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GLASS & GLAZING
ASSOCIATION

GLASS AUSTRALIA Official publication of the Australian Glass & Glazing Association

July 2018 – ISSUE 92

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GA18

GOLD COAST
29TH - 31ST
AUGUST 2018

GA Member Profile – Meet Nick Hughes – Clearview Windows page 8

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JH Glass – The Peak, glazed floor mounted door page 22

Saving the tools of the glass trade page 55



From the right: Andrew Smith, Darren Spencer, Barry Tennant and Robert Dyke from Independent Glass, with Ralph Staniforth from Glaston UK, standing behind, and Kalle Kaijane from Glaston Finland on the left.

Increasing capacity to remain a preferred partner

Independent Glass upgrades lamination with Glaston ProL-zone

“Integration is always the biggest risk when combining sections from two different manufacturers,” says Andrew Smith, Group Manufacturing Manager at Independent Glass. Speaking about his company’s recent upgrade, he continues: “The entire upgrade project with Glaston’s ProL-zone went very smoothly. We’ve now been able to increase our laminating capacity, run the line with flexibility and ease – and lower our energy consumption.”

Glaston is no stranger to Independent Glass. For over a quarter of a century, the laminating and glass toughening company has been investing in lines from Glaston for its three sites in Glasgow, Scotland, and the one in Mansfield, England.

In late 2016, the company decided to upgrade the lamination oven at its Mansfield location – which focuses on structural glazing, architectural glass and balustrades – to better serve the growing needs of their market.

“The first question was whether to retrofit the oven or to upgrade,” Andrew explains. “We looked at several options alongside of Glaston, but in the end, we decided to go with the advantages the ProL technology

could offer, rather than an infrared retrofit solution.”

INTEGRATION – KEY DECISION CRITERION

Integration of the new machine was a key concern for Andrew and his team, since the existing laminating line was from a different manufacturer. So he went to see another ProL-zone in Denmark with Glaston’s UK representative Steve Brammer. The trip offered exactly what Andrew wanted to see: Glaston’s ProL-zone working seamlessly with another manufacturer’s laminating line.

“We wanted to see how it worked as a whole. We were able to speak to the management and operators about their

experiences and how the integration process went. It appeared to be a well-constructed machine that runs smoothly,” he says.

SMOOTH AND TIMELY STARTUP

Watching how well the upgraded oven worked made the decision easy, and the order was placed. The upgrade from Glaston included the ProL-zone with a nip roller system for calendaring. In June 2017, the machine was commissioned with a positive startup.

It took just over a week to take out the old line and to install the ProL-zone into the upgraded line. Andrew mentions the fact that they had done a lot of preplanning to make sure everything went according to schedule. He also appreciated Glaston’s flexibility during that week, ensuring the installation process went well. “There’s never a perfect time to make such a change. Taking a line out of service is never easy,” he admits.

“Since lamination comes at the end of the process, integration is critical. You have to get it right. And I am very happy with how

smoothly the integration went," Andrew emphasizes. The upgrade was also well received by those working on the line.

BENEFITS FROM DAY ONE

Andrew says that his company has been receiving benefits from the upgraded machine since day one. The machine has been operating in an extremely reliable manner. The new line has achieved increased capacity, greater flexibility and ease of running.

Energy consumption, both in terms of usage and costs, is something that Independent Glass is very conscious of. "ProL is a low energy user, which we really appreciate," Andrew emphasizes.

"We've actually only needed one service to date," he says. "We feel it is a very reliable piece of equipment and is doing what it should."

COMPETENCE TO COMPETE

In Mansfield, the upgraded line has enhanced the group's main laminating facility. "And lamination is a major part of our future," Andrew points out. "The ProL now has increased our yield considerably, which means increased efficiency. This was one of our main objectives for the investment."



"The ProL now has increased our yield considerably, which means increased efficiency. This was one of our main objectives for the investment. Now we have the competence again to compete successfully in lamination."

— Andrew Smith, Group Manufacturing Manager at Independent Glass, UK

"Now we have the competence again to compete successfully in lamination. We're able to run our full product range through the lamination oven, from 9.5 mm laminates to triple-laminated glass. What's more, we've been able to use the full spectrum of the machine, including the nip rollers, to achieve greater flexibility and provide different types of products for our architectural customers."

Independent Glass has always aimed to be the partner of first choice for current and potential customers. Andrew says, "As a group, we now have the capacity and capabilities to achieve this goal."

Glaston ProL-zone



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"We're able to run our full product range through the lamination oven, from 9.5 mm laminates to triple-laminated glass. What's more, we've been able to use the full spectrum of the machine, including the nip rollers, to achieve greater flexibility and provide different types of products for our architectural customers."



President's Update

Greg Hunt – President

Welcome to the latest edition of GA magazine.

The AGGA/AWA Working Group has been meeting regularly, working on all aspects of the proposed merger. While it may not appear obvious, an enormous amount of work has been going on behind the scenes.

Current activities are:

- Completing the three year budget forecast for the merged entity
- Awaiting legal advice on the constitutional and legal aspects of all eight associations
- New Association name and Brand Mark
- Proposed new Membership Categories
- Proposed new Board and State Chapter Structures.

The budget forecast has been completed, and as soon as the legal advice has been received we hope to be able to provide all members with a detailed project plan for the merger.

Planning for our National Conference in August at Sanctuary Cove is progressing well. As mentioned in the last edition, we have secured some fantastic speakers, I am happy to announce that Kurt Fearnley has been added to the speaker list. Kurt is one of Australia's most well-known and respected athletes. At the 2018 Gold Coast Commonwealth Games, he won the gold medal in the Men's Marathon T54 and

silver in the Men's 1500 T54. He was also given the honour of being flag bearer at the closing ceremony. He is a truly inspiring speaker.

I encourage everyone to register now. We are also offering a great deal for day delegates, members and non-members on the last day of the conference. For \$100.00, you get to hear Shane Webcke talking about his own personal experiences with WH&S, Kurt Fearnley on 'What it's like to be an Olympian,' Professor James Laurenceson providing his view on the Economic Outlook for our Industry, a panel discussion on 'AGGA the Future' as well as morning tea and lunch. This is a great opportunity for businesses in Southeast Queensland to be part of our 2018 Conference.

David Robertson has also been travelling all over the country recruiting for our Accredited Company and Master Glazier Programs. I am pleased to announce that we now have over 60 Accredited Companies, 89 Master Glaziers and 26 Certified Glaziers – a fantastic effort, Dave!

Once again, I would like to thank all the AGGA staff, AGGA Board Members and State Presidents and Committees for their contributions, and I look forward to seeing you all at our Conference in August.



CEO Update

Will Walker – CEO

With June just having passed, we've seen the end of accreditation on a state-by-state basis. As of July 2018, the only accreditation system is the AGGA Accredited Company Program (ACP). When members wish to renew their accreditation, they will need to have all four pillars completed: Safety, Compliance, Technical, and Skills.

Contact Dave Robertson for any help you need to complete your pillars and join the ever-growing number of AGGA Accredited Companies. The ACP is important for raising the profile of member companies and of glazing as a trade, and provides a business advantage to member companies separating them from the mass of less reputable operators that work in our industry.

Though it's sometimes not obvious to members, ACP advocacy and lobbying take place constantly, and as the program advances there will be more energy promoting Accredited Companies in comparison to competitors.

As often pointed out, the AGGA staff are there to serve members, and we welcome your calls. When you need to call, your staff are:

Nancy – general enquiries and first point-of-call

Julie – new membership and change of details

Jane – marketing, events and communication

John – glass labels, all invoicing

Patrick – training, Master/Certified Glazier programs

David – Accredited Company Program, safety, technical enquiries

Will – Accredited Company Program, safety, and anything else...

Enjoy this issue, and I'm looking forward to seeing you at GA18.

Glass & Glazing

Industry Events Calendar 2018

AUGUST 2018

29-31 GA18
Gold Coast, Australia

SEPTEMBER 2018

12-14 GLASSBUILD
Las Vegas, Nevada

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

JANUARY 2019

30-31 GLASSMAN ASIA
Jakarta, Indonesia

Contributors

Hannah Blackie, Jane Docherty,
Mark Forbes, Patrick Gavaghan,
Greg Hunt, Jill Johnson, Tim Roberts,
Will Walker.

Photography: Phillip Biggs and
Courtesy of JH Glass, Ludim
Photography, Destination Gold Coast
and InterContinental Sanctuary Cove.

This month's cover

This month's cover features our conference venue for GA18, the recently refurbished Great House on the grounds of Sanctuary Cove. With a dramatic stained glass window and imposing staircase, the Grand House is surrounded by 4.2 hectares of lush landscaped gardens and a breathtaking beach lagoon. A stunning venue and destined to be a memorable event.

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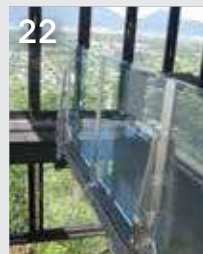


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AGGA EXECUTIVE BOARD MEMBERS

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)

Multi-State Glass Processors

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

Local Glass Manufacturer

Mr Peter Moeller, Viridian

State Association Representatives

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

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CSI	Lincoln Sentry
Chevron Glass	Lisec Aust P/L
Clark Windows Tasmania	Melbourne Safety Glass
Cooling Brothers	Modern Glass
Dargavel Windows	National Glass
Dreamhaven Glass	Oneglass Pty Ltd
Edgetech	Overseas Glass Agencies
Efficient IGU	Thermal Insulated Glass
Elegant Glass Supplies	Viridian
Flat Glass Industries	Walshs Glass
George Fethers	Winsulation Glass
G.James Aust P/L	

Editor's Notes

Welcome to our July edition of GA – Nick Hughes from Clearview Windows in Tasmania features as our lead profile in this edition. As a young man, in his early 20's, Nick took a gamble and is now reaping the rewards. Hard work, a couple of great mentors and a skilled team working with him have helped pave Nick's way to success.

Our two case studies are remarkable projects and highly deserving of the accolades received in the AGGA 2017 Design Awards. John Hyde's (QLD) glass installation – The Peak at Queensland's Park Ridge and Alistair Black's (GlassPower WA) installation at the Mediterranean Shipping Company. Both projects were engineered to meet exceptionally challenging design briefs.

GA18 is nearing, and in this edition we feature all the speakers, conference program highlights and more on the packed social program. This year's conference is very likely to be the final one for the AGGA, so we ask you all to book now to secure your place to celebrate this important industry event. Sanctuary Cove Resort assures us of a world-class conference venue, true Queensland hospitality and an event to remember.

Enjoy the read – as always, we welcome your feedback.

Jill

AGGA NATIONAL MEMBERS

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Bremner Glass Equipment	03 9706 4432	Viridian	1800 810 403
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LiSEC Australia Pty Ltd	02 9485 8900	AGGA Tasmania	03 8669 0177
Lincoln Sentry Group	1300 551 919	Glass & Window Assoc'n WA	admin@gwawa.org.au
Melbourne Safety Glass	03 9579 3844	AGGA National Office are now able to respond to any member queries. Please call 03 8669 0170.	
National Glass	07 3131 3581		

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Taking a Clear View of the Future

> Text by Tim Robert, Photography by Phillip Biggs

Sometimes, a straight story of hard work speaks volumes. This is the case with Nick Hughes, CEO of Clearview Windows (and Vice-President of the Tasmanian Glass and Glazing Association), who has been running his vibrant Launceston-based company for the past four years. This emerging industry figure shares his own story while expanding on his motivations, challenges and predictions.

As a freshly minted apprentice, Nick – just 23 at the time – decided to jump right in by taking on a management role. 'I purchased Clearview Aluminium Windows and Doors on 1 September 2014, which had seven staff originally,' he begins. 'I've now been running it for a little over three and a half years. We've had a few staff changes, but most of the core team has remained.'

The decision to become a glazier was a major change from his family's chosen profession. 'I was accepted into an Education degree after finishing Year 12, but decided not to pursue it,' he notes. 'Becoming a glazier was markedly different from my family's path – my sister's a teacher, and both parents are as well.'

Nick was initially undecided on his career pathway. He was sure that he didn't want to pursue university studies, and considered various trade apprenticeships. Finally choosing a glazing career, Nick did exactly what it took to get there. 'I started my glazing apprenticeship in 2008, which I completed in two and a half years instead of the

regulation four,' he says. 'Working mainly in commercial, I worked really hard and got my assessments knocked over really quickly. During this time, I also completed a Diploma of Business Management and a Diploma of Human Resource Management at TAFE. After a few years, I resolved to buy Clearview, which specialised in residential.'

The life of a glazier suits Nick well. 'I really enjoy going to work, because every day is different,' he reflects. 'We've got a talented group of people at Clearview, and I get a lot out of working closely with staff and consulting with customers.' As a problem-solver who's always wanted to forge his own pathway, taking on Clearview turned out to be the perfect decision for him.

Assuming the management position required extensive self-education on the job. 'It was a steep learning curve, definitely,' Nick remembers. 'Fortunately, I had a really strong group of mates supporting me when I was getting everything off the ground. (One was my accountant and my solicitor, and another great support was Pat Pittorino of Bradnam's). I was lucky to be surrounded by knowledgeable and supportive people, qualities which also define the glazing community in Tasmania.'

The jobs taken on by Clearview Glass are a mix of heritage and modern buildings. 'As licensees of Bradnam's Aluminium, our main line is in residential windows,' Nick says. 'We also pull out old timber windows and

replace them with aluminium ones, as well as architraving, flashings and weatherboards. To complement our residential work, we occasionally do commercial projects.'

Nick enjoys the variety. 'We've done some pretty interesting jobs over the few years,' he says. 'A particularly memorable one was a mountain bike centre in Derby, located right in the middle of the bush. We supplied windows and doors for the facility's communal areas, kitchens and sleeping facilities, as well as windows and stacking doors.'

Many technological developments in glazing have taken their time to get to Tasmania, but Nick believes they are finally making their mark. 'We're really starting to see an increase in the use of low-E glass here,' he confirms. 'Victoria has been using low-E for a fair while, but it's only just started its rise here. After being featured in commercial applications, it's starting to spread to residential.'

Nick is happy with his company's agile nature. 'You can end up creating a bit of a monster if you take too many people on board, so I was determined not to do that,' he says. 'I know all my staff very well, and believe that Clearview Windows has benefited from our distinctive touch.'

Tasmania's current economic boom has substantially increased the industry's scope. 'There's plenty of work for glaziers in Tasmania right now,' Nick confirms. 'Since I started running the company over three years ago,

→

A man with short brown hair and a beard, wearing a red polo shirt with a small logo on the chest, is working in a workshop. He is holding a piece of glass or a tool over a workbench. A green and black power drill is visible on the workbench. The background shows various metal frames and structures.

Many technological developments in glazing have taken their time to get to Tasmania, but Nick believes they are finally making their mark.



(Clearview Windows – continued)

the work has been constant. With everything that has been happening in Hobart, it has now started to spread north, and the state could currently do with more skilled tradespeople to do all these jobs!

According to Nick, Tasmania's glazier shortage may lie in the industry's lower profile compared to some other trades, which suggests that glazing has plenty of room to grow in terms of recognition. 'I'm not sure of the reason, but glazing as a trade is not as prominent as building, plumbing and electrical here,' Nick observes. 'The industry needs to be promoted in school and TAFEs. If students are training to be apprentices, it's important that they're aware of glazing as an option.'

As the hiring process is a big step for any manager, confidence in new talent is essential. 'Employers who take on an apprentice are essentially taking a punt that

'You've got to find the right person to guide through each stage of their professional development, so we're heading toward a big skills shortage if we don't start recruiting people in greater numbers.'

it's going to work out,' Nick reflects. 'You've got to find the right person to guide through each stage of their professional development, so we're heading toward a big skills shortage if we don't start recruiting people in greater numbers.'

While generally sticking close to his home town of Launceston, Nick has a packed life. 'I coached reserves footy last year, and always enjoy socialising and travel; my partner Meegan and I also like to fit in a few mainland trips as well,' he concludes.

With a full roster of achievements at such an early age, Nick's destiny looks assured. **GA**



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: Engage : Connect : Experience :

Countdown to GA18

The GA18 Conference to be held at the luxurious Sanctuary Cove Resort, once again brings together an illustrious range of major worldwide glazing figures who are keen to share their valuable insights into what makes our complex industry tick. With technology rapidly progressing, efficiency soaring, and glazing featured in increasingly innovative applications, the industry is eagerly embracing positive change.

This much-anticipated annual event unites industry members, suppliers and key stakeholders for a meticulously planned three-day event, giving all attendees the chance to learn from and converse with the worldwide glazing industry's leading lights.

An unforgettable setting

GA18 will take place in one of Australia's most picturesque settings. The Conference is to be held at the InterContinental Sanctuary Cove Resort, a world of tranquillity within a private sanctuary on the northern end of the Gold Coast.

InterContinental Sanctuary Cove Resort reflects the grand, graceful architecture of a classic Queensland estate, nestled within

the beautiful surrounds of Sanctuary Cove. The elegant, recently refurbished Great House welcomes visitors into the Resort with a dramatic stained-glass window and grand staircase, surrounded by 4.2 hectares of lush landscaping and a breathtaking beach lagoon.

World-class conference facilities

The InterContinental's conference facilities are unrivalled. Unique spaces, distinctive style and five-star service define the InterContinental difference. Attendees will dive into a world of possibility with 15 diverse meeting and event spaces, each showcasing a unique pocket of the resort – from the lagoon sands to the versatile woolshed building, which has been strikingly renovated for today's needs.

CONFERENCE PROGRAM HIGHLIGHTS

GA18 Social Events

Every GA conference offers the opportunity for attendees to enjoy the company of other professionals and share insights against a spectacular backdrop and the InterContinental is no exception. A series of carefully planned events unfolds over three

days, giving all attendees an experience to remember.

Wednesday 29 August

AGGA Annual Golf Tournament proudly sponsored by Glaston

This year, we are genuinely privileged to have the chance to play at the Palms Golf Course at the Sanctuary Cove Golf and Country Club. The Palms is a championship course on par with Australia's best – it is ranked in Australian Golf Digest's Top 50, with tee placements designed to suit a variety of playing conditions. The Palms respectfully encapsulates the game's rich landscaping traditions, with distinctive holes, deep greenside bunkers and boldly contoured greens.

Wednesday 29 August

GA18 Welcome Reception proudly sponsored by Eastman

The GA18 Welcome Reception will be held in the exhibition area, at MacArthur Terrace. On opening night, take this opportunity to catch up with familiar faces and make new

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Casual Dinner & Exhibitors





friends while enjoying a delicious selection of canapes and drinks. The Welcome Reception is much more than a social event – all the major industry figures attending the conference will be making an appearance here, so it's your perfect chance to meet all those who are truly in the know.

Thursday 30 August

GA18 Casual Dinner proudly sponsored by Elegant I.G and LISEC

The GA18 Casual Dinner will take place at the resort's show-stopping beach lagoon.

Be prepared to kick off your shoes, feel the sand between your toes and totally relax and enjoy the sights and sounds of Sanctuary Cove Resort's stunning centrepiece. With



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> Tim 'Rosso' Ross GA18 MC

local craft beers, sangria pitchers, fresh juices and delicious cuisine, the poolside dinner will offer lasting memories.

Friday 31 August

Awards Gala Dinner proudly sponsored by Viridian

A consistent highlight of each year's GA conference is the Awards Gala Dinner, which celebrates the many achievements of our industry. The Awards Gala Dinner is a time to recognise the illustrious achievements of our industry's recent standouts, who will inspire others to achieve their best. This is the place where those who live and breathe glazing take pride in acknowledging our industry's eminent examples of excellence.

Presentation of the AGGA Design Awards kick off the event, covering a range of categories with entries from all states, including Best Commercial Project and Best Residential Project. The Awards Gala Dinner will showcase all state finalists, culminating in the announcement of the National Design Awards, the National Safety Award, and the National Apprentice Award winners. With so many talented and creative glaziers across Australia today, the AGGA Awards are much anticipated.

Tim 'Rosso' Ross is one of the Australian entertainment industry's true multi-talented performers - recognised widely for his dry, clever, intelligent life commentary. Best known for his work on TV and radio, Comedian Tim Ross also has a long-standing passion for architecture and design.

Over the last six years, he has performed his live Man 'About the House' show exclusively in architecturally-significant buildings and homes that he turns into temporary theatres. AGGA are delighted to announce Tim Ross will MC our GA18 Awards Gala Dinner, proudly sponsored by Viridian.

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

Welcome Reception

EASTMAN

National Apprentice Award



National Safety Award & Exhibitor



Delegate Bag & Exhibitor



Coffee Cart



Conference Lunch



: Engage : Connect : Experience :

Meet the Speakers

This year's conference boasts a peerless selection of speakers hailing from a range of backgrounds, from politics to athletics, engineering to academia. Offering insights gleaned from every sphere of life, this group of speakers will motivate, challenge, provoke and inspire with their unique observations and clear-eyed reflections.



Honourable Mick de Brenni MP



Kurt Fearnley OAM



Professor James Laurenceson

Honourable Mick de Brenni MP

The Hon Mick de Brenni has been the Labor member for Springwood in the Queensland Legislative Assembly since 2015. As Minister for Housing and Public Works in the Palaszczuk Government, his responsibilities include building and plumbing standards, housing, communication technology policy and planning, sports and recreation. Mr de Brenni's prior positions including Queensland Council of Unions (QCU) Campaign Director, Assistant Secretary United Voice, TCFUA Industrial Officer, Health and Community Workforce Council Member, and National Aged Care Committee Member.

Kurt Fearnley OAM

Kurt is one of Australia's most respected athletes. At the 2018 Gold Coast Commonwealth Games, he won gold in the Men's Marathon T54 and silver in the Men's 1500 T5, and was chosen as flag-bearer for the Closing Ceremony. Winner of numerous international marathons (including New York five times), Kurt has won four consecutive Paralympic Marathon medals. He was also a winning crew member of the Sydney to Hobart Yacht Race, and is renowned for crawling the gruelling 96km Kokoda track. Kurt is active in various charities as a board member, patron and ambassador.

Melissa Greenall

Mell is the Executive Director of the Queensland chapter of the Australian Institute of Architects. With a Bachelor of Sustainability and a Master of Business Administration, she works closely with the Institute's members in advocacy and engagement. Holding positions on various State government panels, Mell firmly believes in industry's significant role in advocating for members and recognises the significant impact of legislative reform and policy development.

Professor James Laurenceson

Professor Laurenceson is Deputy Director of the Australia-China Relations Institute (ACRI) at UTS. He has held appointments at the University of Queensland, Shandong University (China) and Shimonoseki City University (Japan). His research has been published in major journals including the *China Economic Review*, and his articles on the Australia-China relationship have appeared in the *Australian Financial Review*, the *Sydney Morning Herald*, the *South China Morning Post*, and many others.

Peter Moeller

Peter joined CSR as Executive General Manager of Viridian in September 2012. Previously Managing Director of Saint-Gobain Glassolutions (Scandinavia) and European

Marketing Director, Windows (Denmark), Peter has extensive glass industry experience, having worked for Saint-Gobain for over 20 years. He has a detailed understanding of technology, product innovation and development, and channel management. Peter is a Board member of the Australian Glass and Glazing Association (AGGA) and the Australian Windows Association (AWA).

Kerryn Coker

Kerryn is the Architectural Engineering Leader of a specialist group of façade and environmental engineers. She led the



Peter Moeller

**One Day
Only!**
31/8/18
**Super Special
Rate**

AGGA are offering a Super Special One Day Conference Rate for the final day of GA18 on Friday 31st August 2018.

For \$100.00 register for your chance to hear:

- **Shane Webcke** give his powerful personal experience presentation on workplace safety
- **Professor James Laurenceson** providing his view on the economic outlook for our industry
- Gain inspiration from Gold medal winning **Kurt Fearnley** on life as an Olympian

Lunch & Morning Tea are included in this special registration offer.



Kerryn Coker



Axel Demberger



Dave Clare

successful implementation of the double skin façade on 1 Bligh Street Sydney, and leads the NSW Buildings Group's Architectural Engineering team, bringing together façade design, building upgrades, remedial diagnostics, materials expertise, sustainability and physics expertise. As a façade engineer, Kerryn's passion for innovative sustainable design runs deep. She developed the façade design on several notable projects for Arup, London, returning to Sydney in 2007 to lead the façade consultancy service as Design Manager.

Axel Demberger

Axel Demberger has over 25 years' experience in the construction industry and is currently 'Market Development Manager – EMEA' for Advanced Materials Interlayer at Eastman Chemical Company. Axel has worked for Kömmerling, CAS and Solutia, and served 12 years as CEO of Advanced Design Vision. In 2014, he won the German 'Vor Ort' Design Award for Best Architectural Project. He works on innovative PVB interlayer solutions to increase safety, comfort and sustainability.

Shane Webcke

Shane is a farmer, family man, businessman, author, news presenter, safety ambassador, speaker and former professional footballer, renowned as one of the world's best front-rowers. Shane represented Queensland on 24 occasions and Australia in 26 tests, playing for the Brisbane Broncos for twelve years. He takes his work ethic from the football field to his farm in Southern Queensland, balancing family life with his professional career with Channel 7 News.

Dave Clare

For over 20 years, Dave has worked to facilitate personal and organisational change. His clients seek ways to increase employee engagement and empowerment, and Dave assists them in building a creative

and innovative culture. Dave does not consider himself a specialist, a guru, an expert or a thought leader. He is a leader for a new generation of purpose-driven leaders striving to create meaningful work, unleash innovation and develop tomorrow's leaders.

Paul Hendy

Paul started his professional career as an industrial designer working for UK-based companies specialising in capital goods and leading-edge electronics. The move to Australia in 2006 was driven by a desire to return to design, and in 2008 Paul graduated with a Master of Architecture. Energy-efficient homes were a natural progression – TS4 was created in 2008, winning the 2012 Zero Carbon Challenge with Australia's first designed and built Zero Carbon Home. Paul's approach unites European heritage with extensive knowledge of building, design and architecture.

Domenic Chirico

Domenic is currently working for Sunland Group as the company's Development Director, based out of the Brisbane Head Office. Domenic's career in Architecture spanned over 25 years before he joined Sunland in 2005, originally as the Design Manager. He has been responsible for several notable projects at Sunland.



Shane Webcke

: Engage : Connect : Experience :

GA18 Conference Program

TUES 28 AUGUST

TIME	ACTIVITY	LOCATION
5.00pm – 9.00pm	Presidents Meeting & Dinner	Garden Lounge

WEDS 29 AUGUST

TIME	ACTIVITY	LOCATION
09.00am – 12.00pm	AGGA Board Meeting	Garden Lounge
12.00pm – 5.00pm	AGGA Golf Tournament – sponsored by Glaston	Sanctuary Cove Golf & Country Club
6.00pm – 7.30pm	WELCOME RECEPTION – sponsored by Eastman	MacArthur's Terrace
7.30pm – 11.00pm	FREE TIME	Opportunity to explore local restaurants at Sanctuary Cove Marina

THURS 30 AUGUST

TIME	ACTIVITY	LOCATION
08.00am – 09.00am	Registration	MacArthur's Ballroom
09.00am – 09.15am	Welcome & overview of the conference program Will Walker – CEO AGGA	MacArthur's Ballroom
09.15am – 09.30am	Welcome address & AGGA's Year Ahead Greg Hunt – President AGGA	MacArthur's Ballroom
09.30am – 10.15am	Keynote Speaker - Hon Michael de Brenni MP Minister for Housing and Public Works, Minister for Digital Technology and Minister for Sport	MacArthur's Ballroom
10.15am – 10.45am	Glass Industry Update Peter Moeller – Executive General Manager, Viridian	MacArthur's Ballroom
10.45am – 11.15am	MORNING TEA & EXHIBITION	Terrace
11.15am – 12.00pm	What's hot? What's Not? Advanced Design and Materials. Axel Demberger – Market Development Manager, Eastman Chemical	MacArthur's Ballroom
12.00pm – 12.30pm	Trends in architecture and the use of glass Melissa Greenall – Executive Director Australian Institute of Architecture	MacArthur's Ballroom
12.30pm – 1.00pm	Facades – What's new and what's next? Kerryn Coker – Principal, Architectural Engineering Team Leader, Arup	MacArthur's Ballroom
1.00pm – 2.15pm	LUNCH & EXHIBITION – sponsored by AGC Flat Glass Asia Pacific	Terrace
2.15pm – 2.45pm	Sustainable Design For Future Homes Now Paul HENDY – TS4 Living Founder	MacArthur's Ballroom
2.45pm – 3.15pm	Bringing It All Together – The Abian Project Case Study Domenic Chirico – Sunland Group	MacArthur's Ballroom
3.15pm – 3.45pm	Leadership In A Disruptive World Dave Clare – The Prophet For Purpose	MacArthur's Ballroom
4.00pm – 6.00pm	EXHIBITION & NETWORKING DRINKS – Exhibition and Networking Drinks – sponsored by G.James	Terrace
6.00pm – 7.00pm	FREE TIME	
7.00pm – 10.30pm	CASUAL DINNER – sponsored by LiSEC/Elegant I.G.	Beach Lagoon



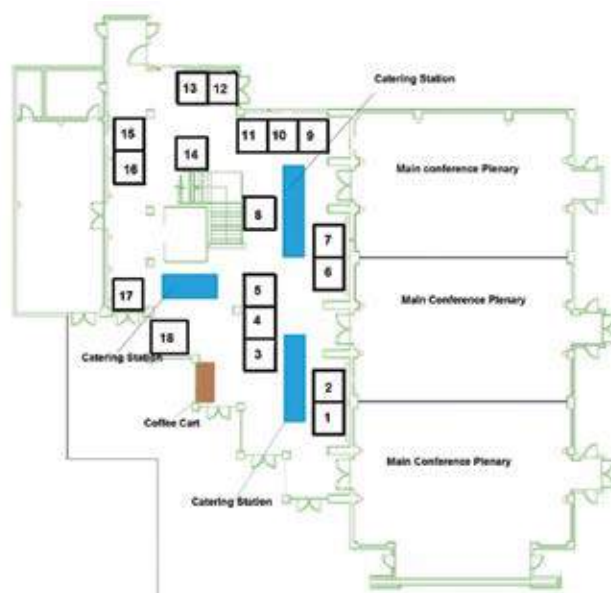
FRIDAY 31 AUGUST

TIME	ACTIVITY	LOCATION
07.30am – 08.30am	Apprentice Breakfast – sponsored by MEGT	Garden Lounge
09.00am – 09.30am	AGGA Annual General Meeting	MacArthur's Ballroom
09.30am – 10.00am	IGMA General Meeting	MacArthur's Ballroom
10.00am – 10.15am	Welcome to Day 2 of conference Will Walker	MacArthur's Ballroom
10.15am – 10.45am	The Economic Outlook for the Industry Professor James Laurenceson, Deputy Director, University of Technology, Sydney	MacArthur's Ballroom
10.45am – 11.15am	MORNING TEA & EXHIBITION	Terrace
11.15am – 12.00pm	AGGA The Future! Panel and Q&A	MacArthur's Ballroom
12.00am – 12.45am	Why safety is paramount Shane Webcke	MacArthur's Ballroom
12.45pm – 2.00pm	LUNCH & EXHIBITION (last chance to visit exhibition)	Terrace
2.00pm – 2.45pm	What's it like to be an Olympian? Kurt Fearnley	MacArthur's Ballroom
2.45pm – 3.00pm	Conference wrap up and thanks Will Walker & Greg Hunt	MacArthur's Ballroom
3.00pm	END PROGRAM	MacArthur's Ballroom
3.00pm – 6.00pm	FREE TIME	
6.00pm – 7.00pm	PRE AWARD DRINKS	MacArthur's Ballroom
7.00pm – late	GALA AWARDS DINNER – sponsored by Viridian	MacArthur's Ballroom

* The GA18 conference program was accurate at the time of print. Please log onto the AGGA website to view any recent updates.

GA18 Exhibition

The GA 18 trade show and exhibition is another sell-out at this years' event. With new technologies and innovation being the driving force for our industry, our annual exhibition and trade show continues to be the draw card for many attendees. GA18 will again host a diverse group of exhibitors and the conference program has been developed to allow attendees an extended time in the exhibition hall to engage, connect and experience the event.



BOOTHS

- Booth #1 – Glaston
- Booth #2 – Glaston
- Booth #3 – Viridian
- Booth #4 – Viridian
- Booth #5 – Landglass
- Booth #6 – OGA
- Booth #7 – OGA
- Booth #8 – G.James
- Booth #9 – LISEC
- Booth #10 – Elegant I.G.
- Booth #11 – Lincoln Sentry
- Booth #12 – NFK
- Booth #13 – BGE
- Booth #14 – InterMac
- Booth #15 – Workcover QLD
- Booth #16 – A+W Software
- Booth #17 – CR Laurence
- Booth #18 – RadSafe

Thank you to our GA18 Exhibitors



Peerless Materials Create a Design Tour-de-Force

> Text by Tim Roberts, Photography courtesy of Simon Cowling

The spectacular renovation of Fremantle's Mediterranean Shipping Company headquarters has received widespread acclaim, both for its unique aesthetics and its inventive utilisation of Sika's high-performance materials in combination with advanced glazing. Three professionals involved with this landmark project recount the triumphant rejuvenation of a heritage gem.

Alistair Black – AGGA member, CEO of GlassPower, and the project's Chief Glazier – explains how the project was conceived. 'The Mediterranean Shipping Company wanted to locate their base in a port city, and eventually chose Wilhelmsen House in the heart of Fremantle's heritage listed West End,' he begins. 'It's one of the most stunning heritage buildings in Fremantle.'

After the site was chosen, Slavin Architects was selected to design the headquarters of two internally linked structures. 'Wilhelmsen House adjoined a vacant carpark, on which the headquarters' steel-framed glazed annex was constructed,' says Alistair. 'Construction of both the annex and refurbishment of Wilhelmsen House called for highly advanced glazing systems.'

Designing a major facility located in this historic area required a sensitive touch. 'The heritage listed Wilhelmsen House is one of the most historically important nineteenth-century precinct

buildings in Fremantle's West End,' explains Bill Coe, Director at Slavin Architects. 'The design process extensively referenced the City's Conservation Policy and the Burra Charter to ensure a sympathetic development that enhanced and preserved its historic setting.'

Designing a contemporary structure in a heritage-listed precinct presented the architects with a unique set of challenges. 'Reflecting the significance of Fremantle's historic precinct, it was critical to design the Annex as infill that supports and promotes the heritage values of its surrounding buildings without mimicry,' Bill confirms. 'For example, a transparent glass curtain wall was chosen for the façade as it does not detract from, or compete with, heritage detailing of adjacent buildings.'

Key to this ambitious project's success was Sika, manufacturer of advanced adhesives, sealants and building materials. 'Our company supplies to many different industries and markets, and we've developed productive business relationships with a range of architects,' confirms Kristopher Webb, Target Market Manager – Industry for Sika Australia.

'Slavin Architects approached our team, explaining that they were moving away from structural very high bond adhesive tape to silicone in their structural glazing applications, and were interested in what we could offer,' Kristopher says. 'They subsequently engaged us to advise them on the use of structural silicone in structural glazing design.'

Sika duly provided Slavin Architects with comprehensive support. 'Our local laboratory testing of substrates is a service offered free of charge for projects,' says Kristopher. 'We make a point of offering high-level testing to reassure our customers that the results will surpass all standards. Having been in Australia since 1976 and globally since 1910, we can draw on our extensive experience in this market.'

'In consultation with Sika's engineers, we developed a detail for bonding the glass to the steel frame,' Bill notes. 'In order to test performance of the detail, we commissioned a prototype of the glazing frame – including the mullions and steel glazing legs – which was also treated with the specified protective steel coatings. We supplied Sika with a sample of the specified glass type, which allowed them to test adhesion of the glass to the steel frame using their products.'

→



2017 Winner
AGGA Western Australia –
Commercial Under \$50K

CASE STUDY (GLASSPOWER)



(GlassPower – continued)

'We used the architect's prototype to test the glass and two-pack epoxy-painted steel frame with various surface preparation products and processes prior to installation to ensure adhesion could be achieved,' Kristopher adds. 'Detailed information was gathered and sent to our team in Switzerland, who returned exact specifications on the minimum adhesive dimensions (the minimum amount of silicon to be used between frame and glass). We suggested using Sikasil SG-20 – Sika's premium single-component structural glazing engineering silicone – for the façade, and weatherproof Sikasil 305CN was recommended as a weather seal.'

'Sika's expert feedback also helped us to design the steel mullions as finely as possible,' says Bill. 'Using steel for the windows enabled us to use the façade for both structural support and sun shading. Radial steel fins shade the interior of the building while also responding to the deep window reveals, arches and verandas of the adjacent buildings.'

Picking up the story of this mammoth task, Alistair expands on his company's involvement in the complex glazing process. 'Attaching each window without structural tape was highly involved,' he says. 'We normally use medium-density tape behind the façade to hold the silicon while it cures, but this was more difficult. Instead, we separately clamped every irregularly sized piece in the façade (over 50 in all!) – templating each one to ensure that all components were perfectly spaced.'

'Viridian SolTech™ glazing was used throughout the project, which was toughened and heat-strengthened for maximum durability,' Alistair expands. 'The specified protective treatment for the steel façade was a three-part system: a zinc-rich primer, a high-performance two-pack epoxy undercoat, and a high-gloss top coat selected for its colour retention and performance in marine environments.'

For the glazier, the process of completing the complex façade resembled a giant jigsaw puzzle. 'Fitting the pieces took forever,' Alistair remembers. 'Even with six workers, it took months to meet the designer brief. We did most of the glazing work from a boom lift to gain road access, which created a traffic management nightmare!

'Carefully twisting each piece off the boom lift, then painstakingly steering it around the steel awnings jutting from the building, was also extremely difficult,' Alistair continues. 'Even glazing six panels at a time with liberal use of clamps, the job took two months.'

'The annex used internal steel windows, with a steel-framed glass lift shaft running up the building's centre,' says Alistair. 'Craning those panels into the roof area was very difficult in the strong Fremantle wind ... but although it sometimes felt like a "renovation nightmare", everyone on the team pulled together. The architect loves the results, as the silicon finish was exactly to his specifications. We have utmost respect for Sika's products, which performed perfectly throughout.'

Feedback for this inventive dual structure has been overwhelmingly positive, with the structure picking up two accolades at the Architecture Institute awards, including the 'Innovation in Steel' category and a commendation in the 'Sustainability' category. The landmark has even become a popular Fremantle wedding photo destination – a ringing endorsement for this heritage project, which inventively uses Sika's ultra-high-performance materials to their full capacity.

Alistair wraps up his retrospective by speaking enthusiastically about this once-in-a-lifetime project. 'It's not often you get to glaze a project that demands such a wide skill set in so many different areas,' he says. 'The Mediterranean Shipping Company project provided us with a myriad of glazing challenges, particularly the manoeuvrability and versatility demanded to ensure each one of those carefully crafted panels was perfectly aligned and sealed.'

'The façade is a seamless integration of modern materials with creative design principles, and the whole team worked tirelessly to achieve the beautiful result clearly visible in the photographs. We're extremely proud of our role in this beautiful renovation, as well as our work with Sika and Slavin Architects. It's extremely gratifying that the people of Fremantle agree.'

Don't miss the opportunity to visit Fremantle and see this creative fusion of heritage and modern technology for yourself. **GA**

Australian Insulated Glass have Grown into a Gold Coast Success Story

Owner Phil French had run glass businesses in the United Kingdom before arriving in Australia and setting up AIG in 2013. 'I saw an opportunity to introduce specialised customised double-glazed units, there was a gap in the market,' said Phil.

During start up and the build phase of his business Phil decided to invest in glass processing technologies for more operational flexibility.

'From the UK I knew the LiSEC brand and the solutions they could provide, I knew they were the supplier for me.'

In 2016 LiSEC installed a base float cutting table at AIG. 'It gave us real control over our day to day glass cutting needs, and accelerating our response time to meet our customers' delivery schedules,' Phil said. 'We could improve our glass pricing, it boosted our competitiveness as well as our bottom line.'

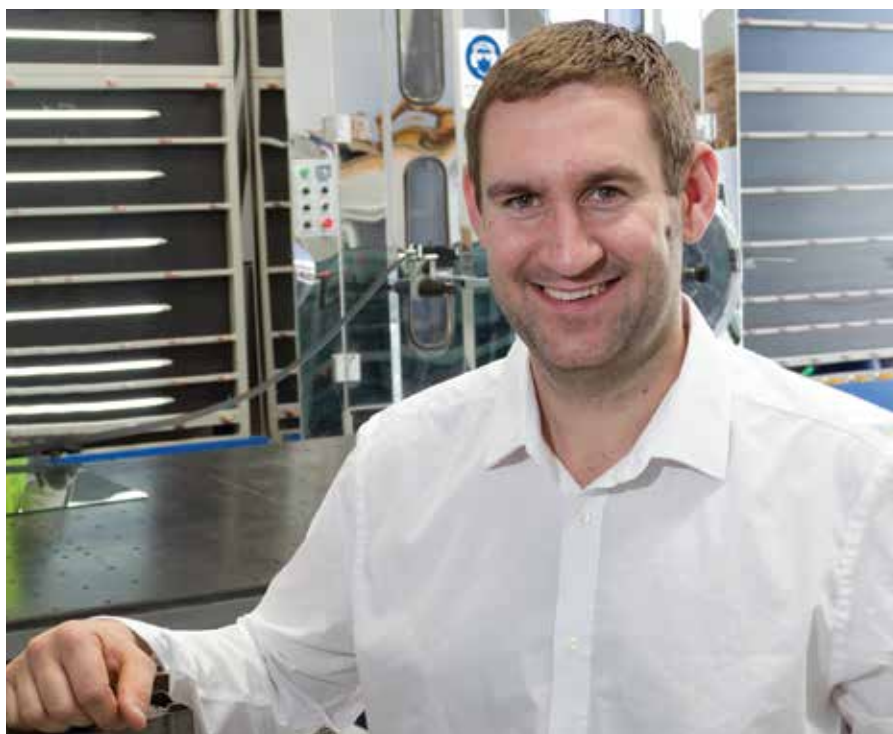
AIG recently purchased a LiSEC base Mix system for manual secondary sealing IGU's, adding another level of precision, efficiency and flexibility to the business.

'What I get from LiSEC is peace of mind, dependability and reliability, so I can just focus on growing the business,' he said. 'Their machinery has improved our efficiency and capability, it's opened up new markets for us.'

'LiSEC is a customer-focused machinery supplier, and we are a customer-focused glass business. Their equipment has allowed me to develop a more aggressive growth program.'

Sandro Ianni, General Manager of LiSEC Australia, said he sees clients like Phil more as partners than customers. 'We want to work together to grow businesses, we share a focus on the customer,' he said. 'LiSEC provides the tools to deliver quality, excellence and innovation.'

In 2017 AIG launched IG Blinds, an internal blind system, designed in Italy, but now manufactured by Phil's team in Australia. AIG



is also developing a new fire rated IGU to meet Australia's tougher building fire regulations.

Phil said AIG can also manufacture IGUs in pretty much any shape to meet individual design briefs and thermal performance ratings. 'Whatever the customer needs,' he said. AIG have now supplied customised IGU's, and Internal Blind systems to every state Australia-wide, including the popular colonial bar IGU glazing systems.

Phil has recently expanded into new premises which will allow him to develop and grow new products as well as expanding his current lines. He has also skilled up his eight staff with training programs to ensure a highly skilled production and customer service team.

AIG is also a proud member of the Insulated Glass Manufacturers Association, and the AGGA Queensland.

'There have been plenty of challenges, but it's amazing to see how far you can come from small beginnings with the right partners,' Phil said.

Sandro added he and the LiSEC team were looking forward to helping AIG continue its growth. 'It's been great to see our LiSEC machinery make such a marked difference to this glass business, it's so professionally rewarding.'

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2017 Winner
AGGA Queensland –
Residential Over \$20K

Scaling a Peak of Design

> Text by Tim Roberts, Photography courtesy of JH Glass



JH Glass has created a unique glazed centrepiece for a landmark residence in Queensland's Park Ridge – an ingenious transparent glass door, spanning the width of an entire room. John Hyde, Managing Director of JH Glass, explains how this marvel was created.

This glazed floor-mounted door serves multiple purposes, including a floor, an access door, and a balustrade when opened. The inventive design pays respect to the residence's unique character, opening right onto Park Ridge's incredible bushland views.

Creating this hefty yet high-transmittance design required considerable vision. 'The client was looking for something different to provide access to the entire upper floor area,' says John. 'To meet this challenge, we decided that the entire space should be glazed to take full advantage of the unforgettable surroundings.'



Although the client was seeking a visual point of distinction, he hadn't yet considered suspending a glass door over the span. 'When I mentioned the idea, he was very enthusiastic,' John remembers. 'He quickly realised that the entire area could be utilised when the door was closed, whereas a more conventional setup would have made a large section of the floor unusable.'

With the trapdoor design decided on, JH Glass began sourcing specialised componentry to make the ambitious scheme feasible. 'We had planned to open and close the door via hydraulics or a worm drive, but both these options were too noisy and cumbersome for the elegant setting,' John reveals. 'Instead, we sourced a pair of much quieter electronic actuators to do the job.'

Precision was key. 'We spent much time with CAD design and 3D modelling to ensure the door could fully clear the stairwell without jeopardising strength or causing safety concerns,' John explains. 'To add another layer of difficulty, the mechanism had to have full power backup.'

John collaborated with his friend and colleague Anthony Paul, owner/principal of SMP Consulting in Cairns, to ensure optimal functionality throughout. 'After agreeing on exactly what we required from the project, we joined forces to hone the trapdoor design,' he says. 'We wanted a sharply polished appearance, like mirror-finish stainless

→

CASE STUDY (JH GLASS)

(JH Glass – continued)

steel. Although I've seen designs with glass panels encased in a large metal perimeter frame, this is the first fully frameless operable floor panel I'm aware of.'

Hauling the massive door panel into place was a detailed and carefully planned operation. 'As the glazed sheet weighed in at 700kg, every measurement had to be spot on,' John recalls. 'We used a gigantic piece of 35.52mm SG toughened laminate, which was craned in over the top of the house using the adjacent spare allotment.'

'The glass was subsequently lowered into the entertainment area onto nylon blocks located inside the main partition, then onto a jib so we could wheel it around inside,' John continues. 'As all the work took place well inside the building, we had to manually lift this huge sheet into position with assistance from nine people – there was simply no other option!'

Once the glazing was lowered into place, attaching and perfectly aligning the custom-made bracketry was the next essential step. This may sound easy in comparison, but it wasn't. 'The twin electronic actuators operating the door had to open and close at identical rates, because one would overload the circuit if it received more load than the other,' John explains. 'This situation actually occurred during installation, which we discovered using electric tongs that gave a reading of 9 amps on one side and 2 amps on the other.'

The reason was bracket misalignment. 'When we detected the current imbalance, we removed the mounting brackets from the underside of the slab and elongated the holes to allow for perfect alignment and thus giving us an even distribution of current.'

John remembers. 'As every part had been fabricated according to our CAD design, it all worked out in the end.'

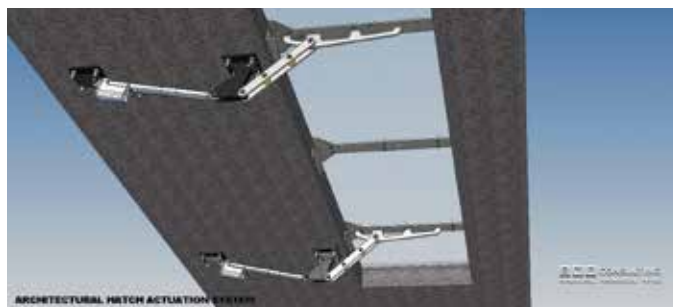
The trapdoor is supported with biometric technology for maximum security and convenience. 'We hooked up two biometric access points at the top and the bottom of the stairwell, accessible via a fob, a fingerprint, or a punch code,' John reveals. 'We promised to check on the project three months after completion, and I'm pleased to say it's functioning optimally after we sorted out those teething issues with the actuators.'

JH Glass is now looking to expand on this successful project. 'After we'd cracked the challenge of fitting the unit into a concrete rebate which was fixed into the slab, we've started designing similar units in the factory,' he says. 'But there's a key difference – our new units feature a steel ring beam that can be cast right into the slab, then dropped straight into the floor at whatever size the client requires.'

'This modification to the original design makes things far easier for us,' John continues. 'During the Peak project, it was a painstaking process ensuring the glass slotted into the concrete to the millimetre. If the assembly is constructed with a steel ring beam, however, it's spot-on every time.'

Having made this refinement to our manufacturing process, we're now preparing to send similar glazed doors all around the country. Compared to the first time around, installing future units should be a cinch.'

Judging by this striking display of aesthetic and mechanical ingenuity, JH Glass's trapdoor design is set to become a highly sought-after innovation. **GA**





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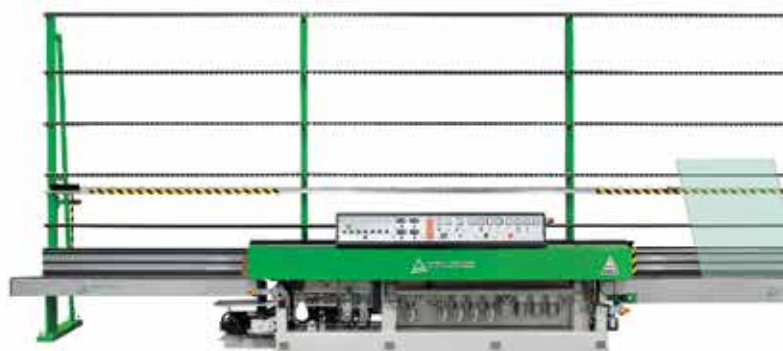
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> Patrick Gavaghan

AGGA Free Continuous Professional Development (CPD) Activities for Members

Continuous Professional Development (CPD) is an integral part of both the Master Glazier program and the Accredited Company program. We now have a new page on the AGGA website which allows members who need to achieve CPD points access to activities with the relevant CPD points attached.

There is a simple interactive claim form on the site so that you can claim the CPD points as you achieve them.

You have 2 options for these CPD activities:

1. Reading AGGA Technical Fact Sheets. Each sheet has a pre-allocated number of CPD points. Read one or read them all. You can then claim the points by downloading the claim form.
2. Viewing business Webinars. These deal with various business-focused activities recorded at live workshops run by our partner ProTrade. Again, you can view as many as you like and download the claim form to claim the CPD points.

How does it work?

Step 1 – Firstly, go to the AGGA website and click on the Training tab, then click on the Continuous Professional Development – Activities link.

Step 2 – Next, click onto the option you want to use, either the Technical Fact Sheets or Webinars. (Note that more Technical Fact Sheets are available if you log in to the Members area of the website.) You can also download the claim form and save it to your computer to fill out after you have completed your activities.

Step 3 – This is the Technical Fact Sheet screen. (A similar screen appears for the webinars.)

Click on the Download area for the Fact Sheets you want to read. Once you have read them either save them, print them off or close them down.

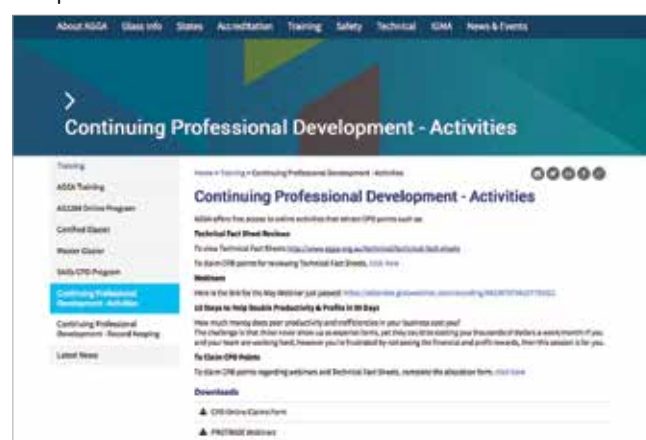
Step 4 – Now, simply fill in the activities you have completed on the relevant Technical or Webinar claim form. Then email the completed form to AGGA at training@agga.asn.au to be allocated to your account.

If you have any questions, please call Patrick Gavaghan on 0401 555 656.

Step 1



Step 2



Step 3



Step 4

Complete this form once you have reviewed any of the following Technical Fact Sheets. The Technical Fact Sheets can be found on the AGGA website while those marked with an * can only be viewed by logging into the members area of the AGGA website.

The following all qualify for 1 CPD Point:

- Exposed Laminated Balustrade Installation Recommendations
- Glazing for Family Day Care Centres

AS 1288 Online – Now Available

After the success of the AGGA AS 1288 Accredited workshops, it became apparent that we needed to address some issues around the inability of members to attend the workshops. They include our regional and rural members who had to travel long distances, and others who were just too busy to invest a day in the face to face workshops.

Therefore, over the last few months, we have developed the option for members (and non-members) to meet their Accredited Company (Technical Pillar) requirements online. This online program will now give everyone the ability to complete the AS 1288 Accredited program at any time suitable to them 24 hours a day, from any location that has an internet connection.

Access to the online program

Step 1 – Go to the AGGA website and click onto the AGGA Training tab, then the AS 1288 online tab which will take you to the information page.

Read the information, and when ready click on the 'Commence Registration' link.

Note: To access member rates, you will need to log in using your registered email address and password including a valid credit card. Members will be charged \$275 (inc. GST) non-members \$440 (inc. GST).

Steps 2 & 3 – When you complete the payment process, press the 'Commence AS 1288 Online Training' link and you will then proceed to the login page. For this, you will need to create a username (we recommend using your email address) then your own password. We also suggest you click the 'remember username' button, which will allow you to return to the program at any time.

Once in the program, work through the unit until completion. Remember to have your AS 1288: 2006 Glass in Buildings – Selection and Installation guide, including the AS 1288 Supplement.

You can complete the program in one sitting or exit and re-enter if required. By using your specific username and password, you will always return to the place where you last left the program.

On completion of the online program, your results will be sent to AGGA for review. Upon successful completion, you will be issued with an AS 1288 Accredited Certificate and where relevant, entered as the nominated person for your company on the AGGA Accredited company program.

Access to the online AS 1288 Accredited program is available NOW. If you have any questions or need help, call Patrick on 0401 555 656 or email patrick@agga.asn.au

Step 1



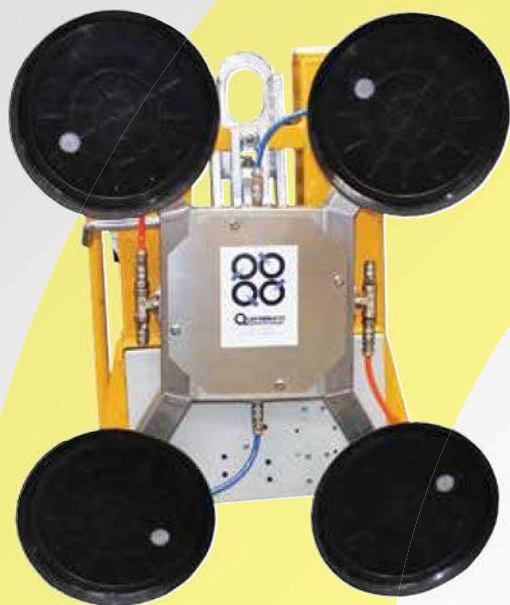
Step 2



Step 3



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- Safety chain

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- Capacity to lift stone and curved glass

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Why become a Master Glazier?

The story of Master Glaziers

The AGGA Master Glazier program has now been running for two years. Within that time, it has promoted the glazing trade into a higher professional level equal to the more traditional master trades such as plumbing.

Yet some glaziers are still not on the program, and until we have the Master Glazier program seen as a 'must do' by members and all good glaziers, we will continue to struggle ridding the industry of the cowboy elements who undercut prices. Elevating the glazing trade and the Master Glazing program is the most visible way of achieving that status.

Most glaziers are sole traders or employed by small businesses. The Master Glazier program has been designed with that in mind, so the application is not a complex process but a very flexible and supported one. Therefore, achieving and maintaining the status of Master Glazier by sole traders and small business is more of a business investment and one that will bring benefits to the company as much as to the individual glazier. A good example is Campbell Pudney, a sole trader and WA member. Campbell was the first glazier in Australia to achieve Certified Glazier status. He has now achieved his Master Glazier status and has also applied for Accredited Company status. All as a sole trader!

Campbell's own story

'Being the first glazier in Australia to go through the Certification process shows that I am 100% behind the Certification program as I believe it is well overdue,' says Campbell.

'As a small business owner of Woodvale Glass, as well as a *qualified* glazier for 40-plus years, I have been competing for work against non-qualified workers – people who have picked up a bit of knowledge, and all of a sudden they are a glazier – magic! These people didn't need to go to trade school and do an apprenticeship or find out what the Australian Standards are.

'Recently I introduced myself to a customer as the Glazier, as they had many trades on site. They said, 'The what?' I said, 'The guy who puts the glass in.' 'Oh okay,' was the response.

When I was asked to consider doing my Master Glazier Program, my first reactions were: it's too hard, too much paperwork, I haven't got time, what areas of expertise do I need? After talking it through with Patrick (Gavaghan AGGA National Training Manager), I found it was a breeze. It was almost like doing the Certification again. I just had to work out what I was taking for granted every day.

I talk to customers a lot about Glass Design and research projects for them to find a product solution, and after that I organise the job buying the materials putting the project together and installing. Therefore, for my

Master's I emphasised my areas of expertise; Glass Design and Project Management (simple).

I then spoke to a couple of major customers for references and submitted my application. I am currently in the process of taking it one step further by going through the Accredited Company Program and working on the four pillars to achieve full accreditation.

Summary

David Robertson, AGGA Member Services Officer, visited Campbell at his factory in Woodvale WA on the 9th April 2018. Campbell was very interested in obtaining accreditation with the association, and had many questions regarding how he would be able to meet the requirements as he was a sole trader. On the 15th May 2018 Campbell sent an excellent submission for accreditation which has since been processed as a successful application. Woodvale Glass is a stand out example as evidence that any member company can obtain Accredited Company status whether they are a large business or a sole trader.

Help lift the profile and professionalism of the glazing industry and download the Master or Certified application form. Get your application active and become a Certified or Master Glazier!

**www.agga.org.au/training/master-glazier
or www.agga.org.au/training/certified-glazier**



Biesse Group Oceania Appoint New CEO



> L-R Canzio Costantini (Oceania Sales Manager), Michael Bullock (CEO Oceania), Federico Broccoli (Global Subsidiaries Director)

Biesse Group, is pleased to announce the appointment of Mr Michael Bullock to the role of Chief Executive Officer Oceania, effective 4 June 2018.

Welcoming Michael Bullock, Mr Federico Broccoli, Subsidiaries Director of Biesse Group stated that 'Oceania is an important region for the company. We are confident Michael's experience will further develop our Australian and New Zealand subsidiaries.' Broccoli continues 'Biesse has very important market share in these markets and our strategic plans for growth are based on opening the largest showroom in Oceania. The Biesse 2000sqm showroom will be operational in September 2018, with a campus Grand Opening following in first quarter 2019.'

Michael brings close to a decade of general management experience to his new position during his previous career at Kone Elevators. He holds an honours degree in Mechanical Engineering, a Graduate Certificate of Management and has worked in Senior Executive roles in South East Asia and Australia.

'This is an exciting time for Biesse Group, and I am thrilled to assume the CEO role,' said Michael Bullock. 'I look forward to leading Biesse Group into the next phase of growth, where we will focus on service and innovation to become an even more customer-focused company.'

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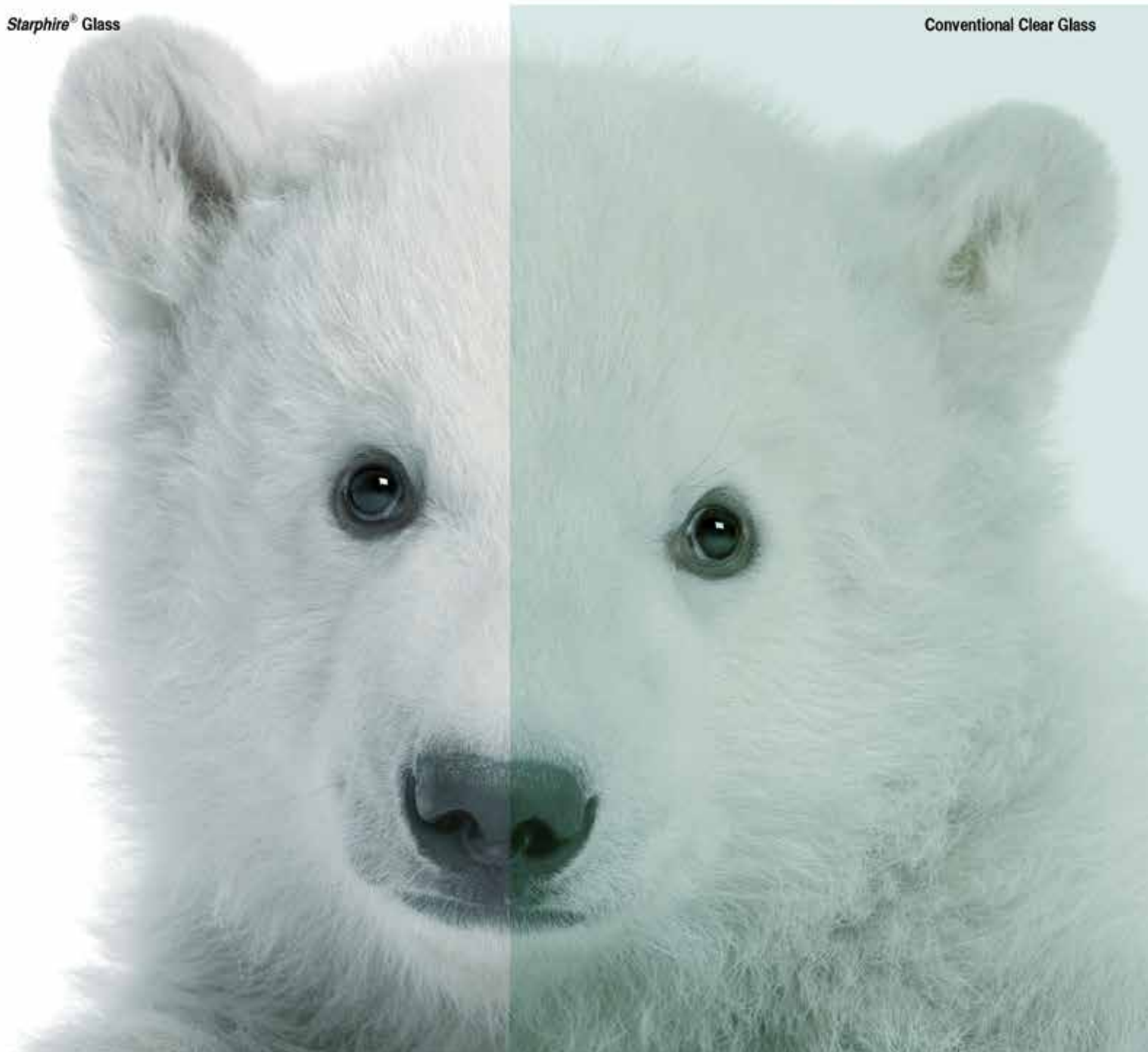
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AGGA Welcome Our Accredited Companies

We're extremely proud of the uptake from industry, with so many now having completed all the guidelines and achieving Accredited Company status. **As at 15 June 2018*

Company	State Issued
A Glazier & Shutter Services	VICTORIA
Adelaide Glass Guys	SOUTH AUSTRALIA
Advance Metal Industries Australia	NEW SOUTH WALES
Advantage	WESTERN AUSTRALIA
Alexandria Glass	NEW SOUTH WALES
All Points Glass & Aluminium	VICTORIA
All Points Glass Thomastown Pty Ltd	VICTORIA
Aluminium Balustrades North Coast (ABNC)	QUEENSLAND
Archer Glass (ACP only)	QUEENSLAND
ASA Windows Pty Ltd	WESTERN AUSTRALIA
Barossa Glass	SOUTH AUSTRALIA
Betta-View Windows Pty Ltd	SOUTH AUSTRALIA
Britone Aluminium & Glazing	WESTERN AUSTRALIA
Byford Glass	WESTERN AUSTRALIA
Cains Glass Service	NEW SOUTH WALES
Clearview Aluminium Windows & Doors	TASMANIA
Complete Window Systems Australia	WESTERN AUSTRALIA
Cooling Brothers	WESTERN AUSTRALIA
David Glass Co Pty Ltd	VICTORIA
Diamond Tannous	NEW SOUTH WALES
Economy Glass	VICTORIA
Express Glass NSW	NEW SOUTH WALES
Federation Glass	SOUTH AUSTRALIA
Festival Glass & Glazing	SOUTH AUSTRALIA
Freeman's Glass Pty Ltd	NEW SOUTH WALES
G James QLD	QUEENSLAND
Golden Glass	WESTERN AUSTRALIA
Greater Glass	NEW SOUTH WALES
Hartley Glass	SOUTH AUSTRALIA
Imperial Glass	WESTERN AUSTRALIA
J Glazing Pty Ltd	SOUTH AUSTRALIA
Jim's Glass South Australia	SOUTH AUSTRALIA
Jim's Glass Western Australia	WESTERN AUSTRALIA
Kiama Glass	NEW SOUTH WALES
Kingborough Glazing	TASMANIA
Lakers Glass Pty Ltd	WESTERN AUSTRALIA
Liverpool Glass Co.	NEW SOUTH WALES
Magic Glass	NEW SOUTH WALES
Maitland Glass	NEW SOUTH WALES
Melbourne Safety Glass	VICTORIA
Mount Glass & Glazing	SOUTH AUSTRALIA
O'Brien Glass Industries Ltd	NEW SOUTH WALES
Penrose Glass	NEW SOUTH WALES
Reflex Glass	VICTORIA
Rockingham Glass	WESTERN AUSTRALIA
Romano Glass Service	NEW SOUTH WALES
Rooney Glass	NEW SOUTH WALES
Somerville	VICTORIA
South Melbourne Glass	VICTORIA
St Helens Glass & Aluminium	TASMANIA
Stubbs Windows	TASMANIA
Suburban Glass & Leadlights Pty Ltd	QUEENSLAND
True Blue Glass	QUEENSLAND
Ultimate Frameless Glass Pty Ltd	VICTORIA
Unity Glass Pty Ltd	QUEENSLAND
Unley Glass	SOUTH AUSTRALIA
WA Custom Glass	WESTERN AUSTRALIA
Walshs Glass	WESTERN AUSTRALIA
Wood Glass Group	QUEENSLAND
Woodvale Glass	WESTERN AUSTRALIA

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- Time-controlled filling possible
- Filling of a single bar leg is also possible

Multifunctional system for drilling, filling and closing two holes drilled in two adjoining spacer legs. The machine automatically adjusts to the width of the respective spacer bar. The height of the single filling head can be continuously adjusted to different bar sizes. An electronic control device is fitted for reliable and optimal filling. Spacer bars are loaded manually. By simply turning the spacer bar 180 degrees, all four frame legs can be filled with desiccant.

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Safety is Everyone's Responsibility

Safety Management System (SMS)

Driven by the AGGA Safety Sub-Committee and supported by the Executive Board, all new membership applicants are required to complete the SMS Implementation Checklist as part of their membership application. The AGGA office then follows up to help the business develop a compliant SMS and reduce risks in their workplace.

Safety training is also being developed by AGGA staff, to be made available to members through 2018. This training will focus on legal responsibilities and practical application within the workplace. As well as these education sessions, if you need help with a specific issue in your workplace, AGGA staff are available to provide specific safety support for members.

The regulators

Work at height and forklift use are under focus by SafeWork in NSW. These are both high-risk activities, so it's important that you have appropriate SWMS's in place, workers are trained in the contents, and there is appropriate supervision in place to ensure work instructions are followed.

Falls are the number one killers on NSW construction sites, claiming eight lives in 2017. One recent prosecution involving a worker being injured after falling through an improperly covered penetration, resulted in a \$135,000 fine to the business owner. Ensure your workers are properly trained,

equipment is properly checked and serviced, and controls are in place before work at height is undertaken.

Ladder safety is a risk area of prominence in the glazing industry: you should review any activities involving ladders with a view to identifying alternative methods of carrying out work at height. Throughout Australia, the regulators direct that ladders are a means of access, not a work platform. Even though this provides challenges in some instances, if there is an incident involving a fall from a ladder in your workplace, an investigation will look very closely at how the ladder was being used at the time, and alternatives that should have been considered.

Vehicle safety

An enormous range of vehicles are used to transport glass. Attention is often on loading/unloading practices, racking, and securing of loads, but members need to be aware of the chain of responsibility regarding vehicles and how far that extends.

There are many specifications under the Heavy Vehicle National Law (HVNL) for those businesses who either rely on, use or control heavy vehicles, but many of those duties apply also to lighter vehicles. In particular, members should be aware of:

- vehicle standards and maintenance
- fatigue management
- overloading
- dangerous driving, including speeding.

Responsibility for these issues extends through the management chain, up to and including senior managers. As an example, many members operate 'emergency' or out-of-hours glass replacement services, and managers are responsible for ensuring there are appropriate fatigue management practices in place and that these procedures are followed. Any incident involving a fatigued driver would lead to a detailed investigation of your business's fatigue management procedures.

If you rely on smaller vehicles for glass transport, be particularly aware of:

- appropriate body fitment – make sure racking is constructed and fitted appropriately
- inspection, maintenance and proper use of load restraints.

The phrase, 'Safety is everyone's responsibility' is often quoted, and is regularly invoked to remind workers that they have a duty to perform their work in a safe manner. This is true, but it must always be remembered that the chain of responsibility extends all the way up through to senior management and directors.

For further information contact Will Walker on will@agga.asn.au



AGG Welcomes Mike Ward

The Australian Glass Group is pleased to announce the appointment of Mike Ward as National Sales Program Manager. Mike has recently taken up the appointment, commencing 1 June 2018. 'It is an exciting time ahead for the Australian glass industry, and I am very happy to be part of the team at AGG,' says Mike. With his wife Olga and two young children Angelica and Marcus, has relocated to Melbourne from New Zealand and is very much looking forward to the challenges ahead.

'We welcome Mike to the AGG – Mike's many years of experience in the glass industry and extensive knowledge provides an invaluable resource to our AGG sales team and AGG customers. This announcement further underpins our long-term business goals and growth in the region,' says Brendan Simpson, CEO AGG.

Mike can be contacted via email on mward@agg.com.au or the AGG Melbourne office on (03) 9730 7400.

Aquaglass Makes a Splash



A new generation of water-based paints for decorated glass has been released by the Fenzi Group.

Aquaglass NG.X has advanced performance and is environmentally friendly, offering an ideal solution for the production of decorated glass for interior decor in homes, offices and shops. It offers a remarkable range of effects for splashbacks and other glass surfaces.

The entirely revamped range of single component water-based paints was developed for the decoration of large sheets as well as custom sizes, with a huge series of colours and customisable effects.

The new Aquaglass line offers solid opaque tints, with satin effects and a wide range of metallised hues, with brilliant, unique shades that can provide a distinctive look to the decor in offices and homes, baths and kitchens, private and public spaces.

By upgrading the product's already outstanding and globally recognised functionality, the Aquaglass NG.X range ensures superior adhesion to glass surfaces, heightened chemical resistance and extraordinary coating power. The paint has greater tint stability and durability over time, even after the application of the adhesion promoter.

The paint can be easily applied using different techniques – spray, roller and curtain coating. Thanks to the drying speed, either in the oven or open air, and minimal content of Volatile Organic Compounds, Fenzi's water-based paints are suitable for any type of project.

The Aquaglass line combines outstanding performance and functionality in application with the aesthetic advantage of bringing individuality to even the most sterile of settings.

**For further information, contact Fenzi's Australian distributor
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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.

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iplus Top 1.1	81	0.59	1.40
iplus Top 1.1T	82	0.61	1.40
iplus Advance 1.0	77	0.52	1.35
iplus Advance 1.0T	81	0.57	1.38

- The U Value and shading coefficient are measured by conditions given by NFRC 100-2010
- Specifications, technical and other data are based on information available at time of preparation of this document and are subject to change without notice.
- For a comprehensive list of iplus products and performance specifications, please contact an AGC representative.



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Raising a Glass at China Glass

The Australian contingent attending the China Glass Expo 2018 in Shanghai were able to combine business with pleasure, thanks to the hospitality of Aaron He from All Glass in China.

Aaron hosted a cocktail party for Australian attendees at the rooftop Kartel Wine Bar in the old French concession area of Shanghai during the April Expo. Represented were LiSEC, BGE, OGA, Walsh's Glass, Glassworks, Star Glass, Mercury Glass, Suburban Glass and Metro Glass.

Despite reaching the venue in a deceptively rickety elevator, the contingent had a fun night at the expat bar, with wooden floors, bare brick walls and a magnificent view over Shanghai. 'Relaxed but classy,' says Michael Gleeson from Glassworks. 'All Glass really put on a great night.'

It wasn't just the Shanghai nightlife that made the trip worthwhile, Michael says, but also the ongoing innovations in China's glass industry on display at the Expo, which were something to behold.

The Australians joined more than 30,000 visitors from 72 countries at China Glass, which runs over four days. 865 manufacturers were displayed across seven exhibition halls, which covered more than 80,000 square metres.

The Expo showcased sectors including glass products, applications, production lines, processing technology and diversified domestic glassware. Seminars discussed heat-resistant separation materials, infrared high-radiation energy saving coatings, cloud intelligent manufacturing and industrial robots for glass production.

There were exhibits devoted to electrochromic glass, semi-transparent glass and many other new products.

Although seeing the new technologies and products and making new connections made the trip worthwhile, Michael said his fondest, but maybe haziest, memories were of the big night overlooking Shanghai.

'The Chinese glass industry is going from strength to strength, but they still know how to have a good time, thanks again to Aaron and All Glass,' Michael concludes.



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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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Kingborough Glass Takes the Lead on Workplace Safety



One of Tasmanian glazing's mainstays, Kingborough Glazing, has been recognised with the AGGA Tasmania State Safety Award for its dedicated and innovative approach to safety in introducing new Safety Site Packs.

The award recognises excellence in developing and implementing solutions to a health and safety issue. Kingborough had found that ensuring staff had a full set of Personal Protection Equipment with them always was problematic, as well as storing them accessibly – some kits in toolboxes were being damaged.

It introduced new, sturdy hi-vis PPE bags for every staff member, including every piece of PPE required onsite and in the factory. A purpose-built cabinet was installed to house the bags.

'Safety has always been a priority at Kingborough,' says manager John Gofton. 'This is a great practical solution to ensure all staff are prepared for any incidents.'

He suggests other companies look at similar initiatives. 'In time, costs and materials this cost about \$1000 to set up,' John says. 'It's a small but valuable investment in keeping people safe.'

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> Kingborough Glass Safety Site Pack



The PPE bags are stocked with ear muffs, buds, gauntlets, glazing gloves, disposable gloves and dust masks, safety glasses, sanitiser, saline solution, sunscreen and hat and a small amount of first aid supplies to supplement kits in the company vehicles. Making the bags hi-vis and placing them in an open cabinet meant they were unlikely to be forgotten.

A staff meeting was held to ensure everyone was familiar with the equipment, and the importance of having PPE with them at all times.

'When a staff member loads a vehicle for site visits, the PPE bag is now the first item that is packed,' John says.

Kingborough Glazing also took home two other AGGA Tasmanian awards, for the Best Retrofit Project and the Women in Glass Award, won by Tracey Gofton.

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- glasstec 2018 will feature;
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- Energy and Performance
- Structural Glass: Solid Glass/Thin Glass
- New Technologies

glasstec 2018 will take place at the Düsseldorf exhibition centre from 23 to 26 October 2018.

For more information about the event logo onto glasstec-online.com/glass



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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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Vale Michael Murray

31/1/1962 – 2/5/2018



The passing of Michael (Mike) Murray leaves a big hole in the hearts of those who knew him, and the glass industry he devoted his working life to.

Mike came to Australia with his future wife Lynette in the early Eighties, after completing his military service in New Zealand, where he most likely acquired his legendary dedication to process and discipline.

Mike began in the industry at T&K Glass, starting as a glass handler but working his way up into managing production. When the company was acquired by Pilkington he transferred to its Dandenong float plant to oversee production, before setting up the Wetherill Park Processing Facility.

After a short stint in the construction industry, Mike's industry knowledge and passion for glass saw him return to Pilkington to run their Oakleigh facility.

Then, in 2005, JELD-WEN Glass needed a General Manager for a new facility in Rowville. 'Mike was the only man for the job – his reputation was amongst the best,' says his friend and most recent manager, Alan Bruce. The pair worked at JELD-WEN until 2013, when both left to pursue other interests. The problem was, Al said, 'Mike didn't really have any other interests, glass was in his blood!'

When Al returned to JELD-WEN in 2015 as General Manager of JELD-WEN Glass, Mike was the one Al wanted to run the factory, and it only took a long lunch at McDonald's to coax him back.

He was organised, very organised! A man who didn't believe in cutting corners, trustworthy as both a manager and friend – firm but fair, he earned enormous respect and admiration from all who worked with him.

Mike was a great communicator, in person, via email, on the phone – or his personal favourite, the two-way radio he insisted all his team carried.

'He was a great mentor,' says Al, 'spending half his time conducting one-on-one training sessions. He was passionate to pass on all he knew about an industry he loved.'

Family came first for Mike – his wife Lynette and children Rick and Danielle – but the JELD-WEN Glass family came a close second.

Mike was brave; struggling with illness, he continued to work on in the factory until a few weeks before his passing. He must have been doing it very tough, but never complained. Mike taught those who worked with him more about life than he realised.

While his story will never be finished for all who knew him and had the honour of working with him, Mike has left JELD-WEN Glass a better place, both in terms of production and in the lessons and learnings he has passed on to those who worked with him.



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- Belt driven for reduced vibration and maintenance costs.
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- Processing capacity: 100 L/min +/-25%
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- Filtration down to: 5 micron

Sizes: L 1200 x W 1200 x H 1250mm
Weight: 260Kg
Electric power supply: 3 KW 415V



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DesignBUILD 2018

DesignBUILD 2018 – AGGA recently exhibited at DesignBUILD 2018 in Melbourne on 2–4 May 2018, and received positive feedback from both members and non-members who attended.

There was a total of 5,168 visitors to the show, and over the three days AGGA engaged with over 2000 attendees.

Industry sectors that were represented were Architecture 13%; Building & Construction 39%; Design 7%; Landscape & Government 2%; Manufacturing 10%; Trade Services 3%; Importer/Exporter 3%; Other 16%.

As well as building awareness of AGGA and its Accredited Company Program, there were several requests for information on becoming a member of AGGA. It was particularly favourable to be located next to AWA, as between the two exhibition stands we were able to assist each other with all enquiries.

AGGA extends special thanks to staff and members that assisted at the exhibition.

Guardian Glass Announcement



Lachlan Stanton at Guardian Glass has recently been appointed to the new role of Architectural Sales Manager, Guardian Glass, Australia / New Zealand.

Continuing to work closely with Gilbert Chamoun, Lachlan will be responsible for industry education and sales support in the Australia and New Zealand regions. Lachlan's career began with a Bachelors Degree in Architecture from the University of New South Wales and has continued to develop over

several years in the industry working for Sydney based architecture studios. Lachlan joined the Guardian Glass team in 2017.

Experienced in everything from small scale residential projects to large multi-million dollar commercial developments, Lachlan brings his knowledge of design and specification to Guardian Glass.

'Together with our National Guardian Glass team of James Kercher and Austin Kurne, Lachlan will also continue to educate architects through formally accredited presentations on the specification of high performance glass,' said Gilbert Chamoun Oceania and Greater China Regional Manager Guardian Glass.

Lachlan can be contacted on lstanton@guardian.com



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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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IGMA Report

> Brad Draper, Chair

AS4666 – 2012 Amendment 1 has now been published on 15 May, including a number of changes that will impact many of our members. Those members manufacturing IGUs utilising foam spacer technology can now have their units tested (long-term), in line with the requirements as noted in AS 4666.

Companies that have been waiting on this inclusion to be updated to achieve certification can now initiate plans to be certified. Achieving company certification is a necessary part of becoming an IGMA manufacturing member.

Members will be pleased to learn that from early July 2018, Ian Bennie and Associates will have doubled their capacity for testing. They are already testing to meet the recent changes now noted in AS 4666, also accommodating argon retention testing and now also testing to American Standard AS TM – testing exposure to ultraviolet light with high temperature and humidity cycling.

On average, Ian Bennie and Associates are estimating a turn-around time of four months to conduct testing, as the units undertake continuous four-week period cycles as they move into various chambers.

IGMA Planned Promotional Activity

After a great deal of planning, we now have formulated a branding and messaging campaign to educate the industry on best practice manufacturing techniques and to ensure that quality and installation procedures are understood and adhered to. Our goal is to promote and improve the quality of double-glazed units being produced in the Australian marketplace.

The objectives of our project:

- To motivate and inspire 'end customers' (homeowners) to use and install double-glazed windows.
- To communicate that NOT all double-glazed window systems are created equal, and that IGUs manufactured and supplied by IGMA manufacturing members are quality systems, fully compliant with the Australian Standard, independently tested and verified.

The behaviour we want to create:

- Go to the IGMA website, be informed and inspired.
- When briefing your home builder or architect, *demand* they clearly specify double-glazed windows incorporating IGUs manufactured by an IGMA member.

Stay tuned for more news on our upcoming promotional program.



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Do More With Glass



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Custom laminated safety glass manufactured by National Glass helps to realise architectural vision for Baxter Street, Fortitude Valley apartments. Architect Jack Coates from Opus International explains, "At the time of conceptual design there were hundreds of apartment buildings going up around Brisbane and we were looking to do something to differentiate this one. Getting the appropriate square metre yields resulted in a form that was built to the maximum allowable building envelope on all sides, including height, but unfortunately council's envelope for this site resulted in a fairly 'squat' form. With these constraints our only option for design differentiation was a facade treatment. We came up with a vertical blade concept to make the building appear a little taller visually

to offset the squat form generated by the building envelope.

The original scheme had PFCs offset from the perimeter walls of the building with blades spanning between them that were parallel to the walls. We made them coloured glass so that they would cast shadows as patches of colour on the facade behind. Being glass they would still allow views out of the windows behind. Our colours were based on colours that people associate with Brisbane, i.e. green, purple and red from Jacaranda and Poinciana trees. The arrangement of colours also made the building look different from different sides.

In design development we changed the fins from being parallel to the

building to being perpendicular so that they would be easier to build and clean which worked well aesthetically as it made the fins more prominent. This change also allowed the translucent colours to mix together visually when looking at them from a close sideways angle. In addition to this we also made the fins different widths, so that the facade would have a more textured appearance when seen from this viewpoint."

In addition to the design development of the fins, building developer TMF and Opus, had initial troubles in sourcing a manufacturer as Jack further explains, 'Unfortunately the manufacturer left during the construction phase. In response we met with National Glass and

NATIONAL GLASS

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developed a system where the glass was supported in saddles fixed to the precast walls of the building with chemset fixings. This system was much lighter, simpler and cheaper to build. ADG engineers provided advice on the saddle structure and glass thicknesses required.'

For the project National Glass manufactured a 17.52mm Heat Strengthened laminated glass using combinations of Vanceva® coloured interlayers which was supplied on time and within client's expectations.

The functionality and versatility of laminated glass also allow architects and building designers to solve

structural and strength, noise, safety and security, energy and climate demands. In the case of the Baxter St apartments a specific function of the glass fins 'was to shade windows from the eastern and north-western sun. Almost all fins are positioned between the windows and the sun in these directions. Heat from direct sun on these windows is therefore much reduced. This allowed us some concessions with window glazing types when the Section J assessment was undertaken,' explains Jack Coates.

National Glass has installed the latest advanced machinery for laminated glass manufacturing

using 'nip' roller and autoclave technology for high quality assembly and finished product.

National Glass also specialise in IGU's, digital ceramic printing, tempered and high end processed glass, backed by an extensive range of glass and interlayer stock types.



We look forward to continuing collaboration with designers, architects and clients, inspiring all levels of industry to 'do **more** with **glass**'.

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How to Quit Smoking for Good

Quitting smoking is not an easy thing to do. You may have tried many times or ways before, but don't worry – you're not alone.

Looking for inspiration on why to quit? When times get tough and those cravings kick in, try and remember:

- A pack a day will set you back \$11,000 a year. A new TV, a holiday, a year's supply of food... Just imagine how much you could buy with the cash you save from quitting.
- Feel like a new you. From the moment you quit, your body starts repairing itself. You will be able to breathe easier and exercise for longer.
- Two in every three long term smokers die from the habit. Nobody wants to shorten their life. Tobacco smoke contains more than 7000 chemicals, 70 of which cause cancer.
- You are a superhero. By choosing to quit, you become a role model and an inspiration for your family and friends.
- Think of the children... and the pets. Secondhand smoke is dangerous to

people and animals around you – protect them by quitting.

It is possible. With the right support and approach to quitting, you can do this.

Buster knows exactly how difficult quitting can be; he tried over 20 times to give up the cigs. This time, after 45 years of smoking, he finally cracked it.

'The things that made me relapse were habitual triggers. Things like jumping in the car or having a beer with mates. They just went hand in hand,' Buster said.

Trying to quit? Here are Buster's top five tips for staying on track.

1. Identify your triggers and work out how to overcome them.
2. Do something else when a craving strikes. Every time I had an urge, I would change my behaviour and thought patterns and the craving would pass. Try having a drink of water or a piece of fruit.
3. Think of what you'll gain. Quitting saves you money, makes you feel better and makes you more productive. You also

won't smell when people want to kiss you.

4. Think of who else will benefit from you quitting. I really wanted to be a good role model for my son. When he asked me to quit smoking for Christmas one year I knew I had to try.
5. Don't stop trying to quit. It does get easier.

Don't give up on quitting. Quit Victoria has tried and tested methods and a team of friendly, qualified Quit experts to help you stay quit for good.

First, make a plan using Quit Victoria's online 'Build a Plan' tool. This simple online planner will identify your reasons for smoking and develop a quit plan that's tailored to your individual needs.

You're more than twice as likely to quit if you call Quitline on 13 7848. The Quit specialists are onhand to help you identify your triggers and manage the cravings when the urge for a cigarette strikes.

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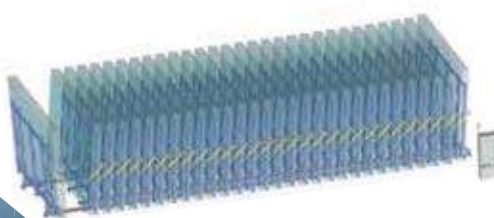
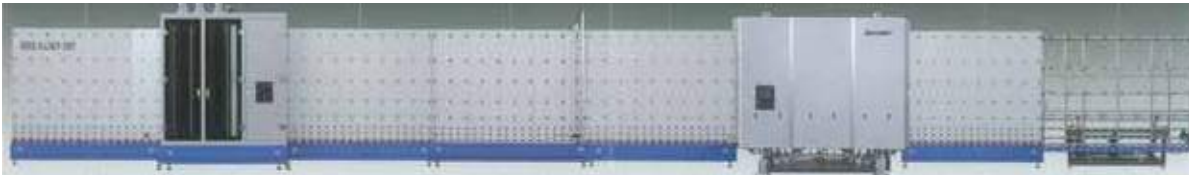
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AGGA QLD Welcome RadSafe



AGGA Queensland welcomes new member RadSafe, recognised as one of Australia's leading radiation protection manufacturers. Combined with its parent company Imaging Solutions, RadSafe boasts 26 years of personal radiation protection experience; their skill in cutting and customising lead

glass is unmatched in today's market. Imaging Solutions has protected clinicians, surgeons, nurses and control room technicians from harmful ionizing radiation since 1992, offering technical support, selection advice, custom installation advice and applications support on request.

'RadSafe is the sole Australian distributor of Corning® MED-X® lead glass, the world market leader in manufacturing lead glass, offering quality, compliance and protection you can trust,' says Ben Honey, National Sales Manager, RadSafe. 'Corning's quality is leading the market. Their high barium and lead content provide optimum protection without the loss of visual clarity, which is extremely important when it comes to glass,' notes Ben.

Lead glass is used in many applications including X-ray, angiography and CT viewing windows, medical diagnostic screens, airport security X-ray screens and safety goggles.

Radsafe supplies the glass as polished plates, which are cut to the customer requirements up to a maximum size of 2800 x 1400mm, allowing architects to design viewing windows with a wider field of vision.

RadSafe's lead glass range will be available to view at GA18 on the Gold Coast.

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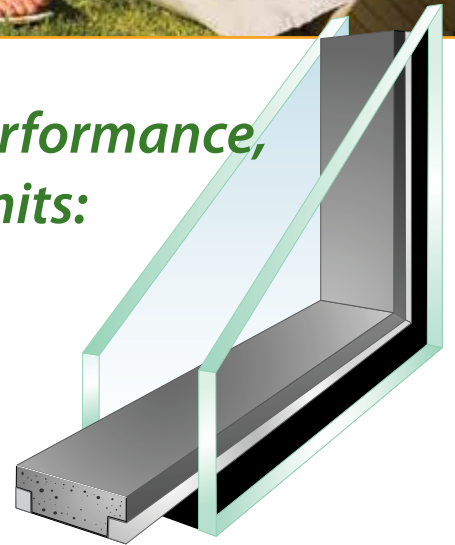
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Forel Launches 'no limits' Jumbo IGU Line



Forel is pleased to announce the successful global launch of their new IGU Jumbo line. In direct response to market demands for high-quality large-size IGUs, Forel's new line offers exceptional performance, featuring increased sizes and greater thicknesses than previously available, as well as the ability to process bowed glass sheets.

Forel's new (Jumbo) IGU line can process some of the largest sized IGUs, up to 6000 x 3300mm, specified in today's market. Development and design of the new line has taken many market considerations into account – jobs that in the past were almost marginal can now be easily manufactured, such as non-planarity sheets, a common issue for very large glass sheets. The new Jumbo line thus has the capability to process glass sheets that are not perfectly flat, along with many other new design features.

Consisting of a loading area, coating removal, washing machine, inspection booth with rear

access, glass turning section (180°), and assembling press with gas filling and edge sealing, the line also features:

- processing of glass sheets up to 40mm thick, IGUs up to 100mm thick and up to 550kg/lineal mtr.
- stepped units with vertical offsets up to 250mm and leading edge offsets up to 1,000mm
- processing of bowed glass up to 2.5mm per metre (15mm on 6m glass length)
- sealing flexibility to use three different materials and sealant flow of 4L/min
- stepped unit assembling with the smaller glass in front
- a dedicated glass unloading section.

For further information, email enquiries@oga.com.au

G.James Congratulate Andrew Fuller

G.James congratulates Andrew Fuller on his recent promotion to the position of Glass Products Queensland Sales Manager. Andrew has worked for G.James for 14 years in various roles, including Internal Sales Assistant, Account Manager and now Sales Manager. Andrew replaces his long-term mentor John Koklas, who is in transition to retirement and is now responsible for support and training of the G.James branch network on glass products.

'Andrew showed me he had the ability from the start,' says Greg Hunt, Glass Division General Manager. 'I am pleased to have witnessed his progression and career development over his

many years in the company and know he will excel in this new position.'

Andrew graduated from Sunshine Coast University with a Degree in Business. His challenge is to continue to grow the G.James glass business in a competitive and changing market.

Andrew and his wife Emily recently became parents for the first time with the birth of their daughter Sadie. Outside work and with what little spare time he has left, Andrew is a keen golfer and enjoys motorsports.

Contact Andrew on 0416 193 379 or email andrew_fuller@gjames.com.au



Launch Solect SHADOW

In our highly energy-conscious environment, it is becoming increasingly difficult for Australian housing to meet the more complex regulations governing building performance and energy efficiency requirements. The challenge of exceeding these stringent demands, coupled with homeowners' consistent desire for neutral-appearance glazing, has led to G.James developing and recently launching an exciting new product – Solect SHADOW.

Solect SHADOW is the latest innovative addition to G.James' Solect range of Low-E

laminated glass products specifically targeting the residential market. This product's light neutral grey appearance provides the ideal balance of natural light entering the home with a noticeable reduction in solar heat gain and glare. Solect SHADOW will also contribute to winter-long comfort, reducing heat loss by over 30% compared with standard clear glazing.

'In most parts of Australia, laminate has long been considered the best all-round residential glazing choice,' explains Gary Aspden, Marketing and Technical Manager

at G.James Glass Products. 'This widespread preference is primarily due to its cost-effectiveness and many other benefits, including safety, security, noise reduction and fade control. When Solect SHADOW's excellent thermal performance and aesthetically pleasing colour are taken into account, the product ticks all the boxes for residential applications.'

Solect SHADOW is available in 6.38mm, 8.38mm, 10.38mm and 12.38mm.

For further information, contact 1300 GJAMES.

Meet your Local Apprenticeship Experts



MEGT was established in 1982 with a vision to increase employment and skills in the local community. Over 35 years later, what started as a team of three servicing the Outer Eastern region of Melbourne is now Australia's largest and only national Apprenticeship Network Provider.

With over 600 employees in almost 60 offices nationwide, we are your local apprenticeship experts. Our local presence on a national scale means you get on-the-ground assistance in person, by email or over the phone, when you need it the most.

'As a long-time resident of Echuca, I have a good understanding of local business requirements and take pride in helping new apprentices find the right opportunity.'

Mahir – Apprenticeships Field Consultant, Echuca VIC.

MEGT makes apprenticeships easy

When you engage an apprentice, a Commonwealth Government Training Contract must be in place – that's where we come in. Our free service includes apprentice

sign-up and assistance with incentives you may be eligible to receive. We also offer ongoing mentoring to ensure your apprentice reaches their full potential.

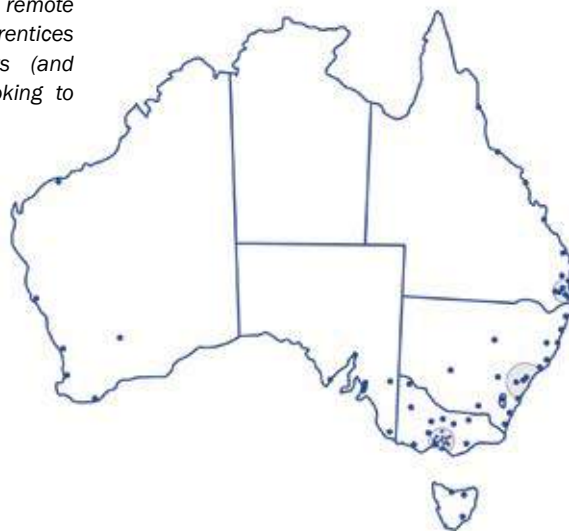
'Despite challenges for employers in remote areas, I've successfully placed apprentices from towns like Charters Towers (and beyond!) with local businesses looking to grow their workforce.'

Rebecca – Apprenticeships Field Consultant, Mysterton QLD.

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We can visit your workplace and chat to you about whether an apprentice is right for your team.

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Vale – Bob Bremner

> Prepared by Ian, Ken and Greg Bremner

Robert William Bremner, eldest son of William (Bill) Bremner, founder of W Bremner and Sons – Glass Merchants and Glazing Contractors in 1926, has died aged 96.

Bob enlisted in the RAAF the day after Australia declared war on Japan in 1941 and served as a radio mechanic and Morse Code specialist on Cape York in Far North Queensland. After hostilities ceased, he joined his father at WB&S in 1946 in the iconic glass factory at 966 Dandenong Rd East Malvern.

In the early 1950s Bob shifted to Frankston, where he opened a new factory to service the Mornington Peninsula. These were certainly growth years that saw schools, residential homes, and even a PMG contract that meant every telephone box from Frankston to Portsea was maintained by WB&S.

Bob was also to employ many glaziers who went on to form their own businesses whose names remain today – Vin Taranto, Hank Bos and Warren O'Neill to name but a few. He was also a generous supporter of local charities and clubs in the district.

He was a great mentor to his sons, Ian, Ken, and Greg, who also joined the business and remain current directors of Bremner Glass Equipment.



Bob retired in 1980 after his final eight years in the business at BGE with his brother Alan (dec).

Bob and wife Jean (dec) moved to the quiet country hamlet of Wandiligong at the base of the Northern Victorian Alps where his other brother Ron (dec) had already settled.

He will be missed by family and friends alike.

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Saving the Tools of the Glass Trade

The evolution of an industry can be seen through the tools and techniques that shaped the trade, with generations of manual tools telling a story about the craftsmen who used them and the products they created.

A call is going out to preserve the history of the glass industry for a 'Tools of the Trade' museum, collecting the tools of the past, along with photographs, memorabilia and documents.

Gerard McCluskey is coordinating the project and hoping members can donate manual tools of the trade common for earlier generations of the industry.

'It is important the glass industry retains its heritage,' says Gerard. 'When I entered the glass industry in 1974, all glass was moved, cut, edge worked and processed by hand. The industry was still changing between the imperial and metric for measurement and weight.'

'We, the glass industry, should find a way of retaining the manual tools of our trade for future generations of the glass industry to understand its evolution. My concern is this material is in danger of being discarded or unknowingly destroyed – gone forever.'

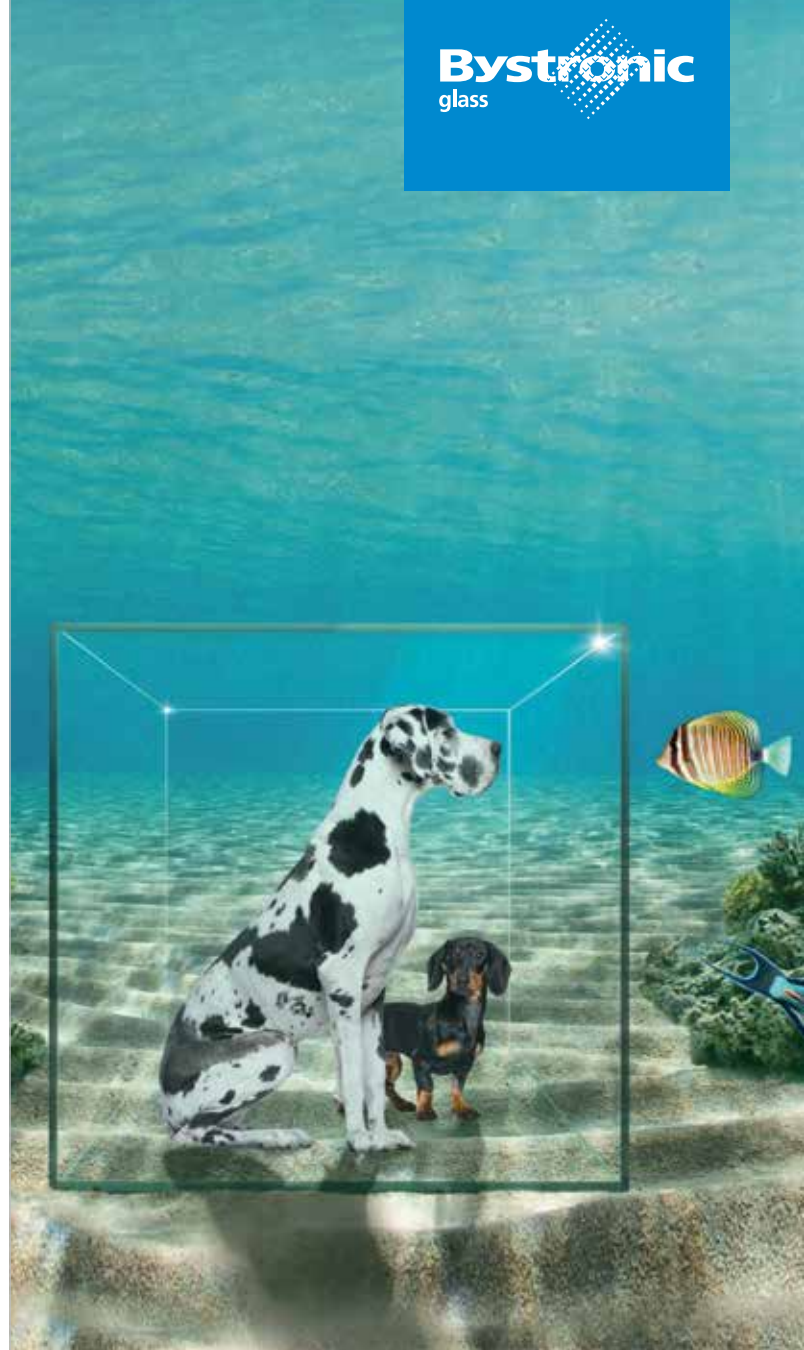
With some glass businesses having two or three generations of family in the trade, the hope is some older tools may have been stored or kept as keepsakes.

Gerard is also seeking items such as photographs, documents of interest (such as glass association minutes) and memorabilia of companies current or past.

The material could be collected and retained on a state basis or consolidated into a national 'museum' for future glass industry generations, Gerard says.

'More thought needs to be put into how it is collected or where it is displayed,' Gerard says. 'But as a starter, does the industry feel passionate about retaining its physical history?' Hopefully, the answer is yes.

Anyone with tools, support or material to contribute, or just wanting more information, can contact Gerard at gerardm@landson.com.au




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NSWGGA Awards Night



> Adrian Grocott – NSWGGA President, Mark Nicholls – TAFE NSW, 2018 Glass Person of the Year, Neil Searle – OGA



> Photos courtesy of Ludim Photography

The NSW Glass and Glazing Association held another successful annual awards night on Friday 1 June. Over 220 guests came to Doltone House on Sydney Harbour for an exciting evening, to meet up with friends and to recognise outstanding projects and individuals who have made a significant contribution to the glass industry.

After casual drinks and canapes on the front deck, attendees were invited in to the main function room, a suitably glittering display. NSWGGA President Adrian Grocott kicked off the evening with his introductory speech that started on a solemn note to recognise the life and contribution of Neil Finn who passed away earlier in the year. He also thanked the sponsors who ensure such events can happen, in particular Overseas Glass Agencies who was the main sponsor for 2018. Adrian also recognised that most of the sponsors contribute every year – not only financially, but also with their time and experience to support the association.

The first awards of the night were the three Project Awards. The Best Residential Project Over \$20,000 went to Palmers Glass for a glazed external lift shaft installed in one of Mosman's oldest homes. The judges were impressed by the clean lines achieved in a project with multiple complex glazing junctions. The Best Commercial Project Under \$50,000 went to Wellfix Glass and Aluminium for the Mode Kitchen and Bar at the Four Seasons Hotel. This project showcased curved and fluted glass in a

1920s-inspired installation that required a high level of workmanship and technical skill. This was the third year in a row that Wellfix had won this award. The last of the project awards, Best Commercial Project Over \$50,000, went to Bent & Curved Glass for a curved glass skylight and guttering system installed at the Green Square Community and Cultural Centre. The project involved nearly 85 lineal metres of 180-degree curved glass – the judges noted that the design, workmanship and technical aspects of the job were impossible to fault.

After the Project Awards, guests enjoyed a fine dinner and then entertainment from comedian and ventriloquist Darren Carr, who had the crowd crying with laughter. Kevin Ho from KOR Glass stole the show as a volunteer who, with some help from Darren, sang an Elvis Presley song and showed some of his great dance moves.

The Apprentice Awards followed next, and were presented by Mark Nicholls from Lidcombe TAFE. The Runner-Up Award went to Isaac Moiler from Express Glass and the winner was Jye Starr from Complete Glass.

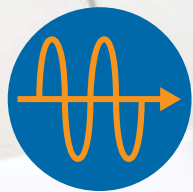
The Service to the Industry Award, which recognises an individual who has worked behind the scenes and made a valuable contribution during their career, was awarded to Reece van Vliet from Express Glass. Reece started as an apprentice at Express Glass 20 years ago, and is now Operations Manager and a member of the Express Glass Executive. Even with this senior role, Reece is often

still on the tools, passing on his knowledge and experience to others – a hallmark of his career to date.

The evening was wrapped up with the Glass Person of the Year award, presented to an individual who has made a significant contribution to the industry as a whole, often as a volunteer supporting the Association. The worthy winner was Mark Nicholls from Lidcombe TAFE. Mark has taught at TAFE for 28 years, with the last 12 of these as Senior Head Teacher, Glass and Glazing. Mark has been part of the NSWGGA committee for many years, and has been an important conduit between TAFE and industry.

Congratulations to all of the NSWGGA Award Winners for 2018.

- Best Residential Project Over \$20,000 – Palmers Glass
- Best Commercial Project Under \$50,000 – Wellfix Glass and Aluminium
- Best Commercial Project Over \$50,000 – Bent & Curved Glass
- Apprentice of the Year – Jye Starr, Complete Glass
- Service to the Industry Award – Reece Van Vliet, Express Glass
- Glass Person of the Year – Mark Nicholls, TAFE NSW



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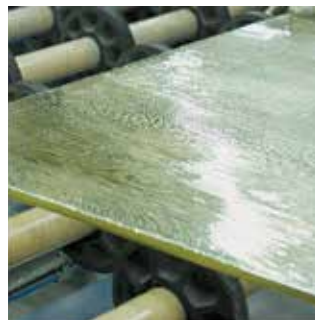
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- Airport security X-ray screens
- Lenses for safety goggles



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State Event Calendar 2018

QLD

- **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

- **Golf Day**
19 October 2018
- **AGM & Final Meeting of the Year**
14 November 2018

WA

- **AGM & Annual Golf Day**
19 October 2018
- **Christmas Lunch at Camfield**
23 November 2018

NSW

- **AGM & Annual Golf Day**
14 September 2018 – Bankstown Golf Club
- **Executive Meetings –**
Held bi-monthly on the second Tuesday of each month

TAS

- **AS 1288 Training**
July dates to be confirmed. Log on to the AGGA Tasmania website for more information – www.agga.org.au/states/events
- **AGM and Prostate Cancer Awareness & Fundraiser Lunch**
24 August 2018 – Hobart
- **Executive Meeting**
19 October 2018 – Glass Supplies Launceston

SA

- **General Meeting**
19 September 2018 – North Adelaide Golf Club



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AGGA QLD State Report

> Bill Leavey, President

We continue to prepare for our major event of the year, our 2018 Glass & Glazing Industry Awards on 20 July. I am very pleased to say we have our Platinum Sponsor, Glass 360; 11 Gold sponsors, 1st Glass, G.James Glass, NFK, OGA, CSI, AGC, TAFE Queensland SkillsTech, Viridian, Landson Glass, Dow

Corning and National Glass; and six Silver sponsors, Working Glass Group, Alspec, Suburban Glass, Auto Ingress and Trade Glass. We also have GHS supplying three tool kits for three of the winning Apprentice Awards. My sincere thanks for the continuing support of our sponsors.



> National Glass Golf Day Trophy presented by Matt Churchill.
L-R Paul Neary Matt Churchill, Kip Reid, Glen Baker and Phil French.



Our National Glass Trophy Golf Day was held on Friday 15 June at the North Lakes Resort Golf Club.

Planning for the October Safety Month event is well underway. This is an industry-led event with support from Queensland Workplace Health and Safety.

The event will be held once again at the TAFE Queensland Eagle Farm campus, and I thank TAFE for their ongoing support. We're aiming for Thursday 4 October, but this has yet to be confirmed at the time of writing.

The theme this year is Mental Health and Young Workers. Our keynote speaker will be four-time Olympic Gold Medallist Libby Trickett, the Mental Health Ambassador for Queensland Workplace Health and Safety.

Keep an eye out for the emails from Bruce Loomes with more details about this event as they become available. This is a great initiative by our Workplace Health & Safety Committee, and I encourage all members to support the day by enabling some or perhaps all of your staff to attend.

AGGA SA State Report

> Phillip Mauviel, President

Another successful General Meeting was held on Wednesday 20 June at the North Adelaide Golf Club, which included a very informative and topical presentation by our Guest Speaker, Small Business Commissioner John Chapman. John's presentation focused on the role of his office, Building and Construction Industry Security of Payment Act 2009 legislation and the Fair Trading (Building and Construction Industry Dispute Resolution Code) Regulations 2017. I encourage all members to attend the final General Meeting on Wednesday 19 September (guest speaker to be confirmed). To assist country members to be present at any of the General Meetings, we offer the opportunity of attending via Skype.

Our annual GGASA Gala Industry Awards Dinner will be held on Friday 6 July at the

Adelaide Oval. 2018 has again seen some truly outstanding entries from our members – Adelaide Glass Guys, Barossa Glass, Chevron Glass Group, Construction Glazing, Federation Glass, J Glazing, Mount Barker Glass and Pagel Glass, with the winners to be announced on the evening as well as presentations to the Industry Glass Person of the Year and Apprentice of the Year. Thank you all for your nominations, and best wishes to the winners of the Industry Categories who will be entered into the National Awards to be announced at the National Conference in August.

The GGASA would also like to take this opportunity to extend our huge appreciation to our valued sponsors of the Gala Dinner – Platinum Sponsors, Chevron Glass Group and Overseas Glass Agencies. Also to our Gold Sponsors, Viridian (Woodville), Landson

Glass, Elite Glass and Australian Independent Glass; and our Silver Sponsors – LiSEC, C.R. Laurence, Dormakaba Australia, Guardian Glass, and Pivotech; and our Glass & Glazing Safety Award Sponsor – SafeWork SA.

I am very pleased to welcome our two new members to the Association – Barratt's Blinds & Aluminium (Whyalla Norrie) and Champagne Glazing Transformations (Pooraka). We also welcome the return of Northern Windscreens (Blythe) back to the Association.



AGGA Tasmania State Report

> Michael Dalton, President

The Tasmanian economy is continuing to improve and shows no sign of easing off with new starts in both Residential and Commercial Building sectors across all regions of the state. There are significant projects being undertaken as well as proposed, which will see our industry continue its buoyant period and continue to lead the country per capita.

Projects include hospitals, hotels, school upgrades, cabin and caravan parks, along with numerous other projects both private and government as well as a record number of starts in housing.

However, with this comes the old problem of lack of skilled/qualified labour to undertake the work in all facets of our industry.

As reported earlier this year, we have a record number of apprentices currently in the industry which will serve us well in the future, but most employers are finding it difficult to acquire staff for their current work demands.

Another AS 1288 Training Workshop is planned, which will coincide with David Robinson making a return visit to promote the ACP (Accredited Company Program). Details of time and location will be advised soon.



AGGA NSW State Report

> Adrian Grocott, President



The NSWGGA held its Annual Industry Awards night on Friday 1 June 2018. You can read more about the evening in the article on page 57 of this *GA Magazine*. All who attended had an enjoyable evening, meeting friends from within the industry and sharing lots of laughs. I would like to congratulate all of the award winners this year and look forward to seeing the project and Apprentice of the Year nominations compete at the national level. I would also like to thank our sponsors, without whom the Association would not be able to hold such an exciting event.

With the imminent transition to the Accredited Company Program (ACP), many

of our members have been working hard to meet the four pillars of the ACP to maintain their accredited status after Saturday 30 June 2018. For those of you who are yet to meet the four pillars, I encourage you to seek assistance from your member services officer, David Robertson, on 0439 970 160 or at david@agga.asn.au

With the successful conclusion of the Awards Night, the NSWGGA is now starting its planning

for the Annual Golf Day and AGM, which is being held on Friday 14 September 2018 at the Bankstown Golf Club. Please lock this date into your diary and keep an eye out for booking information.



AGGA NSW Annual Awards Sponsors



GWAWA State Report

> Peter den Boer, President



We indicated previously that there was a positive sentiment about the WA economy on the back of increased mining activity and the jobs this creates. Unfortunately, we are not seeing the 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 supporting them to attain accreditation on each of the four pillars.

The National Member Services Officer, David Robertson, met with over 50 of our members, face to face in Western Australia during early April, which has resulted in many members now achieving their Accredited Company status.

Events

A joint Industry Forum with the AWA was held on Friday 11 May, with a focus on energy efficiency, high-performance glass and windows and a Standards update. Attendance was 70 members, an enthusiastic audience interested to learn more.

Social

Our Annual Awards Night, Saturday 16 June, Pan Pacific Perth; and Golf Day Friday 19 October, Wembley.

Training

Our second AS 1288 Accredited training was held Thursday 3 May, and again on 14 June 18.

Accredited Company Program

There has been interesting member response to the take up of glaziers registering in the Master Glaziers program with over 33 registered and more in the process of. We invite all to take up the opportunity to tap into the GWAWA sponsorship of your registration fee. We have encouraged all provisional accredited members to work toward completion of their four pillars before

30 June 18. At the time of preparing this report we had eight Accredited Companies in WA, and 14 with only one pillar to complete.

David Robertson, our AGGA National Member Services Officer remains available to any members who wishes to seek assistance with ACP and support in their four pillar completions. Patrick Gavaghan the AGGA Training Manager is also available to assist any members to support them in registering for either the Certified or Master Glazier registrations.



AGGA VIC State Report

> Nic Reid, Vice President



AGGA Victoria recently hosted our 'For the last Time' awards night at the Notting Hill Hotel. During the evening we celebrated and recognised Brett Carter from Stegbar as our Apprentice of the Year, and honoured Leon Stevenson for his generosity and willingness to educate our industry during his career in the trade, which is coming to an end. AGGA provided our industry with an update on AGGA National, and Gerard McCluskey reflected on the opportunities and changes

he's seen in our industry to inspire our next generation. We would also like to take the opportunity to thank our sponsors and members for attending and making it an enjoyable evening.

AGGA Victoria now have ten fully accredited companies in Victoria, with the momentum building.

We have our Golf Day coming up in October and are seeking expressions of interest to attend.

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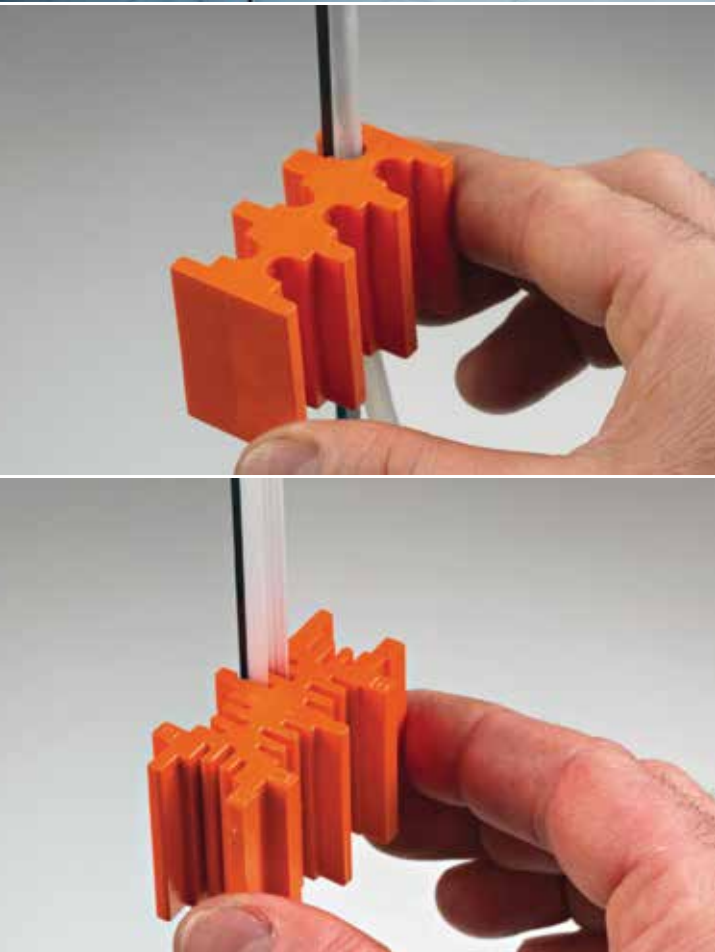


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