

HIA GREENSMART Custom Built Home

CATEGORY DEFINITION

An individual house, which has been designed and built on contract specifically for the site and according to the requirements and brief of a client. This includes builders' own houses.

This home will be judged on its achievements with respect to its design and construction innovation, with particular regard to the environmental sustainability of the overall home. It will also be judged according to its management of energy, waste and water, site management, the selection of materials, indoor air quality, cost-effectiveness, alternative energy sources, use of new technology and innovation overall environmental performance.

JUDGING CRITERIA

Environmental Design, Features and Construction (max score 55)

- Energy efficiency – Use of energy saving technologies through design and construction innovation, both internally and externally e.g. lighting, power, hot water, alternative energy sources, automated heating & cooling systems designed to reduce energy consumption, exceeds state regulation of energy rating of the building envelope, includes passive solar design, use of thermal massing or lightweight construction materials to suit climatic location, energy efficient lighting, appliances, fittings and hot water systems etc.
- Water efficiency – Use of water saving technologies through design and construction innovation, both internally and externally e.g. water efficient appliances, water reuse, water tanks, greywater systems, water efficient irrigation and landscaping, designed to reduce the use of potable water etc.
- Resource efficiency – application of material selection including use of recycled building materials, reduction in materials sent to landfill, use of prefabricated materials, etc.
- Application of site management techniques during construction – e.g. storm water and erosion control, minimising site disturbance, innovative construction techniques, noise control and vegetation protection etc.
- Protection of indoor air quality – Use of low-allergen or non-toxic materials within the building e.g. paints, glues, varnishes, floor coverings, manufactured wood products, appropriate natural ventilation.
- Material selection – e.g. consideration of the life cycle impacts of key building materials and elements, use of locally manufactured materials, materials with recycled content or readily recycled etc.

Innovation (max score 15)

- Incorporation of innovative construction techniques, e.g. utilising modular concepts, maximising resource efficiencies, use of space/s within the home.
- Use of technologies through design and construction innovation, that monitor resource use and environmental performance.
- Cost of new technologies with identifiable operational energy, water or resource savings and ability for broader application.

Visual Appeal (max score 10)

- External street appearance and suitability of response to site constraints (e.g. slope, vegetation).

Liveability and Cost Effectiveness (max score 20)

- Overall environmental sustainability performance (e.g. thermal comfort, water efficiency, energy efficiency, resource efficiency) and practicality of design and operation of the home.
- Cost effectiveness – (i.e. Cost per sq. metre)

HIA GREENSMART Display Home

CATEGORY DEFINITION

An individual house currently on display to the public and is intended for reproduction as displayed or with standard variations to suit the client's needs. The house must be open for display within a 24 month period prior to and including the close of entries date, and at the time of judging.

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Liveability and Cost Effectiveness (max score 20)

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- Cost effectiveness – (i.e. Cost per sq. metre)

HIA GREENSMART Project Home

CATEGORY DEFINITION

An individual house based on a display home, sales brochure or the like for a repeatable design, which has been tailored to suit the needs of the client and the site. This includes manufactured homes formed of pre-built major elements and then assembled on site.

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Liveability and Cost Effectiveness (max score 20)

- Overall environmental sustainability performance (e.g. thermal comfort, water efficiency, energy efficiency, resource efficiency) and practicality of design and operation of the home.
- Cost effectiveness – (i.e. Cost per sq. metre)

HIA GREENSMART Spec Home

CATEGORY DEFINITION

An individual house, which is not built to a client's brief, nor is it on display to the public. It is either sold off the plan or built for sale on completion or during construction.

This home will be judged on its achievements with respect to its design and construction innovation, with particular regard to the environmental sustainability of the overall home. It will also be judged according to its management of energy, waste and water, site management, the selection of materials, indoor air quality, cost-effectiveness, alternative energy sources, use of new technology and innovation overall environmental performance.

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Visual Appeal (max score 10)

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Liveability and Cost Effectiveness (max score 20)

- Overall environmental sustainability performance (e.g. thermal comfort, water efficiency, energy efficiency, resource efficiency) and practicality of design and operation of the home.
- Cost effectiveness – (i.e. Cost per sq. metre)

HIA GREENSMART Renovation / Addition Project

CATEGORY DEFINITION

An extension or renovation involving structural building work to an existing individual house or other residential building. To renovate and upgrade a group of apartments, villas, townhouses, etc or to convert a non-residential building into a residential building. Builders entering this category must be responsible for the total renovation.

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- Cost of new technologies with identifiable operational energy, water or resource savings and ability for broader application.

Visual Appeal (max score 10)

- External street appearance and suitability of response to site constraints (e.g. slope, vegetation).

Liveability and Cost Effectiveness (max score 20)

- Overall environmental sustainability performance (e.g. thermal comfort, water efficiency, energy efficiency, resource efficiency) and practicality of design and operation of the home.
- Cost effectiveness – (i.e. Cost per sq. metre)

HIA GREENSMART Townhouse / Villa Development

CATEGORY DEFINITION

This award recognises multiple dwelling residential projects. These projects typically include developments known as dual occupancy (two dwellings on a single allotment), villas (one storey), townhouses (two-three storey) and terrace housing, whether attached or detached. These projects must be classified as Class 1a buildings under the Building Code of Australia. This home will be judged on its achievements with respect to its design and construction innovation, with particular regard to the environmental sustainability of the overall home. It will also be judged according to its management of energy, waste and water, site management, the selection of materials, indoor air quality, cost-effectiveness, alternative energy sources, use of new technology and innovation overall environmental performance.

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Innovation (max score 15)

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- Cost of new technologies with identifiable operational energy, water or resource savings and ability for broader application.

Visual Appeal (max score 10)

- External street appearance and suitability of response to site constraints (e.g. slope, vegetation).

Liveability and Cost Effectiveness (max score 20)

- Overall environmental sustainability performance (e.g. thermal comfort, water efficiency, energy efficiency, resource efficiency) and practicality of design and operation of the home.
- Cost effectiveness – (i.e. Cost per sq. metre)

HIA GREENSMART Residential Development

CATEGORY DEFINITION

This award recognises a residential development project, where more than twenty lots are created (being a subdivision) or where the development is a multi unit development (high or low rise).

Projects will be judged based on the environmental design principles incorporated into the development. Projects should detail how they have managed construction, including site works and building work (where relevant), the use of innovative solutions for site constraints or improved environmental outcomes, along with the overall visual appeal and liveability of the development.

JUDGING CRITERIA

Environmental Design, Features and Construction – Subdivision (max score 40)

- Residential Developments that optimise solar orientation for the majority of lots/dwellings having regard for site topography and constraints.
- Utilisation of non potable water resources (e.g. rainwater, stormwater, recycled water) for external and internal uses.
- Integrate with and respond to site specific opportunities or constraints (e.g. retention and enhancement of native flora, protection of fauna habitat and heritage features and creation of wetlands).
- Design to optimise opportunities for walking, cycling and use of public transport within the development and connections to adjoining areas.
- Provide a diversity of housing product through a mix of lot sizes and/or dwelling types.

Environmental Design, Features and Construction – Dwellings (max score 20)

- Energy efficiency – e.g. energy rating of building envelopes and performance of buildings, lot or project orientation, selection of efficient fixtures and appliances, inclusion of energy management techniques (e.g. solar powered street lighting or amenities), alternative energy sources, (e.g. photovoltaic systems, wind power, cogeneration facilities, etc.)
- Water efficiency – e.g. water reuse facilities delivered to housing sites, efficient usage through appliances or fixtures within individual buildings or dwellings or communal facilities and areas (parks), etc.
- Indoor Air Quality – e.g. Use of low-allergen or non-toxic materials, paints, finishes and cross ventilation.
- Resource efficiency – e.g. material selection including use of recycled building or construction materials, reduction in materials sent to landfill during construction, use of prefabricated materials, etc.

Innovative Approach and Management of Civil Works (max score 20)

- Implementation of site management techniques designed to control soil erosion during construction and until the site becomes stabilised by retaining soil on the site and minimising site disturbance.
- Promotion of waste management techniques and resource recovery to residential builders to maximise recovery and recycling of materials and minimise general waste on site.

Liveability and Cost Effectiveness (max score 10)

- Protection of natural features within the development site e.g. waterways, native vegetation and suitability of response to site constraints (e.g. slope, aspect, vegetation)
- Treatment and provisions of open space and/or other recreational facilities
- Visual appeal of Residential Development and integration with or provision for community centres, schools, shopping precincts and business centres.
- Use of programs or provision of facilities to establish and maintain community interaction and sense of neighbourhood.

Visual Appeal (max score 10)

- External street appearance and suitability of response to site constraints (e.g. slope, vegetation).

HIA GREENSMART Water Efficiency

CATEGORY DEFINITION

This award recognises residential development projects which incorporate design features and practices to reduce potable water consumption within the development and/or incorporate water sensitive urban design practices and technologies to improve the management of natural water flows within the development.

Projects should detail how they have incorporated innovative techniques or technologies for water conservation or substitution, as well as the ability for chosen solutions to be integrated into regular building practices.

JUDGING CRITERIA

Water management planning & systems (max score 30)

- A water management plan/strategy demonstrating the approach to water efficiency and conservation, re-use opportunities and measures to reduce consumption of potable water through the life of the home or development.
- The development and application of techniques or technologies for promoting the sustainable management and saving of water, including the ability for mainstream application in residential buildings in the future.
- Use of non potable water resources for internal uses e.g. toilets, laundry, hot water systems

Water saving features (max score 35)

- Use of water efficient fittings and fixtures within the home/development.
- Use of water efficient appliances within the home/development.
- Installation of water sensitive urban design systems and other techniques used to manage and/or conserve water used for external purposes.
- Use of predominantly indigenous or drought tolerant plant species and appropriate use of vegetation areas requiring water.

Benefits of water savings (max score 20)

- Evidence of water consumption savings over the predicted life of the development – measured in terms of:
 - Likely average usage of potable water per person or per dwelling unit
 - Likely amount of non-potable water to be collected/available in place of potable water for internal or external uses.

Innovation (max score 10)

- The use of new water technology in the design, construction and operation of the housing project, including the cost effectiveness and practicality of innovative practices and the ability to replicate this innovation in other housing projects.

Sustainability Performance (max score 5)

- Overall environmental sustainability of the project.

HIA GREENSMART Professional

CATEGORY DEFINITION

This award will be presented to the GreenSmart Professional who best demonstrates the successful application of the GreenSmart approach in a residential building and design capacity within the industry.

Submissions should include relevant business documentation and specific examples of how GreenSmart principles have been put into practice. The GreenSmart Professional must have completed the two day GreenSmart course.

Entrants will be judged according to their ongoing practices, demonstrating the integration of cost-effective GreenSmart principles into business administration and operational procedures, and promotion of GreenSmart principles to the wider building industry. The entrant must have completed the two day GreenSmart professional course.

JUDGING CRITERIA

Approach to Sustainable Residential Design, Building or Professional Service (max score 40)

- Outline of the individuals philosophy on environmentally responsible building and how this has influenced the direction of your business
- Demonstration of entrant's effectiveness in creating or leading change in the housing industry
- Demonstration of how entrant is expanding their knowledge and keeping up-to-date with changing trends

Application of GreenSmart Principles (max score 20)

- Current evidence of building the GreenSmart way or providing a service that incorporates GreenSmart principles in the residential building industry

Incorporation of sustainable practices into your business (max score 10)

- Outline of how environmental issues have been incorporated into the planning and decision making processes for the business operations

Innovation and Promotion (max score 30)

- Outline of how the business philosophy is communicated to customers
- List of the principles, practices or products that entrant can see using in the future to build the GreenSmart way and why
- Outline of how entrant sees the housing industry continuing to adapt to a changing environment?

HIA GREENSMART Product

CATEGORY DEFINITION

This award recognises a product that is integral to the construction or operation of a home that can either: reduce operational water or energy use in the home; or provide healthy living environments for occupants; or contain recycled content from waste material or sourced from renewable materials.

Your entry must describe your company's role in the manufacturing of this product and bringing the product to market. If you do not manufacture the product, but are a distributor, you need written consent from the manufacturer stating they agree to you submitting the product in the HIA GreenSmart Awards. In this instance the manufacturer will not be a joint entrant unless stated in the joint entrant field on the entry. All entrants must be HIA members.

JUDGING CRITERIA

Specified and proven environmental benefits (max score 30)

- Details of environmental benefits & application of the product in residential building design or construction e.g. reduced consumption of natural resources in operation, improved performance or environmental impact, or reduced consumption of resources in manufacturer and finished product.

Innovation and new technology (max score 15)

- Application of new technology or design innovation to develop the product or in the actual product.
- Practicality of installation and application of the product, including ability to be readily applied in any residential building.

Cost effectiveness (max score 15)

- Purchase price – comparison to other available products.
- Details of the cost benefits for installation, construction or maintenance.
- Operational savings to the building occupants e.g. water savings or energy savings.

Standard of finish/presentation (max score 10)

- Standard of finish/presentation of product to the consumers.

Origins of Product Manufacture (max score 10)

- Details of the company's (entrant) role in bringing the product into the Australian market.
- Details of the location of manufacture of the product and related transportation/processes required to bring the product to market.

Promotion (max score 20)

- Marketing approach to builders or consumers through promotional material demonstrating the environmental benefits, cost savings, improved performance and any other benefits of the product.
- Proven benefits and advantages of the product to home owners over comparable products.