

Sanctuary

MODERN GREEN HOMES

ISSUE
64

Prefab & modular supplier guide; reclaimed timber treasure trove;
joey sanctuary bushfire rebuild; sweet syrups from foraged flora

**PREFAB
POWER**

**OFFSITE
CONSTRUCTION
GATHERS PACE**

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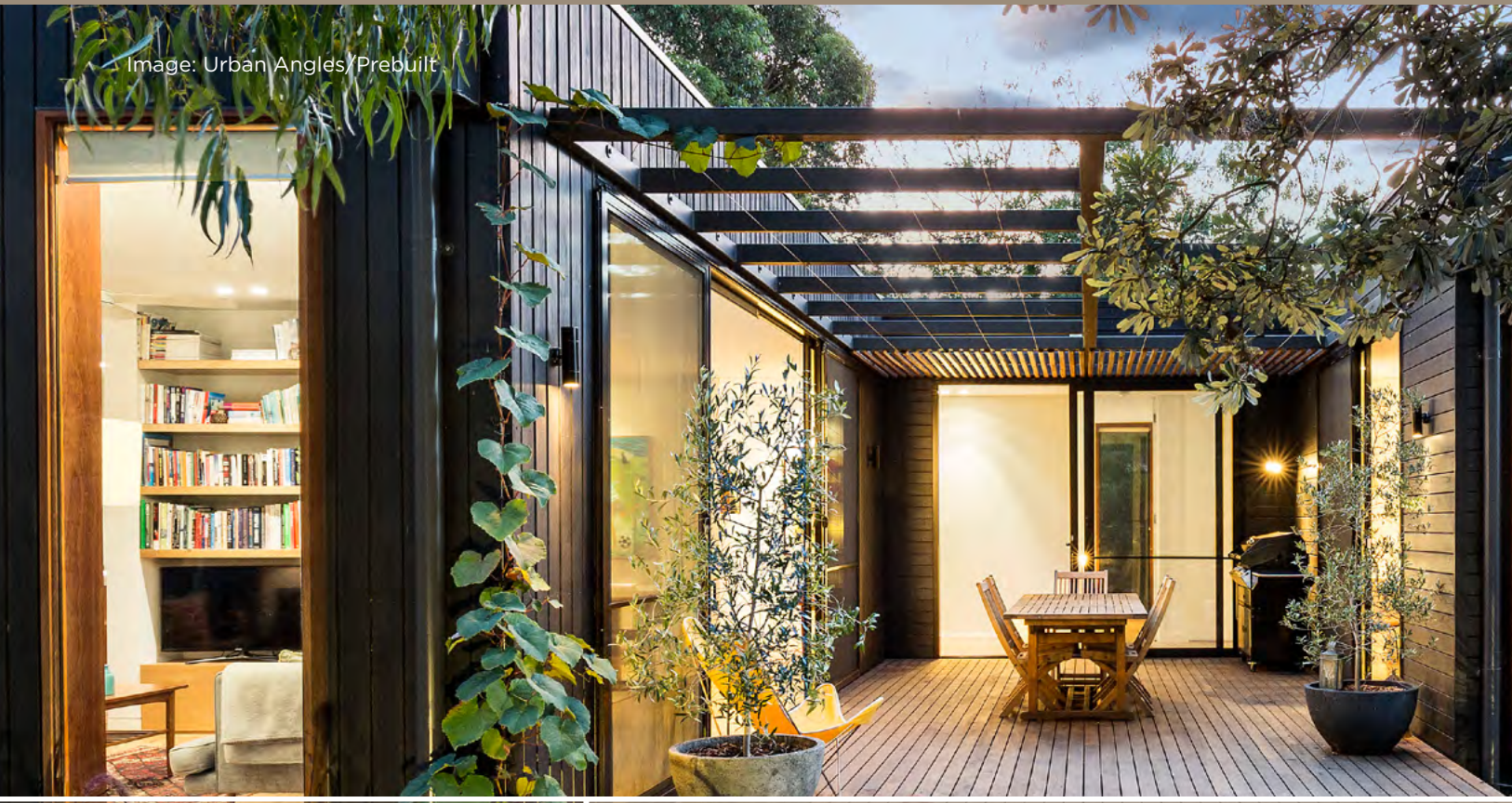
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**One of two e-scooters from Voltrium,
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Image: Urban Angles/Prebuilt



Prefab

power

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WORDS Jacinta Cleary

The housing affordability crisis, inflation and a desire for an energy-efficient home in the face of rising energy bills have many people considering prefabricated and modular construction as a reliable solution. We look at what's new in the industry, and profile a range of local suppliers in our modular and prefab guide.

Just like another advanced technology, electric vehicles, prefabrication for residential buildings hasn't been fully adopted in Australia – yet. The tipping point might already be here though. Sky-high building costs and pressures in the housing market are forcing many people to look at alternatives to traditional ways to build a home, meaning heightened interest in prefabricated and modular construction methods for Australia's small but growing industry.

“The prefab and modular sector offers greater certainty than conventional construction,” says senior associate architect Andrew Fotia from ARKit, adding that the industry is now sufficiently “well primed” with completed projects to be seen as a safe and reliable option. “People are spooked, worried that



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With a prefabricated approach, most of the construction work is done before transportation, minimising time spent onsite. Here, a module by Prebuilt is craned into position in Byron Bay, New South Wales. Image: Media Drive



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More and more prefab companies are offering panelised systems that are easy to transport and assemble, and make for a fully insulated building envelope that significantly reduces heating and cooling needs. Image: Zen Haus Group

builders will go under in the current climate,” he says, pointing to the collapse of prominent building companies this year. “They want to know how they can be sure they’ll get a finished home, and with prefab’s shorter construction time, there’s less risk of things going off track.”

Others say that a shift away from traditional ‘stick-build’ methods to more efficient prefabricated and modular systems is unavoidable. “The broader industry recognises that prefabrication is the best way to deliver the homes of the future,” says CEO Burkhard Hansen of CarbonLite, makers of Panellite, a wall, floor and roof panel system that can be used to assemble Passive House homes to lockup stage in a matter of hours. “Everything is working against the building sector in an era when demand for houses is increasing. Builders are under immense pressure, with soaring building costs and the constant battle to achieve a margin.” He mentions one volume builder that recently moved their catalogue of homes to the Panellite system, for reliable building costs and energy efficiency measures that meet the incoming 7 Star minimum standard. “Prefab offers a chance to build a house and be part of the energy solution at the same time.”

Prefab’s emphasis on sustainable processes and energy efficiency is an exciting prospect for homeowners. The suppliers in our modular and prefab guide (see p60-65) use sustainably sourced materials and innovative construction processes that

minimise waste; their homes also feature energy-efficient design, of course. “The end product is much better: it fits together better, lending itself to greater energy efficiency, with fewer gaps and more precise window openings. All of this contributes to the energy efficiency solution that conventional building keeps pushing to the side,” Burkhard says.

Suppliers we spoke to are building upon already streamlined systems, with further automation of construction processes to save materials and reduce labour and construction time while enhancing the quality of built projects. The team at Modscape spoke about their robotic production line used to manufacture open and closed wall units as well as Passive House-standard wall, floor and roof cassettes, while Ecoliv staff say they are exploring further efficiencies through a system that combines 3D CAD software and fully automated CNC equipment to produce buildings to lockup stage in shorter timeframes.

The list of companies that use either a panelised approach or a mix of panels and volumetric modules to construct a home has grown since our last prefab and modular supplier guide was compiled. Structural insulated panels (SIPs), prefabricated with insulation sandwiched between two durable cladding layers, are becoming more popular for their ability to minimise heat transfer and reduce heating and cooling costs. “We’re seeing an increase in customers looking at our Passive House prefab system for its energy efficiency, to protect against further energy price rises,” says Andrew at ARKit.

When it comes to design, many steps have now been taken away from early ‘cookie cutter’ prefab offerings. Companies are increasingly offering customised designs, a broader range of floor plans, or easy-to-adapt modular systems that can scale up or down to suit homeowners’ requirements. This flexibility is attracting customers across a range of budgets. “The benefit of prefab is that it can be customised and offered in various ways when it comes to layout and finishes. This makes it attractive to people with smaller budgets or building to difficult site conditions,” says Daniel Yip from MAKE Architects in New Zealand.

Lifting the quality of the designs in recent years, including in terms of climate responsiveness, is the growing involvement of architects in the design and planning of prefabricated and modular homes and systems. More companies employ architects or are run by architects branching out with their own innovations. Increased collaboration and knowledge sharing between manufacturers, architects, engineers and builders is improving construction techniques and elevating the overall quality of prefab homes.

Managing director Ed Callanan of FabPrefab says that these days there’s more demand for prefabricated and modular

construction from a younger generation of home builders and renovators – where affordability allows. “They care about sustainability, and prefab reduces material use by up to 70 per cent while providing a thermally efficient home,” he says. “We’re also seeing more enquiries from people who’ve moved to outer urban or regional areas due to a lack of affordability in cities.”

One FabPrefab client, a first homeowner, planned to build a new home in regional New South Wales, but when the project went out to tender the build cost came back significantly higher than budget. “We tweaked the existing design a little, and used our system to hit the price they were after,” says Ed; the house was built in modules offsite using cross-laminated timber (CLT), then delivered and “plugged into” the site. Ed says that several factors, including material costs and shorter construction times, make prefab projects a more affordable option now. “We’re not so affected by timber shortages, because CLT is an engineered product and we can buy ahead and store it in our facility.”

It’s clear that the prefabricated and modular construction industry in Australia has made significant strides in the last few years. Market acceptance and government support is on the rise; just a couple of examples are Zen Haus Group’s selection to build prefabricated social housing in Tasmania, and the Victorian state government’s plan to roll out over 100 energy-efficient prefabricated homes for homeless people in regional areas. “The industry has established itself with forward-thinking processes, fast manufacturing and sustainable housing solutions built in a controlled environment,” summarises Ed. 📍

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Manufacturing building components in the controlled environment of a factory, such as Eclipse Passive House’s Sydney facility pictured here, allows for high precision, efficiencies in material use and waste management, and greater certainty for timelines. Image: Evan Maclean





Ecoliv

www.ecoliv.com.au

Location: The Gurdies, VIC

Area serviced: Australia-wide

Type: Pre- and custom-designed homes built in modules for urban, remote, off-grid and accommodation sites.

Ecoliv is Climate Active and B Corp certified, demonstrating the team's commitment to conducting business responsibly, making meaningful contributions to communities, and creating sustainable outcomes. The controlled environment at Ecoliv's off-grid factory near Phillip Island enables zero emissions throughout construction, and a Design for Manufacture and Assembly (DfMA) methodology streamlines the process and reduces building time and overall production costs.

Ecoliv's homes are built in modules, transported to site and connected to services, with a range of pre-designed floor plans available. Customers can also combine modules from different homes or opt for a custom design, in consultation with designers for site-specific advice. Their off-grid Riverland project, pictured, is sited for northern orientation, and like all Ecoliv projects it features passive solar design principles, double-glazed windows, insulation and effective sealing. The energy-efficient modular home produces its own power, with a 10.14-kilowatt solar PV system and battery storage. Eco-friendly features such as solar systems, 10,000-litre rainwater tanks and energy-efficient hot water systems are standard in Ecoliv's homes, with upgrades available.



ARKit

www.arkit.com.au

Location: Melbourne, VIC

Area serviced: VIC

Type: Architecturally designed, handcrafted prefabricated builds and additions using modular, panelised and hybrid systems.

Prefab isn't just about off-the-shelf homes, with the connection between architecture and prefabricated construction growing stronger. ARKit takes a flexible but streamlined approach, using both modules and panels along with easy assembly systems to create their architecturally designed homes. Performance-wise, the homes are designed to maximise passive heating and cooling and natural light, with the team experienced in design and construction to the rigorous Passive House standard.

ARKit's designs are made from a mix of materials including plantation timber, a deliberate choice by the company to help lower the embodied energy of their projects. The lightweight constructions are created using a Design for Manufacture and Assembly (DfMA) approach that streamlines the process, ensuring the efficient use of timber and other building materials while minimising waste. Their two-dwelling project in Glen Iris, Victoria, pictured during installation, is a five-level design to address the site's extreme gradient, and was delivered as 16 modules.

Image: Willem-Dirk du Toit



Eclipse Passive House

www.eclipsepassivehouse.com.au

Location: Sydney, NSW

Area serviced: NSW and ACT

Type: Passive House-certified panelised and modular prefabricated building envelopes.

The precise nature of prefabricated building systems and Passive House design go hand in hand, especially when it comes to high-quality insulation and airtightness. Eclipse's projects are focused on achieving Passive House certification for the Australian environment, and include the Greenwich Park House by Gaea Architects, pictured, a certified Passive House in the Central Tablelands of New South Wales. The largely off-grid house is designed and built to withstand the extreme weather at the bushfire-prone site, including temperatures ranging from -10 to 46 degrees Celsius.

Eclipse's building system allows flexibility for designers and homeowners to design for the exacting Passive House standard on a particular block. The airtight wall and roof panels include timber stud framing, cellulose insulation and a service cavity for electrical and plumbing systems. The team supplies and installs the homes, all the way through to blower door testing to confirm airtightness. Eclipse says that the high speed and precision of prefabrication also suits energy-efficient homes and renovations on tight city sites.

Image: Evan Maclean



Form Homes

www.formhomes.com.au

Location: Malaga, WA

Area serviced: Perth metro

Type: Panelised system using SIPs for urban and off-grid new builds.

Committed to creating a net-zero carbon future, Form Homes is bringing technologically advanced, energy-efficient modular homes to the Perth market. The homes are constructed from structurally insulated panels (SIPs), with the practice using a 3D modelling system that accurately represents the design and specifications of their homes before printing the panels in their SipForm factory. The panels are made by bonding the external cladding and internal linings to an insulating core, and once installed, form a fully insulated envelope that significantly reduces heating and cooling needs. Durable cladding options such as fibre cement and Weathertex resist weather, mould, rot and pests, including termites, providing structural resilience and longevity.

The flat-pack approach provides an easier construction method in remote or hard-to-reach locations. The panels are manufactured, stacked and delivered by truck to site, where the home is rapidly assembled and finished with reduced reliance on trades. The architecturally designed range includes retreats and family homes, such as the house at Cottesloe, pictured; custom designs are also available.



Prebuilt

www.prebuilt.com.au

Location: Melbourne, VIC

Area serviced: VIC, NSW, ACT & SA

Type: Architecturally designed homes and commercial projects delivered in prefabricated modules to urban, rural and remote locations.

Prebuilt has been leading the architecturally designed modular market for over 20 years, offering pre-designed houses and custom designs in conjunction with architects Pleysier Perkins. The company's modular system consists of steel structural members with timber frame infill. Insulation, cladding, utilities and the entire internal fitout are completed in their Melbourne factory, meaning that most of the work is done before transportation, minimising time spent on site. Craning into position and finishing of joins takes around two weeks.

The Mod House, pictured, is designed to suit all environments including urban and rural settings, and has several three- and four-bedroom layouts to choose from. Decks and pergolas can be added to create outdoor rooms and a stronger connection with the natural environment. Prebuilt's designs use double-glazed windows, insulation and shading devices, including optional timber batten screens, to help control temperature naturally. An architectural team assesses the site and orientation for passive solar design and bushfire considerations, with homes able to be constructed to comply with bushfire ratings up to BAL-40.



Blok Modular

www.blokmodular.com.au

Location: Brisbane, QLD

Area serviced: Australia-wide

Type: Bespoke architecturally designed modular homes and commercial projects; factory-built modules delivered and installed Australia-wide.

An award-winning in-house architecture studio leads this modular operation, specialising in projects on difficult sites in New South Wales and Queensland. Modules are craned in and installed in a day, reducing time spent by builders accessing the site. Blok's homes are custom-designed using passive solar design principles along with high-performance insulation and efficient heating and cooling systems to reduce energy usage. The designs have large windows and open floor plans to maximise natural lighting and ventilation and create connection between indoor and outdoor spaces, making them more sustainable and comfortable to live in. The homes also have features such as built-in storage and furniture to make them functional and efficient, as well as multi-use spaces that can adapt to different needs over time.

Blok's homes are made from sustainably sourced timber, with low-VOC paints and finishes, and recycled and repurposed materials are used wherever possible. The award-winning house at Stafford Heights, pictured, is a design collaboration between Blok Modular and architects Vokes and Peters.

Image: Christopher Frederick Jones



Anchor Homes

www.anchorhomes.com.au

Location: Melbourne and regional VIC

Area serviced: VIC and southern NSW

Type: Family and holiday homes constructed from modules built in factory for delivery and installation onsite.

Energy efficiency is prioritised in Anchor Homes' modular dwellings, with standard features such as double-glazed sliding doors and awning windows, insulation in walls, floors, and ceilings, and heavy-duty roof sarking and wall wrap for draught proofing. Energy efficiency can be boosted with higher insulation levels or thermally broken aluminium window frames. The range of 35 designs consists of one to four modules of up to four bedrooms in size, and each module is built on a steel subfloor with additional bracing for transportation. Customers can also bring their own design to be adapted to Anchor's modular home building system.

Anchor's transparent pricing includes delivery fees to help homeowners make informed decisions about costs. The construction process is efficient, with an estimated 10-week build time, followed by six to ten weeks for onsite installation. Pictured is a modified version of Anchor's 162-square-metre Portsea 16 design, a bright and comfortable four-bedroom home on the Bellarine Peninsula.



FabPrefab

www.fabprefab.com.au

Location: Somersby, NSW

Area serviced: Australia-wide

Type: Architectural homes built and delivered in modules ready to 'plug' into the site.

FabPrefab's architect-designed homes are constructed with cross-laminated timber (CLT) for its strength, sustainability and compatibility with prefabrication techniques; FabPrefab is the first builder of full CLT homes in the modular market. Standard material sizing is used for low waste in production, and leftover materials are repurposed. Passive solar design strategies optimise energy efficiency and comfort within the homes, reducing their reliance on artificial heating and cooling systems. The homes incorporate off-grid and hybrid energy systems.

Customers can choose from 19 pre-designed homes, custom designs collaborating with architects, or a 'kit of parts' approach, which involves combining new and existing elements to create a home. The modules are typically 3.5 metres wide by 7 metres long for easy delivery into metropolitan areas, and are craned off the truck and placed in position. The pictured Courtyard House at Hawks Nest, New South Wales, includes two bedrooms and a flexible third room that can be used as a bedroom, study or sitting room. Retreats by FabPrefab start at just nine square metres in size.

Image: Clinton Weaver



Zen Haus Group

www.zenhaus.com.au

Location: Avoca Beach, NSW

Area serviced: Australia-wide

Type: Panelised walls with pre-installed double glazing, plus floor system and roof cassettes.

Prefab is starting to deliver affordable public housing, with Zen Haus Group recently selected by government agency Tasmanian Homes to deliver a new housing cluster. In addition to the disability accommodation, social housing and low-rise apartments that are their specialties, Zen Haus Group's systems also cater for residential builds such as duplexes and townhouse developments, and one-off designs by architects.

Their prefabricated modules have a non-combustible fibre cement facade and a lining made of gypsum, cellulose fibres and oriented strandboard (OSB), all made from recycled materials. Their building system includes membranes for airtightness and breathability and pre-installed double-glazed windows, creating thermally efficient and quiet homes that typically achieve an 8 Star energy rating.

Zen Haus Group says there are signs that prefabrication will increasingly be considered by government for affordable social housing, a topic that they are passionate about. Pictured is disability accommodation under construction in Gregory Hills, New South Wales.

Image: Jeremy Hudson Photography



MODE Homes

www.modehomes.com.au

Location: Sydney, NSW

Area serviced: NSW and ACT

Type: Combines modular and panelised construction with folding technology for new homes and additions.

One compact prefab system is the folding home, with architect-led practice MODE Homes patenting their approach in 2012. MODE's folding assembly method was used in the construction of the pictured four-bedroom, 150-square-metre house in Bundanoon, New South Wales; the home was constructed in MODE's Blacktown factory, folded together to save on transport costs, and then folded out again onsite after a crane lifted it into position. MODE's construction method depends on the site and design, with easy-access sites able to accommodate pre-built modules while panels are typically used for sites with poor access, and folding modules employed to save time and money in remote locations where trades are hard to source.

The one-off designs have double glazing as standard and high levels of insulation. Homes and additions are designed to suit the site, and materials include sustainably sourced hardwood timbers and Weathertex cladding for longevity.

Image: John Swainston



Our Fabhaus

www.ourfabhaus.com

Location: Melbourne, VIC

Area serviced: Australia-wide

Type: Architecturally designed homes with local component prefabrication, assembled and fitted onsite to individual requirements.

Our Fabhaus delivers Passive House standard builds for Australian conditions, with homes designed and manufactured offsite in standard module sizes and transported for easy assembly. The homes are especially suited to those seeking an all-electric, low-energy home. They incorporate an 'envelope-first' approach in the design and construction, meaning that they are heavily insulated and airtight, with high-performance windows and doors, and mechanical ventilation with heat recovery for fresh air. Triple-glazed windows are used in some climate zones, with windows and doors positioned to frame views and let natural light in.

The range includes 12 sizes, from eco cabins starting at 34 square metres through to four-bedroom homes at around 200 square metres. Internal and external finishes can be customised, as well as cabinetry and room configurations. Living rooms include storage, window seats and built-in desks. The Fabhaus 1, pictured, is an off-grid four-bedroom home over two pavilions, with a 15-kilowatt solar PV system and spotted gum cladding (see p42 for the full story).

Image: Jaime Diaz-Berrio



CarbonLite

www.carbonlite.com.au

Location: Melbourne, VIC

Area serviced: Australia-wide

Type: Passive House construction using PanelLite wall, floor and roof system, installed onsite.

Prefabricated systems can make Passive Houses achievable for regular home builders and renovators. One such company bringing Passive House to the masses is CarbonLite, makers of the PanelLite construction system that's certified by the Passive House Institute in Germany. CarbonLite 3D models custom designs from architects and building designers, and prefabricates the building panels locally. The wall, floor and roof panels are fast to assemble, with lockup stage achievable in just one and a half days, when a blower door test is completed to guarantee the home performs at or below 0.6 air changes per hour at 50 pascals pressure (ACH50).

CarbonLite says their homes are able to perform year-round without the need for excessive heating or cooling, and are made energy-efficient through high levels of insulation, an airtight building envelope and high-performing windows and doors. Double- and triple-glazed windows are specified based on climate conditions. PanelLite is also being sold to volume home builders to achieve higher energy efficiency standards, again helping to make high-performing homes available to everyone.



Fairweather Homes

www.fairweatherhomes.com.au

Location: Melbourne, VIC

Area serviced: Australia-wide

Type: Panelised or modular; architectural design and fabrication for onsite installation.

Fairweather Homes works with Modus Architects to create customised, prefabricated designs. The process starts with a site assessment to optimise the home's orientation, taking advantage of natural heating and cooling techniques for maximum comfort and energy efficiency. High levels of insulation in the walls, ceilings and floors, along with double-glazed windows and external doors, retain winter warmth and provide protection against summer heat. Thermal mass options, such as concrete floors with tiles, further help to maintain stable indoor temperatures. Projects use renewable, locally sourced materials to reduce embodied carbon; the pictured house in Somers, Victoria, features plantation timber to reduce the home's environmental impact (see *Sanctuary53* for more).

The building components are manufactured by panel specialists Assemble Systems and delivered to site. This lean manufacturing process not only saves money and waste but also ensures economical transportation. Finishes, fitout and detailing can be standardised, or customised for local climate, bushfire areas and harsh coastal environments.

Image: Rhiannon Slatter



Modscape

www.modscape.com.au

Location: Melbourne, VIC; Brisbane, QLD; Sydney, NSW

Area serviced: Australia-wide

Type: Bespoke homes, built in modules and installed at remote, rural and urban sites.

Modscape's process is highly flexible, with an in-house team of architects able to design a home for a particular site and budget; alternatively, clients can bring their own architect to the project. There is no standard sized module, and a building might be made up of multiple modules of varying sizes and shapes. The maximum size of each module is determined by what can be transported on the road. Modscape uses their own robotic production line, Modbotics, to manufacture building components such as open and closed walls along with Passive House wall, floor and roof cassettes.

Since it was established in 2006, the practice has incorporated passive solar design elements such as site-specific orientation and layout, high levels of insulation and cross ventilation. The homes are clad in Colorbond steel or zinc (both readily recyclable materials) and plantation silvertop ash, with zero-formaldehyde and low- or no-VOC materials throughout. The custom-designed Bronte house in Sydney, pictured, features natural materials such as locally-sourced sandstone and timber cladding.

Image: Katherine Lu



Ecoshelta

www.ecoshelta.com

Location: Sydney, NSW; Tasmania

Area serviced: Australia-wide including offshore islands

Type: Flat-packed, lightweight building parts, suitable for shipping container delivery and sites with difficult access.

Reaching remote parts of Australia with builders and materials has long been a logistical headache, but Ecoshelta has been delivering prefabricated, flat-packed homes to isolated regions for several decades. Developed by Stephen Sainsbury Architects, the system provides adaptable and energy-efficient housing for off-grid locations or urban property owners with difficult site access. The designs feature passive solar design and cross ventilation for natural heating and cooling, and off-grid or hybrid solar electricity systems, rainwater harvesting and sewage treatment systems for efficient energy and water use.

The homes consist of pods with sturdy aluminium alloy structural frames and modular infill panels for insulated floors, walls and roofs. The marine-grade aluminium keeps the structure lightweight for delivery while providing strength and resilience, particularly in coastal environments. This modular approach is flexible and scalable, with the pods interconnecting to form two- and three-bedroom structures, or standing alone such as the pictured cabin at Villas Barossa, South Australia.



MAAP House

www.maaphouse.com

Location: Newcastle, NSW

Area serviced: NSW

Type: Hybrid modular and panelised construction system.

With MAAP's website spruiking the 'three-week studio' and the 'five-week house', it's easy to see how their construction system puts affordable, energy-efficient homes within quick and easy reach. MAAP uses a hybrid system of wall, floor and roof panels (branded as Modular Architectural Adaptable Panels) and volumetric modules to construct their homes. The modules typically house bathrooms, kitchens and laundries that are fitted out in the factory and delivered as pods, and the rest of the house is assembled onsite using the flat-packed panels. The panels come fully lined, insulated for thermal efficiency and fitted with electrical cabling, with structural insulated panels (SIPs) used for the roof.

The panels withstand all sorts of strength and durability tests including fire and hammering, and can be reused or reconfigured when alterations are needed. A great example of the MAAP approach, the secondary dwelling at Bulahdelah, New South Wales, pictured above and featured in *Sanctuary* 53, sits off the ground for flood resilience and features all-electric appliances.



MAKE Architects

www.makearchitects.co.nz

Location: Auckland, New Zealand

Area serviced: New Zealand-wide

Type: Prefab factory-built floor, wall and roof components transported to rural and suburban New Zealand

The flat-packed Karangahake House by MAKE Architects, pictured, was placed onsite within four days, allowing trades to move quickly on to cladding, finishes and installing services. The clients were able to move in two months later, much faster than with traditional onsite construction, which is so often slowed by weather and other factors. The 120-square-metre house (profiled in *Sanctuary* 53) demonstrates MAKE's commitment to producing efficient homes with a tight footprint rather than large, energy-hungry homes. The small practice produces a range of houses, from beach house designs using cross-laminated timber to townhouses and family homes.

The process starts with a site meeting to discuss how clients want to live on the site, which drives the design, including passive solar design elements. Energy efficiency is achieved through weathertight linings to reduce draughts, and ventilation systems to enhance airflow. Designs can be customised with different finishes and layouts, making prefab attractive to those with smaller budgets or challenging site conditions.

Image: David Straight



Tropo TropPods

www.troppods.com.au

Location: Tropo partners with regionally-based manufacturers

Area serviced: Australia-wide

Type: Hybrid system of flat-packed panels and prebuilt modules.

Pitched as 'portable architecture', TropPods are prefabricated small dwellings from architectural practice Tropo. Like some other systems, TropPods use a hybrid approach of volumetric modular construction for craned-in wet areas, and flat-packed panels assembled onsite, with parts such as eaves and verandah roof panels simply 'clipped on'. The pods are built with hardwearing and readily available materials such as fibre cement cladding, hardwood weatherboards, Zinalume roofing and plywood.

TropPods are constructed in regional areas and can be delivered to many parts of the country. As such, homes and studios are designed to respond to the local climate, and passive design principles such as insulation, orientation and cross ventilation are adapted during site planning. Pods can include wind protection in cyclone areas, as well as autonomous off-grid solar systems and rainwater systems. The tropical bungalow pictured was constructed as a portable structure and transported to site at the Anbinik resort in the Northern Territory. See p38 for another TropPods build.