1 Essential actions

Requirement: Achieve each of the following:

Criteria

- **6.1.1** Demonstrate that the project is driven by a clear vision, with defined environmental, economic, social sustainability and liveability goals including measurable performance targets.
- **6.1.2** Demonstrate how the project has been designed to encourage a safe environment, reduce crime and encourage positive interaction between residents/employees and other local people using the area, according to Crime Prevention Through Environmental Design (CPTED).

Required Supporting Documentation

Evidence of project vision and goals with corresponding measurable performance targets.

Evidence in plans, and statement from planner.

6.2 Community engagement

Intent: To proactively and meaningfully engage in effective and informed consultation with the local community.

Requirement: Achieve each of the following:

		ia

Required Supporting Documentation

6.2.1 Demonstrate efforts to proactively engage with members of the existing community prior to application lodgement who may have an interest in the project through the preparation of a community engagement plan which outlines a schedule of engagement activities. Evidence should be provided that feedback sought has been considered, and incorporated where feasible and appropriate.

Consultation/stakeholder engagement strategy.

Note: If project is purchased by applicant AFTER development approval has been given, consideration may be given if efforts are made immediately to engage with community.

6.2.2 Establish a structure or framework for ongoing community involvement and establish ongoing partnerships with the community created by the project. The framework should include some of the activities listed in 6.2.2-6.2.7 and commence within one year of the occupation of the first dwelling and continue through until the last stage. The framework should also include a plan to encourage the establishment of a self-sufficient community group by project completion.

Evidence of structure and framework including a list of measurables and delivery timeframes.

6.2.3 Establish a strategy to ensure ongoing engagement with the community around delivery impacts. At a minimum this should include information regarding dust & noise, working hours and additional traffic.

Details of strategy with implementation timeline.

Requirement: Achieve at least three credits from the following options, or identify other actions appropriate to the local context:

6.2.4 Facilitate local community grants programs.

Details of programs including financial investment and timeframes.

6.2.5 Sponsor, facilitate and/or provide local community groups/events. May be within the project or supporting the surrounding community.

Details including schedule, purpose and nature of the sponsorship.

6.2.6 Involve inclusive employment practices in the project by involving the

- practices by involving the following in construction activities:
 - · local trainees;
 - · people with disabilities.

• mature aged apprentices; and/or

Details including arrangements and planned activities and timeframes.

6.2.7 Engage with local environmental groups/catchment organisations for ongoing community-based environmental restoration and maintenance activities. Details including arrangements and planned activities and timeframes.

6.2.8 Provide or support an existing resource (e.g. community development officer or program) to facilitate and support community development for the project.

Details including responsibilities, level of commitment and hours of commitment

6.3 Care for Country

Intent: To ensure the project has engaged with First Nations Peoples and incorporated initiatives.

Requirement: Achieve the following:

Criteria	Required Supporting Documentation
6.3.1 Demonstrate proactive engagement with members of the local First Nations People commencing prior to application lodgement who may have an interest in the project through the preparation of a First Nations engagement plan which outlines an ongoing schedule of consideration and consultation throughout the project.	Consultation/stakeholder engagement strategy.
6.3.2 Demonstrate incorporated initiatives derived from ongoing consultation with First Nations People.	Evidence of implementation through list of guiding activities.

6.4 Corporate social responsibility

Intent To ensure the developer behind the project has implemented corporate social responsibility measures

Requirement: Achieve **two** of the following:

Criteria	Required Supporting Documentation
6.4.1 Establish and implement a clearly formulated corporate social responsibility strategy. The strategy should have clear goals set against a timeline of activities and implementation actions.	Corporate social responsibility strategy and evidence of implementation.
6.4.2 Establish and implement a company Modern Slavery Statement.	Modern Slavery Statement
6.4.3 Achieve certification in a corporate social responsibility rating tool (i.e. B Corp certification)	Evidence of certification, including measures achieved.

6.5 Sustainability incentives

Intent: To reduce reliance on private cars as the primary mode of transport.

Requirement: Achieve the following:

Criteria	Required Supporting Documentation
6.5.1 Provide incentives for owners and occupiers to implement sustainability initiatives. May include financial or product incentives upon receipt of evidence	Evidence and details of incentives program.
of Implementation.	. 5

6.6 Efficient and accessible transport

Intent: To reduce reliance on private cars as the primary mode of transport.

Requirement: Achieve the following:

Criteria

6.6.1 Demonstrate encouragement of active transport options amongst the community through design considerations and community education.

Required Supporting Documentation

Provide evidence of educational material to be distributed to residents / occupants highlighting active transport opportunities including routes and potential time savings for different modes (i.e. 5 minute shortcut for cyclists on this shared path).

Requirement: Achieve at least two credits from the following options:

6.6.2 Alternative transport parking

Provide alternative transport (etc) parking at all community facilities and retail/commercial businesses within the project at a rate of one space per 500sqm of GFA. Place parking in public view and easily accessible from the road.

Where an activity centre or similar is located within the project, end of trip facilities must be provided using the Queensland Transport's End-of-Trip Facilities for Bicycle Riders Guide (or similar) as a guide.

Evidence in plans, and statement from masterplanner and developer stating how the requirements have been met.

6.6.3 Pathways

Provide connecting, safe, attractive and well-lit pathways running wholly in public spaces (including streets and open spaces), directly connecting residential and commercial areas to local facilities and providing links between areas. Paths should have some areas of adjacent shade, shelter, seating and water fountains and connect with paths in neighbouring areas. Way-finding signage should also be provided for other destinations and focal points.

Evidence in plans, and statement from landscape architect, developer and engineer stating how the requirements have been met.

6.6.4 Active transport linkages

Provide shared pathways for both walking and cycling within the project, where there are no on-road cycle lanes.

Evidence in plans and/or statement on how the requirements have been met.

6.6.5 Public transport

Demonstrate access to public transport, such that 75% of dwellings are within:

- 400m walking distance of a bus stop;
- 800m walking distance from a railway station or line haul station; and/or
- 1,200m walking distance from a line haul station located within a town centre.

The stop/station must be serviced by at least ten services per weekday (by the time the buildings within the project are 50% occupied) to local facilities or other service centres or connecting transport systems. Legible direction signage to public transport stops is provided at key locations.

Evidence of existing transport location(s) and frequency of service. If public transport stop is proposed, details of proposal to local government and negotiations to date should be provided.

Evidence including arrangements and frequency.

Evidence including distribution and eligibility.

Required Supporting Documentation

6.6.6 Community transport

Provide a community transport network such as car share, car pool, community minibus, electric scooters and bikes to provide better connectivity for the community.

Evidence including the location, arrangements and provider of scheme.

6.6.7 Efficient vehicles

Provide parking for low-emitting, zero emitting, fully electric and fuel-efficient vehicles at all community facilities and retail/commercial businesses within the project for 20% of the total vehicle parking capacity of each parking site. Parking to include electric vehicle charging infrastructure.

Evidence including the location and number of parks.

6.7 Engaging and inclusive public realm

Intent: To ensure the delivery of high quality public realm which provides an attractive, inclusive, non-discriminatory and safe environment for the community to meet, engage and recreate.

Requirement: Achieve at least **six credits** from the following options:

Criteria

Required Supporting Documentation

- 6.71 Demonstrate a hierarchy of functions within the public realm.
- **6.7.2** Include educational signage within public realm areas to provide educational information regarding indigenous or post-European heritage, ecology, or other notable features of the development, public realm area or surrounding area.
- **6.7.3** The public realm is designed for intergenerational play to allow multiple uses for community members, including children, the elderly and disabled people with regard taken to safety, comfort and security. Provide appropriate seating, shading, accessible toilets and water bubblers.
- **6.7.4** The design of the public realm takes account of the role it plays in terms of inclusiveness and connectivity within and external to the project.
- **6.7.5** The design plans indicate how space for quality social interaction has been considered in the design of streets and open areas and choice of material throughout the project and its surroundings.
- **6.7.6** Benches and other seating areas are located in places with consideration of the sun, shade, wind and rain.
- **6.7.7** Create locally distinct places which connect people through place and strongly reflect the local identity of the area through the design of social spaces.
- **6.7.8** Demonstrate the flexibility of the public realm for multiple other uses (e.g. water sensitive urban design, conservation, business enterprises, healthy active living, etc).

The following required supporting documentation applies to Criteria **6.7.1** to **6.7.8**.

Statement of compliance from registered landscape architect, registered urban designer and/or planner with reference to plans.

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Required Supporting Documentation

6.7.9 Provide an attractive, safe and walkable street environment by planting or retaining street trees at 8-9 metre intervals, or demonstrate intervals appropriate to the chosen tree species and region to ensure maximum shade for pedestrians.

Evidence in landscape plans and statement from registered landscape architect.

6.8 Housing diversity and economic prosperity

Intent: To ensure that the project makes a contribution to housing diversity within the context of the local neighbourhood and city.

Requirement: Achieve the following:

Criteria

Required Supporting Documentation

6.8.1 Provide significant diversity of housing types including a mix of dwelling sizes (e.g. number of bedrooms) and/or densities of housing. Consideration given for diversity in housing provided at a neighbourhood level.

Evidence in plans and statement from developer including lot mix, and densities.

6.8.2 Develop a community economic/employment strategy with measurable outcomes which identifies:

- economic goals and priorities for the community;
- employment targets and the job balance ratio;
- activities to be provided within the project (e.g. retail, industrial, commercial or community based);
- socio-economic profile of the host local government area (based on at least the last two census);

Note: Where there have been local government amalgamations, define using a similar area.

- how the project will contribute to the host local government area's socioeconomic profile; and
- net percentage increase in the number of jobs in the local area where the project replaces productive uses (e.g. redevelopment of an industrial area)."
- **6.8.3** Provide at least 10% of dwellings as <u>affordable housing</u> or <u>key worker</u> accommodation.

Statement of compliance from developer and evidence of community economic/employment strategy and implementation plan.

Market analysis and house, land and/or house and land package prices.

6.9 Food sensitive design

Intent: To provide opportunities for the local community to participate in producing or purchasing local food.

Requirement: Achieve the following:

Criteria

Required Supporting Documentation

6.9.1 Demonstrate a strategy for the delivery of permanent and viable growing spaces and/or related facilities which includes:

- an engagement strategy for partnerships;
- distribution methodology;
- · infrastructure provision; and
- maintenance and ownership arrangements.

Note: Credit is also given where a project is contributing (either financial or human resources) towards the establishment or ongoing maintenance of an appropriate facility outside the project boundary.

Statement from developer and registered landscape architect.

6.10 Connected communities

Intent: To provide serviced communities with facilities to meet their needs and reduce the number of private car trips required.

Requirement: Locate near (such that 75% or residences are within 30 minutes by public transport) a major employment cluster, corridor, area or centre. Locate near (such that 75% of residences/workplaces are within 1km by foot) or provide within two years of the first residential occupancy at least **five** of the following local services.

Note:

- i. Local services should be co-located near public transport stops and pathways.
- ii. Where the project claims local services which have fixed capacities (e.g. childcare, schools etc.) the project should engage with providers to ascertain capacity constraints and whether the local services are adequately equipped to cater for future growth.

Criteria	Required Supporting Documentation
6.10.1 Newsagent	Evidence in plans, including walking
6.10.2 Grocery/corner store	distances.
6.10.3 Primary school	
6.10.4 Secondary school	
6.10.5 University	
6.10.6 Kindergarten, preschool, or childcare	
6.10.7 Medical practice	
6.10.8 Chemist	
6.10.9 Specialty stores	
6.10.10 Cafes and/or restaurants	
6.10.11 Community centre	
6.10.12 Dog park	
6.10.13 Public transport hub	
6.10.14 Emergency services (including rural fire brigade, ambulance, police)	
6.10.15 Community accessible facilities/spaces (e.g. rooms, public areas,	
education centres)	
6.10.16 Public toilets	
6.10.17 Farmers markets	
6.10.18 Community gardens	

6.11 Internet

Intent: Future-proofing residential developments by providing high speed internet infrastructure.

Requirement: Achieve at least **one credit** from the following options:

Criteria	Required Supporting Documentation
6.11.1 Provide signal boosting infrastructure where 4G/5G signal is low.	Statement of compliance from developer and details around infrastructure installation.
6.11.2 Provide Wi-Fi opportunities and/or smart technology in a at least one primary public open space where people gather in the project to complement community amenity provision.	Statement of compliance from developer and plans of Wi-Fi locations.

6.12 Safe and accessible living

Intent: To provide facilities and housing which are appropriate and accessible for a variety of people.

Requirement: Achieve the following:

Criteria	Required Supporting Documentation
6.12.1 Achieve in at least 50% of dwellings 'gold' performance levels under the Livable Housing Australia's 'Livable Housing Design Guidelines'.	Evidence in <u>design guidelines</u> .

6.13 Healthy and active communities

Intent: To design and deliver communities which promote community-based physical activity and support healthy lifestyle behaviours.

Requirement: Achieve at least **two credits** from the following options:

Criteria	Required Supporting Documentation
6.13.1 Ensure all dwellings have access to neighbourhood parks within 400m (or a five minute walk) for a pocket park, and up to 800m (or a ten minute walk) for neighbourhood / active recreation parks.	Evidence in plans and statement from planner.
6.13.2 Provide a number of parks throughout the neighbourhood(s), catering for a range of uses and people of varying ages and abilities. Demonstrate their ability to improve community connection, mental health and well-being.	Open space strategy and statement from planner.
6.13.3 Provide active travel links that are attractive, safe, direct and convenient to ensure permeability, creating better accessibility towards a destination.	Evidence in plans and statement from planner.
6.13.4 Provide supporting infrastructure in desirable locations of the project with shade including resting areas, entertainment space, information boards, toilets and water bubblers.	Evidence in plans and statement from planner.
6.13.5 Demonstrate that roads offer multiple use functions, providing opportunities for roads to act as a legitimate public domain. This could include but is not limited to providing on-road bicycle paths where possible or lowering speed limits on local streets.	Evidence in plans and statement from planner.

Glossary

Affordable in the context of residential property means:

- a. the average weekly rent payable by occupiers for a residence in the local region is equal to or less than 30% of the median household income for the local region; and
- b. the average weekly home loan repayment payable by owner occupiers for a residence in the local region is equal to or less than 30% of the median household income for the local region where weekly mortgage repayments are calculated on the basis that the initial loan was for an amount equal to 90% of the purchase price for a term of 30 years and the interest rate is equivalent to the standard variable home loan rate charged by the project developer's financial institution.

AFFL means above finished floor level.

AFS means Australian Forestry Standard.

Appropriately qualified professional means a person or persons with tertiary qualifications or equivalent in the relevant area to the satisfaction of the EnviroDevelopment Board of Management.

ARI means average recurrence interval; the average or expected value of the periods between exceedances of a given rainfall total accumulated over a given duration.

Brownfield site means land within an urban area, which at the time of purchase, a minimum of 50% of the site had been previously built on.

Building Code of Australia means Volumes One and Two of the National Construction Code, being the set of technical provisions for the design and construction of buildings and other structures, produced and maintained by the Australian Building Codes Board (ABCB) on behalf of the Australian Government and State and Territory Governments.

Building Products Innovation Council means the national body representing Australia's building product associations and developer of the <u>Building Products Life Cycle Inventory</u>.

Building Products Lifecycle Inventory Data Protocol means the method and database developed by the <u>Building Products Innovation Council</u> for life cycle assessment of building products.

Climatic zones means those defined as per the Building Code of Australia.

Communal uses means facilities and spaces within a project that are designed and constructed for communal use by owners, occupiers, residents and employees (as applicable).

Community Development Officer means a person engaged to oversee a range of practices to service members of the community and increase liveability and social interaction.

Community facilities includes community halls, community centres, recreational clubs, parkland and other facilities designed and constructed for communal use by owners, occupiers, residents and employees (as applicable).

COP means coefficient of performance of air conditioning systems.

CPTED means the Crime Prevention Through Environmental Design strategy for the local government area or State (as applicable) in which the Project is located, being the strategy which outlines how physical environments can be designed in order to lessen the opportunity for crime. If a CPTED strategy is not in place for the local government area or State in which the Project is located, then the CPTED strategy for Queensland will be the relevant document.

Deep planting means an area dedicated to the protection and establishment of significant landscape trees.

Design guidelines means an enforceable system of design and related principles whether operating under contract, deed, covenant, architectural and landscape code for body corporates or some other means satisfactory to the EnviroDevelopment Board of Management. The developer may be asked to demonstrate active design guideline enforcement.

Environmental weed is a plant that invades native ecosystems and adversely affect the survival of indigenous flora and fauna. They may have significant economic and social impacts, as well as environmental impacts, including reduction in biodiversity.

EER means the energy efficiency ratio relating to the performance of air conditioning systems.

EPBC Act means Environmental Protection and Biodiversity Act 1999, as amended or replaced from time to time.

FSC means Forest Stewardship Council.

Green Infrastructure means a network of green spaces and planting, designed and managed to support the liveability, sustainability and resilience.

IUCN Redlist means the index compiled by the International Union for Conservation of Nature to identify and document plant and animal species most in need of conservation attention if global extinction rates are to be reduced, as amended or replaced from time to time.

Key worker is a person who is employed as an emergency service worker (police, ambulance, fire brigade etc), nurse or educator.

Line haul station means a a public transport interchange located on a fixed line public transport corridor, such as heavy rail line, light rail line or busway.

Locally native means native plants which are endemic to the area.

Low emission adhesives means adhesives which meet the following VOC limits:

- Indoor Carpet Adhesives <50g/L
- Carpet Pad Adhesives <50g/L
- Outdoor Carpet Adhesives <150g/L
- Wood Flooring Adhesive <100g/L
- Rubber Floor Adhesives <60g/L
- Subfloor Adhesives <50g/L
- Ceramic Tile Adhesives <65g/L
- VCT and Asphalt Tile Adhesives <50g/L
- Dry Wall and Panel Adhesives <50g/L
- Cove Base Adhesives <50g/L
- Multipurpose Construction Adhesives <70g/L
- · Structural Glazing Adhesives <100g/L
- Single Ply Roof Membrane Adhesives <250g/L

Low emission floor coverings means floor coverings which have maximum VOC limit of <0.5mg/m²/hr (14 days).

Low emission paints means paints which have a VOC limit of <50g/L.

Low emission sealants means sealants which meet the following VOC limits:

- Architectural <250g/L
- Marine Deck <760q/L
- Nonmembrane Roof <300q/L
- · Roadway <250q/L
- Single-Ply Roof Membrane <450g/L
- ·Other <420g/L

MUSIC means the Model for Urban Stormwater Improvement Conceptualisation simulation software which simulates urban stormwater systems operating at a range of temporal and spatial scales, catchments and modelling time steps.

National Construction Code means the National Construction Code published by the Australian Building Codes Board comprising the Building Code of Australia (Volumes One and Two) and the Plumbing Code of Australia (Volume Three) as amended or replaced from time to time.

Non-metropolitan sites means projects that are located in areas, towns and other localities outside the boundaries of capital cities and major urban centres.

Potable water means water of a quality suitable for drinking, cooking and personal bathing having regard to the Australian Drinking Water Guidelines developed by the National Health and Medical Research Council and amended or replaced from time to time.

Project means the development which is the subject of the application for EnviroDevelopment.

Public spaces means land that is publicly accessible but must be more than just road.

RAP means reclaimed asphalt pavement.

Significantly modified means land which has previously been utilised for intensive uses and has little or limited ecological value.

Statement of compliance means a statutory declaration or other form of written statement by the developer of the <u>project</u> or a senior project representative engaged by the developer of the <u>project</u> which sets out the particular facts and circumstances and details the level of compliance with the criteria.

Threatened species means as listed under the <u>EPBC Act</u> or <u>IUCN Red List</u> or legislation for the State in which the <u>project</u> is located.

VOC means volatile organic compounds.

Weighting of Environmental Impacts in Australia means the report produced to establish a toolkit of resources that will permit comprehensive Life Cycle Assessment of building and construction materials and products, building elements and assemblies, and whole buildings in Australia. The report outlines the approach taken to developing a set of regionally relevant and Australian average weighting factors, which reveal how Australian stakeholders subjectively judge the relative importance of different environmental impacts in different locations/climates around Australia.

Notes

Checklist



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