Sustainable Design Checklist

Reviewed July 2018

All new major developments or refurbishments are required to comply with the checklist to maximise sustainable design opportunities.

Instructions: Please provide comment how the requirements will each be addressed by completing the comment section and returning the completed form to Taronga's Manager, Sustainability

Please note, some requirements may not be applicable to all developments, in this instance state N/A in the comment section

Is the development at Taronga Zoo/Taronga Western Plains Zoo:
Insert name of the development:
Insert the date this list was completed:

	Water Efficiency		Comment Please indicate how requirement will be met
1.	Minimum 4 star water (WELS) rated fitting and appliances are incorporated into the design of the project	Mandatory	
2.	Minimum 4 star rated (WELS) outdoor products purchased to meet operational requirements	Mandatory	
3.	Weather sensing equipment installed for irrigation	Mandatory	
4.	Water meters to be installed	Mandatory	
5.	Landscaping that has minimal water use requirements or requires little to no ongoing watering must be considered (e.g. native plant species)	Mandatory	
6.	Important habitats or areas supporting key species of flora and fauna have been identified.	Mandatory	
7.	Harvest water from on-site sources such as rain water, ground water, storm water or treated waste water (Taronga Zoo Waste Water Treatment Plant)	Mandatory	
8.	Locally harvested rain water used to service site needs such as landscape irrigation and toilet flushing	Commended	
9.	Storm water drainage systems are landscaped appropriately to encourage storm water disposal and re-use through plant use, evaporation, soaking and improved site visual amenity	Commended	

10.	Porous surface treatments are to be applied where appropriate to reduce stormwater runoff	Commended	
11.	New buildings/fit outs include a dual water pipe system for recycled and/or rain water for building use	Commended	
12.	Implement public water bottle refill stations	Commended	
	Energy Efficiency		Comment Please indicate how requirement will be met
1.	Incorporate energy efficient lighting systems (e.g.: energy efficient bulbs, LED lighting, sensors, timers).	Mandatory	
2.	Electricity and gas sub metering is installed	Mandatory	
3.	Appliances must be a minimum of 4 star rating.	Mandatory	
4.	Give preference to overhead fans rather than AC as a priority	Mandatory	
5.	Air conditioning systems provide for either 'mixed modal', 'economy' or 'night flushing' operation have been assessed. Standalone AC has been avoided	Mandatory	
6.	Solar, with gas or electric boosted hot water system installed	Mandatory	
7.	Translucent roof sheeting materials/skylights have been incorporated	Mandatory	
8.	Assess potential for a building or development to incorporate renewable energy (solar) sources	Mandatory	
9.	Incorporate renewable energy power sources into the design (e.g. solar PV, solar hot water, heat pumps)	Commended	
10.	A programmable lighting control system (intelligent lighting) has been considered and included where appropriate	Commended	
	Passive Design		Comment Please indicate how requirement will be met
1.	Building is to be orientated north- south	Mandatory	
2.	Internal building design to take into account the use of each section of the building to maximize exposure to winter sun and minimise exposure to summer sun.	Mandatory	

Shade installed where appropriate fixed or moveable external lovers, overhanging eaves or awnings. Buildings are to include roof ventilation where appropriate to encourage air flow cooling Windows to the north and south to be designed to allow year round natural light and ventilation. Buildings are to include light coloured roofs to reflect solar radiation. Remote power source lighting is provided where appropriate Waste Management (C&D & Operational) Review development site to identify existing materials for reuse or recycling prior to construction Materials contain recycled content, and/or prefabricated where possible Waste recycling and disposal facilities for future site operations are indicated on the development waste) discuss applicable waste streams with Manager, Sustainability Materials Rapidly renewable materials (eg. bamboo (floring) or certified sustainably harvested timber where required (e.g. Forest Stewardship Council) should be incorporated into the project where applicable Timber used in building construction (structure, formwork, studs, screening, landscaping, flooring etc.) is to be certified as sustainable alternatives to timber are utilized such as recycled content plastic products where applicable Use durable and tow maintenance materials which require very little energy to maintain over their life (such as painting, cleaning etc.) is the project where applicable Use durable and tow maintenance materials which require very little energy to maintain over their life (such as painting, cleaning etc.)	fixed or noverhanger ventilation encourage ventilation encourager ventilation encourager ventilations. 5. Windows be design natural light for a light	noveable external louvers, ging eaves or awnings. are to include roof on where appropriate to ge air flow cooling to the north and south to need to allow year round ght and ventilation. are to include light roofs to reflect solar ower source lighting is where appropriate gement (C&D & Ope development site to identify materials for reuse or prior to construction contain recycled content, efabricated where	Mandatory Mandatory Mandatory Commended rational)	
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6.	Standard size materials used or materials cut to size at supplier's premises to minimise on site cutting and waste	Commended	
7.	Development to use products/services that capitalise on reduced embodied energy (eg. concrete with fly ash content greater than 20% used in non structural components)	Commended	
8.	Materials used are sourced locally where possible to reduce emissions associated with transportation	Commended	
9.	Back fill aggregate with certified clean recycled content is used (e.g. C&D waste aggregate)	Commended	
	Indoor Air Quality		Comment Please indicate how requirement will be met
	Zero Volatile Organic Compound (VOC) paints are used on internal walls	Mandatory	
2.	Products and adhesives compounds with no or low VOC's are to be used where appropriate	Mandatory	
3.	Water based adhesives, paints, treatments are used where possible	Mandatory	
	Minimise the use of PVC plastic where possible	Mandatory	
5.	Provide external exhausts for equipment rooms/areas such as those used for photocopying/printing	Mandatory	
	Other Consideration	S	Comment Please indicate how requirement will be met
1.	Incorporate acoustic or noise control materials	Mandatory	
2.	Refrigeration and cool rooms must be well insulated and enclosed	Mandatory	
3.	Implement electrolysed water (E-water) system to reduce chemical footprint (especially applicable to kitchens and food prep areas)	Commended	
4.	Certified interiors and fitout (e.g. GECA, Eco Specifier or similar)	Commended	
5.	Review feasibility of a BMS minimum requirement is to have metering in place and integrated	Mandatory	

into side system for electricity, gas		
and water		