

# HIA GreenSmart house checklist

## GREENSMART MINIMUM REQUIREMENTS

(TICK)

PASSIVE DESIGN	<b>ORIENTATION</b>	Living areas are north-facing or within 15oWest – 20oEast of true North.
	Are north-facing areas maximised? (See reverse for more information)	Ideally the long axis of the house runs east to west; OR large north-facing openings have been included to maximise exposure to natural light, take advantage of winter sun and minimise summer sun.
	<b>NATURAL VENTILATION</b>	External & internal openings take advantage of prevailing breezes.
	Which direction do breezes come from & can air flow freely throughout? (See reverse for more information)	Louvers or operable windows located opposite each other to allow air to flow through the rooms/house. Well-ventilated roof space eg. roof & eave vents. Extractor fans to be sealed in bathroom, laundry and toilet areas and externally flued in kitchen areas. Clothesline. Draft seals to be placed around windows and doors.
	<b>AIR CIRCULATION</b>	Ceiling fans in at least bedrooms & living room to assist air circulation.
	<b>SHADING</b>	Northern windows are shaded from entry of summer sun. East & west facing windows are minimised.
	Is it sheltered from the sun? (See reverse for more information)	Eastern and western windows protected from sun by eaves or awnings: OR Trees and landscaping; OR windows are tinted. Well-sized eaves & window awnings on north and south facades to provide shade in summer and allow sun in during winter.
	<b>INSULATION</b>	Ceiling insulation appropriate to climatic region (see overleaf).
	Cool in summer & warm in winter? (See reverse for more information)	Reflective foil (sisilation/sarking) in roof & walls. For rooms with air-conditioning &/or heating, wall insulation min. R1.5.
	<b>MATERIALS</b> What is it made of? (See reverse for more information)	Lightweight materials and/or thermal mass materials have been used appropriately to respond to climatic conditions. (relevant to the climate zone).
ENERGY	<b>BUILDING STRUCTURE</b>	Exceeds building regulation in your state for energy efficiency.
	<b>LIGHTING</b> (See reverse for more information)	Energy efficient lighting is utilised in at least 50% of light fixtures (includes indoor & outdoor) such as compact fluorescents, fluorescent tubes, LEDs etc.
	<b>INTERIOR SURFACES</b>	Light-coloured coatings on interior surfaces to reduce dark areas (optional).
	<b>NATURAL LIGHTING</b>	North-facing openings (windows &/or glazed doors). Skylights (preferably double glazed & vented) &/or light-tubes in dark/shaded rooms (if applicable).
	<b>HOT WATER HEATING</b> (See reverse for more information)	Installed an energy efficient hot water service within 1 star of the maximum energy rating as a heat pump or gas system. All hot water plumbing pipes to be insulated where appropriate to your climatic conditions. NB Choose a gas boosted SHW service as a better option.
WATER	<b>AIR-CONDITIONING &amp; DRAFT SEALS</b>	Appropriately designed rooms to keep cool air in with draft seals around doors and windows. Seals to roof space openings.
	<b>CO-LOCATED SERVICES</b>	Hot water system & wet areas (bathroom, toilet, laundry, & kitchen) grouped to minimise plumbing.
	<b>TAPWARE</b>	Min. 4 star-rated tapware (or are fitted with pressure/flow reduction valves). (NB: installed in accordance with AS3500).
	<b>TOILETS</b>	4star rated dual flush systems.
	<b>SHOWERHEADS</b>	3star rated (NB: minimum 7.5 litre/minute and maximum 9 litre/minute).
MATERIALS	<b>LANDSCAPING</b>	Waterwise gardens/landscaping eg. mulches/compost, natives/drought tolerant plants, controlled irrigation, timers etc.
	<b>ALTERNATE WATER SUPPLY</b>	Alternate water supply systems for garden watering (where legislation allows).
	<b>HEALTHY HOMES</b>	Use low volatile organic compound emitting surface coatings. All gas heating & cooking appliances are externally flued (if applicable).

## GREENSMART BETTER PRACTICE OPTIONS

(TICK)

PASSIVE DESIGN	<b>WINDOWS</b>	Thermally improved window frames. Installed thermally efficient window coverings.
	<b>FIXTURES AND FINISHES</b> Does it reflect heat?	Lighter colours used for external surfaces to reflect heat (roof &/or walls).
	<b>ENTRY LOCK</b>	Include sealed entry foyer in the design to control heat movement.
ENERGY	<b>WHITEGOODS &amp; APPLIANCES</b> (See reverse for more information)	Where installed electrical appliances are to be within 1 star of the maximum energy rating. e.g. fridge, dishwasher, washing machine & clothes dryer. Where installed heating and cooling systems should be appropriately sized and within 1 star of the maximum energy rating. Install a heat recovery ventilation system where appropriate to your climate.
	<b>CENTRAL LIGHTING</b>	Single switch pad installed to control multiple lights.
	<b>SENSOR LIGHTING</b>	Install sensor lighting to infrequently used areas eg. pathways, outdoors.
	<b>PHOTOVOLTAIC OR RENEWABLE ENERGY</b> (See reverse for more information)	Photovoltaic (PV) system installed to supplement energy supply. Select the provision of green energy from your energy provider. Install an energy usage meter.
	<b>WHITEGOODS &amp; APPLIANCES</b>	Min. 4 stars WELS-rated for washing machine & dishwasher. Greywater system utilised for toilet & landscaping Install hot water reticulation system.
WATER	<b>TOILETS</b>	Installation of waterless urinals or composting toilets.
	<b>LANDSCAPING</b>	Timers fitted to external taps.
	<b>ALTERNATE WATER SUPPLY</b>	Plumb alternate water supply to toilets, laundry or hot water services (where legislation allows). Install greywater diversion system or rainwater tanks. Install treated greywater system (where legislation allows). Where a pool exists fill the pool with alternative water supply (where legislation allows).
	<b>HEALTHY HOMES</b>	Low emission surfaces and materials for cabinetry, floors, walls, doors, architraves and skirting boards. Use low emission products. Include passive ventilation through manually or automated systems. Use surface coatings with low volatile organic compounds emissions. Gas heating and cooking appliances should be externally flued.
MATERIALS	<b>ENVIRONMENTALLY-FRIENDLY MATERIALS</b>	Environmentally friendly building materials such as recycled timber (floors, doors, window frames) & glazing; bamboo, cork or linoleum flooring used (not including materials that are recyclable). Use building materials that are highly durable and require limited maintenance.

