

Environmentally Sustainable Design - Checklist

Under the City's planning policy, *Environmentally Sustainable Design in the City of Joondalup*, the City encourages the integration of environmentally sustainable design principles into the construction of all new residential, commercial and mixed-use buildings and redevelopments (excluding single and grouped dwellings, internal fit outs and minor extensions) in the City of Joondalup.

Environmentally sustainable design is an approach that considers each building project from a 'whole-of-life' perspective, from the initial planning to eventual decommissioning. There are five fundamental principles of environmentally sustainable design, including: siting and structure design efficiency; energy efficiency; water efficiency; materials efficiency; and indoor air quality enhancement.

For detailed information on each of the items below, please refer to the *Your Home Technical Manual* at: www.yourhome.gov.au and www.watercorporation.com.au/waterwise

This checklist must be submitted with the planning application for all new residential, commercial and mixed-use buildings and redevelopments (excluding single and grouped dwellings, internal fit outs and minor extensions) in the City of Joondalup.

Please tick the boxes below that are applicable to your development.

Siting and structure design efficiency

Environmentally sustainable design seeks to affect siting and structure design efficiency through site selection, and passive solar design.

Does your development retain:

Existing vegetation; and/or

Natural landforms and topography

Does your development include:

Northerly orientation of daytime living/working areas with large windows, and minimal windows to the east and west.

Passive shading of glass.

Insulation and draught sealing

Floor plan zoning based on water and heating needs and the supply of hot water; and/or

Advanced glazing solutions

Energy efficiency

Environmentally sustainable design aims to reduce energy use through energy efficiency measures that can include the use of renewable energy and low energy technologies.

Do you intend to incorporate into your development:

Renewable energy technologies (e.g. photovoltaic cells, wind generator system, etc.); and/or

Low energy technologies (e.g. energy efficient lighting, energy efficient heating and cooling, etc); and/or

Natural and/or fan forced ventilation.

Water efficiency

Environmentally sustainable design aims to reduce water use through effective water conservation measures and water recycling. This can include stormwater management, water reuse, rainwater tanks, and water efficient technologies.

Does your development include:

Water reuse system(s) (e.g. greywater reuse system); and/or

Rainwater tank(s)

Do you intend to incorporate into your development:

Water efficient technologies (e.g. dual-flush toilets, water efficient showerheads, etc)

Has your proposed development been designed to be endorsed as a waterwise development through the Water Corporation Waterwise Building Program or Waterwise Development Program?

Yes

No

Materials efficiency

Environmentally sustainable design aims to use materials efficiently in the construction of a building. Consideration is given to the lifecycle of materials and the processes adopted to extract, process and transport them to the site. Wherever possible, materials should be locally sourced and reused on-site.

Does your development make use of:

Recycled materials (e.g. recycled timber, recycled metal, etc)

Rapidly renewable materials (e.g. bamboo, cork, linoleum, etc); and/or

Recyclable materials (e.g. timber, glass, cork, etc)

Natural/living materials such as roof gardens and “green” or planted walls.

Indoor air quality enhancement

Environmentally sustainable design aims to enhance the quality of air in buildings, by reducing volatile organic compounds (VOCs) and other air impurities such as microbial contaminants.

Do you intend to incorporate into your development:

Low-VOC products (e.g. paints, adhesives, carpet, etc)

'Green' Rating

Has your proposed development been designed and assessed against a nationally recognised "green" rating tool?

Yes

No

If yes, please indicate which tool was used and what rating your building will achieve (please attach appropriate documentation to demonstrate this assessment):

If you have not incorporated or intend to incorporate any of the principles of environmentally sustainable design into your development, can you tell us why:

Is there anything you wish to tell us about how you will be incorporating the principles of environmentally sustainable design into your development:

Acknowledgement

When you have checked off your checklist, sign below to verify you have included all the information necessary to determine your application.

Thank you for completing this checklist to ensure your application is processed as quickly as possible.

Applicant's Full Name: _____

Contact Number: _____

Applicant's Signature: _____

Date Submitted: _____