

GA



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President's Update

Greg Hunt – President

Welcome to the April edition of GA Magazine.

AGGA/AWA Merger

I am pleased to be able to convey to our members that both the AGGA and AWA have held their respective Board Meetings, and that both Boards gave their support for a full merger between both Associations. Over the next few weeks, the working group consisting of Will Walker, Tracey Gramlick, Nigel Chalk, Alan Simmons and myself will be working towards having a Project Plan and a Financial Budget made available that underpins the merger. While there are many details to resolve which will require the involvement of several staff and members of both Associations, the goal is to have the merged Association operating by 1 January 2019.

A special thanks to all our AGGA team members who have been bombarded with tasks that are required to put together the framework for the merger.

GA18 Conference – Sanctuary Cove

The conference is not far away, and I would like to take this opportunity to thank all our sponsors for their generous support of the event.



CEO Update

Will Walker – CEO

Since the last issue, much has happened with AGGA that could have significant ramifications regarding how our industry progresses into the future.

The Boards of both AGGA and AWA have supported a full merger between AGGA and AWA, with a target date of 1 January 2019. For this to be achieved there are still many details to be sorted through, and members will be informed at every step along the way.

Central to all the discussions held is that this initiative is about increasing benefits to members – greater power in advocacy; more services to members; raising the profile of the industry and associated trades; more opportunity for members to benefit from best-practice systems; and a professional support network provided by their Association.

Of course, that's not all the AGGA office has been involved in. More and more members are completing Accredited Company pillars, and the

Early bird registrations are now open, so please take advantage of the discounted rates on offer. We have some fabulous local and overseas speakers lined up, including Shane Webcke, the former Brisbane Bronco, Queensland and Australian Rugby League front-rower who will talk of his very personal experiences with WH&S. Also, Peter Moeller will provide us with Viridian's view of the current and future position of the Australian glass market plus many others.

Accredited Company Program

David Robertson has been doing the rounds of the country promoting our ACP, and I encourage all members to consider the benefits of this program and become part of it. Our end goal is to have glazing recognised as a licenced trade. Previous contact with governments regarding licencing has resulted in a consistent message – if our industry has a program in place that recognises companies that comply with the four pillars of our program – Technical – Skills – Safety – Compliance – this would certainly be an advantage.

Accredited Company Program will continue to develop as a quality mark and provide a business advantage to members of this and any future industry association.

Tasmania have already had their annual conference, and the national conference is looming. Our conferences are part of what make AGGA special, and with potential changes in mind it's more important than ever that you attend your conferences to take advantage of the opportunities they present to gain knowledge, network, revisit old friendships and develop new ones.

As always, the AGGA office is there for members. Any time you need support or information, we'll welcome your call.

Glass & Glazing

Industry Events Calendar 2018

MAY 2018

28-31 MIR STEKLA
Moscow Russia

AUGUST 2018

29-31 GA18
Gold Coast Australia

SEPTEMBER 2018

19-21 FENESTRATION
AUSTRALIA 2018
Port Douglas Australia

OCTOBER 2018

23-26 GLASSTEC
Düsseldorf Germany

NOVEMBER 2018

14-16 GLASSTEC ASIA
Kuala Lumpur Malaysia

Contributors

Michael Birt, Hannah Blackie, Brian Bolton, Joe Finn, Patrick Gavaghan, Greg Hunt, Liz Jarvis, Jill Johnson, Tim Roberts, Will Walker.

Photography: Fotogroup,
Iain Gillespie.

This month's cover

Our cover features the grounds of the luxurious Intercontinental hotel at Sanctuary Cove Queensland - our destination for GA18, 29 - 31 August 2018.

Early Bird rates are still available, so register early and save.

More details on page 19.

AGGA National Office

105 Gardenvale Road
Gardenvale VIC 3185

www.agga.org.au

Email: agga@agga.asn.au

Tel: 03 8669 0170

Fax: 03 9596 8079

For all advertising

enquiries contact: Jill Johnson

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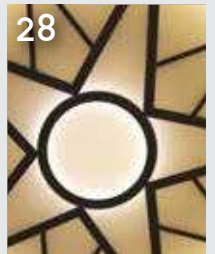
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AGGA EXECUTIVE BOARD MEMBERS

Elected Board Members

Mr Gerard McCluskey, Landson Glass
Mr Joe Finn, Bent & Curved Glass
Mr Sandro Ianni, LISEC
Mr Philip Mauviel, Jim's Glass (Australia)

Local Glass Manufacturer

Mr Peter Moeller, Viridian

State Association Representatives

Mr Peter den Boer, GWAWA
Mr Michael Kruger, AGGA Victoria

Multi-State Glass Processors

Mr Greg Hunt, G.James Glass & Aluminium (President)
Mr Adrian Grocott, Express Glass

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Bent & Curved Glass	02 9773 1022	Sydney Glass	02 9790 2830
Bremner Glass Equipment	03 9706 4432	Tremco	02 9638 2755
C R Laurence	02 9774 5077	Viridian	1800 810 403
Chevron Glass Pty Ltd	08 8277 7188	Gimbal Training	1300 446 225
Cooling Bros Glass Co.	08 6104 1777	Progressive Training	08 9964 9497
Dreamhaven Glass & Aluminium	03 9408 3466	TAFE Queensland Skills Tech	1800 654 447
Eastman Chemicals Australia	03 9249 9520	TAFESA	08 8207 4940
Express Glass	1300 666 234	Upskilled	1300 009 924
G.James Glass & Aluminium	07 3877 2333	Holmesglen Institute of TAFE	1300 639 888
George Fethers & Co.	03 9646 5266	TAFE NSW	13 7974
Guardian	03 8774 0131	GOTAFE	1300 468 233
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Lincoln Sentry Group	1300 551 919	AGGA Tasmania	03 8669 0177
Melbourne Safety Glass	03 9579 3844	Glass & Window Assoc'n WA	admin@gwawa.org.au

AGGA National Office are now able to respond to any member queries. Please call 03 8669 0170.

Editor's Notes

Welcome to our April edition of GA. Once again we publish an industry profile, featuring third-generation glass company Mandurah Glass from Western Australia.

Queensland appears to be taking the industry lead on our widespread issue of non-compliance. In recent months, the Queensland Building and Construction Commission has introduced regulations deeming a project non-compliant if A-grade Safety Glass is not labelled. Read more on page 12.

AGGA's new Member Services Officer, David Robertson, has now visited every state, offering assistance to members in achieving Accredited Company status. We urge you to hurry in registering your interest and processing your ACP applications. David is there to support and guide you with every step. Read more on page 34.

Once again we feature two award-winning projects – SA's Federation Glass Beechwood display home and GP Glass's challenging fit-out of the Spirit of Tasmania.

And finally, register now for GA 18 and save with early bird rates – the program is shaping up to be the best ever, and what could beat a luxurious Queensland resort destination?

Enjoy the read!

Jill

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A man with dark, wavy hair and a friendly smile stands outdoors with his arms crossed. He is wearing a dark navy blue polo shirt. On the left chest of the shirt is a circular logo with a crest and the text "mandurah glass 40 years". On the right sleeve, there is a vertical logo that reads "ELITE" at the top, followed by "GLASS" in green, "TECH" in green, and "WORLDWIDE" in white. The background is a blurred outdoor setting with a chain-link fence in the foreground and buildings in the distance.

“ My whole youth was essentially spent around the business, including helping with 24-hour callout work ”

An Agent of Change – Mandurah Glass

> Text by Tim Roberts, Photography by Iain Gillespie

For over 40 years, Mandurah Glass has been forging durable links with its customers while building an unsurpassed reputation for quality. Managing Director Brad Deere, who has been with the business for the bulk of his working life, looks back on four decades of building a trusted brand.

'It all started in October 1977, when my father Eric, my mother Lorraine, and my grandparents Robert (Bob) and Fay Barns decided to start their own glazing company,' Brad recalls. 'Things were very different in Mandurah in those days – with fewer than 5000 people, the place was essentially a small town in comparison to the major city of over 80,000 it has become today.'

During those crucial foundation years, Brad's father put the company on people's radar by doing quality work on eclectic jobs. 'Dad was a glazier by trade, and did everything he could – including windscreens, general repair work, and basic glass products,' Brad remembers. 'People really appreciated his willingness to take on anything. Mum was as passionate and multi-skilled as Dad, responsible for all administration, including accounts, HR and sales.'

With Eric and Lorraine continuing to bolster the company's reputation for reliability and versatility, the business progressed rapidly. 'As the business grew, the company expanded into new premises in 1981,' explains Brad. 'This was a significant step for Mandurah Glass, as the new factory was purpose-built.'

Eric and Lorraine took on more staff over the years, peaking at around eight employees

under their stewardship. 'My grandparents left the company around the mid-1980s, and it was Mum and Dad running the show from then on,' Brad says.

Brad's own long journey with the company began when he and his brother Royce were still in high school. 'Royce and I used to work for Mum and Dad during our school holidays,' Brad remembers. 'We spent most of our youth helping Dad out with various aspects of glazing. My whole youth was essentially spent around the business, including helping with 24-hour callout work.'

After leaving school in 1992, Brad spent a period 'pottering around Perth,' as he affectionately calls it. 'I did a fair bit of construction and related work back then, but was not yet in the glazing trade,' he recalls. 'I then re-entered the industry by working for Walsh's Glass, one of Perth's largest wholesalers, in their factory between 1994 and 1997.'

In 1997, Brad joined the family business full-time. 'During that period at Mandurah Glass, there was Mum, Dad, three glaziers and one guy working on the factory floor,' he says. 'We were mainly doing reglazing and shower screen replacements, including callouts and some insurance work. Everybody needed to be multi-skilled due to the diversity of the work we were doing.'

Mandurah Glass subsequently expanded into residential and commercial windows, moving into manufacture rather than repair – a trajectory of innovation that has continued to the present day. 'We began making all

our window suites onsite in 2001, and kept renting more factories adjacent to the main complex. At one stage, we had six separate units doing distinct parts of the operation.'

Over a decade ago, Mandurah Glass made the move to their current location. 'We built the factory we're in now in 2005, providing us with larger premises of around 1800m²,' Brad says. 'We began buying glass in bulk once we had secured that space; from then on, we did far more in-house processing and cutting, and steadily increased our automation with glass and fabrication machinery.'

Around that period, there was a changing of the guard. 'Dad formally retired in 2003, but continued to do deliveries for a few years afterwards; Mum fully retired at the end of 2006,' Brad remembers.

Expansion has continued apace. 'We've now got two other factories, with total floor space of around 2300m²,' Brad explains. 'After my brother joined the business in 2003, we began distributing shower screens with Pivottech, now a company located in separate premises and run by Royce as its own entity.'

The main arm of Mandurah Glass is increasingly focused on fabrication. 'We produce and control as much in-house as we can,' Brad says. 'We have laminating and float glass machinery; polishing, bevelling and water jet technology; and automated CNC machinery in aluminium fabrication.'

When asked about his business philosophy, Brad emphasises the importance of customer service. 'We far prefer maintaining existing clients than trying to find new ones,' he

→



> L-R Royce Deere (L), Eric Deere (Back), Lorraine Deere, Brad Deere (R)

(Mandurah Glass – continued)

confirms. 'For example, we're still doing jobs for a group of builders that we began working with back in 2001.'

Just as vital as looking after the customer is a strong focus on innovation. 'We're now predominately a niche middle- to upper-market residential home supplier, favouring products that are stronger and more efficient than the competition,' Brad states. 'Our clientele has thorough industry knowledge, so we have to stay at the forefront of the market.'

Rapid industry changes have driven innovation in Mandurah Glass's core business. 'Meeting current efficiency regulations requires our clients to be more aware of what is required,' says Brad. 'There is now more information available for them to ask questions and be definitive about what they want. Our job is to accurately demonstrate the available options in layman's terms.'

While the company is optimised for the current premises, they are always seeking avenues to extend their reach. 'Opportunities are always coming about – the future for us is in expanding further, rather than in

consolidation or retraction from our current position,' Brad asserts.

Brad thrives on the job's considerable pressures. 'I work extensively in the business, and greatly enjoy the team environment,' he says. 'We're now nudging 40 staff; an indicator of our workplace's popularity is that we have many staff members now eligible for long service leave. We're fortunate to have maintained a loyal team for so long, reflecting our emphasis on continuity.'

A self-proclaimed optimist, Brad is confident that Mandurah Glass can meet future technological challenges. 'I am a glass-half-full guy regarding our industry's future,' he says. 'There are still many antiquated systems out there – but the industry as a whole is highly innovative and proactive, both in terms of glazing and framing selection. Based on my experience, I see that continuing to improve in the future.'

Outside of work, Brad maintains a busy family life. 'My wife Rebecca and I married in 2001, having been together since our teens,' he says. 'We have two boys, Lachlan

and Nicholas, in their middle teen years, now moving into upper high school.'

A keen sportsman, Brad appreciates the chance to play a sport whenever it's on offer. 'I like AFL footy, and still like to play occasionally,' he says. 'I also play indoor cricket, and virtually any team sport I come across – if half a dozen of my mates want a hit of cricket or footy, I'm there in a flash! My youngest son also plays footy, so I'm usually the runner on Saturday mornings.'

When back at work, the technical side of the business remains a deep source of interest for Brad. 'I do love my gadgets and machines,' he confides. 'I place foremost importance on securing capital investment to expand, as technology and machinery drive improvements in efficiency and accuracy. We need to harness these forces in the current market – not only to sustain ourselves, but also to grow.'

With such refreshing openness to change, Mandurah Glass will continue to set the standard. **GA**

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Compliance with Glass Standards more important than ever

Concerns about industry compliance with Safety Glass labelling has seen the Australian Glass and Glazing Association approach Queensland's building regulator for information about new laws relating to non-conforming building products.

On 1 November 2017, the Building and Construction Legislation (Non-Conforming Building Products – Chain of Responsibility and Other Matters) Amendment Act 2017 (NCBP Act) became law in Queensland.

The Act gives the Queensland Building and Construction Commission (QBCC) wide-ranging investigative powers, including the ability to enter places to gather evidence of non-conforming building products (NCBPs).

One of the reasons for the creation of the Act was the 2014 fire at Melbourne Lacrosse Tower apartment building. Aluminium composite cladding caught fire and spread up the building, causing significant damage with no loss of life. The NCBP Act addresses the use of non-conforming building products within the building product supply chain.

About two weeks after the NCBP Act was introduced into the Queensland Parliament,

the Grenfell Tower fire in West London claimed approximately 79 lives. This brought into focus the use of non-conforming building products and combustible cladding within the building and construction industry.

The Act also established a chain of responsibility for participants at all stages in the building product supply chain to ensure that building products used in Queensland are safe and fit for purpose.

A person falls within the chain of responsibility, and therefore has duties under the legislation, if they design, manufacture, import or supply a building product. A person also falls within the chain of responsibility if they install a building product.

Each person in the chain of responsibility for a building product must, so far as reasonably practicable, ensure that the product is not a non-conforming building product for an intended use.

With regards to meeting standards, Queensland (like all state and territory administrations) has adopted the National Construction Code (NCC) as the nationally consistent, minimum necessary standards of

safety, health, amenity and sustainability for building work.

Fundamental to the NCC are the various referenced documents that provide specific technical requirements for the use of a material or method of construction.

One referenced document relied upon to ensure that materials are appropriate for the intended use in buildings is Australian Standard 1288-2006 Glass in Buildings – Selection and Installation. The development and ongoing reviews of AS 1288-2006 have echoed international practices by adopting selected criteria from other standards from around the world.

It is important for building practitioners to observe the requirements of AS 1288-2006, particularly in relation to the use of Safety Glass.

Safety Glass is generally used in circumstances where there is a danger of a person falling through or impacting installations, including glass. An important aspect of Safety Glass is the labelling or marking of it in accordance with AS1288-2006.





The purpose of labelling or marking Safety Glass includes making it easily identifiable from the point of manufacture to ensure it is selected and used in appropriate locations in buildings.

AS 1288-2006 sets out clear labelling requirements that include cases where Safety Glass that has been labelled at the time of manufacture is cut to size for a specific application in a building. Any panel of Safety Glass that has been cut is required to be relabelled to ensure it is properly identifiable and can be relied upon by all in the supply and construction chain.

Labelling or marking requirements set out in AS 1288-2006 also provide a sound method of identification for members of the public when purchasing or specifying the use of Safety Glass.

If you are designing, manufacturing, importing or supplying a building product for use in Queensland, including Safety Glass, you are subject to the new chain of responsibility requirements.

The QBCC can now deal with non-conforming building products with directions for remedial action, disciplinary action and prosecution.

Additionally, the Queensland Minister for Housing and Public Works can issue a warning statement or a recall notice. The QBCC and the QBC Product Committee provide advice to the Minister on building products that come to their attention.

To support compliance, a Non-Conforming Building Products Code of Practice has been developed and is available on the Queensland Department of Housing and Public Works website.

The Building Products Innovation Council, the national body representing Australia's building product associations, has also developed a range of guides to assist building product manufacturers, suppliers and installers. The guides are available on the Building Products Innovation Council website.

If you have any concerns about the potential non-compliant use of a building material, or about the presence of non-conforming building products, you should contact the QBCC at ncbp@qbcc.qld.gov.au



Protecting a Valuable Asset

Use of gloves when handling glass continues to be a topic that some workplaces continue to struggle with.

Guidance/the regulators

Regulators throughout the states have had a greater focus on the glass industry over the past few years, and SafeWork NSW have developed a poster for Personal Protective Equipment (PPE) for handling glass. It requires cut and slip-resistant gloves, and gauntlets or forearm protectors, both of which must have Level 5 cut protection – THIS IS A MINIMUM REQUIREMENT.

A business has the legal obligation to train workers in the use of PPE, and to ensure that it is used as required. If employees do not comply, they must be taken through the disciplinary process in order to fulfil the business's legal obligations.

As a first step, policy is required – that gloves must be worn. Then, there must be appropriate training and supervision to ensure that everything practicable is being done to ensure that is happening.

If workers putting down their gloves and forgetting them is an issue, very low-cost glove clips can be supplied, to be worn from the belt. When gloves aren't in use, they are clipped on securely. Members have reported significant reductions in glove purchases when these clips are provided for staff.

Injuries

The types of injuries that people often associate with glass are slash-type injuries, and though they're certainly common, even small cuts and splinters can cause enormous problems when the part of the body affected is the hand. Our hands are how we interact

most with our environment, and hand injury can enormously disrupt how you live and work.

It's not just the immediate effect of the injury – even a small cut or splinter can lead to infection which isn't easily detectable, and can lead to septicaemia or even amputation if not treated properly.

Good and timely first aid is important in treating injuries, but if you experience discomfort for more than a couple of days after a cut to the hand, make sure you see a doctor.





A business has the legal obligation to train workers in the use of PPE, and to ensure that it is used as required.

Types of gloves

Many types of glove exist in the marketplace, and employers have to deal with the issue of how to choose the right glove(s). Starting from the point that Level 5 cut protection is the minimum, the recommended path is to obtain a selection of gloves and have your workforce try them out. It might be that more than one type of glove suits your requirements; if so, allowing the workers the choice of which type to use is good practice.

There are gloves available that improve grip on wet glass. Force360, Tornado and Superior are manufacturers who have been recommended by members, but talk to your supplier and see what they can recommend.

Fingerless gloves are not recommended, and modifying gloves should be prohibited.

Main points

Policy – You must have a policy that workers wear gloves and forearm protection when working with glass.

Glove types – Must be Cut 5 protection rating.

Education and supervision – Ensure workers know they must wear gloves, and that this is monitored and enforced by supervisors.

Any variation on the policy that gloves must be worn must be based on a thorough and specific risk assessment of the activity involved in your workplace.



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AS 1288 Accredited – The Success Continues



In September 2017, AGGA standardised the AS 1288 training delivery across Australia with the introduction of the AS 1288 Accredited program. This ensures that all students will now receive clear and standard information for the implementation of AS 1288 requirements.

Building on the successful existing AGGA Intermediate AS 1288 program, the main objective was to have a clear and consistent training program that meets the requirement of the AGGA Accredited Company Program (ACP) Technical pillar compliance.

In October 2018, four pilot programs were conducted in regional and metro areas to assess the new program. Delivered by AGGA-endorsed AS 1288 trainers, the program was well-received and met all expected outcomes.

AGGA has now conducted over 11 programs across all states in Australia, with 130 participants attending and 75 member companies now meeting the AGGA ACP Technical pillar.

There are further additional programs scheduled across Australia to help members achieve the Technical pillar before June 2018. They are as follows:

VICTORIA

Tuesday 10 April 2018 – Bendigo

NEW SOUTH WALES

Thursday 19 April 2018 – Coffs Harbour

WESTERN AUSTRALIA

Thursday 3 May 2018 – Burswood

Thursday 14 June 2018 – Burswood

SOUTH AUSTRALIA

Friday 27 April 2018 – Hindmarsh

QUEENSLAND AND TASMANIA

Dates to be confirmed

Further information

AGGA will be scheduling additional programs. For updates on all scheduled programs go to: <http://www.agga.org.au/training/training-events>

For those who are time poor or struggle to attend workshops, the AGGA online version of the AS 1288 Accredited Program will be launched in April 2018.

For more information go to the AGGA website or contact Patrick on 0401 555 656 or email patrick@agga.asn.au

Congratulations to our members below achieving Accredited Company Status

WA

WA Custom Glass
Jims Glass (WA)

TAS

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Kingborough Glazing
Clearview Aluminium Windows and Doors

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The Future of Glass is Clear

> Michael Birt, Sustainability Victoria Photo: Courtesy of Sustainability Victoria

RMIT University's recent announcement of a new form of 'smart glass' that lets in less UV radiation when it's hot and more when it's cold was a major breakthrough which will help build more energy-efficient buildings in the future.

Using vanadium dioxide to place a nano-thin film on the glass – even if it's already in place – creates opportunities for existing buildings and manufacturers of new glass products.

The research, published in Scientific Reports – Nature, in February, is an exciting development for the glass industry, but at the other end of the industry's development spectrum is a pressing need to recycle more and send less waste to landfill.

Waste disposal is not only a big business cost, it's one for the community. While collecting bottles to claim the deposit at the local milk bar was once a rite of passage for kids, those days are long gone.

The growth of plastic as a preferred packaging material pushed many glass products into our collective memory – and while household and industry recycling programs have recast the glass industry, there's a big disposal problem for what can't be quickly reused.

Development of a circular economy, one which involves the production of goods, collection, separation and recovery of waste materials and using them again, is central to a sustainable future and reducing the cost of running businesses.

Whether it's part of a push to meet requirements of triple bottom line reporting requirements, being a good corporate citizen or cutting costs, more and more small and large companies are making sustainability a significant part of their operations.

Reducing waste at the point of production and recycling is a good business investment, and government agencies around the country run programs to help businesses transition to a more sustainable operation.

Among them is Sustainability Victoria, whose CEO Stan Krpan, says not having glass in landfills supported social and environmental benefits.

'Australia has a well-established recycling and manufacturing sector, but we need to increase its breadth and resilience to reduce the impact of market volatility.

In Victoria alone, more than 83,000 tonnes of glass went to landfill in 2015/16.



> Stan Krpan – CEO Sustainability Victoria

'It's less than two per cent of the total waste produced,' Mr Krpan says, 'But it illustrates the scope of the resource and how adding value to it will improve recovery rates and put us on a more consistently upward trajectory.'

'This isn't just something for government and its agencies, but industries and businesses taking on opportunities knowing they have broad community backing.

Challenges and opportunities

At the start of 2018 China closed the door to unsorted paper and plastic, a reminder that the value of recycled goods need to be maintained by delivering the best quality raw material to end-users.

'Fortunately,' says Mr Krpan, 'We're at a point where big investment is flowing from superannuation funds and corporations,

philanthropy and individuals who support sustainability projects.

'We have a growing population and need to increase the amount we recycle in all commodity groups by more than 4,500 tonnes a year just to retain our current recycling rate of 69 per cent and ensure landfills remain a destination of last resort for our waste.'

'To match the 80 per cent level of many European countries, we need to really take this challenge on. We can do it because we're in the middle of a corporate and community-wide movement to take already-entrenched recycling practices to the next level.'

New products, new markets, new opportunities

Glass can play an important part in the circular economy by being used in many other products, adding to its value as a commodity. Research funded by Sustainability Victoria is already keeping glass, plastic and rubber from used tyres out of landfills or long-term stockpiles.

It's demonstrating how market innovation can be achieved by using glass recovered material considered up to now as largely unsuitable for manufacturing.

Founding Director and Board Chair of PrefabAus, Australia's peak body for the off-site construction industry, Damien Crough, supports the research program.

'This is where the real opportunities lie. Existing concrete supplementary materials like fly ash and slag from blast furnaces is becoming harder to get, and more expensive.'

'The cost of glass will be an attractive factor for industry. It is readily available and inexpensive, being about a third of the cost of fine sand, or less.'

Buildings of tomorrow

Project Manager for the University of Melbourne's recycled glass R&D project, Associate Professor Tuan Ngo, says the next generation of prefabricated glass-containing structures could benefit from this eco-friendly, prefabricated housing research.

Replacing sand and aggregate with glass fines in pre-fabricated concrete structures is creating lighter and cheaper products, and according to Researcher Dr Ali Kashani, the smallest glass particles deliver greater strength and durability.

'In the short term, we are confident that adding glass to concrete will allow us to build strong, light and durable non-load bearing walls with excellent sound, thermal insulation and fire-resistant characteristics.'

A path to the future

Swinburne University research co-funded by Sustainability Victoria and the Australian

Packaging Covenant has confirmed the potential for glass and flexible plastic to be used in footpath construction.

Dr Yat Wong from Swinburne's Department of Mechanical and Product Design Engineering is looking to reduce the amount of non-renewable sand and Portland cement in concrete paths.

With housing estates springing up on the fringes of cities and larger regional centres across the country, the opportunity for this approach is enormous.

'Our research looked at how plastics and un-recyclable glass could take these materials from landfill or reduce stockpiling,' Dr Wong says.

'Our test results showed that up to 10 to 25 per cent of a footpath and driveway in a housing estate could be made from recycled glass without compromising its strength, while plastic can be added to reduce weight.'

The next step is for a field trial to monitor the compressive strength and durability of a composite concrete, glass and plastic footpath.

Applications in major roads projects

Another Swinburne team has been working with the Alex Fraser Group and VicRoads to investigate how major projects can use tens of thousands of tonnes of glass to replace crushed rock in road pavement sub-base materials.

'We found that up to 15 per cent of glass fines could be used in a roadbase, replacing crushed rock and crushed cement,' Dr Arul Arulrajah says.

'Traditional pavement base and sub-base materials are becoming scarce in some Victorian regions, adding to road-building costs. The glass also adds greater flexibility to the road than recycled concrete which is often used.'

Glass is now being added to the Tullamarine Freeway widening project.

Mixing plastic and glass

New hybrid products combining glass and waste plastic are also being developed in conjunction with Ballarat company Regina Glass and manufacturer Replas, which is creating plastic beams suitable for some construction purposes.

Apart from using plentiful recyclable materials, Victoria University's Professor Stephen Gray says the plastic/glass mix created a strong, long-lasting product that reduced the need for forest or plantation timber and the use of chemicals to treat it.

'Glass fibre reinforcement improves its strength and allows for wider spans combined into structural beams and decking materials. We expect up to 30 per cent of these products could be glass without compromising construction and engineering standards.'

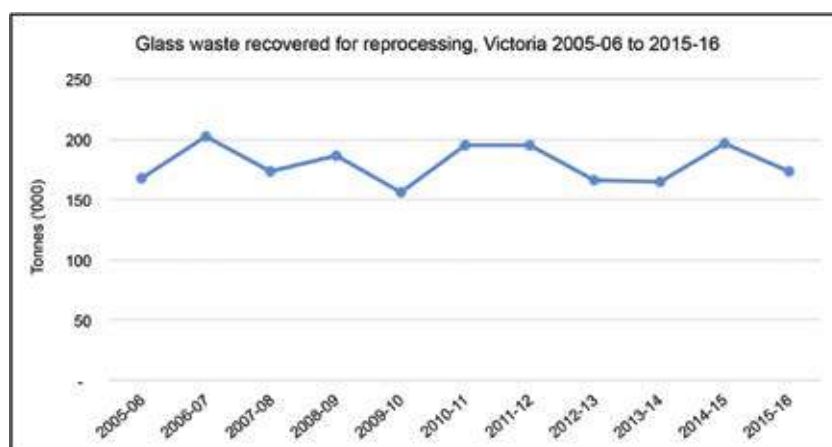
A sparkle in the future

As part of humans' lives for 6000 years, glass has come a long way since it was used as a glaze on beads and small trinkets.

Used for containers and decorative items, then as windows of a practical, artistic or technological function and a million other uses, glass has come a long way.

With research in a clever country and a need to find new and better ways to use glass, Sustainability Victoria CEO Stan Krpan, says its unparalleled versatility give it a bright future.

'What once was impossible, is now possible, and that cycle will never end.'



Glass recycling rates in Victoria have plateaued over the past decade. Research is finding new ways to re-establish a more consistently upward trajectory.

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Peter den Boer, Head of Glass & Technical - Jason Windows

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Philip Norman, CEO Glass 360 and InGlass



The new laminating line can be tailored to meet the needs of each individual client's manufacturing plant, and technological development can be adapted to each customers' requirements including their existing or future plans for automation.

LiSEC

Where the Heart is – Beechwood Homes

> Text by Tim Roberts, Photography courtesy of Beechwood Homes



2017 Winner
AGGA South Australia –
Residential Under \$20K

Federation Glass has received significant acclaim for their pivotal role on a new residential project, with South Australian luxury home builder and designer Beechwood Homes. With a rich, sophisticated finish, it takes the contemporary display home concept in compelling directions.

Top-end glazing systems were specified throughout this HIA award-winning Beechwood Display Home. The project was the 2017 HIA winner for the Best Bathroom & Best Kitchen in a Display Home and Best Display Home categories. Noteworthy features undertaken by the Federation Glass group include the glazed external mitred corners, pool fencing, oversized sliding doors, decorative glass splashbacks, internal custom-made handrail, external glass balustrades and sliding soft-close shower screens.

Shane Sweet, CEO of Federation Glass, explains what makes the components of Beechwood Homes work so beautifully in concert. 'We worked very closely with one of Beechwood Home's owners, Nathan Bennett, throughout the job, which made it a dream project, especially being given plenty of input and time for adjustments.'

How much time, exactly? 'From design to construction, the entire process took 18 months.'

This was a lengthy time for a display home build – but it certainly paid off, giving us the chance to take the project that little bit further by seamlessly incorporating a range of exciting new products coming onto the market.'

In Shane's view, the windows represent a focal point. 'The constructed butt joint corner windows were used throughout the display home. 'One particularly interesting feature is the large picture window looking onto the alfresco dining and pool areas, which we glazed in Viridian Low-E ComfortPlus™.'

Another engineering highlight of the Beechwood Display Home for Federation Glass was the innovative and visually arresting bathroom. 'We learned a lot from the experience of glazing the semi-frameless shower screen,' says Shane. 'For this, we used a black framed 6mm clear toughened glass, mitred to achieve the best result, coupled with a complex pivoting door which opened at a 45-degree angle.'

'For the shower glazing, we provided 12mm toughened glass with holes and polished edges, as well as concealing the mechanism in the ceiling for a seamless appearance. The ensuite and entry doors of the display home also contain large frameless panels.'



“In our view, the interior and exterior design has been justly celebrated.”

(Beechwood Homes – continued)

The colour choices in the Beechwood display Home are complemented by bold textures. 'The clients chose a new textured style of glass finish called "linen", a style choice which worked perfectly in tandem with the matt porcelain sheet flowing from the benchtop to the back of the wall behind the cooktop and larder,' Shane explains. 'They were eager to try something new, and the dark, glistening splashbacks are a key element in creating the interior's luxurious feel.'

This fine-grained attention to materials and texture extends to the pool fence. 'We sat down with the designer when considering this aspect, and eventually went with frameless glazing fixed into the concrete and spigot,' says Shane. 'Custom panels were required to meet pool fencing safety requirements, which presented a challenge because each pane had to be a certain size and a precise distance away from the pool. To keep this feature in character with the rest of the house, we used the same black finish to achieve an elegant modern feel.'

The custom internal handrail is another praiseworthy innovation installed by

Federation Glass. 'We were tasked with constructing a rail for the staircase, extending from the lower to the upper level,' Shane says. 'Providing an unobtrusive solution, we fabricated a black powder-coated slimline handrail of a very low profile, which we hadn't tried before. The client loved the idea, and proceeded to use similar finishes throughout the residence.'

This minimalist handrail features prominently on the external balcony, leading off the second upper lounge room with spigots cemented into the ground. 'We see the balcony as a central part of the visual effect of the Beechwood Display Home, because it frames the property's beautiful view. In this sense, the balcony acts as a showcase for the overall glass package.'

The challenging site provided considerable difficulty when transporting the materials, increasing the time required to complete the project. 'Getting all the glazing into the property and successfully installing it was quite challenging,' Shane notes. 'However, we pulled this off smoothly after extensive consultation with the builder.'

'As the owner of Federation Glass, I maintained a solid rapport with the owners throughout,' Shane continues. 'Everyone involved worked well as a team to overcome the obstacles and achieve superb results. It's very gratifying to be recognised for our work on this project, with an AGGA SA award and multiple HIA awards, and also working with the professional team at Beechwood Homes – it was a real pleasure.'

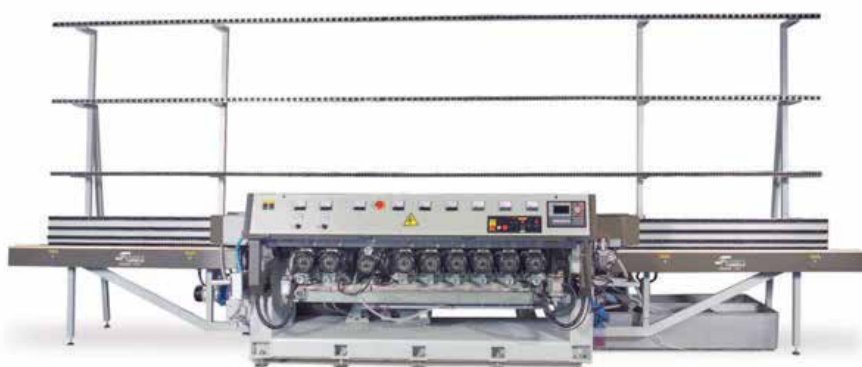
The quality materials used throughout the Beechwood Display Home project provided the high standard that the various judging panels appreciated. 'We used toughened Chevron Glass for the pool, Viridian Glass for the splashback, and Australian Independent Glass for the semi-frameless shower screens and frameless sliding doors. The materials are perfectly matched to each application. In our view, the interior and exterior design has been justly celebrated.'

The luxurious and welcoming Beechwood Homes display project is a fitting testament to the expert touch of Federation Glass. **GA**



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Clear Waters Ahead – GP Glass & Brian Imlach

> Text by Tim Roberts, Photography courtesy of GP Glass

2017 Winner
AGGA Tasmania –
Commercial Over \$50K

GP Glass experienced the job of a lifetime when they were chosen to play a crucial role in refurbishing the Spirits of Tasmania, the iconic ferries providing daily and overnight services for tourists and commercial freight between Devonport and Melbourne. CEO Brian Imlach discusses the challenges and rewards of glazing on the high seas.

'The UK-based ship refurbishment company Trimline was awarded the tender for the Tasmanian State Government's refurbishment of Spirit 1 and 2, the designation given for each Spirit of Tasmania vessel,' Brian explains. 'Seeking to make the interior lighter, airier and more user-friendly, the clients subsequently requested tenders from local building firms. This was won by Tasmanian building group Fairbrother, who after a tender process, eventually awarded the glazing contract to GP Glass.'

Keenly diving into untested waters, the (usually landlocked) Brian and his colleagues at GP Glass rapidly adjusted to the nautical working environment. 'Working on a ship was certainly a steep learning curve – we had to set aside everything we knew ... or thought we knew,' Brian recalls.

GP Glass's role was assisted greatly by the highly experienced and skilled team at Trimline, gaining from their detailed advice received throughout the project. 'Trimline offered extensive input during the renovation's design and construction phases, which we greatly appreciated,' says Brian. 'As expected, some adjustment was necessary – Trimline personnel had never seen the ships in the flesh before, so it turned out that things weren't quite as shown on the drawings. The intricate design brief was made significantly more difficult by the Spirit of Tasmania's hull's slight curvature in each direction.'

Detailed discussions and planning were carried out before the modifications got underway. 'We were extensively involved in the facilitation of Trimline's plans,' Brian observes. 'For example, we recommended locally sourced components and materials, rather than using the specified European equipment we hadn't worked with or heard of before.'

These requests for local materials fortunately fell on receptive ears, with many major elements of the fitout being sourced from Australian suppliers. 'We were pleased that Trimline

→



(Spirit of Tasmania – continued)

permitted us to substitute a substantial proportion of locally made product, mostly sourced via the German chain Hafele,' Brian confirms.

The collaboration, then, was comprehensive. 'We worked with Trimline's architect, who was very receptive to our input,' says Brian. 'The architect was quite taken by the fact that a small company from Devonport, Tasmania could reliably provide accurate information and drawings while sourcing quality products to meet a challenging schedule – all while the ship was sailing!'

On commencing the renovation, GP Glass were quick to realise the delicacy of their task. 'We were over-eager with the hammer drill at first ... but that got thrown overboard in short order!' Brian reminisces. 'We weren't allowed to drill holes in anything; instead, we had to weld brackets onto the hull, then bolt onto each bracket.'

The logistics of working on an ocean liner tested the company's expertise to its limits. 'Access to the site certainly proved challenging,' says Brian, with typical understatement. 'Given the onboard security protocols, all works needed to be undertaken between scheduled sailings while the ship was docked. Our employees sometimes travelled to Melbourne on the Spirit as it sailed back and forth between Victoria and Tasmania.'

The scope of the renovations required from GP Glass was daunting. 'The whole ship was essentially gutted from one end to the other,' says Brian. 'We were tasked with making the restaurant and dining area as open as possible while remaining enclosed, so everything had to be glazed for maximum visibility.'

'To realise this brief, we provided a fully operable 10mm toughened glass walling system that increased available natural light and offered easy access, incorporating the contours of the ship's wider environment – all while retaining the peerless practicality necessary in this unique setting,' he explains. 'The walls had to match exactly with the Hafele top and bottom running tracks we had specified, which were machined into the top and bottom rails.'

'Our work on the Spirit's interior extended to providing the ceiling glazing to the guest information area, glazed partitioning to the guest lounge, mirrored glass to the dining and bar areas, and frameless

curved and segmented glass sliding and stacking wall systems to the dining and retail sections.'

The fitout contains many of the company's innovations. 'A technical highlight of our involvement was creating a louvre package from scratch to replace the existing roll-down blinds covering the dining area windows,' says Brian. 'Unable to procure adequate replacements, we ended up designing a small-bladed, CNC-machined elliptical louvre with a central and end bracket. We then contacted a Melbourne company called Aluminium Industries, who made us a mock-up overnight with their 3D printer. Within days, we gained architectural approval to manufacture 100 sets – an amazing turnaround time.'

'We were also involved in fabricating the ship's toughened frameless glass shower screens, which presented their own unique challenges,' Brian expands. 'The doors must be able to hold shut while the ship

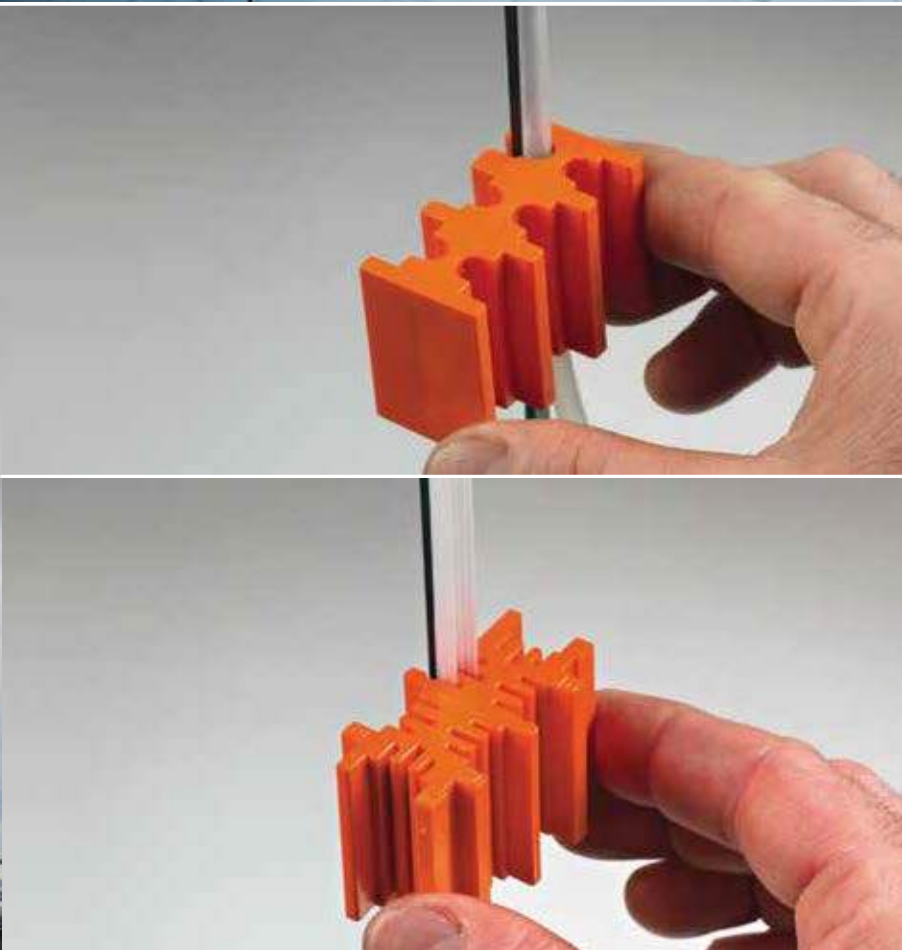
is pitching and rolling – also needing to be heavy, or they would tend to swing open due to the increased mass. To solve this, we designed a magnetic catch system that prevented the doors swinging open in heavy weather, while still remaining reasonably easy to open.'

Getting all this heavy glazing equipment on board was highly involved. 'Obtaining access was very difficult,' notes Brian. 'We craned most of the glass onto the top deck and brought it down in the ship's service elevators. Everything was done by hand, which was very labour-intensive – aside from the crane, there was no mechanical assistance.'

Renovating both ships required extensive coordination. 'We had one crew working on Ship 1 and another on Ship 2, with four tradesmen per ship,' he notes. 'One ship was dry-docked in Sydney while the hull was refurbished; we worked on it when it arrived ... not realising it was docked in a Navy base. Without passes to get on and off, we were essentially prisoners, told to stay below decks like our forefathers on the First Fleet. Fortunately, we avoided the lash and no sign of leg irons!'

GP Glass deserve commendation for their award-winning improvements to an Australian icon. **GA**





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COMF-E Optimum 152 IGU (5/10/5)	20	80.9	12.4	12.1	53.8	23.4	25.5	18.5	4.3	1.52	0.59	0.68
COMF-E Optimum WE131 IGU (4/12/4)	20	81.3	12.4	12.2	55.4	23.4	26.7	17.6	3.6	1.31	0.60	0.69
COMF-E Optimum WE142 IGU (5/10/5)	20	80.9	12.4	12.1	53.8	23.4	25.5	18.5	4.3	1.42	0.59	0.68
COMF-E Optimum AE141 IGU(4/12/4)	20	80.9	11.6	12.2	53.8	23.0	27.7	18.1	5.1	1.41	0.59	0.68
COMF-E Optimum AE152 IGU(5/10/5)	20	80.8	11.6	12.2	52.9	23.0	27.7	19.2	5.0	1.52	0.58	0.67
COMF-E Optimum WE-AE 131 IGU(4/12/4)	20	80.9	11.6	12.2	53.8	23.0	27.7	18.1	5.1	1.31	0.59	0.68
COMF-E Optimum WE-AE 142 IGU(5/10/5)	20	80.8	11.6	12.2	52.9	23.0	27.7	19.2	5.0	1.42	0.58	0.67

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AGGA 2018 Design, Safety and Apprentice Awards

Many of you will have already submitted your nominations for the AGGA State, Design, Safety and Apprentice Awards – if your state is yet to host your awards evening and time permits, we urge you to consider nominating at your earliest possible. Our highly experienced judging panel is locked in and once again anticipating a highcalibre of nominations.

State Safety Award winners will also play an integral part in our awards evening celebrations – with many previous safety award-winning initiatives contributing to safer workplaces Australia-wide.

Each of the state winners are eligible to contest the national awards, with winners to be announced at GA 18 on the Gold Coast.

State awards nights 2018

Victoria – 15 June 2018

Queensland – 20 July 2018

New South Wales – 1 June 2018

Tasmania – 2 March 2018

Western Australia – 16 June 2018

South Australia – July date to be advised



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David Robertson helps Companies Achieve AGGA Accreditation before 30 June Deadline



> David Robertson – AGGA Member Service Officer

AGGA's new Member Services Officer, David Robertson, has taken on the national role of supporting AGGA members' transition to an AGGA Accredited Company. The Accredited Company program's four pillars establish guidelines for companies to address before gaining this formal industry accreditation.

David is the program's primary point of contact, guiding members through the application process and assisting others in achieving every important benchmark in the lead-up to becoming an AGGA Accredited Company.

David's long association with the glass industry includes working in all areas of the

business, such as glass processing, and installations, delivering technical training and developing safety programs – his industry experience and depth of knowledge have been helpful in guiding many through the accreditation process. Since commencing in the position in December, David has visited every state offering support to members.

'Although all Accredited Companies must comply with the Standard to achieve Accredited Company status, several companies are still resisting the push to label A-Grade Safety Glass,' David says. 'This has been a hurdle for some and is also preventing others from achieving the Compliance pillar.

'Some have claimed labelling is logistically too difficult, and often met with little consumer support – but sitting back is no longer an option,' he continues. 'Full compliance with Australian Standards is a mandatory requirement to achieving Accredited Company status.

'A-Grade Safety Glass must have a sticker or permanent marking noting three crucial pieces of information – name of supplier and licence number; type and thickness of Safety Glass material; and testing standard (e.g. AS/NZ 2208).

'Labels or equipment, including compressor units, are readily available,' David points out. 'AGGA also supplies adhesive labels for this purpose, providing quick solutions for companies aiming to meet their obligations.'



> Jason Rooney - Director Rooney Glass

“As a result of the Lacrosse building fire in Melbourne, the Queensland Parliament recently passed legislation addressing non-conforming building products. We understand similar legislation may be adopted in other states. Our industry is not immune to this, as any A-Grade Safety Glass not identified correctly is non-conforming.

It is important that AGGA members ensure all A-Grade Safety Glass used in buildings is legibly marked with either a permanent mark or a label which cannot be removed and reused.”

**Gary Aspden -
Marketing/Technical Manager,
G.James**



“ The Selection and Installation of safety products in buildings is covered by the AS 1288 Standard, and requires installed safety products to be legibly marked or labelled by either the distributor or the installer to satisfy the specific requirements outlined within that Standard. This information is required to remain intact for final examination and inspection by the certifying authorities upon completion of a building to ensure that the correct product has been correctly specified, manufactured to AS/NZ 2208 and properly installed.

'At Viridian, we label every piece of glass we produce. When it is Safety Glass, the identification of the product satisfies the requirements of the AS 1288 Standard.'

Peter Moeller –
Executive General Manager, Viridian

Rooney Glass in NSW has been labelling glass since the company opened over 25 years ago. In 1993, Rooney Glass was one of the first companies in the then-NSW Glass Merchants Association to achieve a licence for post-cutting laminated Safety Glass to AS 1288-2208 Standards.

'We introduced a sandblasted stencil marking system for laminated safety glass, to ensure we were fully-complying with AS 1288 Section 5 (Human Impact) Item 5.23.3 without difficulty,' Director Jason Rooney explains. 'We mark glass using the same template and etch compressor we invested in on Day One of my father opening the business. Labelling is extremely straightforward, but most importantly we're fully compliant,' concludes Jason.

To find out more about the AGGA Accredited Company program and to commence the application process, contact David Robertson on 0439 970 160 or email david@agga.asn.au



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- Low overall weight makes handling easy
- Only compressed air connection required



Manual device for removing metal coatings at the edges of glass panes for better adhesion of the primary seal. The operator guides the GRIND|M base along the glass edge over the entire glass sheet. A roller presses against the glass from below, guiding it as needed. The pneumatically driven grinding wheel presses against the glass from above. The operator determines the grinding pressure and speed.

base - manufactured by LiSEC

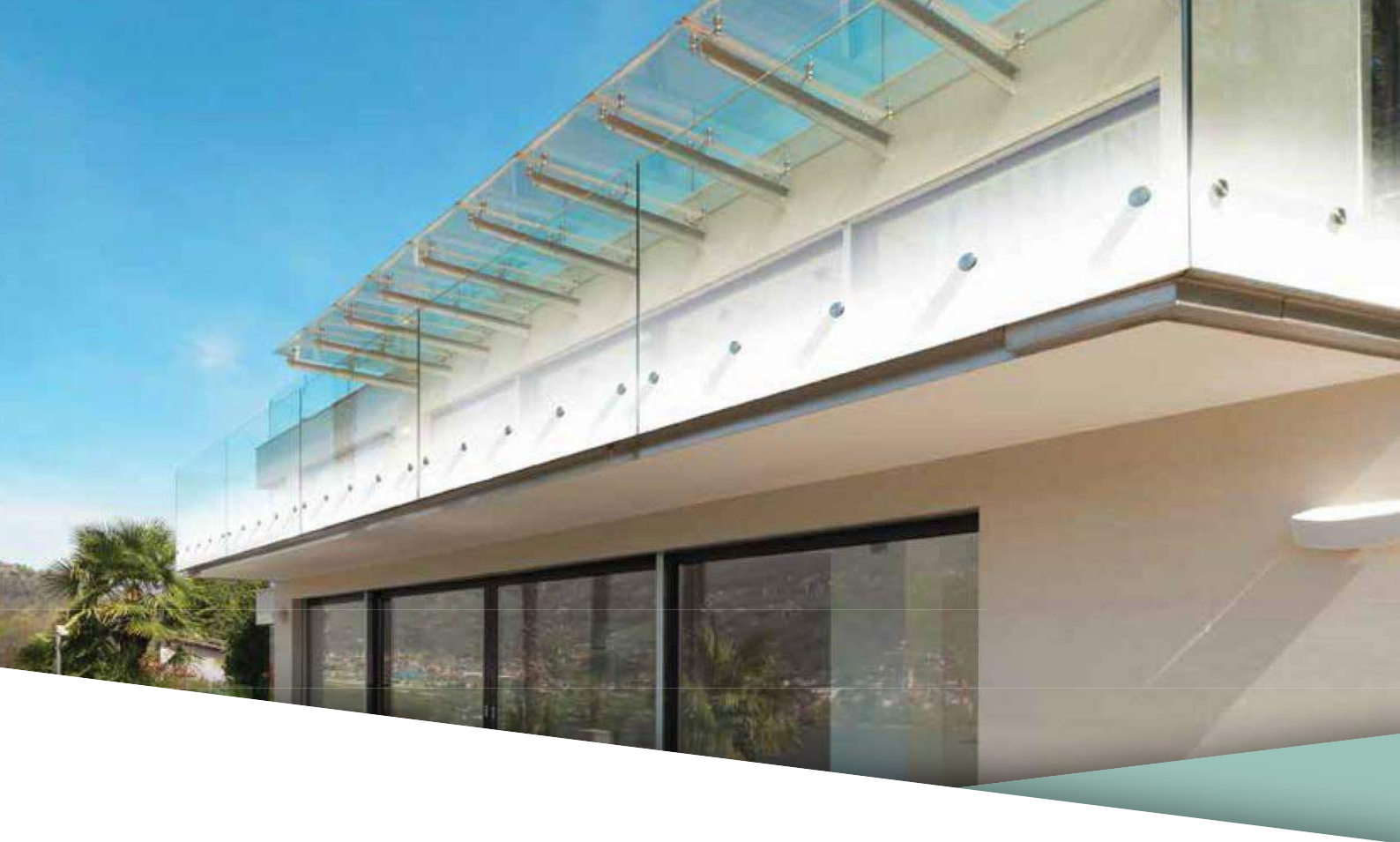
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Accentuate the view. Advance your vision.



Vanceva® Illusion White interlayers give architects new opportunities in glazing.

Now architects have a new tool to showcase compelling vistas while masking less appealing aspects, such as concrete slab.

Transitioning from medium translucence to full transparency, Vanceva® Illusion White PVB interlayers transform ordinary glass into stylish safety glass—ideal for balconies, facades, storefronts, spandrels, partitions, fixed windows, and more.

With Illusion White, you can create elegant translucent glazing effects in any color you wish without ceramic frits, paints, silk screening, or acid etching. Illusion White can also be combined with Saflex® PVB interlayers to help meet additional structural, acoustic, solar, and safety requirements.



Glass fence for swimming pool

Contact us to learn more about the Vanceva White Collection and how our support materials—including a color selector, calculator, laminated glass samples, and technical support—can help you on your next project.

Find your inspiration at vanceva.com/whites.

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Victoria, 3102 Australia. Tel: +61 3 9249 9520
E-mail: Geoff Rankin, ggrank@eastman.com

IGMA Update

> Brad Draper, IGMA Chair



> Brad Draper

The IGMA committee has been highly active over recent months, with marketing and communications plans well advanced for the year ahead in 2018.

New campaign

Following our last IGMA meeting, our marketing campaign will shortly commence with the release of a series of brochures explaining IGMA and defining what a quality IGU is. This first stage will also include a social media campaign, targeting 'influencers' within the consumer, building and architectural space.

In addition, the IGMA website has been upgraded to include a digital and social media presence, a blog, details of product information and benefits.

Other IGMA news

The draft of Amendment 1 to AS/NZS 4666 has been distributed for public comment. Once this is fully settled and approved, we will be in a better position to encourage all our members to achieve full certification.

Our long-standing representative Phil Jones has retired from his position on the AFRC, with this role being filled by Richard Baily from Viridian. We sincerely thank Phil for his many years of service, and look forward to working with Richard in future.

Jamie Rice attended IGMA North America's Winter Conference on our behalf in late January. He returned with a wealth of information about industry trends and developments, providing IGMA with key insights on emerging developments within the industry.

While IGMAP progress has been relatively slow due to the major changes in committee structure, we anticipate progress accelerating dramatically now that this issue has been resolved.

With so much of the groundwork now laid for future productivity, we anticipate a highly productive 2018.



base RACK | H

Harp rack for manually loading with glass panes

- Panes are placed sequentially
- Touch free glass storage and transportation
- Manual transportation is easier



Manually loadable harp rack for insertion and removal of glass panes from one side. The individual compartments in the carriage are separated by top-to-bottom steel bars installed at a 45-degree angle. This angled compartment division guarantees trouble-free insertion and removal of the glass panes. The bars themselves have a thick-walled plastic coating and are spring-mounted, while the clamping force is unaffected. Additionally, the harp rack's plastic base plate has deep grooves that guide the glass panes, allowing for trouble free insertion.

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VALE Neil Finn

6 April 1936 – 10 February 2018

> Joe Finn



Neil Finn was born on 6 April 1936 in Fortitude Valley, Brisbane. He was the eldest child of his parents Clarissa and Walter Finn. Dad's early life experiences had a huge impact on how he lived his life.

Clarissa, his mother, was a great tradeswoman and businesswoman running a dressmaking business during the Depression in The Block, George St, Sydney. Neil believed he inherited these skills from his mother.

Neil used to go down to Beverly Glass, the local glass shop, to watch the owner Billy Radcliff cutting glass, and he thought this was absolute magic. So he asked the guy if there was any chance of a job, and his love of glass grew from there. Within 18 months he was the foreman. His boss was very hard on him and expected perfection. If he made a mistake, he was made to fix it in his own time. Very soon he realised there was much more to learn in the industry than glazing sashes all day, and began his search for more industry experience.

He then worked for Glass Products, Bromley & Simpson Glass Company, Astor Glass and Hurstville Glass before going into business for himself.

Neil's first business was Neil and Pat Finn's Glass Service starting from a shed under the house in Penshurst and later moving to a factory in Penshurst Street, Penshurst. He worked on building the business up to gain membership of the NSW Glass Merchants Association. There were requirements in those days on having a certain amount of trucks and having a factory with cranes, among other things.

Neil loved a challenge and went on to have many different glass businesses, always looking for the creative areas of glass. He led a revival of stained glass in Australia and also bent glass. Many times he was close to losing it all, especially when the factory burned down in 1977, but Dad always said that it is when things get really tough that you learn if you can run a business. His attitude was

always to say yes to a job and then work out how to do it later. He loved solving problems and innovating. Later, Dad was recognised for his achievements in the industry, receiving the NSW Glass Person of the Year Award in 2001. He was also NSWGGA Vice President in 1976–77 but dropped out of this position and the Committee when his factory burned down to concentrate on starting over again.

Neil had many businesses over the years including Neil & Pat Finn's Glass Service, The Stained Glass Shoppe, Castlead (which made leadlights), Finglina and Bent & Curved Glass.

He often travelled the world looking for new ideas and technologies in glass and was well-known in many circles for his expertise.

The AGGA recognise Neil Finn's valuable contribution to the industry over many years, and extend our condolences to Pat, family and the Bent & Curved Glass team.



Eastman Invitation to Apply for Vanceva® World of Colour Awards

Eastman Advanced Materials Interlayers has launched its globally recognised and hotly contested 2018 Vanceva® World of Colour Awards.

These awards, held every two years, recognise the innovative use of Colour in Architectural Design globally.

The Award recognises leading glass processors and innovative building design, where completed projects have provided a unique contribution to the built environment by combining the performance benefits of laminated glass with the individual aesthetics achieved by utilising the Vanceva® Colour System.

'We encourage entries from every corner of the globe, but particularly from my home base in Australia,' says Geoff Rankin Asia Pacific Sales Manager – Architectural Markets at Eastman. 'We have had local companies such as Cooling Brothers (WA) being recognised internationally for their achievements, and I'm keen to see another Australian company hit the world stage.'

For more information, please visit www.vanceva.com or email ggrank@eastman.com

Eastman Launch New Illusion White

Eastman, manufacturer of the Vanceva® Colour System for laminated glass has recently expanded their product range to include Vanceva® Illusion White.

The translucent gradient PVB interlayer for laminated glass offers the ability to transition from medium translucence to full transparency, providing an alternative to traditional methods of ceramic frits, painting, or printing with either acid etching or silk-screening.

Vanceva® Illusion White starts with the medium-level translucence of the Vanceva® Arctic Snow white interlayer, which offers a visible light transmission of 65 percent and fades to clear within a 30cm gradient.

'Although Vanceva® Illusion White was created with balcony applications in mind, it delivers all the value-added benefits essential in laminated glass, including safety, security, soundproofing, solar and storm protection,' says Geoff Rankin, Asia Pacific Sales Manager – Architectural Markets at Eastman. 'It is also compatible with all Saflex PVB Interlayers to achieve specific performance qualities, such as Saflex Structural PVB (DG) for high-performance strength.'

For options with colour, the Vanceva® Illusion White gradient can be layered with Vanceva® colours for a maximum total of four interlayers to create endless configuration options.

For further information, email ggrank@eastman.com



base SEALTABLE

Sealing Table with Integrated Turning Mechanism

- Rotation can be set to 90°, 180° or 360°
- Potentiometer control for the rotating speed



The double suction pad optimally secures the units during the sealing process. It is also possible to mount the single suction attachment required for sealing small units (see image). The equal height of the table and the transport section makes it easy to position and remove the units. The sealed glass panes are automatically lowered to the table level. The four telescoping brackets make it possible to seal larger insulating glass units as well.

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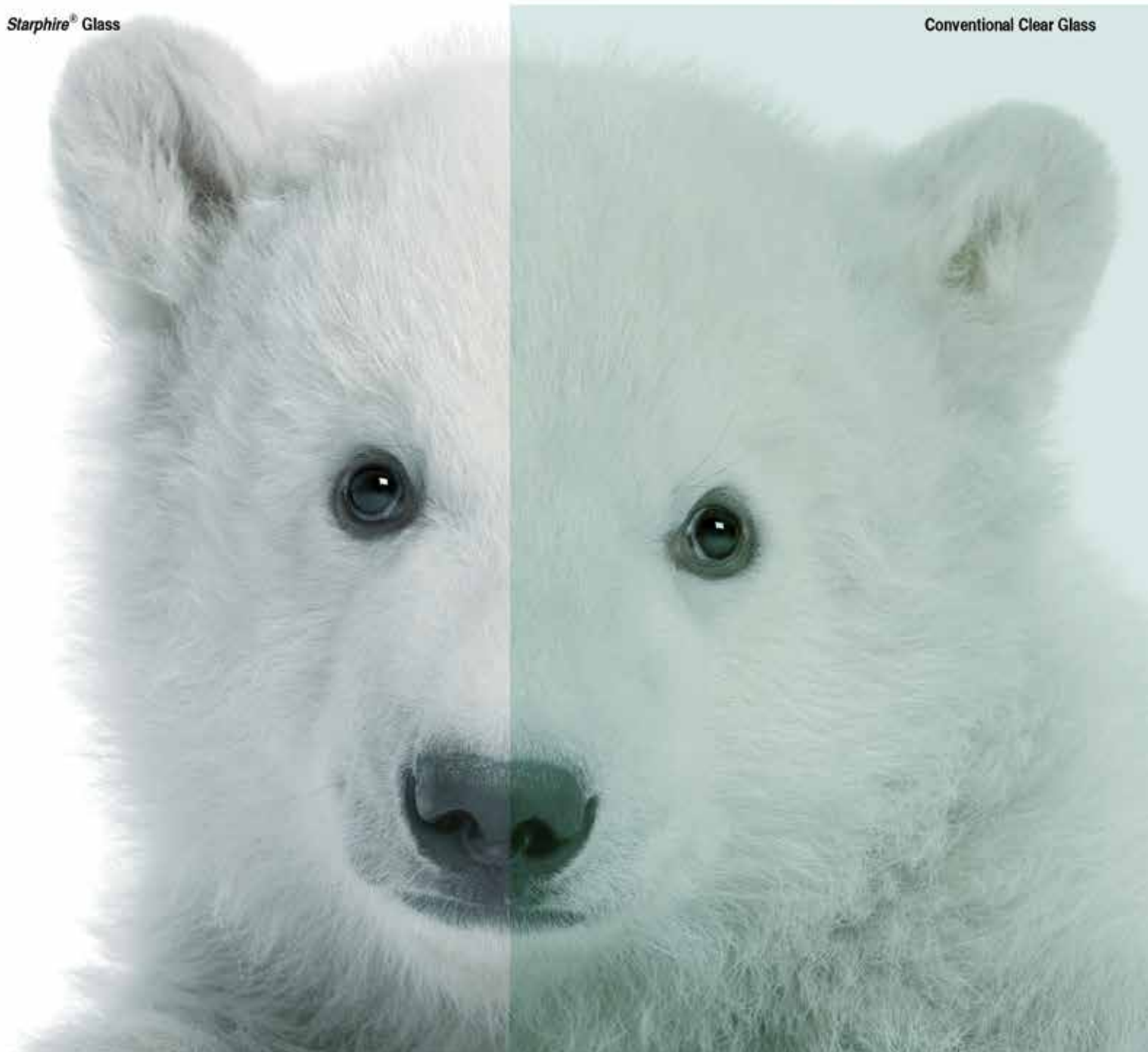
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Glass Technology
Since 1883

RMIT PhD Team Reveals New Smart Glass Coating



> Mohammad Taha, Co-researcher and PhD student, RMIT

Researchers from RMIT University in Melbourne have developed a new ultra-thin coating that responds to heat and cold, opening the door to even smarter windows.

The self-modifying coating, which is a thousand times thinner than a human hair (50–150 nanometres), works by automatically letting in more heat when cold and blocking the sun's rays when hot.

Using a material called vanadium dioxide, [at 67 degrees] it transforms from being an insulator into a metal, allowing the coating to turn into a versatile optoelectronic material controlled by and sensitive to light.

The coating stays transparent and clear to the human eye but goes opaque to infra-red solar radiation, which humans cannot see and causes solar-induced heating. Co-researcher and PhD student Mohammad Taha says that while the coating reacts to temperature, it can also be overridden with a simple switch.

Until now, it has been impossible to use vanadium dioxide on surfaces of various sizes because the placement of the coating requires the creation of specialised layers, or platforms.

Lead Investigator Associate Professor Madhu Bhaskaran says that the team was looking to roll out the technology as soon as possible. 'The materials and technology are readily scalable to large area surfaces, with the underlying technology filed as a patent in Australia and the US,' she says.

The research has been carried out at RMIT University's state-of-the-art Micro Nano Research Facility with colleagues at the University of Adelaide, and is supported by the Australian Research Council.

The findings have also been published in Scientific Reports – Nature.

For further information, email madu.bhaskaran@rmit.edu.au



base BUTYLE

Automated Butyl Coating Machine for Spacer Frames

- Continuously adjustable working height
- Processing of spacer frames with or without georgian bars/muntins
- Round arches and special shapes can be coated without any problem



Butyl extruder for precision butyl coating on both sides of spacers. Sensor-controlled guide rollers ensure optimal stabilisation of the frame and this enables consistent coating. Opening and closing of the coating nozzles are controlled automatically. The integrated measurement device for frame widths ensures continuous nozzle adjustment. The coating speed can be set individually.

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Glasstech Asia 2018

Renowned as the 'Glass Hub of Southeast Asia', this unparalleled glass exhibition provides regional industry players with a deeper insight into the glass manufacturing, processing, products and materials sectors. Glasstech Asia, in its 16th edition this year, is therefore an excellent platform for industry players across the globe to set foot and tap into the growing market of Southeast Asia.

Fenestration Asia 2018

The boom of the construction industry, especially in emerging countries of Southeast Asia, has resulted in an increasing demand for windows, doors, facades, and related services and accessories. The global doors and windows industry is also forecast to reach US\$170.7B by 2018 and is anticipated to benefit from the growth in construction of both residential and non-residential projects. In its third edition this year, Fenestration Asia 2018 will showcase industry standards in sustainability, automation, comfort and energy efficiency.



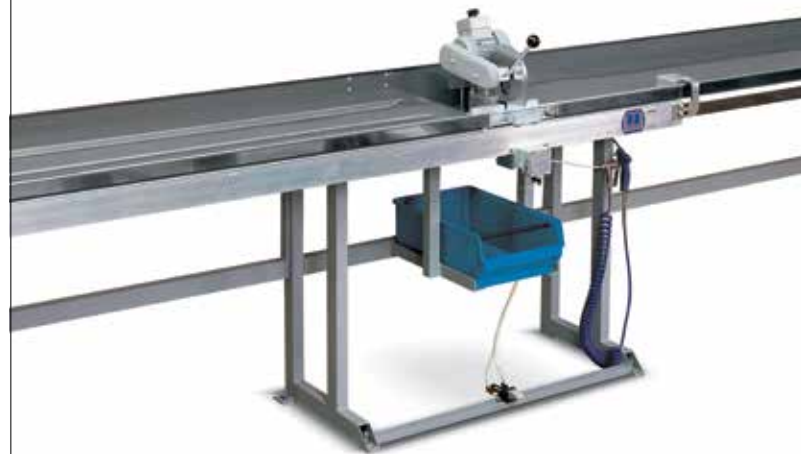
Glasstech Asia 2018 and Fenestration Asia 2018 will be staged in Malaysia International Trade and Exhibition Centre in Kuala Lumpur, Malaysia, from 14–16 November 2018.



base CUT | S

Cutting saw for spacer frames

- Available for aluminum profiles
- Collection container for filings and trim cuts
- Sawing of georgian bars/muntins simply by swiveling the saw unit by 45 degrees in either direction



Efficient and solid circular saw for cutting to length of spacer frames. The stop rail glides on precision tracks and can be clamped pneumatically. Due to smooth swivel mounted device, the cutting saw is easy to use manually.

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Eastman Advanced Materials Interlayers to Exhibit at Glasstec – Dusseldorf 23–26 October 2018

Eastman, a world-leading innovator in high-performance interlayer technologies developed for a variety of laminated glass applications, will again have an interactive display stand at this year's Glasstec in Dusseldorf.

'This year, the floor space is double our previous participation to enable us to demonstrate our extensive range of applications including acoustics, solar


performing interlayers with coatings, and a new high-performance interlayer for very large glazed panels (ie 3.3m x 18m),' says Geoff Rankin, Asia Pacific Sales Manager – Architectural Markets at Eastman.

'Our display will of course include other Eastman applications, including the internationally recognised Vanceva® Colour System along with our Earth Tones and the new Illusions White application.

'We encourage you to register early to attend Glasstec and extend a warm invitation to view our stand. Don't miss this opportunity to learn how Eastman products and market focus can help in differentiating your business – visit us at Hall 11 – Stand A48,' Geoff concludes.

For further information, email Geoff on ggrank@eastman.com

a·cu·men

/ə'kyōōmən, 'akyəmən/ 

noun

the ability to make good judgments and quick decisions, typically in a particular domain. "business acumen"

Synonyms: astuteness, acuity, sharpness, understanding, cleverness, brains, smartness, judgment, awareness, sense.



Managing the com

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Skills Gaps? Consider an Adult or Mature-Aged Apprentice!

When hiring an apprentice, your first thought is probably to look for someone just out of school – but have you considered hiring an adult or mature-aged apprentice?

There are some very good reasons why you should, but first things first ...

Apprentice

- Working age – 24 years old
- Generally, apprentices are school-leavers or those entering the workforce for the first time

Adult Apprentice

- Aged 25–44
- Usually looking to change career path or re-enter the workforce after a period of absence (travel, starting a family, etc.)

Mature-aged Apprentice

- Aged 45 or over
- Generally aiming to formalise the skills they've gained throughout their entire working life

Why consider an adult or mature-aged apprentice?

Adult or mature-aged apprentices have been working for most of their lives, so they have a wide range of workplace skills and experience they can bring to your team. Depending on your State Award, they may also need to be working for your organisation for a period before being signed up as an apprentice, making them immediately productive and easier to train. They could also have prior qualifications or formal training, which may reduce the time it takes for them to complete their glass or glazing apprenticeship.

A worker with more experience will also usually be more reliable. Many have families and mortgages, and are looking to gain a qualification they know will provide steady income and long-term security for themselves and their family.

Lastly, adult and mature-aged apprentices tend to face challenges at work head-on – after all, there's not much they haven't already seen or done!

Financial incentives

It's no secret that older apprentices get paid a higher rate than younger apprentices, but this doesn't have to mean a financial loss to your company.

As well as the return on investment that their immediate productivity provides, there are also Australian Government incentives available to employers who hire eligible workers, including the Support for Adult Australian Apprentices and Mature Age Wage Subsidy incentives.

Want to know more?

To engage an adult or mature-aged apprentice, a Commonwealth Government Training Contract must be in place. That may sound complicated, but don't worry – that's where MEGT comes in! Your local apprenticeship expert for over 35 years, MEGT is here to support you through every step of the Australian Apprenticeships program.

Contact MEGT today on 13 MEGT (6348) or visit megt.com.au



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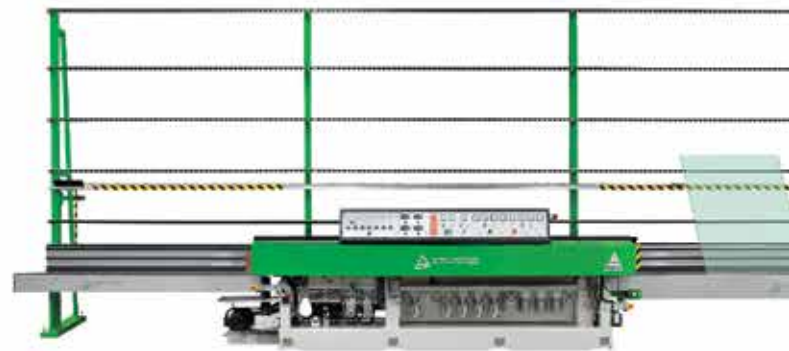
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LiSEC's New Generation Laminating Line

LiSEC delivers the first laminated glass line with new technology – now manufactured in Austria.

LiSEC are pleased to announce delivery of their first new-generation laminated glass line, now manufactured at their expanding Austrian facility.

'This new laminated glass line, installed at Al Hadi in Kuwait, is a U-shape solution for a maximum glass size of 2600 x 5000 millimetres, including pre-lamination and full convection. The new LiSEC Laminated Line features the latest innovation, technology and world-leading design, as integrated into all LiSEC machinery,' says Sandro Ianni –

Managing Director, LiSEC Australia. 'We're also excited to announce that the second new-generation Laminated Line is scheduled for delivery to one of our Australian customers in coming months.'

The pre-lamination system with high-precision pressing force and full convection system is exclusive to LiSEC. The Austrian machine builder is expecting great interest globally.

At the moment, LiSEC offers the laminated glass plants with the following maximum glass sizes:

- 2600 x 4500mm in straight and U-shapes

- 2600 x 5000mm in straight and U-shapes
- 2800 x 5000mm in straight and U-shapes
- 2800 x 6000mm in straight and U-shapes
- 3300 x 6000mm in straight form.

The technological development stages can be adapted to each customer's requirements, and their quality and automation standards.

For further information, contact Lee Thurbon on 0467 003 777.

Guardian Glass Announces Further Expansion in the Region



Guardian Glass welcomes the newest addition to their quickly expanding Australian and New Zealand team with the appointment of Melbourne-based Territory Sales Executive, Austin Kurne.

Austin graduated with a Master's in Urban Planning and Design from the University of Melbourne, with a background in Architecture. His understanding of the rapidly developing nature of Melbourne's urban environment and the significance of glass as a building material in a successfully designed

city will ensure Austin's position as a valuable contributor to the Guardian team.

Austin's role will focus on educating glass-related industries on high-performance coated glass through CPD presentations, glazing specification reports and performance data. Through this educational process, he will look to become Melbourne's first point of contact for glass-related questions while boosting market awareness of the Guardian brand name.

Austin can be contacted via email on akurne@guardian.com

Adelio Lattuada Celebrate 40 Years

Adelio Lattuada will recognise 40 years of manufacturing in 2018, with this important milestone being earmarked for much celebration during Glasstec 2018 (23–26 October).

From their very first grinding machines, manufactured in Carbonate, Italy, in 1978, Adelio Lattuada evolved to being a highly respected quality supplier to the global glass processing industry.

Their first prototypes have evolved into the current range of more than 60 different models. Adelio Lattuada are recognised within the industry as manufacturing the widest range of edging, bevelling and washing machinery currently available on the market.

'Innovation has always been at their forefront,' says Neil Searle, Managing Director of OGA, Adelio Lattuada's Australian representative. 'They have continued to evolve and take the industry lead. Their passion and enthusiasm

for continuous product improvement and technology development solutions for the glass processing industry is widely recognised.'

Adelio Lattuada extend an invitation to join them for their celebrations at their stand at Glasstec 2018.

For further information on Adelio Lattuada, please contact OGA on enquiries@oga.com.au or 03 9587 2488.



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New AGGA Technical & OHS Fact Sheets

In our efforts to keep all members abreast and fully informed on key issues, AGGA continue to produce our series of industry technical and safety fact sheets.

The series has recently been expanded and is now available on the AGGA website.

New titles include:

Consumer Fact Sheets

Acoustics in Glass & Glazing

Guidelines for Cleaning Glass

Glass in Balustrades

Glass Staining

Glass Types

Heat Soaking

Insulated Glass Units

Solar Spectrum

Thermal Stress Glass Breakage

Industry Fact Sheets

Acoustics in Glass & Glazing

Glazing Requirements in Bushfire Zones

Glass in Buildings AS 1288:
2006 – Residential

Glass in Balustrades

Glass Staining

Shower Screen Installation

Glazing for Family Day Care Centres

Tropical Cyclones & Glass

NCC Classification of Buildings
and Structures

Due to the thorough research and preparation process, each fact sheet provides an indispensable guide to a selected technical aspect of glass and glazing materials and best practice.

To ensure this information is shared among colleagues as widely as possible, the AGGA has made this complete range of titles available to all. We encourage you to log onto the website and sample the full range of insights offered by our leading industry figures.

As an authoritative resource to be steadily built upon each quarter, these AGGA industry fact sheets will continue to provide a much-needed standard reference tool for best practice within our industry.

Members are urged to check updates recently for new fact sheets, which are released online as they are published.

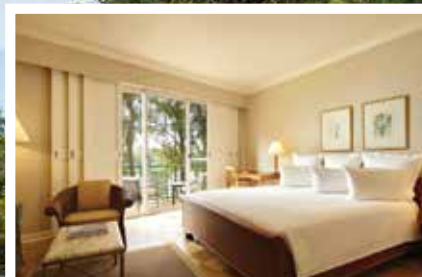
To find out more, and to download technical safety fact sheets, log on to agga.org.au



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www.agga.org.au/news-events/agga-national-conference---ga18

Let's Talk About Stroke

> Professor Bruce Campbell - Stroke Foundation Clinical Council Chair

Artist Bob Carey-Grieve, 43, recently clocked up one year since a stroke turned his world upside down. The stroke didn't leave an impact physically, but mentally it has left a lasting imprint – with the fear it could happen again and could be worse next time. It put enormous stress on Bob and, in turn, on those who loved him most.

Bob reflected on the first anniversary of his stroke with an honest and raw blog, published on the Stroke Foundation's Facebook page. Something interesting happened afterwards. Men started to comment. Not just one or two, but a number of men got involved in the conversation – many offering words of support and detailing their own accounts of stroke.

The volume of men who connected with Bob was well above that of a normal post on the page.

It was encouraging to see this reaction, because men are traditionally not as open as women when it comes to health. Issues like this won't go away by ignoring them.

In 2018, 56,000 Australians will suffer a stroke – that is one every nine minutes. Stroke will kill more men than prostate cancer and more women than breast cancer.

As evident by Bob's stroke, this devastating disease can strike people of all ages. Alarming, around 30 percent of strokes happen to Australians of working age who have their whole lives ahead of them.

Stroke can change lives in an instant. Many survivors have to relearn how to walk or talk, or perform the simplest daily activities like eating, dressing and bathing.

While there have been major advances in time-critical treatment for stroke and it is no longer a death sentence, it remains one of the main causes of disability in Australia.

However, this does not have to be a story with a gloomy outlook. Encouragingly, up to 80 percent of strokes are preventable. You just need the knowledge and the tools to do so.

High blood pressure is a key risk factor for stroke, and one that can be managed. 4.1 million Australians have high blood pressure, and many of us don't realise it. Having high blood pressure doesn't make you feel any different – you have to have it measured to know. It is more common in men than women (24 percent to 20 percent). Research has shown the number of strokes would be practically cut in half (48 percent) if high blood pressure alone were eliminated.

Other risk factors include atrial fibrillation (an irregular heartbeat), inactivity, carrying too much weight, smoking, high cholesterol, diabetes and a high intake of alcohol. These can all be managed by seeing your General Practitioner (GP) and adopting a healthy lifestyle.



> Bob Carey-Grieve

The FAST Test

Ask these questions:

Face – Check their face. Has their mouth drooped?

Arms – Can they lift both arms?

Speech – Is their speech slurred? Do they understand you?

Time – Time is critical. If you see any of these signs, call 000 straight away.



> Professor Bruce Campbell –
Stroke Foundation Clinical Council Chair

When someone suffers a stroke, every minute counts. Brain cells die at a rate of up to 1.9 million a minute. The faster treatment is sought, the better the chance of recovery.

I urge you to visit a GP and understand your own stroke risk. Don't assume it will never happen to you. Between the ages of 55 and

84, men are far more likely to have a stroke than women.

It is also important to know how to recognise the signs of a stroke. This information could save a life of a family member, a mate – or possibly even your own.

The FAST test is an easy way to recognise and remember the most common signs of stroke. Share this message with your friends and family. Stay informed about health in whatever way you can. Stroke impacts so many lives – and you don't want it to touch yours.

www.strokefoundation.org.au

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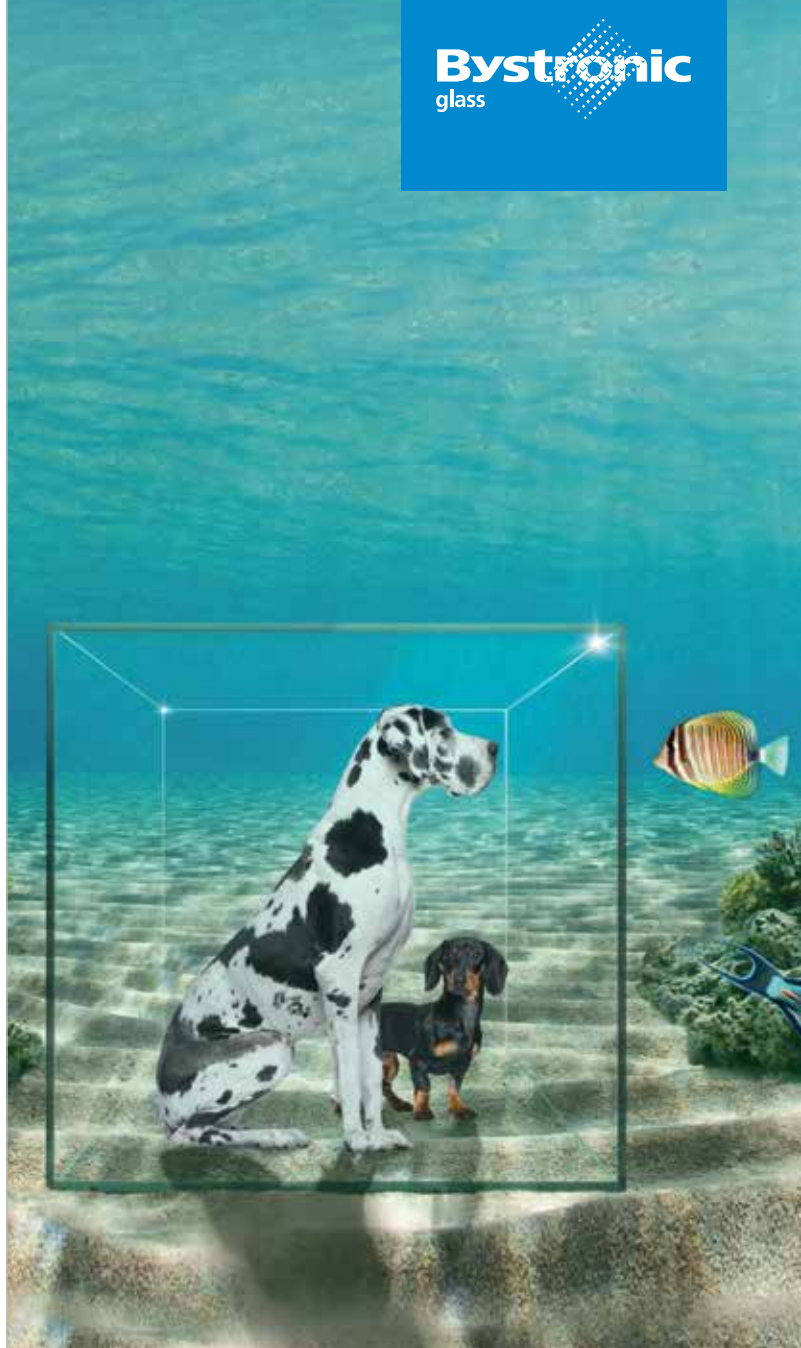
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AGGA Tasmania Conference & Awards Night



This year was the third year in which AGGA Tasmania has run its Conference Day, consolidating its position as the premier event on the Tasmanian glazing industry calendar. The high-quality speakers provided all attendees with practical and inspiring ideas to take back to their business. Attendees were informed of advances in industry products, educated on business and people management, and inspired about the future of the glazing industry and doing business

in Tasmania. AGGA Tasmania thanks their sponsors for supporting this event and for making the event the success that it was.

The conference was opened by Peter Moeller from Viridian, who gave a stimulating talk on Building and Maintaining Industry Relevance, highlighting the importance of the Accredited Company Program to the future of the industry. A video of this presentation will be available on the AGGA website for members across Australia to view.

Emily Jaksch from HR Gurus gave an interactive and enlightening presentation on Managing Millennials, and Craig Badcock from Unicorn Business Solutions discussed the important figures to consider when bidding on jobs. Craig showed that monitoring the wrong figures can cause a successful business to struggle. Craig has offered members a video explaining the numbers presented, an eBook version of 'Einstein and the Planning Day Guy', and a free 30-minute phone discussion

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> Peter Moeller



> Anne Watson & Michael Dalton

on questions or related matters from his presentation. He has also offered attendees a 75 per cent discount for a financial model of their business, as shown in the presentation. To receive these benefits, please email Tamika (tamika@unicornbs.com.au).

Catherine Pitliangas from Capral spoke on Thermal Efficiency and Modern Glazing Systems; Geoff Rankin from Eastman spoke on Acoustic Properties of Glass and Glazing Systems; and Will Walker, CEO AGGA, provided further detail on the rollout of the Accredited Company Program and future directions of the Association. The Conference was closed by Errol Stewart, a well-known business identity in Tasmania who encouraged conference attendees to 'Work hard, build trust. Chance your arm with enthusiasm. The rest will happen.' Copies of the presentations are available on the AGGA Tasmania website.

The Conference was followed by the annual Awards Night. This commenced with the Australian Glass Group (AGG) pre-dinner drinks and gin bar, where attendees were able to sample local and international gins and were able to taste these with a selection of different tonics. This was followed by the Viridian Awards Dinner, where guests were entertained by the magician comedian Bodane Hatten during an evening of celebration and recognition of many worthy industry award recipients.



Congratulations to the AGGA Tasmania Award Winners

1. Best Shower Screen or Splashback Project – Saward Glass Designs with Andrew Street Strahan
2. Best Retro Fit Project – Kingborough Glazing with Jindabyne Road Kingston Beach
3. Safety Award – Kingborough Glazing with their Safety Site Pack
4. Best Energy Efficient Glazed Home– Glass Supplies with River Street, Bellerive
5. Best Energy Efficient Commercial Glazing Project – Vos Constructions with MACq01
6. Apprentice of the Year– Blair Hattinger from Glass Supplies
7. Most Striking Use of Glass Architecturally in a Home Below \$20,000 – GP Glass at Cartier Place Launceston
8. Most Striking Use of Glass Architecturally in a Home Above \$20,000 – Kingborough Glazing with Salamanca Square
9. Most Striking Commercial Glazing Project Below \$50,000 – GP Glass with the DHHS Offices, Elizabeth Street
10. Most Striking Commercial Glazing Project Above \$50,000 – Vos Constructions with MACq01
11. AGGA Tasmania Workmanship Award – Vos Constructions with MACq01
12. Women in Glass Awards – Tracey Gofton from Kingborough Glazing
13. Service to the Industry Award – Rodd Betts from Commercial Windows and Doors

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State Event Calendar 2018

QLD

- **National Glass Golf Day**
15 June 2018 –
North Lakes Country Golf Club
- **Glass & Glazing Industry Awards**
20 July 2018 – Hotel Grand Chancellor
- **General Meeting**
9 August 2018 – Inglass
- **Auto Ingress Golf Day**
12 October 2018 – Gainsborough Greens
Resort Golf Club
- **AGM**
TBC December 2018 – G.James

VIC

- **Annual Awards Night**
15 June 2018
- **Golf Day**
19 October 2018
- **AGM & Final Meeting of the Year**
14 November 2018

WA

- **Half Day Industry Forum**
11 May 2018
- **Annual Gala Awards Night**
16 June 2018 at the Pan Pacific
- **AGM & Annual Golf Day**
19 October 2018

NSW

- **NSW Awards Night**
1 June 2018 at Doltone House,
Darling Island Wharf
- **AGM & Annual Golf Day**
14 September 2018 at the
Bankstown Golf Club
- **Executive Meetings –**
Held bi-monthly on the second Tuesday
of each month
- **Regional AS 1288 Training & Members’
Information Sessions**
Log on to the NSW AGGA website for
training dates [www.agga.org.au/states/
upcoming-events-NSW](http://www.agga.org.au/states/upcoming-events-NSW) or
www.facebook.com/NSWGGA

TAS

- **Executive Meeting**
1 June 2018 Glass Supplies Hobart
- **AGM and Prostate Cancer Awareness &
Fundraiser Lunch**
24 August 2018 Hobart
- **Executive Meeting**
19 October 2018 Glass Supplies Launceston

SA

- **General Meeting**
20 June 2018 North Adelaide Golf Club
- **Gala Dinner**
TBC July 2018
- **General Meeting**
19 September 2018
North Adelaide Golf Club

AGGA QLD State Report

> Bill Leavey, President

Work has been very good in Queensland, with all the storms and heavy rain that have hit the state recently.

Many of our members attended a very successful workshop on Security of Payment delivered by a local legal firm. This is a subject of some concern to our members.

We held our first Golf Day of the year, the Dormakaba Trophy, at the Keperra Golf course on Friday 16 March. We had a committee meeting and general meeting prior to the golf. Our guest speaker was from our Queensland liaising commission, QBCC, who spoke to us on the changes in legislation regarding non-compliant building products and the latest on security of payment.

Another matter we have been working on is co-designing a pre-employment program for unemployed youth with TAFE Queensland SkillsTech. We are in negotiations with a

Government Department ‘Launch into Work’ team, and are having teleconferences to further progress this. TAFE Queensland SkillsTech have found a qualification – MSF 20413 Certificate 2 in Glass & Glazing – that suits the requirements of our Association members, and we have chosen a suite of competencies that we believe will maximise the chances of employment for participants across a range of businesses.

We have now confirmed our meeting schedule for 2018. Our major event is the Glass & Glazing Industry Awards event. This year it will be held on Friday 20 July, again at the Hotel Grand Chancellor. I am very pleased to advise that the Platinum sponsor for this year’s Glass & Glazing Industry Awards is GLASS 360.

We already have three Gold sponsors – OGA, 1st Glass and National Glass – and two Silver

sponsors – Scratchless Glass and Wood Glass Group. Thank you for your continued support, and we look forward to a bigger and better event this year.

Welcome to four new members to AGGA Queensland this year – Polytron Glass Australia, ARN Glass & Aluminium, Screens ‘n’ More, and NPT Windows & Glazing.

Congratulations to our three new committee members – Peter Collishaw, Peter Condon, and Richard Cary (from TAFE Queensland SkillsTech, who is replacing long-term committee member Donna Playford. Donna is taking a 12-month sabbatical to work in the private sector). We look forward to having your many years of industry knowledge to assist us.



GWAWA State Report

> Peter den Boer, President



There is a more positive sentiment about the WA economy in recent times on the back of increased mining activity and the jobs this creates. This is good news for us, as an increase in population, with people coming to WA to take up new jobs, will eventually flow through to an increase in the demand for new housing which drives our market. However, it will take some time for us to feel the impact of this, so it appears there won't be much change in the WA building industry over the next 6–12 months.

Meetings

Key priority for the state is the promotion of the Accredited Company Program and working with all our provisional Accredited Companies by supporting them to attain accreditation on each of the four pillars.

The National Member Services Officer, David Robertson, plans to meet with our WA members in the first two weeks of April.

Events

An Industry Dinner was held on 13 March, with a focus on contracts, payment support for subcontractors, and non-compliant

building products. Attendance was 75 members, and this enthusiastic audience was interested to learn more.

The media has been awash recently with builders going into administration or liquidation and product problems being found in recent projects, so these talks were very well-received. There was animated discussion around all these topics, as they continue to be top of the list of concerns for members both big and small.

Our next planned formal event is a joint Forum with the AWA to be held as an afternoon event on Friday 11 May 2018.

Social

Our last social event was our Year End Sundowner, held Friday 19 January 2018, at the Raffles, enjoyed by 50 members.

Training

Our first AS 1288 Accredited training session was held Thursday 8 March, with future events planned for 3 May and 14 June 2018. Please consider booking in for this training to comply with the Technical pillar of the Accredited Company Program.

Accredited Company Program (ACP)

There has been interesting member response to the take-up of glaziers registering in the Master Glaziers program, with several registered and more in the process of doing so. We also encourage you to take the opportunity to tap into the GWAWA sponsoring your registration fee. We encourage all provisional accredited members to work toward completion of their four pillars by 30 June 2018. We have two Accredited Companies completed in WA, Jim's Glass (WA) and WA Custom Glass.

David Robertson, our AGGA National Member Services Officer, remains available to any members who wish to seek assistance in the ACP and support in their four pillar completions. Patrick Gavaghan, the AGGA Training Manager, is also available to assist any members.

AGGA SA State Report

> Phillip Mauviel, President



The GGASA AGM was held on Wednesday 21st March at the North Adelaide Golf Club. I am pleased to announce that all current serving members were re-elected with the exception of Veronica Johns who chose not to renominate. I would like to extend a big thank you to Veronica for her many years of service and valuable contributions to the GGASA.

There are many changes happening in the industry and within the GGASA that will strengthen our position and grow our local industry. The most notable change is the appointment of David Robertson as the AGGA Member Services Officer. The new Accredited Company Program is now in full swing with a number of members already fulfilling the requirements and David's primary task in the short term is to get all members accredited. Previous GGASA Accreditation certificates expired on December 31st 2017, and although there is

provisional Accreditation in place, this is the time to meet or talk to David who will assist in fulfilling the new requirements. To assist with ensuring members can easily achieve their Accreditation an AS1288 Accredited workshop is planned for Friday 27th April which will also assist with this process.

We are also moving to a national secretariat function, where the financial and administrative functions of the GGASA will be handled by the national AGGA office. This consolidation and streamlining of service is to increase efficiency and ultimately deliver better services to members.

A reminder that nominations are now open for this year's glass design awards, and I encourage members to submit projects and be proud of the great work we do as an industry. The annual gala dinner will be held in July with venue and date to be confirmed.

The AGGA and AWA board are exploring merger options to further strengthen the industry. I support this process, but it is imperative that our grass roots local support and representation is not undermined.

I would like to take this opportunity to thank Jay Lynch for her hard work over the past few years, as she winds down during the hand-over of the secretarial functions to AGGA national. Thank you Jay for your many contributions and hard work in supporting our local industry.

AGGA VIC State Report

> Michael Kruger, President

Our first committee meeting for the year was held on 31 January at the AGGA national office. This was a positive meeting and a further opportunity to build the relationship and work on a unified approach. With the support of the national office, we are seeing more queries and discussions with members and a growing membership base.

Accredited Companies Program

Most pleasing to hear is that we now have two new Accredited Companies in Victoria.

Congratulations to South Melbourne Glass, A Glazier & Shutter Services and Somerville Glass & Glazing on their achievement. Further, there are several other companies very close to Accreditation, which is a real positive step.

Technical/Training

There are two upcoming AS 1288 workshops in Melbourne and Bendigo. We encourage you to get in contact and book a spot.

Awards Night

Finally we are beginning to look forward to our Awards night on 15 June. Nomination forms will be going out in coming weeks.

The Awards night is a great opportunity to get together with friends and industry colleagues to celebrate some of the achievements of the year. This year's event will be bringing together several generations of the industry, and will provide a chance for many to reminisce.



AGGA NSW State Report

> Adrian Grocott, President

The 2018 year has started well, with our members reporting continued strong demand. Within this climate, our members are all working hard to meet the 30 June 2018 deadline for the Accredited Company Program. The six AS 1288 courses that have been run within Sydney and around regional NSW over the last few months have been well-attended. I know many companies are now focusing on the final Safety and Compliance pillars of the Program to maintain their accreditation. We are also seeing a number of new member applications from companies wishing to become accredited through the Accredited Company Program.

NSWGGA is also preparing for our annual Awards Night. This will again be held at Doltone House, Darling Island, and will be on Friday 1 June 2018 during the Sydney Vivid Festival. I am looking forward to a relaxing evening with great company, excellent food and sensational entertainment. I also anticipate meeting up with our members on the evening, and hope that some can stay to enjoy the weekend in Sydney.

The highlight of the evening will be celebrating the great work undertaken by our members over the last 12 months. With categories ranging from Best Use of Glass in a Domestic Project Under \$20,000 to Best Use of Glass

in a Commercial Project Over \$50,000, there is a category for every project. I encourage all members to nominate projects for the awards, to see their work recognised across NSW and nationally. Nomination forms can be found on the NSWGGA events webpage. Last year, NSWGGA winners went on to win three of the four national project awards. This year, I look forward to seeing if we can make a clean sweep.

Finally, I would like to congratulate Gerry's Glass, a longstanding NSWGGA member, for celebrating its 40th anniversary in the industry, and wish them all the best for the next 40 years.



AGGA Tasmania State Report

> Michael Dalton, President

The start of 2018 has been another exciting period for AGGA Tasmania. Our state Conference and Awards evening was held on Friday 2 March in Hobart, and as always it showcased the many quality projects undertaken by members while giving an opportunity for suppliers and industry to socialise in a relaxed atmosphere recognising the work of members. Our conference day was well supported again and the guest speakers presented both informative and interactive presentations which were well-received.

As always the Dinner and Conference could not happen without the tremendous support of sponsors and the huge amount of work conducted by the committee and Katharine Overton.

AGGA member services David Robinson spent the week before the conference trekking the state visiting members delivering details on both the ACP and Master Glazier programs which were well-received by those members he visited.

A number of member employees attended an AS 1288 Training Workshop in the south of the state on 8 February.

The building industry is extremely buoyant in both Commercial and Residential sectors, and sees a record number of apprentices enrolled at 95 and still climbing.

We are now moving towards having our secretarial requirements being administered by AGGA along with other states and the continued merger talks between AGGA and the AWA.



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Graeme Hawes, Managing Director (far left), with Lesley Williams, Lloyd's Simon Quin, Mark Smith and Adrian Philp, and PLG Glass' Gary Dobson.

Glaston RC350 enables move to bigger glass sizes

Peterlee Glass expands – a celebration of 40 years of success

"Although October 2017 officially marked our 40th birthday, we've been celebrating throughout the entire year with a significant investment in new machinery that will help us continue to grow and thrive in the architectural glass sector. At the end of summer, we started up our new Glaston RC350 tempering furnace that allows us to deliver larger oversized glass and a wider portfolio of coated glass to better serve our customers," says Graeme Hawes, Managing Director of Peterlee Glass Company Ltd., Peterlee, County Durham, UK.

Founded in 1977, near the Durham Heritage Coast, Peterlee Glass (PLG) has grown from a local glass glazing service to a specialist in providing architectural glass products for retail and domestic use. The company has extended its reach from the village of Peterlee to customers nationwide.

Now after four decades of success, the company decided to increase production and boost sales by moving to a new factory and investing in specialized processing equipment, including Glaston's RC350 flat tempering glass line. Other new equipment includes a vertical CNC station along with cutting and washing machinery. The new

machines will enable PLG to offer oversized glass – to drive new sales growth, streamline production, improve productivity and reduce lead time.

SMOOTH INSTALLATION

For Graeme Hawes, this was his first time buying a furnace from Glaston.

"During the first week in June, the containers started to arrive at our new 60,000 ft² facility. The assembly proceeded very smoothly, without any issues. The Glaston UK team of five persons got on with the work, requiring very little of our involvement during the process. This was especially helpful, since we could then

continue to focus on running our business as usual," says Graeme.

When it was time for commissioning, a Glaston UK engineer took care of that part. "We appreciated the fact that the assembly and commissioning phases were handled professionally by local Glaston people. We had no barriers in communicating and all went very well," Graeme explains.

PRODUCTION SPEEDS UP

The final acceptance took place on August 4. In Graeme's opinion, the furnace started running quality glass right away.

"Our new Glaston furnace is much bigger than what we had before. So, production is going through much quicker. I'm really happy about that!" he says.

EXTRA TRAINING FOR OPERATORS

Training, too, proceeded without any issues. The operators received a first training session when the Glaston RC350 started up. After four weeks, the Glaston training team came back to PLG to give additional training.

"It was a good opportunity to help answer additional questions, once our operators had had the chance to try out the furnace on their own for some time," Graeme says. "The furnace is very different from what our operators are used to running. But the RC350 is easy to control. And the software and controls are very self-explanatory."

LIVING UP TO EXPECTATIONS

"Yes – this is exactly what I was expecting from a Glaston furnace," Graeme says. "The performance of our new RC350 is excellent."

He goes on to state that one of the first pieces that they ran through the line was a big sheet that measured 5 x 2.2 m with a thickness of 19 mm.

"It came out absolutely perfect!" he says, confident that PLG can now produce the oversized glass sheets and toughened coated glass requested by their customers.

"We've already been able to win new customers because of the glass sizes we're now able to process," says Graeme with satisfaction.

CELEBRATION CONTINUES

To show off their new investment, Graeme and his team have been busy inviting customers to come and visit – to see the actual machinery running at the new



"Our new Glaston furnace is much bigger than what we had before. So, production is going through much quicker. I'm really happy about that!"

— Graeme Hawes, Managing Director of Peterlee Glass Company Ltd.

factory. At the same time, they've been calling on new customers to let them know about PLG's expanded capabilities in architectural glass.

He goes on to say: "Our celebration doesn't end after this milestone year. We'll be able to continue with high spirits for quite some time, processing larger glass sheets, boosting our production and providing high-quality service to our customers across a more diverse product range."

"We're looking forward to growing our offering and breaking into new markets with our highly specialized glass products!"

Glaston RC Series



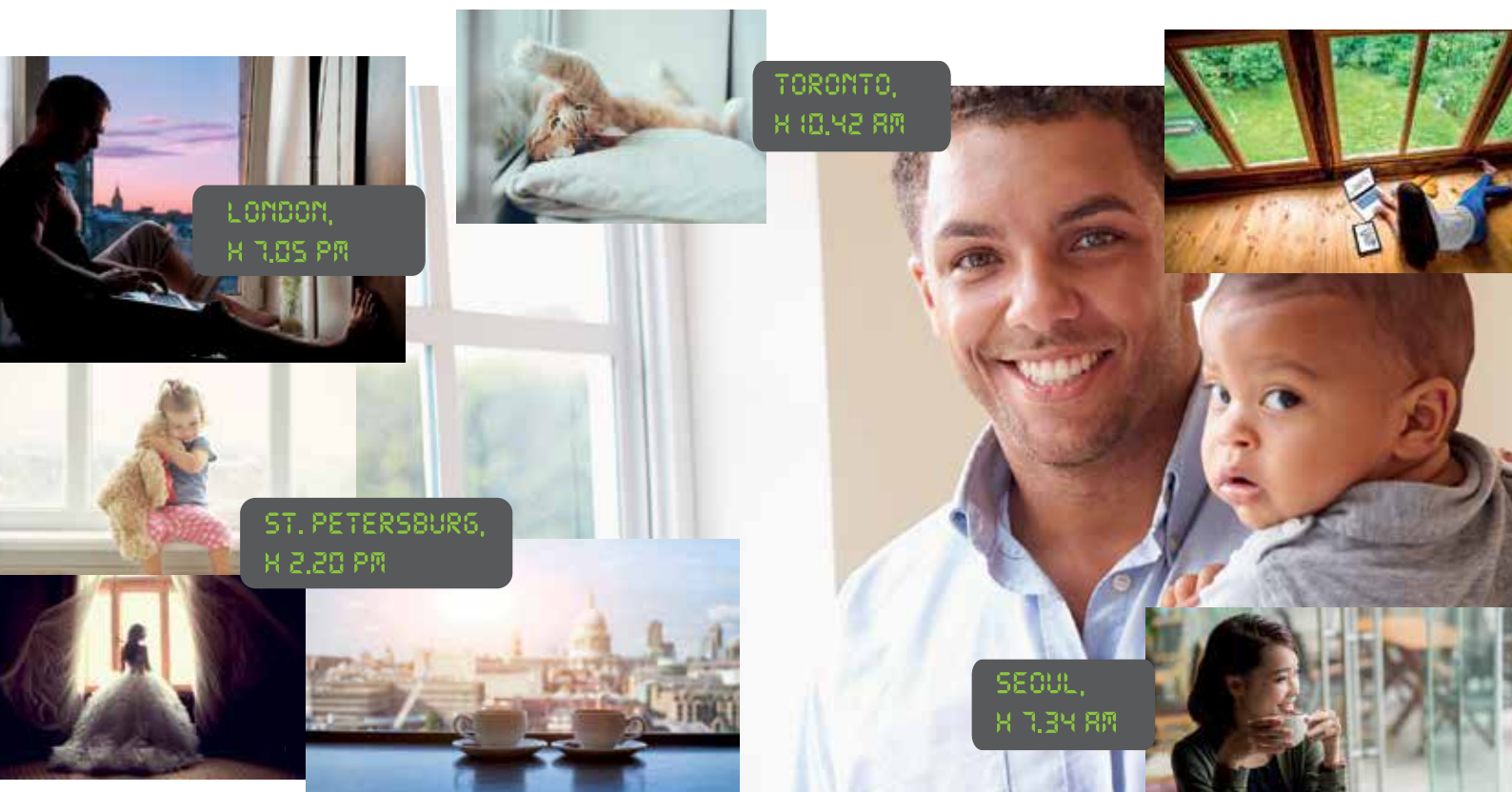
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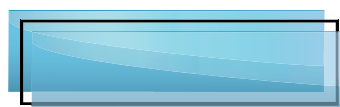
"During the first week in June, the containers started to arrive at our new 60,000 ft² facility. The assembly proceeded very smoothly, without any issues. The Glaston UK team of five persons got on with the work, requiring very little of our involvement during the process. This was especially helpful, since we could then continue to focus on running our business as usual."

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