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Australian Timber Design Awards showcase innovative solutions

COVER STORY P 2

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The 24th Australian Timber Design Awards winners announced

THE Annual Australian Timber Design Award winners for 2023 were announced last week at the Cargo Hall in Melbourne, compered by writer and presenter Tim Ross. ARM Architecture received first prize for their outstanding Sydney Opera House Concert Hall Renewal project.

The World Heritage-listed Sydney Opera House celebrates its 50th birthday this year. The Concert Hall, its largest venue and home to the Sydney Symphony Orchestra had never lived up to the promise of the exterior of the building, suffering a poor reputation for acoustics. The challenge to solve this shortcoming involved innovative use of Brushbox timber panelling and smart interventions into the existing



Kevin Peachey (left), lead of Wood Solutions, awarded the overall winner of the Australian Timber Design Awards to ARM Architecture for the Sydney Opera House Concert Hall renewal. Image: Timber Development Association

White Birch ceiling.

The wall panelling around the stage, stalls and rear walls were reconstructed with new solid carved panelling. All were made in the same Brushbox timber already present in the Hall. The new panels diffuse the acoustic energy, prevent direct reflections and create a blended sound and sense of envelopment in the music. The result is a series of

highly tactile and sculptural surfaces that encourage the hand to run along them.

AWARD WINNER:

OVERALL WINNER – Sydney Opera House Concert Hall Renewal by ARM Architecture

MERITS:

- **PEOPLE'S CHOICE** – Boola Katitjin – Murdoch University by Aurecon, Lyons Architects and Multiplex
- **SUSTAINABILITY** – ANMF

House by BayleyWard Architect

- **RISING STAR** – Austin Reed from Brother Nature for Kunama Townhouses

EXCELLENCE IN TIMBER APPLICATIONS:

- **RESIDENTIAL CLASS 1: New Building** – Pocket Passiv by Anderson Architecture.
- **RESIDENTIAL CLASS 1: Alteration or Addition** – Music Room by Alexander Symes Architects
- **MULTI-RESIDENTIAL** – Eternity Life Apartments by k20 Architecture
- **PUBLIC BUILDINGS** – The Pavilion Performing Arts Centre Sutherland by CHROFI & NBRS
- **COMMERCIAL BUILDINGS** – Barker College Maths and Student Hub by Architectus
- **INTERIOR FITOUT: Residential** – Elsternwick House by Melanie Beynon

“ INNOVATIVE USE OF BRUSHBOX TIMBER PANELLING ”



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From P 2

Architecture & Design

- **INTERIOR FITOUT: Public or Commercial** – Sydney Opera House Concert Hall Renewal by ARM Architecture
- **FURNITURE AND JOINERY** – Art Gallery of NSW Library and Members Lounge by Tonkin Zulaikha Greer Architects

EXCELLENCE IN TIMBER PRODUCTS:

- **AUSTRALIAN CERTIFIED TIMBER** – Galkangu Bendigo Govhub by Icon

Fairbrother Joint Venture and Lyons Architects

- **ENGINEERED WOOD PRODUCT** – Boola Katitjin, Murdoch University by Aurecon, Lyons Architects and Multiplex
- **RECYCLED TIMBER** – Marramarra Shack by Leopold Banchini Architects and Cantilever Consulting Engineers

Tim Ross, an Australian comedian, radio host, writer and television presenter, announced the winners at the Cargo Hall South Melbourne. He is more recently known

as the presenter of the ABC shows Streets of Your Town and Designing a Legacy, which reflect his personal enthusiasm as a self-proclaimed architecture geek.

The Australian Timber Industry would like to extend gratitude to our panel of judges, sponsors and those who entered projects.

For a complete list of winners, finalists, and the awards magazine eBook, click here.

ABOUT THE AUSTRALIAN TIMBER DESIGN AWARDS

The vision of the Australian Timber Design Awards is to highlight, advertise, advocate, and develop a timber design ethos through the encouragement and showcasing of superlative timber design in various applications. A broad range of entry categories demonstrates the diversity of timber and permits recognition of achievement in a variety of areas.

On the cover: Sydney Opera House Concert Hall renewal project by ARM Architecture... overall winner and winner of the Interior Fitout: Public or Commercial category.
Image: ARM Architecture

Mass timber to be featured in proposed office block in the UK

MAIDENHEAD, located in the county of Berkshire, England is undergoing redevelopment, and it is set to feature a new landmark, a spectacular mass timber building.

Waugh Thistleton Architects has unveiled plans for a six-storey office building that will become a part of the 'One Maidenhead', a mixed-use redevelopment of their town centre.

The redevelopment will be made up of six blocks, ranging in height from seven to 16 storeys, containing 424 homes, plus retail, office and



Waugh Thistleton Architects proposed building design for Maidenhead, England.

public space, car parking and landscaping.

Waugh Thistleton Architects are cross laminated timber specialists. They are aiming to collect the BREEAM "outstanding" rating and a WELL "platinum" certification on their project named Trehus, a Norwegian word meaning 'house of wood'.

The office building is to feature a timber superstructure; the design is one to watch as it develops.

Source: Building

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NZ Timber Design Awards recognise innovation and creativity

By **MICHAEL SMITH**

AFTER a keenly felt three-year absence, the NZ Timber Design Awards returned to centre stage late last week at a gala evening hosted by Timber Unlimited in Auckland.

Bringing together architects, designers, engineers and construction professionals, the awards were an opportunity to celebrate the redefining of timber as a modern building material.

"It's no mistake we call



Green School – Kina: winner of the Commercial & Public Building Design Award and the Supreme Award. Image: Charlotte Curd

ourselves Timber Unlimited," says Dr Robert Finch, the organisation's director. "The possibilities for timber aren't

limited to traditional uses any more. We all know timber can be aesthetically beautiful as well as being an impressive

building material, but this time we're also celebrating just how sustainable a sector this is."

The 61 finalists chosen across 12 categories featured everything from residential and commercial architectural excellence, to innovative uses of engineered wood and new ways to use specialty timbers.

Determining the winners and runners-up required a profound understanding of architectural design, engineering skills and innovative thinking, as well as construction excellence.

Convening judge David Carradine, a senior structural

Cont P 5

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From P 4

research engineer with BRANZ (one of four judges selected for this year's awards), says that for him, "There is no limit to what can be done with this material, especially combined with the advances in digital and manufacturing technologies that cater specifically to wood and engineered wood products."

Mr Carradine was joined on the judging panel by Jan Stanway, Technical Director for WSP in New Zealand; Andrea Stocchero, senior analyst, Sector and Bio-economy at Te Uru Rakau – New Zealand Forest Service; and Judith Taylor, current President of the New Zealand Institute of Architects.

All judges felt the range of submissions demonstrated the innovation, dedication and creativity that exists across the New Zealand timber sector – from architectural and engineering design, manufacturing and fabrication, to "the builders and makers of these beautiful examples of what can be

“NO LIMIT TO WHAT CAN BE DONE WITH THIS MATERIAL”



1/ **Te Rau Karamu Marae features totara – a native softwood suitable for laser cutting and CNC router work.** Image: Andy Spain

2/ **90 Carrington Road (social housing project): CLT was chosen as the primary structural material.** Image: RM Designs and Engco

done with one of our greatest national treasures, namely timber".

Prominent among the finalists was Green School – Kina, by Taranaki architects BOON – winner

of the Commercial & Public Building Design category, and the overall Supreme Award. The judges agreed it was an exemplary project that demonstrated the beauty, efficiency and sustainability

of timber ... and was a clear winner.

The focal point of the project's design is its curved glulam members comprising 24 curved portals, several complex eyebrow members, and curved purlins and battens.

Other prominent wood elements include a plywood-enclosed primary shell; New Zealand beech decking; Accoya window and door joinery; and internal cladding comprised of macrocarpa weatherboards.

The architects were keen to take advantage of the carbon sequestration ability of mass timber ... while the design emphasised a minimal need for concrete – reserved for the four foundation blocks of the main arches.

"Through sustainable material selection, and innovative building techniques and products, Green School NZ buildings have been faster to build, higher performing and less wasteful than most others by quite a margin."

Also worthy of mention is Te Rau Karamu Marae, by Te Kahui Toi and Athfield Architects – winner of the New Zealand Specialty Timber Award.

Cont P 7

Thank you.

To all forest industry, regional communities and rural fire service personnel who work tirelessly to keep our communities and forests safe, we thank you.

responsiblewood.org.au



Responsible Wood takes a deep dive into timber sustainability in Western Australia

ON a journey this past week through Western Australia, our Sustainability Manager, Matt de Jongh, had the opportunity to delve into the diverse facets of sustainability within the forestry sector. This included participation in the Brunswick Show, an event that showcases the region's forestry and agricultural sectors, emphasizing the importance of engaging with local communities to raise awareness about responsible timber sourcing and sustainable forestry practices.

During the visit, Matt witnessed sustainable forest management in action, collaborating closely with Wespine Industries, Forest Products Commission (FPC), and the Department



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of Biodiversity Conservation and Attractions (DBCAs). Pine plantation trials and karri and jarrah thinning trials offered invaluable insights into the long-term sustainability of timber resources.

At the Source Certain facility, Matt explored traceability within the timber supply chain, recognizing that knowing the origin of timber is fundamental for responsible sourcing, with initiatives like Source Certain enhancing transparency.

A workshop at the Western Australian Plantation Resources (Marubeni - WAPRES) office in Bunbury highlighted the importance of

education and collaboration as key drivers of change in the timber industry.

A meeting with Bunnings staff to discuss sustainability and responsible sourcing reinforced the significance of retailers in promoting responsible wood sourcing practices. Engaging with retailers like Bunnings is pivotal as they can drive market demand for sustainably sourced timber products.

This journey shed light on the fundamental elements of sustainability in the timber industry, with a focus on community engagement, forest management, traceability, and collaboration. Sustainability is a commitment to preserving our natural resources for future generations. Every step taken toward responsible sourcing makes a significant impact.

Source: Responsible Wood

“KNOWING THE ORIGIN OF TIMBER IS FUNDAMENTAL FOR RESPONSIBLE SOURCING”

NOVEMBER

9-10: Sustainability summit and awards 2023 – Sydney.

The event begins with the summit, with its topics ranging from the Brisbane 2032 Olympics builds to Designing for Resilience and Sustainability Certification and Compliance, held at Allianz Stadium in Sydney and online. Then on Day 2, the prestigious awards will be held at the Sydney Cricket Ground. Tickets start at \$149. Visit www.sustainablebuildingawards.com.au/#s-summit

12-17: Gottstein Understanding Wood Science Course – Canberra. Companies and interested individuals are encouraged to register their place/s soon to ensure they do not miss out on this respected

learning opportunity. Full details at <https://gottsteintrust.org/grants-courses/understanding-wood-science-course> or email team@gottsteintrust.org

14-15: Foresttech – New Zealand.

21-22: Foresttech – Melbourne. ForestTECH is Australasia's premier forestry technology series. It's run annually for forest resource managers, remote sensing specialists, inventory foresters, forest establishment and tree crop managers

This event will showcase the very latest forest industry developments including; Remote sensing, Data capture, In-forest UAV applications, Forest inventory, Precision planting, Precision fertilisation

and spraying, Mechanised silviculture and Mechanised tree planting

More details: <https://foresttech.events/ft23/>

16: AFCA AGM – Albury, NSW.

This year's AGM will be followed by an engaging AFCA Members luncheon and conference, focusing on the future of forestry and the role of technology in shaping the industry. Speakers include: Joel Fitzgibbon – Chair of AFPA, Tim Woods, Industry Edge – Forestry for a changing housing market and Jonathan Crellin. The event cost is \$255 for AFCA members or \$295 for industry guests, with the ticket including all meals, wine, beer, cider and soft drinks.

Any queries regarding this event

please contact either Terese Minall at office@afca.asn.au or Tim Lester at tim@afca.asn.au

DECEMBER

15: International Conference on Community Forestry and Conservation (ICCF - 23) – Melbourne. Hosted by one of the most trusted organizations, SAIRAP, the conference provides a premier global platform for exchanging ideas and insights on the latest developments across various fields. Our goal is to offer a competitive venue for industry professionals and academic researchers to showcase and discuss cutting-edge advancements in their respective fields. More details <https://sairap.org/conf/index.php?id=1871959>

From P 5

Located on Massey University's Pukeahu Campus (Wellington), the marae makes extensive use of totara – a native softwood known for its remarkable characteristics, including durability, stability and appearance. And for its long tradition of use in structures and forms of great value to Maori.



1/ **Wall-E, winner of the Hybrid Building Award: notable for its fully expressed LVL post, beam and POTIUS floor elements.** Image: Patrick Reynolds
 2/ **Tomohai ki Ahipara (cultural gateway to Ahipara, Northland): winner of the People's Choice Award.** Image: BJ Natanahira



Totara's straight grain, softness and short fibres make it highly prized for carving, woodworking and

joinery – an important consideration in its selection for the marae's interior and exterior elements.

The full list of award winners and highly commended projects can be seen here.

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AFPA congratulates Stephen Ryan ahead of retirement from HVP Plantations

THE Australian Forest Products Association (AFPA) congratulates Stephen Ryan on a terrific career following HVP Plantations' announcement of Stephen's retirement as CEO, and 17 years at the business, Acting Chief Executive Officer of AFPA, Natasa Sikman said today.

"Stephen has always been a strong and enthusiastic contributor for the forest products sector, and for HVP, and will leave the business with solid foundations for the future," Natasa Sikman said.

"His passion for human resources policy development,

including professionalisation of the workforce and enhanced training opportunities through the AFPA Growers Chamber, has been valued and appreciated. He also brought a particular focus on increasing diversity, equity and inclusion on workplace policy, to the Chamber. We wish Stephen all the very best on his retirement."

Stephen Ryan has served as HVP Plantations CEO



Stephen Ryan... retiring from HVP Plantations after 17 years at the business.

since 2017, before which he served as Chief Financial Officer. Josie Pane will become Acting CEO of HVP

Plantations before Stephen retires in December. A process will commence to appoint a new and permanent CEO to lead HVP.

"Businesses like HVP Plantations are critical to a strong forest products sector and again we thank Stephen for his leadership and the positive legacy he leaves at the company and for sustainable forestry in Australia. We also welcome Josie Pane to the Acting CEO role and look forward to working with her as she leads HVP through its next stage," Natasa Sikman concluded.

Source: AFPA

Expression of Interest open for WA pine industrial wood from 2026

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Forestry Corp NSW defends forest management

OURIMBAH State Forest is a regrowth and replantation forest. A spokesperson explained that “debris that is not able to be processed into timber product at local sawmills is graded into windrows and eventually burnt to create a bed of ash to enable eucalypt seedlings to be successfully raised.”

Forestry Corporation will be replanting the Ourimbah State Forest next year. In the meantime, the cleared areas become important staging areas for the Forestry Corporation firefighters to do back burning and establish containment lines in the worst-case scenario of severe bushfires like those we saw in the summer of 2019/2020.

The spokesperson for Forestry Corporation also shared that “These areas also serve as refuges and exit points



1/ Piles of debris left behind in Ourimbah State Forest will be graded into windrows and eventually burnt to create a bed of ash to enable eucalypt seedlings to be successfully raise.



2/ Delegates from the Asia-Pacific Forestry Commission on a field trip in Ourimbah State Forest.

for wildlife during bushfires, which our ecologists monitor.”

There were some residents concerned about the harvesting done in the Ourimbah State Forest. Those who contacted their local MPs and Ministers were provided with this information and explanations about the small portions of the state forest that is designated for timber production.

Forestry Corporation in the meantime hosted delegates from Asia-Pacific Forestry Commission on a field trip to the Ourimbah State Forest to display sustainability and multi-use forest management. The delegates were also shown some original Aboriginal sites and discussed partner programs to help preserve them.

“Delegates were enthralled

by stories of thousands of years of occupation by Aboriginal people and were very interested to understand the long-held knowledge, care and responsibility required to care for Country so it stays healthy, safe and productive for both people and wildlife,” Partnership and Heritage Team Leader John Shipp said.

Source: Forestry Corporation NSW and Coast Community News

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Farm forestry a major part of the net zero solution

As cited by the Government's agriculture and land sector carbon discussion paper

THE Australian Forest Products Association (AFPA) welcomes the Albanese Government's Agriculture, land and emissions discussion paper which highlights the important role that sustainable forestry can and is already playing in helping Australia meet its net zero emissions targets, Acting Chief Executive Officer of AFPA, Natasa Sikman said today.

"The Discussion paper released this week highlights farm forestry and agroforestry as 'examples of how carbon, agriculture and timber production can work together'. This is a great acknowledgment for our renewable and sustainable forest products sector and builds on AFPA's advocacy both in Australia and at COP27 when we partnered with the National Farmers' Federation (NFF) to showcase Mark Wootton, and the significant role his production trees played in achieving carbon neutrality for Jigsaw Farms," Natasa Sikman said.



Farm forester Mark Wootton at his Jigsaw Farms property in western Victoria.

The paper recognises 'Farm forestry and plantation forestry for wood production' as an established and scalable technology for carbon sequestration and storage.

"It is great to see today's discussion paper listing farm forestry co-benefits for landowners including shade and shelter for livestock, reduced soil erosion and improved water quality. It also highlights the importance of proximity to processing infrastructure for commercial viability – right tree, right

place, right purpose," Natasa Sikman said.

AFPA's 18 by 2030 industry wide commitment was also noted in the discussion paper, as what could be done, if the right policies are implemented.

"Whilst AFPA welcomes

“AFPA WANTS TO WORK WITH THE GOVERNMENT TO DELIVER TANGIBLE SOLUTIONS

today's discussion paper as a positive step in the right direction, policy and decision makers still need to better recognise the sector and its potential to address the current challenges Australia faces in meeting its net zero by 2050 targets. With the right policies the sector's full potential can

be recognised while also delivering multiple benefits for the country, our farmers, the environment, and broader society," Natasa Sikman said.

"AFPA looks forward to engaging with the Government on this discussion paper and will develop a submission as to how the broader forests products sector can work with Government to deliver real and tangible solutions to meet Australia's net zero targets," Natasa Sikman concluded.

Source: AFPA Media Release

New global forest network taking off in China

ON the 24th of October China hosted the launch for the new Global Network for Sustainable Forest Management. It was a collaborative launch between China, Fiji, Laos, Myanmar, Nepal, and Sri Lanka with over 14 countries represented among the 150 delegates in attendance. Delegates represented not only the forestry officials

of various countries but also international organisations, enterprises, universities, and research institutes.

The network looks to boost the United Nations 2030 agenda for sustainable development.



Participants applaud during the launch ceremony.
Image: China Daily

The goal is to help balance economic development

and conservation better while building practices that are green and low carbon. The network aims to achieve this through the coordination of policy creation, running pilot projects, building capacity and the sharing of information. The network is open to all countries who may wish to join.

Source: China Daily

Self-sustainability drying up

AUSTRALIA needs to focus more attention on being self-sustainable. While mining royalties drive a significant portion of Australia's wealth, it is the humble farmer who works 7 days a week and long hours to feed us and provide our core materials. It is the farmers both in food and forestry that are being disadvantaged and will struggle if nothing or too little is done.

FARMING

Most businesses are aware they need to innovate, review their costs and identify risks such as competition and potential supply chain issues. Our farmers are no different but must also add in external factors like drought, fire, flood, wild animals and pests, economic conditions, rising interest rates, and political reactive foreign tariffs, all of which often come with little or no warning.

Australia's broadacre farmers are expected to see their incomes slashed by more than 40 per cent this financial year due to dry conditions, declining commodity prices and increasing interest rates.

A report by the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) predicts that after a record couple of years, average farm cash incomes will drop 41 per cent nationally, to \$197,000, per farm in 2023–24.

ABARES executive director Dr Jared Greenville says farm incomes are predicted to



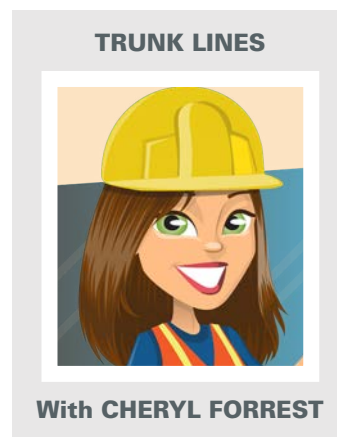
Drying conditions across Australia are a significant factor in the large falls expected in farming incomes this financial year. Photo: ABC - Nigel Muggridge

wind back to what they were around three years ago.

"As we're shifting into some drier conditions across much of the country, but particularly in some areas in WA, NSW and Queensland, at the same time we're seeing prices fall across the board, across a number of our commodities, [and] we're expecting farm cash incomes to also follow suit," Dr Greenville said.

Farmers are urged to seek financial support earlier rather than leave it

“ AUSTRALIA NEEDS TO BE MORE SELF-SUFFICIENT



too late. The Department of Agriculture, Fisheries and Forestry has grants and assistance programs to assist rural Australia during times of difficulty and there are also state based assistance programs.

FORESTRY



Demand for timber has depleted our resources and the need for overseas timber imports means our local communities and jobs are severely affected. Photo: Wirestock on Freepik

This brings me to my second point. The Federal government has reframed the Support Establishment Program and committed \$73.76 million in grant funding over 4 years from 2023-24 onwards. This funding is supposed to support the establishment of new long rotation

softwood and hardwood plantation forests in Australia. The grant requires a minimum co-contribution of at least 1:1.

Whilst this all sounds very positive; it is a small drop in what is potentially a very large body of water called Australia. With logging access to public forests being reduced or in the case of Vic and WA closed entirely by short sighted state legislators trying to keep minor political parties happy with preference voting at the ballot box. The demand will need to be met from overseas timber imports, which isn't good for our local communities, jobs, supporting infrastructure, carbon retention through renewable forests and more. It takes a long time in investment terms to establish a plantation forest.

Wake up Australia we need to be more self-sufficient. We cannot allow our food and core building materials to be heavily reliant on imports as it is too easy for things to be shut down. Surely, we learnt this during the Covid-19 pandemic!

Until next month,

Cheryl

Source: ABC/ ABARES

Timber growing to meet demands

THIS year we have seen a rise in mass timber buildings alongside a push to drive towards carbon neutral infrastructure and better environmental care in the building sector. In a bid to lower carbon emissions, we have seen renewable energy become more important, alongside better ventilation and removing gas from buildings.

Classically designed buildings emit “600kg to 1000kg of CO₂ per square meter over a 60 year life span, this is a lot of carbon when the global push is to achieve lower carbon emissions. Every week we are seeing more and more buildings, schools and even an airport being built with mass timber. With authorities across the globe passing stronger and



Mass timber buildings naturally improve carbon neutrality

stronger rules around carbon emissions when building, timber it is quickly becoming an even more in demand product due to the carbon hoarding it does whilst growing.

Michael Bleby writes “the council’s own figures – for

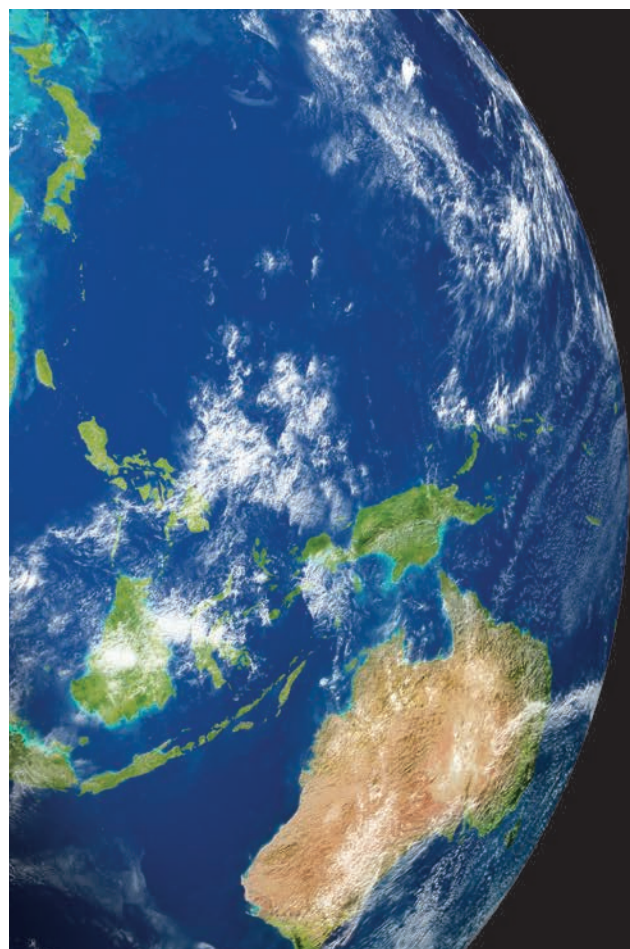
timber buildings registered for Green Star status tell part of that story. Between 2011 and 2018 just five timber buildings were registered under the scheme. That doubled, with six more in 2019 and 2020, and doubled again with 16 more in 2021, 2022, and 2023.”

Bleby explains that even with the rise in building materials that we saw last year did not place timber out of the running. Many builders are keen to use it.

Brett Mason, CEO of Built stated that “We’re looking at a lot of projects incorporating timber as part of the structural solution [along with] green steel or green concrete.”

Whilst timber alone won’t solve all the carbon challenges it is a beautiful material and carries fantastic benefits. Hybrid buildings don’t have quite as good decarbonisation as pure timber only buildings, however, timber only buildings cannot go as high into the sky.

As we move towards 2024 we hope to see the prices of timber lower as the availability of supply is increasing.



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Sawdust to success

Timken delivers timber mill triumph.

TIMKEN, a renowned worldwide supplier of industrial belts and related components, has introduced a specialised V-belt that has been sawing through competition in the building material manufacturing industry. This belt, known as the Timken Double Angled V-Belt, has proven indispensable at a large multi-site timber mill in Australia, specifically in trim saw applications. The belt also has some unique modifications, as highlighted by Rob Michelson, Motion's National Product Manager for Belts, which are leaving competitors in the saw dust.

"In timber mills, power transmission is crucial for driving various machinery and equipment involved in the timber processing and sawing operations, which is where these belts really stand out," says Rob. As a result, this is where the belt's unique modifications shine.

"One key modification is the replacement of standard polyester cords with Aramid cords," says Rob. Aramid, known for its exceptional strength and resistance to stretching, ensures enhanced performance and longevity, even in high-load scenarios. "This modification empowers the Double Angled V-Belt to transmit power efficiently and evenly from both sides, making it a perfect fit for serpentine drives," highlights Rob.

Sawdust is abundant in timber mills, and the risk of



Timken's specialised V-belt has been designed to address challenges specific to timber and saw environments. Image: Shutterstock

belt damage due to splinters is a constant concern. Rob states, "The Double Angled V-Belt features a red jacket, a distinctive characteristic designed to address the challenges specific to timber and saw environments. By incorporating a red colour throughout the belt, Timken has enabled easy identification of any broken belts amidst the raw materials, minimising the risk of contamination."

The other benefit for mills in this case is they can re-purpose these materials for alternative uses, such as utilising the sawdust for other purposes within the mill. This not only reduces waste but also maximises the utilisation of resources, aligning with sustainable practices within the industry.

"In timber mills, a belt failure can bring the entire plant to a standstill, making reliability a crucial factor," discusses Rob.

Timken has addressed this concern by engineering the Double Angled V-Belt to excel in terms of dependability and durability. By utilising advanced materials, strategically positioned cords, and a special synthetic rubber compound, Timken has created a belt with an extended lifespan and impressive horsepower capacity. These features enable timber mills to maintain uninterrupted operations, minimising costly disruptions.

Timken's unwavering commitment to research and development is evident in their pursuit of excellence in belt manufacturing. "With over a century of experience, the company has continuously improved its expertise to

“BELT FAILURE CAN BRING ENTIRE SAWMILL TO A STANDSTILL”

produce belts that outperform and outlast competitors," highlights Rob.

Timken's state-of-the-art manufacturing techniques, complemented by their dedicated technical centre in Springfield, Missouri, ensure that their belts provide outstanding performance even in the most demanding

applications.

According to Rob, "Timken's partnership with Motion plays a vital role in delivering the best quality support to customers, especially when it comes to the Timken Double Angled V-Belts."

Through this collaboration, customers have access to knowledgeable experts who provide personalised assistance and guidance. Particularly for timber mill clients utilising the Timken Double Angled V-Belt, this partnership allows for customisation according to their distinct requirements.

Rob ensures that Timken and Motion closely collaborate with these clients to gain a comprehensive understanding of their specific needs and challenges. As a result, utmost customer satisfaction is achieved.

Source: Mi Motion



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World-first waste recycling facility to open in Brisbane

BRISBANE is leading a recycling revolution with a \$95 million mega, high-tech facility to open in Pinkenba – the first of its kind in the world. Rino Recycling’s fully automated recycling plant turns construction and demolition waste into recycled material for new infrastructure projects.

Rino Recycling General Manager, Dan Blaser, said the site can process up to 475 tonnes an hour, the equivalent of 68 truckloads, and minimises the need for landfill. “This plant has scale, capacity and efficiency – it can recycle more than 1.5 million tonnes of waste with 97% recovery annually whilst producing high quality products such as aggregates, sand, and road bases to the equivalent standard of quarried material but with significant environmental benefits,” Mr Blaser said. “In under 20 minutes, a truck can go from offloading construction waste and leave with a new load of high-quality, recycled products ready for the job site. It is a green, circular economy in action.”

He said ahead of the infrastructure and construction boom driven by the Brisbane 2032 Olympics, the SEQ City Deal and the significant infrastructure pipeline in Brisbane, it is critical to have this new



1/ Rino Recycling facility, a fully automated recycling plant turning construction and demolition waste into recycled material for new infrastructure projects.

2/ L to R: Director Ed Bull, CFO Richard Jacobitz, general manager Daniel Baser, and Director Todd Pepper.

facility (the largest by volume in the world under one roof) to cater for new projects and lead the circular economy charge. “This puts in place the infrastructure for developers and all levels of government to adopt a ‘recycled first’ policy when it comes to construction and waste management.”

Based on an independent report, it’s estimated the new recycling facility will help

reduce carbon emissions by 55,000 tonnes per year – the equivalent of 909,000 trees planted or removing 12,000 cars from the road annually. Rino Recycling’s Director, Todd Pepper, said

“SITE CAN PROCESS UP TO 475 TONNES AN HOUR”

it could help Queensland lift its recycling rate from 68 per cent to 75 per cent, by recovering 97% of the material fed into the plant.

“We are helping decarbonise through recycling waste and cutting greenhouse gas emissions by reducing the number of truck movements on the road,” Mr Pepper said. “The new facility is 13 kilometres from the CBD, so trucks have less distance to travel, and we are replacing the need to have to go to landfill sites west of the city, like Swanbank in Ipswich.”

The plant has an acre of rooftop solar panels for energy efficiency and recycles 35 thousand litres of water every hour, making it “water neutral”. The Rino Recycling plant is Green Star Certified which provides for all levels of Government and the broader business community to meet their environmental, social, and corporate governance (ESG) objectives, especially commitments for the 2032 Olympics.

The facility has an expected opening date of late November 2023. Rino Recycling was established by Queensland Recycling Technologies in 2021. It is a joint venture between Alceon QLD and Real Estate and private equity investor DCP. The project was designed, built, and installed by Turmec and CDE Group.



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Sunshine Coast hinterland hideaway home design

DAYNE Lawrie Constructions was a finalist in the 2023 HIA Australian Outdoor Project award. The firm has also won the Custom Built Home and Home of the Year award in the 2022 HIA Sunshine Coast/Wide Bay Housing and Kitchen & Bathroom Awards.

Dayne, managing director of Dayne Lawrie Constructions is a HIA GreenSmart Professional, and this aligns perfectly with his value for sustainable outcomes in all his projects. This hinterland hideaway barn is a great example of Dayne's commitment to sustainability. The new home is fully self-sufficient and Dayne was able to build it with a significantly reduced carbon footprint. Not only does this show Dayne's value but also respects the magnificent location the home is built in. The hinterland hideaway barn features solar panels, rainwater tanks, an onsite sewage treatment system and an 18kW photovoltaic array combined with battery storage.

When sharing about the hinterland hideaway barn Dayne said, 'The project presented endless challenges and hurdles which tested everyone's skill and problem-solving abilities.' Dayne continued saying that it took 'months of planning and obsessing over every joinery detail in my mind came to fruition. It was a humbling experience to stand back and take it in when finished.'

The hinterland hideaway combines two very different styles, the rural location and traditional South Pacific architectural forms. The creation of the home was complex, and the roof was one



1/ A modern take on the traditional barn-style home.

2/ One of the most striking aspects of the design is the home's angular roofline. Photos: Christopher Frederick Jones

of the key challenges in the build. Dayne shared, 'I would create drawings of the rafters at home each night, running through the process to figure out how I was going to do it. It's fair to say I lost some sleep,' he recalls. 'The roof beams were expensive, so we couldn't afford to make any mistakes.'

The home was built closely with Sparks Architects and the finished product is a modern take on the traditional barn-style home. The key feature is the powerful roofline which appears to float above the two solid stone walls. The home also features an oversized wet-edge pool. It is marvellous and command view from every angle.

The home was built in a non-traditional order, 'The steel

structure, which is not visible in the project, was constructed first,' Dayne says. 'Next, the roof frame was built, followed by the stone walls underneath. Then we poured the concrete slab floors, while the roofline was finally added at the end.'

The home includes recycled spotted gum and ironbark frames that sit around the sliding doors and were beautifully crafted. The entry way has two massive pivot doors, they were so large they were built onsite and offer a dramatic entry to the living room that feels ginormous with its pitched timber roof beams. This home truly is a marvel and a testament to people's creative power.

To explore more about this hinterland hideaway, click here.



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