Our official Introduction to the AWA-AGGA Board page 6
An AGGA Retrospective page 10
Case Studies –
Yagan Square WA (Com-AL Windows) page 32
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Putting digitalization into practice
Reaching the first milestones

By the end of 2018 and according to plan, Glaston successfully reached several of its big milestones: over 100 tempering and laminating lines are now cloud-connected, and data from 1 million loads has now been recorded.

Growing numbers of glass processors are joining the digitalization movement because they understand the advantages. At the moment, 38 countries are represented with the largest number of processors being located in the US, Europe and then followed by Asia-Pacific.

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Welcome to what will be the final edition of GA Magazine as we know it. It is a time of mixed emotions as we begin to say goodbye to some long-term and familiar traditions of the previous Associations and look forward to a new and exciting next chapter as a stronger and larger merged Association.

It is fair to say the first couple of months of the merger have thrown up some unexpected challenges. Nevertheless, the team has risen to and answered each with relentless dedication, and, for that both the Board and I are extremely grateful.

Work continues in earnest on the combination of billing systems, websites and other functional responsibilities. We have also hosted several state information sessions, all of which have been extremely well-attended and for which the feedback has been overwhelmingly positive.

Preparations for AusFenEx19 are in full swing, and by all accounts it promises to be a fantastic event in the sensational surroundings of the new International Convention Centre at Darling Harbour. As we focus on the great deal of work still left to do to bed down the new organisation, I would like to take this opportunity to thank all of the people who have contributed to and helped promote and publish GA Magazine over many years. We sincerely hope you enjoy this final commemorative edition.

As the year progresses for our Association, I am constantly heartened by the goodwill and collaborative nature embedded within the people of our industry. From seasoned campaigners who have given so much to contribute to the success and development of our industry, and indeed our Association, with the new apprentice or trainee who are forging a career, perfecting skills, and discovering a real sense of achievement as they learn more and explore their opportunities – each and every one is contributing to the advancement of our diverse and multi-faceted industry.

While every workplace is moulded by the customers who serve, the products they manufacture and their peers, as an industry we have opportunities to celebrate and recognise the truly exemplary. Whether it be the talented enthusiasm of a fantastic apprentice, recognition of the years of sacrifice and engagement by our industry leaders, or the desire to ensure better safety outcomes are delivered, the time to celebrate them is now.

To those who have not had the fortune to understand the impact these individuals can have on your business, I encourage you to join us in the upcoming awards and celebrate the bright future we have when it is so clear that the good are getting better and the better are excelling. To those of you who know or work with one of these individuals, we encourage you to nominate them or inspire them to put their hat in the ring.

It is in this light that I would like to encourage all members to reflect on the work they have done throughout the year that illustrates design excellence. The new State and National Design Awards are coming fast upon us and are within everyone’s reach. The new design categories have been devised to ensure a place for everyone, and by all accounts it promises to be a fantastic event in the sensational surroundings of the new International Convention Centre at Darling Harbour. As we focus on the great deal of work still left to do to bed down the new organisation, I would like to take this opportunity to thank all of the people who have contributed to and helped promote and publish GA Magazine over many years. We sincerely hope you enjoy this final commemorative edition.
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## Editor’s Notes

**Welcome to our May edition of GA**

Meet our new AWA-AGGA Board on page six. Their collective experience in both the glass and window industries is unmatched - we have included a brief introduction to each member to note their expertise and detail their current role.

With the assistance of several current and past members, we have prepared an editorial outlining key achievements and milestones of the AGGA. In talking with a couple of our industry icons and reflecting on the past 60 years of the Australian glass and glazing industry, we’ve attempted to accurately capture the highlights. Passion, commitment, creativity and vision were the clear drivers of both the AGGA and our industry as it evolved, and that continues.

This edition of GA includes more on AusFenEx19, (if you haven’t registered, book now!). We feature details on our expanded training and accreditation programs, case studies and we’re packed with industry news and updates.

This is our final edition of Glass Australia magazine - just a couple away from reaching our milestone of 100. Our team have thoroughly enjoyed working with the AGGA over the years, and taken tremendous pride in producing every edition of GA. I thank and recognise the talents of our past and current team in design and production for their enormous effort.

An exciting time ahead for the glass industry, we’re onto another chapter.

Enjoy the read.

Jill
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Jeff Rotin – AWA-AGGA Limited Chair

Jeff Rotin is the CEO of Dowell Windows Pty Ltd and has worked in the window and door industry for over 25 years. Starting as a cadet engineer with Dowell, Jeff occupied various design and engineering roles within the wider Boral Window Systems business which included other well-known brands such as Australian Metal Products, Aluminium Building Products, KM Windows, Wunderlich Windows and Robb & Brown. In 2000, Jeff joined the Crane Group and was appointed National Research & Development Manager, he commenced employment with Capral in 2005 as National Manager, Marketing and Technology before re-joining Dowell in October 2017.

Jeff has been responsible for the development of numerous aluminium products ranging from windows, doors, commercial systems, curtain walls, showers, robes and security products. Most recently, Jeff was the acting Chairman of the Board of the AWA, a past member of the AWA Technical Committee, a past chairman and member of the AWA Commercial Committee.
Clinton Skeoch – AWA-AGGA Limited CEO

Clinton Skeoch, the newly appointed Executive Director and CEO of AWA-AGGA Limited, has close to 20 years’ experience across the building products, research and development and member services industries, including supply chain management; sales; marketing; export market development; strategic management and planning; research and development; and industry advocacy.

Prior to his role at AWA-AGGA, Clinton was with Boral timber for over 11 years where he was the National Market Development and Supply Chain Manager. During that time he was also in the role of Chairman of the Timber Development Association. At Boral Timber, Clinton was responsible for the optimisation and integrated production and distribution planning of eight production sites and seven warehouses across Australia. He was also responsible for the product and market development strategy for Boral Timber’s hardwood business.

Clinton is widely recognised for his passionate collaborative style in working with industry stakeholders and aligned partners.

Liz North – AWA-AGGA Limited Treasurer

Liz North is Director and joint owner of Add-Vantage Systems Pty Ltd (trading as AVS Windows and Doors), based in Tuggerah, on the NSW Central Coast. With a background in administration and finance, Liz first joined the window industry 40 years ago in 1979, working with a large NSW fabricator group.

AVS Windows and Doors is an independent company which commenced operation in 2005. AVS employs just under 30 in their local manufacturing, administration and sales team, supplying and installing quality window systems to NSW’s higher-end residential and commercial building and construction industry.
Greg Hunt is a Director of G.James Australia and General Manager of their Glass Operations. Greg began his career at G.James as an apprentice glazier/glasscutter back in August 1979 and celebrates 40 years in the industry this year. He spent 20 years responsible for the G.James Malaysia glass manufacturing operation, and has been involved in many different and varied roles during his time at G.James. Greg is a past President of both AGGA National and AGGA Qld, and is extremely passionate about both the glass and window industry.

Roy Loftus and his son Glen are owners of Nu-Look Windows in Perth, which is a third-generation family owned aluminium window fabricating business, currently employing 26 staff. Roy has been with Nu-Look windows for 50 years, and over that period has been involved with the state-based window and glass associations. He played a part in the merging of the WA branches of the Architectural Aluminium Fabricators Association and the Glass Merchants Association in the late 1990s. Roy has been a strong supporter of the merger of the AWA and AGGA for a number of years and is proud to have been on the AWA board during this period.

Roy believes the new AWA-AGGA will offer a more unified service to its members and a stronger voice as the glass and window industry’s peak body – all businesses in the industry, small or large, really can no longer afford not to join.

Wayne Cook joined the glass industry in 1984 as an apprentice Glass Cutter and Glazier for Young’s Glass in Tamworth, NSW. In the following 35 years, Wayne has held roles across all industry segments, including O’Brien Brief, G.James Glass and Aluminium, window systems supplier, Aluminium Systems, hardware suppliers, Lincoln Sentry and JP Hardware, and the last 12 years at ASSA ABLOY, the global leader in door-opening solutions. Wayne has invested heavily in the Australian window and glass industry, and understands the need for an industry body that drives standards and compliance while providing its members with a voice.

David Brogan is the CEO of the Breezway Australia group, a local manufacturer of leading louvre window technology. Breezway is part of the global JELD-WEN group of companies. David has held this position for the past nine years, recently celebrating a 30-year career in the Australian window industry. He commenced his career with Crane Windows and also worked for Boral, Dowell and James Hardie in various sales roles. David has a Master of Business Administration, and is responsible for Breezway businesses in Australia, Malaysia and Hawaii.

Gerard McCluskey is Managing Director of respected glass importer Landson Glass Pty Ltd. He joined Landson Glass in July 2011 after being a founding Director – Sales & Marketing of DMS Glass (1986–2007) and spending three years with CSR/Viridian, assisting with merging of the Pilkinson-DMS Glass businesses to form Viridian Glass (2008–2011).

Gerard’s career in the glass industry began in 1974 in Warrnambool, Victoria with EL Yencken, later known as Yencken Sandy Glass. He began working in the factory assembling shower screens, processing glass, deliveries and sales. After relocating to Yencken’s Head Office in Melbourne in 1977, Gerard progressed through management roles in Sales, Commercial Contracting, Branch Management, State Management and National Management until the sale of Yencken to T&K Glass in October 1985.

Reflecting on his 45 years in the glass industry, Gerard’s proudest achievements were accomplished in his role with the DMS Glass team. Gerard has been a long-term supporter and advocate of the AGGA. He is an enthusiastic Board Member of the new AWA-AGGA, keen to achieve positive outcomes for Members and the wider industry.

Adrian Grocott is Owner and Managing Director of glass replacement group, Express Glass. In recent years, they have expanded their operation from NSW to service commercial contacts nationally. Adrian has spent a lifetime career in the glazing industry, initially working in the family glass business learning the trade while studying Business Management. He started his own glazing business at 21, operating as a sole trader for nine years before rejoining the family business at Express Glass.

Adrian has been an AGGA National Board Member since 2016, including 1 year as Vice-President. Adrian has been an active member on the NSWSGA committee, Vice-President 2016/2017, and President 2018.

Paul Gray’s experience in the window industry covers 40 years. After a career with some of Australia’s major window manufacturers, he has been the Managing Director of the Southern Star Group of companies since starting the business in July 2002. Over the last 17 years, Paul has lead the significant growth of the business, with the Group now employing more than 600 people in 7 branches Australia wide, and comprising the brands Southern Star Aluminium Windows and Doors, Canterbury Timber Windows and Doors, Homview Windows and Doors, and Southern Star Glass, with the recent introduction of doors and fixings delivered to the market under the Big J brand.

Phillip Mauviel's career has been centered on business development and growth, spanning a range of industries from retail, franchising, construction and business coaching. He entered the glass industry 7 years ago as General Manager at Hartley Glass, bringing a fresh dynamic and perspective to an already successful family business, overseeing productivity improvement, sales growth and the acquisition of the divisional rights for Jim’s Glass across Australia. Phillip oversees the operations of Hartley Glass and their local Jim’s Glass franchise network.

Phillip served as President of the AGGA SA for 4 years and sat on the board of the AGGA for the last 2 years prior to the merger.

Peter denBoer is Head of Glass and Technical at Jason Windows, one of Western Australia’s largest window fabricators and glass processors, supplying the residential and commercial market locally.

Peter has been employed at Jason Windows for the past 35 years, having enjoyed a lifetime career in the glass and window industry. A long-standing supporter of the industry, Peter was previously a long-standing committee member and State President of the GWAA, a valued member of the National AGGA Board, a contributor and member of both the AWA and AGGA Technical sub Committees, member of IGMA and management Committee and AGGA National Safety Committee.
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FUTURE IS HERE....

Valuing the past as we move into the future with our new stronger merged Association
In central Melbourne stands a colossal, gleaming symbol of Australia’s dynamic glazing industry. At 251 metres, the Rialto was the nation’s tallest skyscraper when finished in 1986 – the world’s second-highest. Encased in a 40,000m² blue-tinted glass curtain wall façade, the entire structure transforms into a brilliant gold beacon at sunset.

At the time, there was significant trepidation about the safety and suitability of glass to clad this massive structure. This begins the story of how the moustachioed, heavily built property developer Bruno Grollo stood before a group of potential tenants on the 55th floor... then suddenly turned and ran to hip-and-shoulder the windows, harmlessly bouncing back.
Now retired, Bruno chuckles at the oft-repeated tale. ‘I keep telling people I didn’t do it, but the myth endures,’ he says. (The legend even made glass supplier Pilkington’s newsletter at the time.) Bruno notes that one of his project managers did use this dramatic technique to demonstrate his product’s safety, and the story appears to have grown in the telling.

Explaining his choice of glazing for the Rialto, Bruno said he’d admired an all-glass building in Boston, but was concerned at reports of glass panels falling off. Pilkington, conscious that Rialto would be their biggest-ever Australian contract, worked extensively to ensure the engineering was sound and the glass energy-efficient.

Melbourne quickly embraced this architectural marvel, with one paper describing it as the ‘zenith’ of reflective glass architecture whose ‘grandeur had no parallels in Australia’.

Although the award-winning building looked spectacular from afar, Bruno maintains its best feature is the magnificent floor-to-ceiling views from every level. ‘The Rialto’s stood the test of time,’ he says. ‘Many people tell me it’s still the city’s best-looking building – but we also built the glass-clad Eureka Tower, also a nice-looking building.’

The Rialto Tower, along with a whole raft of beautiful glass skyscrapers Australia-wide, remains a signpost of the remarkable development of the Australian glass industry over the past 50 years as glass processing technology and applications expanded dramatically.

But how did Australia come to embrace this most modern of materials? To find out, let’s outline the story of AGGA’s role in the industry’s dizzying rise, from the mid-20th century to today – with all its twists, turns, and fascinating characters.
From little things, big things grow

Driven by hardworking visionaries, techniques developed in Australia have since spread across the globe. Small family firms grew into major players, with widespread consolidation and escalating international competition further reshaping the industry in recent years.

Through these turbulent times, the AGGA and its predecessors played a crucial role in maintaining focus on safety, training, standards and energy efficiency, championing professionalism and the entire industry.

A fledgling industry in the 1960s

Many of those who shaped the industry began on the factory floor. These include NSW icon Ted Oberg, who arrived in Sydney 60 years ago looking to learn a trade and began hand-bevelling glass. When that trade was overtaken by technology just four years later, he began his own small glazing business. ‘We purchased some processing equipment, and Sydney Glass grew from there,’ he says.

With competition intense, Ted sought a more efficient glass-cutting method. He found one by developing the speed cutter – the T-shaped frame with an adjustable head, dramatically reducing the time and manpower required for efficient cutting. ‘We started selling speed cutters to America 40 years ago,’ Ted remembers. ‘We’ve now sold nearly 100,000 and they’re still very popular there.’

Another of Ted’s inventions, the free-fall method of glass handling, also became a worldwide smash. ‘I got the idea when we were glazing a house with a new concrete floor, and the wind blew this big piece of door glass over,’ he says. ‘Amazingly, it didn’t crack – it turned out the air underneath cushioned the fall.’

This creativity and vision enabled Ted’s Sydney Glass to keep pace with the industry’s ongoing revolution, with the 20 varieties of glass originally sold by the business expanding to more than 140 today.

Steadily growing in the 1970s

Glass companies including Oliver Davey, T&K, Yencken Sandy, O’Brien and G.James grew into national operations with major processing capabilities during this decade, with several branching out into construction and installation. Yet one player had progressively become dominant – Pilkington.

Change has been a constant in Australia’s glazing industry, and Pilkington played a major role. The early move from timber to aluminium frames prompted a shake-up – but ACI’s construction of Australia’s first major drawn glass manufacturing plant, under license from Pilkington, really ushered in a new era.
Pilkington became dominant in the ACI joint venture in 1972, with the plant’s subsequent conversion from drawn to float glass. Product lines were basic, but demand was exceeding supply. ‘It became a bit of a closed shop, with Pilkington determining who was best-suited to take their product,’ says Don Mathieson, a situation which would continue for some years.

By decade’s end, with a second float tank planned in Sydney, Pilkington set about acquiring most of the major glass processing companies – their own customer base – to secure their market. While shoring up their position, this placed them in direct competition with other customers. The move eventually reconfigured the industry’s dynamics, contributing to the gradual erosion of Pilkington’s reign.

The conflict became increasingly visible. After Pilkington CEO, John Paterson, presented to a national conference, G.James Managing Director, Joe Saragossi, asked: ‘Mr Paterson, tell me one thing. Am I a customer or competitor?’ Paterson simply couldn’t answer. It was a symbolic moment, suggesting that the days of the industry being defined by a single player were numbered.

**Diversifying in the early 1980s**

Throughout the first half of the 1980s, Pilkington expanded voraciously. The company’s growth led to the acquisition of several large customers, including Oliver Davey Glass and T&K Glass. T&K purchased Yencken Sandy, whose team decided to go it alone by founding DMS Glass in 1986.

Despite grumbles about a ‘glass mafia’, the 1980s market was highly lucrative. While Pilkington reaped major benefits, smaller players also profited from a tightly-structured industry. For the first time, Australia now had a local glass manufacturer to outmuscle most overseas suppliers.

Pilkington’s expansion accelerated during this era. It began manufacturing larger and larger sheets in its float glass line of up to 4.5m x 3m, which companies such as T&K bought in bulk and cut to size. This system, with Pilkington supplying glass to other companies, further expanded glazing’s construction applications.

**A new player – The G.James story**

At this point in the narrative, another figure becomes crucial. Enter industry visionary and entrepreneur Joe Saragossi, who, in the words of past AGGA Executive Secretary Ian Koochew, built G.James ‘from a minor player to an industry giant’. Ian got his start with Pilkington, before later taking a leading role in various glass industry associations.

Saragossi’s ambitions were already clear in the 1960s, when aluminium began gaining popularity as a framing material. In response, he pushed his company into manufacturing and installing aluminium windows and doors. During the 70s and 80s, G.James ‘became one of the nation’s biggest glass processors and window manufacturers,’ Ian explains. ‘Seeing safety glass’s enormous potential, Joe pushed safety standards and lobbied for safety codes.’

Joe, together with his sons, Barry and Lewis, who eventually joined the company, commissioned plants to toughen glass, expanded products and processing capabilities, later moving into insulated glass manufacturing. Their resourcefulness kept G.James leading the pack, supplying specialty-coated glass performance products which were increasingly being imported from Europe.

‘Europe was then far advanced in glass processing, cutting tables, polishing machines, drilling machines, and equipment that gradually made its way to Australia,’ said Don Mathieson, DMS Glass. ‘With more accurate processing and semi-automation, manual skills began to fade.’

Joe’s modernising influence was taken up by a raft of similarly ambitious companies. ‘In the late 70s and 80s, other Australian companies such as National Glass, Chevron, Moen Glass, Bevelite, Cooling Bros., Walshs and FGI began investing in processing technology,’ says Ian Koochew. ‘As Australian Standards were rewritten and glass transitioned from a weather barrier to an architectural and environmental feature, these investments slowly paid off.’
Forming nationwide links

Despite this rapid pace of change, Australia’s glazing industry lacked a unified national body during the 60s, 70s and early 80s. Each state had its own glass merchant association, operating largely autonomously.

In 1984, still-dominant player Pilkington established the Flat Glass Council, viewed with some suspicion by the state associations. It took a successful safety campaign to finally win their support, along with that of the major suppliers. O’Brien’s advertisement showing a frightened child cowering behind a fractured piece of glass became the centrepiece for the newly formed council’s ‘Safer for Life’ campaign.

A national TV campaign was undertaken, and extensive promotional material distributed widely.

‘Glaziers and manufacturers got behind this rip-roaring success,’ recounts Ian, then Pilkington’s primary representative to establish and run the Flat Glass Council. ‘The campaign had an enormous impact on consumers, with safety glass becoming central to industry.’

After some lengthy struggles, toughened, laminated and safety glass, (initially wire-reinforced) were adopted into the national building standards. The industry was reaping the benefits of cooperation, foreshadowing the energy efficiency campaigns a decade later.

Setting safety standards in building codes became a priority, with many ‘cowboys’ operating. ‘We got our house in order by establishing a glazing code and training systems,’ Ian notes. Annual conferences were also established, spreading knowledge and binding the entire industry together in a way it hadn’t been before.

Greg Hunt, former President of the Queensland AGGA and past AGGA National President before joining the new AWA-AGGA board, remembers his first industry conference at Kooralbyn Valley Golf Club. ‘I couldn’t believe how much those blokes could drink!’ he recalls.

While many businesses remained family-based, the industry’s character changed further at the close of the 1980s with consolidation, improved technology, automation and growing international competition. With glazing increasingly taking place offsite, decorative glass became a major architectural feature, along with glass-clad buildings such as the Rialto. Energy efficiency also took on increasing importance.

A major campaign began in the 1980s, coinciding with growing environmental consciousness. Together, the AGGA and the AWA devised a system of highlighting window efficiency known as WERS (Window Energy Rating Scheme), seed-funded by both organisations and aided by an Australian Greenhouse Office grant.

Both organisations have been equally passionate about the cause. ‘From its inception in the 1980s, the system was a major commercial success,’ Ian Koochew says. ‘Queensland was the first to introduce legislation, and the 5-star rating system heightened awareness of glazing and window solutions among national regulators responsible for improving energy efficiency. Other states followed as double glazing became standard, creating a new industry sector, increasing value and benefiting property owners.’

A decisive shift – the 1990s to today

When Pilkington’s Dandenong float tank first rebuild shut the line down for six months in the late 80’s companies went offshore to service demand. ‘The shutdown changed the industry dramatically,’ says Don, ‘accelerating the importation of glass from Indonesia, China, Japan and Malaysia.’ With China circling, Pilkington began losing dominance to imports. Toughening, laminating, curving and double-glazing continued their growth into the 1990s, with processing and machinery increasingly coming from China.

This tumultuous decade proved momentous in other ways, as the AGGA was formed in 1994 from the Flat Glass Industry Association. With Ian Koochew as Executive Secretary, AGGA promoted industry, broadened opportunities and interest in membership from traditional glass merchants and processors, and began building a genuinely united national voice by influencing government policy.

The imperative to raise national glazing standards required judicious regulation. Glazing was not a licenced trade, lacking entry barriers. In response, AGGA began accrediting companies and fostered a series of training programs upgrading industry expertise. These efforts have continued right up to today, culminating with the recent launch of the Master Glazier and Accredited Company Programs.
AGGA’s burgeoning role
This period saw AGGA’s public profile grow. From modest beginnings, the industry magazine began in the late 90s – initially a four-page leaflet, now a full-colour 60+ page magazine with a 4,000-strong distribution. AGGA’s publication became integral in providing industry with a coherent national voice.

AGGA also provided legal and HR backup to many small-to-medium-sized firms, leading to a sometimes-feisty relationship with unions. AGGA Victoria State Secretary, Don Blanksby, wasn’t battle-shy, leading to a union official following him, taking his picture, and printing it on posters under the unforgettable moniker: ‘The Glasshole’.

With much of AGGA’s work pursued at a state level, dedicated State Secretaries included Ferdie Kroon; Tas and Mike Wood; Qld’s Bruce Loomes; SA’s Jay Lynch, Mike and Sue Patfull; NSW’s Greg Hayes and Tony Pearsall; and WA’s Frith Vanirsen and Chris Lavender. Every State Secretary demonstrated their passionate commitment and dedication to their role, together with their skill in hosting memorable Golf Days and other events. George Fethers (a Perkins family business, with four generations in the industry) and OGA (the Searle family) are also crucial for their outstanding commitment to developing the industry and providing support.

Embracing efficiency
Throughout the first two decades of the 21st century, AGGA’s impact on industry was keenly felt. A communications campaign was launched in 2006, informing major users, industry bodies, government and consumers that glazing could cut heating costs by 40 per cent. AGGA saw the 5-star Energy Building Regulations finally introduced into the BCA in 2009 as just the first step, continuing to support increased energy building regulations and more rigorous enforcement.

As energy costs spiral and general awareness of climate change’s impact spreads, specification of energy-efficient glazing systems has increased Australia-wide. Many builders and developers have taken industry’s lead on efficiency, with their buildings performing well above current regulations.

Over the years, forward-thinking industry members oversaw and influenced enormous change via AGGA, including improved safety, decorative, solar and energy-efficient glazing. There was also extensive emphasis on standards, safety and communication of global trends.

Internal glazing applications have risen exponentially. Balustrades, bathrooms, kitchens, and furniture – decorative and coloured glazing systems have fuelled increased use of domestic and commercial glazing, with glazed expanses a major feature. Glass has taken the lead as many architects’ preferred contemporary building material, to the point where there’s more glass inside most new buildings than on the façade.

There remained a wary rivalry between the glass and window industries, despite their co-dependence. However, with many window manufacturers acquiring cutting machines, the dividing line gradually blurred. Many glazing companies also decided to vertically integrate, with toughening, laminating, curving, and double glazing developing strongly throughout the 1990s and 2000s.
Glazing, present and future

Pilkington had lost dominance by the turn of the century due to the rise of imports from Asia. With market share and margins eroded, beset by controversy and fines in Europe over alleged price-fixing, Pilkington sold its Australian operations to CSR in 2007, who rebranded the business as Viridian. Closing its second Sydney float glass plant in 2012, Viridian was sold to private equity player Crescent Capital in late 2018.

That coda further demonstrated the industry’s evolution. ‘Consolidation has continued, with many traditional family glass businesses now publicly or private equity-owned,’ says former AGGA President, Greg Hunt. ‘Industrial change has also been paramount over the past 10–20 years. Automation has grown beyond projections, sadly resulting in many of the core skills of our glass cutters and bevellers being lost.’

As immediate past AGGA president, Greg was one of many who devoted time and energy to guide the merger with the Australian Window Association. ‘There are multiple synergies between today’s glass and window industries, including energy regulations, building codes, industrial relations and compliance,’ he says. ‘There’s no longer any logical reason to maintain dual associations when a singular voice and message can more effectively influence government and service our members’ needs.’

Ian Koochew also sees the AWA-AGGA as a more effective communicator to Government and the community. While acknowledging the challenges, he is tremendously proud to be involved in an industry with the foresight and courage to comprehensively modernise.

‘For a half-century, our industry has led the transformation of city skylines with brilliant all-glass designs, while homes were transformed by safety glass, energy-efficient glass, and massive glazed sheets offering uninterrupted views,’ Ian comments. ‘People will always love natural light and feeling connected to the outdoors, which only glass provides.’

With AWA-AGGA striding into a bright future, the glass and window industry’s solidarity will ensure that glazing continues bringing more comfort and light into our lives.

Our sincere thanks to all that assisted in the research and preparation of our glass industry retrospective.

Thank you Bruno Grollo, Greg Hunt, Ian and Glenda Koochew, Gerard McCluskey, Don Mathieson, Vic Moen, Ted Oberg and Rodney Hoyle (reference taken from his historical account).

THE AGGA TEAM 2019

MORE ICONS THAT HELPED SHAPE OUR INDUSTRY

> Alan Bremner - Bremner Glass Equipment. Life-time career in glass. BGE continues on.
> Noel Stokes - ex Pilkington. Life-time career in the glass industry and key driver of Industry Standards
> Phil Davies - Dupont / Kuraray. Internationally renowned expert on laminates
> Don Mathieson - Founder and Managing Director of DMS Glass. Lifetime in glass
> Peter Laing - ex Chevron Glass and Pilkington. Founding member AGGA Technical Sub-committee
Ballistic Guard is designed for use anywhere there may be a threat of possible theft, violence or intimidation by firearm attack.

Specially constructed of multiple layers of glass, PVB laminate and clear polycarbonate, you can feel safe that Ballistic Guard will provide protection against armed attack.

When fired at, Ballistic Guard is designed to slow the bullet down and trap it within the glass. Although composed of many layers, it maintains the normal appearance of glass and allows the best of natural light to pass through.

Some applications for Ballistic Guard may include – embassy buildings, hospitals, banks, government buildings, schools, jewellery stores or in defence marine & land vehicles.

Ballistic Guard meets resistance to defined attack under the AS/NZS 2434 standards.

Ballistic Guard Maximum size 3050mm x 2050mm.

<table>
<thead>
<tr>
<th>Classification of Panel</th>
<th>Calibre</th>
<th>Ammunition</th>
<th>Measure Velocity within 2.5m of target (m/s)</th>
<th>Minimum Range (m)</th>
<th>Number of strikes</th>
<th>Number of strikes</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1</td>
<td>357 Magnum</td>
<td>10.2 g soft point semi jacketed, flat nose</td>
<td>450 ± 15</td>
<td>3</td>
<td>3</td>
<td>Shot centres 100 ±10 mm apart forming an equilateral triangle within square of 200 mm per side centrally located on panel.</td>
</tr>
<tr>
<td>G2</td>
<td>44 Magnum</td>
<td>15.6 g soft point semi jacketed, flat nose</td>
<td>480 ± 15</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>R1</td>
<td>5.56 mm</td>
<td>M 193 5.56 mm 3.6 g full metal case bullet</td>
<td>980 ± 15</td>
<td>10</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>R2</td>
<td>7.62 mm</td>
<td>NATO standard 7.62 mm 9.3 g full metal case bullet</td>
<td>850 ± 15</td>
<td>10</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
AUS FEN EX19

27-29 August

Thank you to all our generous sponsors

Gold Sponsor

Silver Sponsor

Bronze Sponsor

Gaia Dinner

Casual Dinner
Anticipating your Company at AusFenEx19!

Australia will soon again play host to one of the region’s premier glazing and window events – AusFenEx19, which is set to unfold in Sydney from 27–29 August. To be held at the internationally acclaimed setting of the International Convention Centre Sydney, Darling Harbour, AusFenEx19 will provide all attendees with a close-up view of the region’s largest gathering of window, skylight, glass and security screen industry leaders.

AusFenEx19 is the much-anticipated industry conference and exhibition of the AWA-AGGA Limited, the National Security Screen Association (NSSA) and the Skylight Industry Association (SIA). To be held every two years, AusFenEx provides all attendees with unprecedented access to an impressively comprehensive gathering of industry professionals.

As with previous events, AusFenEx19 will attract a diverse range of industry delegates – over 700 attended AusFenEx16, and this event is shaping up to be bigger still. Attendees arrive from all over the world to learn more about our industry, view new innovations, technologies and work practices, while learning about the key issues that affect our local industry – all set against the picturesque backdrop of Sydney’s social and informative networking environment.

Of course, AusFenEx19 is about much more than networking – there will also be broad discussions on a range of important issues. Commencing with the Welcome Party on Tuesday 27 August, which will be the grand opening of the Trade Exhibition. Wednesday 28 August will be Day One of plenary keynote talks from industry leaders. This will pave the way for a series of informative concurrent breakout sessions on Thursday 29 August, where world-renowned experts address specific industry segments and audiences.

Early forecasts are indicating the exhibition itself will have record numbers participating, showcasing new technologies and innovative solutions from around the globe. As glass, windows and doors are among the top ten products architects, designers and builders seek out at trade exhibitions, AusFenEx19 delivers on exactly what they’ve asked for. AusFenEx19 aims to create a world-class trade exhibition of windows, glass and industry-related products and services.

The exhibition will also be open to the wider design industry and general public on Wednesday 28 August. The sheer scope and breadth on display this year in the exhibition area is genuinely impressive. The high-capacity exhibition area and conference venue will be fully utilised, with the adjacent theatre also hosting short presentations throughout Wednesday and Thursday.

On the exhibition floor itself, be prepared for a uniquely comprehensive combination of large-scale machinery displays and booths. Together, these exhibitors form an indispensable bank of hands-on practical expertise, encompassing every corner of our growing industry.

Acclaim-worthy innovators will be honoured in the AusFenEx19 Design Awards, presented on Thursday 29 August at The Star, Sydney. A significant event such as this has already attracted many prestigious sponsors seeking to boost their global exposure … but of course, the more the merrier. We would like to invite you to take full advantage of this unique platform in the esteemed company of leading industry lights. Contact us for your chance to become a Key Sponsor.

AusFenEx19 Trade Exhibition and Conference promises to be an event to remember, offering an unparalleled cross-section of everything glazing and window-related. Book your place now to avoid missing out – and prepare to experience our industry’s premier event in the unforgettable setting of Sydney’s Darling Harbour.


Women in Windows Lunch & Notepad/pens  
Golf Day  
Coffee Cart  
Delegate Bags  
Lanyards  
Welcome Party  
Keynote Speaker  
Softtech  
Alspec  
Southern Star Group of Companies  
Viridian  
Technotorm  
Glaston  
Allegion  
Capral Aluminium  
AWS
CALCULATING PRODUCTION COSTS JUST GOT EASY

Visit [elegantig.com.au/calculator](http://elegantig.com.au/calculator) to help calculate your Insulated Glass (IG) Sealed units material and labour costs. This calculator will also output a guide to achieving your target margins and generate comparative costs for producing sealed units taking all material costs into account. We hope this will assist in decisions relating to manufacturing methods and the material components used in making the highest quality and performance IG sealed units.

James Castrission - Keynote Speaker

James Castrission is an Australian explorer who enjoys pushing himself to the limits, both mentally and physically.

In 2008, alongside friend Jonesy, the duo paddled 3318km with no assistance across the Tasman Sea, becoming the first kayakers to cross the Tasman Sea as well as the longest transoceanic double kayak expedition. They braved treacherous environmental conditions including wind, rain and 10m swells as well as sleep and food deprivation. When the pair arrived on the shores of New Zealand they were exhausted both physically and mentally, sunburned, and underweight but ecstatic that they were both alive and had completed what they set out to do.

On January 26 2012, the pair again made history by completing the longest unassisted expedition across the Antarctic. They walked from the edge of Antarctic to the South Pole, and then returned. They spent 89 days skiing the 2275km required to make history.

James has also written and published two books titled ‘Crossing the Ditch’ and ‘Extreme South’, both based on his adventures.

Nicole Eckels - Women in Windows Guest Speaker

Fragrance aficionado Nicole Eckels launched Glasshouse Fragrances in 2006 with a spark of imagination and a belief in the power of fragrance to transform the everyday. Since its launch nearly a decade ago, Glasshouse Fragrances has quickly grown to become a leading brand in the Australian fragrance market. Nicole has expert knowledge in fragrance classification, olfactory families and fragrance trends. Her wealth of knowledge, warm personality and cheeky sense of humour make her an engaging speaker.

Andrew Klein - AusFenEx19 MC

Director of Spike Presentations Andrew is one of Australia’s leading Professional Conference MC/Facilitators and a Presentation Skills & Pitching Skills speaker and trainer.

A former corporate lawyer, Andrew quit the law in the late 90’s before starting up his own business as a corporate trainer and speaker.

Geordan Murray - Economic Update

Geordan joined the HIA Economics team in 2010 with a broad background in banking and finance. Within the Economics team Geordan manages HIA’s residential building forecasting program and is the author of a number of HIA’s economic publications. In his time with HIA, Geordan has become a trusted source of economic analysis, industry research, construction activity forecasts and insightful commentary.

Conference Registration, visit www.ausfenex19.com
Floor Plan and Exhibitor List

Company & Booth Number

1. Australian Glass Group
2. Vipac Engineers & Scientists
3. Jolong Window and Door Systems
4. Ultimate Windows
5. AWA-AGGA
6. AWA-AGGA
7. NSSA
8. Archie Hardware
9. Anthony Innovations
10. Jolong Window and Door Systems
11. Admil Adhesive Pty Ltd
12. Admil Adhesive Pty Ltd
13. Quattrolifts
14. Still Available
15. G.James Australia Pty Ltd
16. Built Environment Channel
17. ASSA ABLOY Australia
18. ASSA ABLOY Australia
19. ASSA ABLOY Australia
20. ASSA ABLOY Australia
21. Breezway
22. G.James Australia Pty Ltd
23. IG Blinds
24. Elegant IG
25. Glaston Finland OY
26. Still Available
27. ClearVue Technologies Ltd
28. JDPower Pty Ltd
29. Still Available
30. Plutec Pty Ltd
31. Still Available
32. Still Available
33. JDPower Pty Ltd
34. ClearVue Technologies Ltd
35. Still Available
36. Glaston Finland OY
37. Overseas Glass Agencies
38. Overseas Glass Agencies
39. Overseas Glass Agencies
40. Prowler Proof
41. Still Available
42. Freedom Screens of Australia Pty Ltd
43. Still Available
44. Still Available
45. COFFEE CART
46. CR Laurence
47. Sold
48. Sold
49. Elite Security Screens & Doors
50. Capral
51. Capral
52. Glassworks
53. Still Available
54. JP Hardware
55. Still Available
56. Still Available
57. National Glass
58. Combilift
59. Combilift
60. BHD Storage Solutions
61. Soft Tech
62. Still Available
63. Bavelion SpA
64. Siegware
65. Allegion
66. Allegion
67. Proline GmbH
68. Still Available
69. Paarhammer
70. Horst Klaes GmbH & Co. KG
71. Still Available
72. Soft Tech
73. Lincoln Sentry
74. Lincoln Sentry
75. Lincoln Sentry
76. Doric
77. Still Available
78. Guru Labels
79. Still Available
80. Still Available
81. Doric
82. Lincoln Sentry
83. Lincoln Sentry
84. Lincoln Sentry
85. Viridian
86. Technoform
87. Still Available
88. Tremco
89. Aluplast
90. Still Available
91. Technoform
92. Viridian
93. Orgadata
94. Orgadata
95. Deco
96. LandGlass Technology Co., Ltd
97. Dynamic Composite Technologies
98. Deco
99. Still Available

Machinery Hall
NFK Glazing & Industrial Supplies Pty Ltd
Lisec
Internmac
Compared to a glass assembly containing standard PVB film, the same assembly containing TROSIFOL® SOUND CONTROL achieves improvements in sound insulation of up to 3 dB. Available in Australia and New Zealand via your supply partner, IMCD Australia Limited. IMCD brings to the industry an array of market leading products ensuring our valued customers achieve the quality and service they are looking for.
AusFenEx19 Design Awards

Our AusFenEx19 Design Awards, are tailored to recognise and acknowledge excellence within our glass, glazing and window industries.

At state level, our 2019 award categories include ‘Best Use of Windows and Doors’ and ‘Best Use of Glass and Glazing’. Within each of these categories, there will be four subcategories comprised of residential and commercial installations.

The awards for ‘Best Use of Windows and Doors’ and ‘Best Use of Glass and Glazing’ will be awarded to companies that have demonstrated excellence in residential installations with a total cost of either less than $25,000 or more than $25,000, and in commercial installations of either less than $50,000 or more than $50,000. It should be noted that the dollar amount given here refers to the total cost invoiced by our Member, not the total value of the project.

There will also be two award categories at a national level. The first of these is ‘Fenestration Innovation’, with subcategories of ‘Most Innovative Window System’ and ‘Most Innovative Component’.

The second national category award is for ‘Best Showroom’, with subcategories divided into spaces of less than 100m² and more than 100m².

Further information, including the application process, can be downloaded at www.ausfenex19.com/design-awards.

To register, visit www.ausfenex19.com/registration
2019 Safety Award

The Best Solution to an Identified Workplace Health and Safety Issue

This Award recognises excellence in developing and implementing a solution to an identified health and safety issue. Entries for this Award may include a product solution, engineering innovation, a training program, an awareness-raising activity, or other risk control measures that reduce the risk of work-related injury and/or illness.

The Safety Award will be judged at a State level, and State winners awarded at the State Gala Dinners held throughout May and June 2019. The State winners will then go on to be judged at the National level, and the National winner will be awarded at the AusFenEx19 Gala Dinner held on Thursday, 29 August, 2019 at The Star, Sydney.

2019 Industry Person of the Year Award

Our Industry Person of the Year Award aims to acknowledge and recognise the contribution of an AWA-AGGA member to the glass, glazing and window industry across Australia. The Award recipient will be someone who has made a significant contribution – the quiet achiever, vocal advocate, company owner, partner, employee or volunteer within our industry.

In choosing the recipient consideration will be given to the nominee’s achievements in the year immediately prior to receiving the award, as well as their past achievements and ongoing contribution to the industry. The 2019 Industry Person of the Year will be judged at a state level, and state winners awarded at the State Gala Dinners held throughout May and June, 2019.

2019 Apprentice of the Year Awards

Apprentices are the future of the industry. They play an integral role and make an enormous contribution to each business. The Apprentice of the Year Award will be judged at the State level initially, with each winner recognised at their State Gala Dinner held throughout May and June, 2019. The State winners will then go on to be judged at the National level, with the winner to be announced at the AusFenEx19 Gala Dinner to be held on Thursday, 29 August, 2019 at The Star, Sydney.

For further information on the award, email jane@agga.asn.au
The Natural Choice for an Energy-Efficient Building

Iplus is a range of soft-coat, low-emissivity products dedicated to thermal insulation, providing a more comfortable living space. Whatever your needs may be (protection from the cold, achieving both thermal insulation and solar control, good insulation while preventing condensation or additional safety functions), there’s a product engineered to meet each specific requirement. Moreover, the durable coatings resist scratches and handling, making it easy to process and suitable for residential, commercial and industrial applications.

Used in double glazed units, the neutral-looking glass provides high visible light transmission into the building while reducing heat/cold penetration.

<table>
<thead>
<tr>
<th>Product</th>
<th>VLT (%)</th>
<th>SHGC (%)</th>
<th>U-Value (W/m²K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double glazing 4mm low-e (pos.3) - 12(Argon 90%) - 4mm clear</td>
<td>81</td>
<td>0.59</td>
<td>1.40</td>
</tr>
<tr>
<td>iplus Top 1.1</td>
<td>82</td>
<td>0.61</td>
<td>1.40</td>
</tr>
<tr>
<td>iplus Top 1.1T</td>
<td>77</td>
<td>0.52</td>
<td>1.35</td>
</tr>
<tr>
<td>iplus Advance 1.0</td>
<td>81</td>
<td>0.57</td>
<td>1.38</td>
</tr>
</tbody>
</table>

- 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.

Contact our AGC representative in Australia today

Mark Evitt
mark@apqglass.com.au
Ph : 07 3278 3100
Mob : 0419 714 005
Ricky McGaw, a Victorian Manager from Kennards Hire Lift & Shift is extremely happy with the service received by Oktopus during their association of nearly six years.

Kennards Hire Lift & Shift is well known to the glazing and wider construction industry, having been a long-standing equipment hire company and supplier to many.

‘We’ve been a family-owned business for 70 years now. With branches across Australia and New Zealand, we opened our 180th branch in Heatherbrae, NSW earlier this year,’ Ricky begins. ‘We’ve evolved as a company to meet our customer’s ever-changing needs and we know that the demand for safe lifting technology is paramount. Work place safety is a major consideration for our customers and they benefit enormously by the speed in which they can complete a job safely and move onto the next project using Oktopus equipment.’

McGaw says that Kennards Hire has reaped substantial benefit from the quality of design features and capacity of Oktopus lifters.

‘We purchased our first Oktopus lifter for our fleet five years ago; it’s a first-class product, with great after-sales service from the Oktopus Australia team.’

‘The market is hugely accepting of the product, especially Tier 1 construction and infrastructure companies,’ Ricky continues. ‘As well as the comprehensive support from Oktopus, we love the machine’s durability and reliability. Because Kennards Hire is a “middle man” between supplier and end user, quality is everything – we have to face the customer if the product’s unreliable.’

The famously user-friendly nature of Oktopus is another advantage. ‘It’s easy to operate from a customer’s viewpoint, with high levels of safety and uniformity,’ Ricky continues. ‘We greatly value the variety of applications made possible with Oktopus lifting technology, and their huge range.’

This includes many impressive capabilities. ‘The Oktopus equipment range at Kennards Hire includes 300kg, 4 cup inline machines, through to a conventional spider arm configuration currently at 1000kg lifting capacity and still growing. The units can also be configured to take a multitude of shaped and sized panels,’ Ricky states. ‘We’ve always received good feedback on Oktopus equipment once customers have experienced it.’

The company’s diligence on chasing up issues is key. ‘Oktopus is prompt with annual certification, are readily available and well qualified to assist with any technical questions, and they keep us informed on new equipment and upgrades,’ Ricky continues. ‘They’ve recently been used in several major projects, including Bendigo Hospital and the upgrade to the Melbourne Zoo’s lion enclosure.’

As these inspiring stories show, Oktopus equipment is in high demand – and for good reason.
One area that is always mentioned when talking about aspects that are in need of development for the industry is training. The new entity has created expanded opportunities for training that is relevant to all members. In addition to class-based courses, there is also a suite of online training courses with special prices for AWA-AGGA members. All these online courses include tests that must be passed to move on to the next module in the course, with a Certificate of Completion issued when the course has been passed.

The basic course is the **Window Induction Course**, covering the basics of windows and glass and most importantly providing knowledge of much of the terminology that is used in the industry. The training takes about 2–3 hours.

The content includes:

- Terminology: Window types, terminology of frames, sashes and panels, manifestation.
- Standards and the NCC: The basics of AS 2047, AS 1288, AS 4055 and their interaction with the NCC.
- Glass: Types of glass, including safety glass and double glazing.
- Framing Materials: Aluminium, Timber, uPVC, Fibreglass – their properties and maintenance.
- Acoustics and Energy: Sound, U-value, SHGC, Low-E.

The AS 2047 (Windows and External Glazed Doors in Buildings) Online Course introduces the standard and works through the current requirements. The training takes about 1.5 hours.

The course training follows the sections of the standard and covers:

- Scope and general.
- Performance.
- Framing and finishes.
- Glazing.
- Components.
- Installation.
- Labelling and Certification.
- Appendices.

The **Window Energy** Online Course covers the way windows can lower the use of energy for heating, cooling and lighting. The training takes about one hour.

The training includes:

- U-value and SHGC.
- Visible Transmission.
- The influence of framing materials and glass.
- IGUs and secondary glazing.
- The effect of climate, orientation and shading.
- How to translate energy requirements into real windows.

The **National Construction Code** (NCC) Online Course explores the NCC as it relates to and impacts the Window Industry. The training takes about one hour.

The course covers:

- Purpose of the NCC/BCA.
- Building classifications.
- Structure of the Code.
- Performance requirements and alternative solutions.
- Barriers, light, ventilation, door heights.
- Accessibility – luminous contrast, hardware, manifestation.

**Acoustics** are becoming more and more a consideration for new windows and for retrofit solutions. This online course explores Acoustics as they relate to and impact windows and doors. The training takes about one hour.

The course covers:

- Sound and its attributes.
- What constitutes noise.
- How sound is measured.
- Acoustic testing.
- Glass and acoustics.
- Seals.
- Customer tips.

The requirements for **Restricted Window Opening** for the prevention of falls from windows can be confusing. This course has been developed to promote understanding of the requirements to meet the National Construction Code. The course takes about 20 minutes.

The course steps through the regulations and provides additional information and clarification. The training is supported by a flowchart to provide an easy way to identify the restriction requirements.

There is also an optional module on the specific requirements for NSW Strata.

The **Bushfire** Windows and Doors course introduces and explains the window and door requirements in AS 3959 Construction of Buildings in Bushfire Prone Areas. The training takes about 45 minutes.

The course training covers:

- Bushfire screens and shutters.
- Timber and other materials.
- Radiant heat.
- Ember attack.
- Bushfire Attack Levels.
- Testing.
- Weepholes and gaps.
- Requirements for each Bushfire Attack Level.

The **Wind Loads** course explores how wind loads are determined. It does not provide instruction on determining wind loads, but illustrates how complicated doing so can be due to the many factors to consider. The training takes about 45 minutes.

The course covers:

- The standards that cover wind loads for housing and other buildings.
- Wind speed vs wind load.
- The various types of loads, including SLS and ULS.
- How wind loads are determined for all building types, including:
  - Wind regions.
  - Terrain category and terrain/height multiplier.
  - Topography and topographic multiplier.
  - Shielding.

Registrations for the online courses can be done at www.awa.org.au/events/online-training. To get member prices, members must login to the website first.

**Contact AWA-AGGA Training on**

02 9498 0908 or email training@awa.org.au for assistance.
Accredited Companies Program (ACP) Update

> David Robertson, AWA-AGGA Member Services Officer

The relevance of the Accredited Companies Program (ACP) initiative has been demonstrated in convincing terms recently. As Member Services Officer, I have fielded urgent requests from Members and non-Members alike, to assist them with association accreditation as a result of a mandatory requirement from either a primary contractor or a government agency.

An ever-increasing focus on regulatory requirements makes association accreditation more relevant than ever when tendering or quoting on major projects. I encourage all businesses that read this editorial to reach out to me and start the ACP process, so as to avoid any disappointments when submitting propositions for that much sought-after project. While I am generally able to assist in a timely manner, the benchmarks for accreditation may take some effort to meet, especially in the area of safety or technical.

Accreditation requires that a business demonstrate evidence against the four Pillars: Safety, Technical, Compliance and Skills.

**Safety**

AWA-AGGA has a comprehensive entry level safety management system with a suite of safety documents that can assist any business to implement safety processes and build a safety culture within your business. From Induction to Return to Work, your Association can mentor members to improve safety in the workplace and be prepared to enter any project site with confidence that your documentation and procedures meet the expectations.

**Technical**

In 2018, multiple AS 1288 Workshops were conducted in all states with very successful outcomes. Your Association is targeting the needs for the scheduling of these face-to-face workshops for the second half of 2019. I would ask both members and non-members to register their interest in attending these events, therefore completing an essential component of the ACP. If you believe your staff would benefit from a greater understanding of this important standard, please contact me on the details below. The online format of this certification is open to all of industry and is a genuine alternative to the workshops.

(Please go to agga.org.au).

**Compliance**

To demonstrate compliance for accreditation, the submission of two examples of glazing/compliance certificates that your business has recently issued are required. In support of this is also evidence that all ‘A Grade Safety Glass’ is being identified as stipulated in AS 1288 and AS 2208. The purchase details for labels are available on the Association website.

**Skills**

The skills pillar requires participation in, and tracking of, any approved training within a 12-month period. Please view the skills pillar flyer (agga.org.au) for a list of suggestions to obtain CPD points. This important initiative is the only pillar which requires an ongoing commitment to remain compliant. As a combined association, AWA-AGGA has an expansive library of training options for your staff. Several online workshops are available backed up by videos, technical fact sheets and webinars. Be creative and do not leave out any possible submissions – if they improve the skills and knowledge within your company, the activity or training will attract CPD points.

The Accredited Companies Program has slowed somewhat in the first half of 2019. This is mainly due to the many other activities and priorities involved in the merger. However, much has been completed in this regard and we look forward to pushing forward with ACP and expect the numbers to start growing again in the future.

The ACP initiative was designed for any and all businesses within our expanded Association, and we are currently working on the technical pillar requirements for glass processing and window fabrication members.

More news will be released on this shortly, but in the meantime, as Member Services Officer I would invite any feedback on this proposal or indeed any thoughts on how your new combined association can best serve you and our members.

For further information email david@agga.asn.au
In October 2018, the NHVR (National Heavy Vehicle Regulator) introduced revised ‘Chain of Responsibility’ (CoR) where the focus has extended beyond drivers and operators. Now all parties involved, such as dispatch, packing/loading, fleet/logistic managers, receivers etc, are required to take all measures to ensure breaches against HVNL (Heavy Vehicle National Law) do not occur.

Following growing enquiry and increased incident reports involving the transportation of glass, the industry needs to be aware of its responsibilities and the measures that innovative members are taking to reduce breaches.

Concerns raised over the past 12 months have consisted of load type and variety, load configuration, distribution and balance, restraints, environment influence and the additional risks of loading and unloading vehicles.

The unique qualities of glass and glass products involve systems for transport that are vastly different from typical logistic concerns. The product itself is fragile and can be damaged as a result of incorrect or insufficient restraint. Additionally, loads can break while in transit due to all manner of outside influences.

Aside from general roadworthiness of the vehicle, it is recommended that the rack which carries the load is maintained and inspected regularly.

Likewise, the restraints which hold the glass to the side of the vehicle should be inspected every time they are fitted to the truck (a pre-operation check). Wear and tear takes its toll on equipment, and without regular inspection and maintenance they will eventually become fatigued and potentially fail.

Further, when a restraint is damaged, regardless of how little it may seem, it may be compromised and will no longer perform to the standard it was designed for, resulting in potential overloading and failure.

Proactive members within the industry have taken steps to introduce secondary measures so that in the event a load fails, the restraint does not part company with the truck and cause further damage to other road users. The approach differs among members, although the intended outcome is aligned.

More information and assistance can be sought via agga.org.au and awa.org.au.

Consider registering your workplace safety initiative in the AusFenEx19 Safety Awards.
Log on to awa.org.au/documents/items/1954
LumaTherm
without compromise ...

NEW

Why LumaTherm?

LumaTherm is a new range of low-E coated, insulating glass units that provide the ideal balance between visible light and thermal performance.

To address demand for improved performance criteria such as safety, security and acoustics, the range extends to LumaTherm PLUS and LumaTherm ULTRA where a performance laminate glass is incorporated into the make-up of the unit.

Make a smart choice with LumaTherm.

<table>
<thead>
<tr>
<th>LUMATHERM PRODUCT</th>
<th>PERFORMANCE CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LIGHT TRANSMITTANCE</td>
</tr>
<tr>
<td>LumaTherm Clear</td>
<td>80</td>
</tr>
<tr>
<td>LumaTherm Grey</td>
<td>50</td>
</tr>
<tr>
<td>LumaTherm Satin</td>
<td>80</td>
</tr>
</tbody>
</table>

Glass Products

FREECALL 1800 452 637

New South Wales
26 Long Street
Smithfield NSW 2164

Victoria
217 Rex Road,
Campbellfield VIC 3061

Queensland
1007 Kingsford Smith Dr,
Eagle Farm QLD 4009
Sometimes, the simplest projects are the ones which demonstrate a material’s capacities to its full extent. The Tranmere Residence, with a frameless wine room and pantry door constructed by the expert hands at Mt Barker Glass, is one such example. Mark Benfell, Customer Sales Estimator at Mt Barker Glass, explains why the project is well worth remembering for this ambitious company.

Specialising in all aspects of residential glazing, including domestic and commercial window glazing, Mt Barker Glass had to use its full repertoire of skills to the fullest with this project. The idea for the renovation combined the customer’s zeal for aesthetic harmony with the company’s renowned dedication to seamless function. ‘Our customer initially contacted us to supply and install a glass frontage to a wine room and pantry door,’ Mark explains.

‘On the visual side, he also indicated that he wanted black hardware to be used throughout. At this time, the black version of the fittings requested wasn’t available off the shelf, so we had to pull everything apart. The self-closing patch fittings used in the pantry and cellar doors were originally chrome-plated, so we had to get all the chrome stripped...’
CASE STUDY (TRANMERE RESIDENCE)

AGGA South Australia 2018 Design Award Winner – Residential Under $20K
CASE STUDY (TRANMERE RESIDENCE)
The pantry door forms the project’s other major glazed component. We were also instructed to create a matching frameless pivot door to the pantry, which we had to complete in the same very tight timeframe. Off, take the fittings right back to the bare brass, then refinish and carefully reassemble them. The darkness of the fittings makes a striking contrast with the delicate yellow hues of the sandstone, from which the facing walls are constructed. The visual results of the meticulous preparation work of Mt Barker Glass shine through in the photos, which demonstrate the subtle yet vivid appearance of this interesting compact assignment for the company. Despite the challenging logistics, then, the collaboration turned out to be extremely rewarding. ‘Working closely with the customer, we came up with the idea for a frameless door at the centre of the wine room,’ Mark remembers. ‘To provide atmospheric lighting for this space, we matched the door with two subtle side lights for soft illumination.’

Added to the wine room is the frameless shower screens, which have fully utilised the company’s acknowledged expertise in fabricating flowing, translucent bathroom spaces. The glazed screens blend perfectly with the rich gloss black of the surrounding tiles, effectively coupled with the counterpoint of the pale wood finishes and white granite benches.

The pantry door forms the project’s other major glazed component. ‘We were also instructed to create a matching frameless pivot door to the pantry, which we had to complete in the same very tight timeframe,’ says Mark. ‘As you can see from the photos, the finish has come up brilliantly.’ The choices the company has made with the Tranmere Residence certainly sit well with the house’s streamlined, minimalist aesthetics.

That timeframe, though, left zero room for error. ‘Let’s just say there wasn’t much slack,’ Mark observes. ‘We only had about a week to install the project, so getting everything done in the allocated time was pretty tight. The customer contacted us in the first week of December 2017, requesting that the whole project be finished for his family Christmas lunch. Getting everything right in that challenging timeframe required a high level of logistical organisation.’

The materials used included Chevron-supplied glazing. ‘We used Australian-made 12mm clear toughened safety glass throughout,’ Mark notes. Even so, there were several additional challenges, including the issue of completing such an intricate job accurately in such a confined setting. ‘To get this task done in the single-week timeframe specified by the client, we had four glaziers onsite at the same time – which was quite a tight squeeze, as you can probably imagine,’ says Mark.

‘Added to this was the narrow window of time we had to get all the materials into the house and installed ... a task which we did the day before we finished work for the year. Yet even though it was last-minute timing, we managed to work within these constraints to complete a carefully assembled, premium-quality job that we’re genuinely proud of.’
Combining with the official acknowledgement from AGGA SA, the feedback received from the project has given the staff ample confidence in their design’s intrinsic merit. ‘Winning the SA Best Use of Glass & Glazing Under $20K Award has been great for us at Mt Barker Glass,’ Mark notes. ‘Best of all, this formal recognition has led to us picking up work for several more wine rooms on the strength of this project.’

In at least two cases, the project has had immediately flow-on effects. ‘As soon as several prospective clients browsing the photos on our website have noticed that we’ve won an award for the wine room, they’ve told us that they’d appreciate the chance to experience something similar in their own house. Of course, we’re happy to oblige. These ongoing projects have come up similarly well, so wine rooms could now be considered another of our many glazing specialities.’

With an aesthetic that’s so sensitively tailored to the Tranmere Residence’s carefully understated design, it’s no wonder Mt Barker Glass is becoming renowned for their ability to turn even the most challenging design constraints into chic, sleek interior solutions.
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When you’re aiming to rejuvenate a city, it pays to go straight to the heart of things. This was the approach of Com-AL Windows, recently awarded Best Commercial Over $50K for its city-changing project in Perth’s Yagan Square. This modern landmark is defined by its bold use of materials and commitment to providing residents and visitors with a versatile, liveable centre.

Yagan Square was planned as a place for people to meet, connect, discover and celebrate Perth and Western Australia’s culture, produce, heritage and environment. It is a project of local and state significance for the City of Perth and WA, as well as a major investment in the city’s cultural and civic infrastructure. In the heart of Perth’s CBD, Yagan Square forms one of the city’s most popular community, meeting and celebration places.

These ambitions are already bearing fruit, with Yagan Square humming with activity since its completion. Cafes, restaurants and shops now tempt locals and visitors alike, with purpose-built spaces hosting regular events, performances and celebrations. Yagan Square has a spectacular lighting display on the underside of the canopies, coupled with the iconic Digital Tower.

Com-AL Windows’ striking design for Yagan Square represents the fusion of nearly 2,000 responses received from the public via an online engagement tool during the planning process.
period. A detailed cultural engagement process from the early design stages created rich opportunities for involvement by the Whadjuk Working Party and South West Aboriginal Land and Sea Council.

Accordingly, the square’s unique glazed forms also pay visual tribute to heightened sensitivity to indigenous cultures. The architectural design concepts reflect the imperative for Yagan Square to be an inclusive, welcoming and active cultural and civic destination, representing the diversity of the local Perth region and broader Western Australia.

From Com-AL Windows’ initial engagement with the project, the challenge was clear. ‘The project required an integrated plant-on steel adaption window system capable of taking oversized steel automatic doors and a frameless louvre system,’ begins Peter Terpstra, Managing Director of Com-AL Windows. ‘We eagerly took on the challenge, and never looked back.’

Creating a structure to meet these demands was only possible with Com-AL Windows’ winning combination of novel materials and judicious design. ‘The design reflects a clear vision for Yagan Square’s pivotal role, including a cultural hub and a compelling meeting place,’ Peter points out.

The window systems used in Yagan Square’s façade are graced by peerless workmanship. ‘We used a customised facade for this demanding structure, uniquely integrating
locally sourced, oversized steel auto doors and frameless louvre systems,’ says Peter. ‘These were custom-designed with our Perth-based engineers, then developed onsite into a fully functional system.’ Realising these lofty aims required focusing on the building’s core function as an inspiring meeting place. ‘To meet the high demand for natural light, we created a range of customised dies for the façade plant on steel adaption system,’ Peter reveals. ‘Supplying our envisaged octagonal roof structure required a variety of innovative glazing and steel materials, which we’ve utilised to their full extent.’

Yagan Square’s centrepiece and focal meeting point is Market Hall, whose cavernous dimensions inspire a sense of wonder. ‘Market Hall was predominately created as a double-height space, primarily for aesthetic reasons,’ says Peter. ‘This area was the most complex, requiring extensive work to realise our design.

‘We capped off this crucial public space with a series of massive glazed façade areas,’ Peter continues. ‘These intricately designed features bring natural light deep into the building, as well as gracing the interior with a grand sense of scale resembling the world’s most beloved markets.'
In this expansive public space, efficiency is crucial. ‘Our design specified clear glass with an added security laminate, coupled with a Low-E internal coating to markedly improve the glazing’s thermal characteristics,’ Peter notes. ‘We also incorporated wide-spanning automated glass louvres into Market Hall, letting maximum natural light and ventilation permeate the space beneath.

‘Efficiency and light distribution were further maximised via a proven frameless bifold door system,’ Peter says. ‘This innovation created the clear “inside/outside” division demanded by the client, as well as enabling the use of clear glazing to maximise light transmission.’

Key to the project’s success was Com-AL Windows’ creative response to the request for a steel-look facade. ‘Providing an extrusion that looked like steel yet performed like aluminium was challenging,’ Peter confirms. ‘Following extensive research and design, we proposed adding a bespoke aluminium “T” adaptor to the steel framing without sacrificing the stripped-back aesthetic. The system’s 17.52mm glass in large, complex geometries was a further challenge to accurately build upon.’

The result of this attention to detail and judicious choice of materials? A memorable public structure which presents the spectator with a...
pleasently navigable space. ‘While the client’s expectations were huge, we convincingly met the logistical and visual challenges,’ notes Peter. ‘Yagan Square has achieved its design intent, linking the City and Northbridge precincts while lifting the entire area.’

The square also draws on themes of convergence, including geologies, tracks and narratives of indigenous and non-indigenous people and cultures. Yagan Square also celebrates Western Australia’s history, lifestyle, landscape and produce, paying tribute throughout to the state’s landscape, fauna, geology, colours, textures and natural materials.

A strong Aboriginal narrative runs through Yagan Square, creating a strong sense of place by incorporating stories from the Whadjuk people, the land’s traditional owners. This connection extends to the Square itself, named for the Noongar leader, Yagan. The digital tower symbolises the reeds once found here, as well as the 14 Noongar language groups. The canopies symbolise the lakes once occupying the site, the landscaping evokes the site’s native trees and plants, and a series of tracks acknowledge the area’s history as a hunting and gathering place – living on in modern guise today as the market space.

Yagan Square thus defines Perth’s embrace of its history. The high-tech yet human glazing and framing systems Com-AL Windows has woven through the building’s cavernous heart provides Yagan Square with a central structure fully embodying their indigenous heritage with expansive modern needs.

Com-AL Windows is to be commended in the commitment to enacting the architect’s ambitious vision via the medium of glass. Their inspiring public space performs an invaluable service – both to Perth’s people, and to the increasing number of visitors delighted to sample its rich collection of cultural treasures.
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Donald (Don) Blanksby passed away unexpectedly on Friday 15 February 2019.

Don’s tenure with the glass industry spanned multiple generations and saw a myriad of changes throughout his long career. For 32 years, Don held the position of Victorian Secretary and Executive Officer of the Victorian Glass & Glazing Association. Throughout that time, Don earned his reputation as a supporter of and fighter for those members in need, and an advocate for many in the Victorian glass and glazing industry.

Prior to working in the glass industry, Don served with distinction in the Army, including a tour of service in Vietnam in 1967. He then went on to continue serving over 30 years in the Army Reserve, rising through the ranks to become Lieutenant Colonel.

Don was recognised for his depth of knowledge on industrial regulations issues. He had acquitted himself as a strong representative on behalf of the industry and was a skilled and capable negotiator.

Beyond his working life, Don had a deep passion for sailing, and was an active and sailing member of the Royal Brighton Yacht Club. He competed for many years, in 1976 holding the distinction of racing ‘Beverley’ to become the Australian Champion of the Jubilee Class of Yachts, and served for a time as the Rear Commodore of the RBYC.

A dearly loved partner to Susan, father to his son Donald, father-in-law to Mayumi, and grandfather of Asa and Fox, Don was a loyal friend, always respectful, and on hand to assist those in need. Don will be sorely missed by many in our industry, Australia-wide.
We look forward to continuing collaboration with customers, architects and designers, inspiring all levels of industry to 'do more with glass'.

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G.James Launches LumaTherm Range

G.James have recently launched their new LumaTherm range of low-E coated insulating glass units. LumaTherm achieves the perfect balance of visible light transmission and thermal insulation, allowing homeowners to satisfy mandatory energy requirements without compromising their desire for expansive window openings.

LumaTherm is the latest addition to the G.James Glass Products stable, and has been specifically tailored to offer cost-effective glazing solutions to comply with BASIX requirements applicable to the residential construction market. For the discerning homeowner, LumaTherm provides a great source of natural light, energy savings and year-round interior comfort.

The standard LumaTherm product incorporates a clear or tinted glass to the outer lite of the IGU, with a clear low-E to the inner face. The product range extends to LumaTherm PLUS and LumaTherm ULTRA to address the demand for additional performance criteria, such as improved safety, security and acoustics, through to the substitution of a performance laminate glass to the outer lite of the unit.

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Following the successful vote taken at our last annual meeting regarding long-term type testing, please see below the changes to Clause 4.2 of our membership rules.

4.2 (i)
Category (i) & (ii) Members, as at October 2018, agree to complete Long-Term Type Testing in accordance with AS 4666. This Long-Term Type Testing is to be completed successfully by April 2020 for each of the Category (i) and (ii) Members’ manufacturing sites.

Members should note: ‘For the sole purpose of determining compliance with the Long-Term Testing requirements of AS 4666, a hierarchal structure for glass types is deemed appropriate. Providing the method of IGU construction and all components contained within the IGU remain consistent, the following hierarchy applies.

A glass type within the following list will act as a surrogate for glass types listed below it.

• Non-edge deleted, sputter-coated glass
• Edge-deleted, sputter-coated glass
• Pyrolytic coated glass
• Uncoated glass

See document “IGMAP” Technical Requirements for further clarification on IGU construction.

Appointment of Administrator/ Technical Assistant
To assist our members in achieving Long-Term Type Testing, IGMA has appointed Lee Thurbon as its Administrator and Technical Assistant. Lee will be liaising with Members and offering assistance to members regarding the process and timing.

Testing Capacity Update
Ian Bennie and Associates has capacity to test 12 sample sets to the EN Standards every four weeks, with testing commencing on the 24th of each month.

In addition, Ian has capacity to test four sample sets to the ASTM Standards, available immediately.

We are extremely pleased to advise that testing capacity seems to no longer be a bottleneck.

IGMA Incentive Program
IGMA is pleased to advise the introduction of an incentive rebate rewarding our members for achieving successful testing.

We have budgeted for a $2,500 rebate to be paid to all members on their first two lots of successful testing, which would be over a two year period totalling $5,000.

The Committee of IGMA is excited about the new initiative and looks forward to members moving a step closer to achieving AS 4666 accreditation.

This will enable IGMA to progress with our marketing strategy to promote our members to the broader community.

For further information, contact
Lee Thurbon on 0450 948 166.

Are you interested to learn more about IGMA?
Enquire Now lee.thurbon@lisec.com
Pratica Platform

Bottero's new Pratica Platform, numerically controlled CNC machining centre, is specifically designed for processing sheets of glass, fully equipped with an automatic tool changer. The standard version of the machine is able to perform the following operations on glass sheets:

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Glaston iLooK Anisotropy – automatic scanning of all tempered glass

Online scanning of anisotropy has now been made easy for all glass produced and available for all tempering lines. The system includes a monitor at the unloading end where an anisotropy scan is shown and saved automatically in a database for load traceability.

More information: Glaston Branch Office (Australia), Tel, +61 498696736, pekka.niemenen@glaston.net, www.glaston.net
Biesse Group Celebrate Grand Opening

In February, Biesse Group held its Grand Opening for the new Oceania Campus in Wetherill Park, Sydney, where over 550 visitors attended.

The three-day event introduced visitors to the largest functional industry showroom in Oceania – Biesse Group’s new state-of-the-art premises, including a 2000m² showroom, training rooms, dedicated service area and the new spare parts setup.

Visitors enjoyed a number of live demonstrations on the Biesse and Intermac range of machinery and software, along with some peerless hospitality. For the glass industry, the Intermac Genius LM and Vertmax machines were on display.

An official Ribbon Cutting ceremony took place on Thursday, 23 February, to officially open the facility in the presence of customers, industry partners, TAFE and local officials.


TAFE students and teachers were also welcomed, visiting the new Sydney Campus to experience live demonstrations and discover the latest industry trends. Biesse Group believes in investing in the future of the industry.

During the Grand Opening, SOPHIA – the new rapidly evolving and substantial artificial intelligence platform – was also showcased and demonstrated to all visitors.

The new Biesse Group Campus is now officially open. Doors are open every weekday and all visitors are welcomed.

For further information log on to www.biesse.com

NFK Launch New Model - Biloba Hydraulic Pool Gate Hinges

Distributed Australia-wide by NFK, Biloba is a premium quality hinge, specifically designed for the harsh environment around swimming pools.

‘Manufactured from 25 micron anodised aluminium to resist corrosion, with all other components in stainless steel, this hinge has been designed to last, look great and is backed by a market leading 10 year manufacturers warranty,’ says Hayden Kemp, Managing Director of NFK.

‘Biloba is manufactured in Italy by Colcom, they’re the inventor and patent holder of the modern compact hydraulic hinge.

We stock this quality product as it’s packed with features that set a new standard for glass fence applications,’ said Hayden. These Italian designed and manufactured hinges feature variable closing speed and +/-6 degree adjustment of the closing angle which can be done when the glass is hung.

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Glaston Corporation Completes the Acquisition of Bystronic Glass

Glaston Corporation have announced that their acquisition of Bystronic Glass was finalised in early April, 2019. The buy-out supports Glaston’s business strategy to further strengthen their position in the glass processing value chain.

‘This acquisition enables Glaston to become a significant player in the glass machinery business, providing all customers with the best know-how and the latest technologies available in glass processing,’ says Pekka Nieminen, Vice President, Sales and Service, Asia-Pacific, Glaston.

‘Glaston and Bystronic Glass have complementary offerings, we now hold a truly unique product range from pre-processing, heat treatment meaning tempering, bending and laminating, as well as insulation of glass combined with services to the architecture, automotive and appliance industries.’

Glaston claim that the acquisition of Bystronic is a major step in the execution of their strategy and is in direct response to the global market demand for improved efficiencies, more demanding requirements for glass features, safety and quality as well as an increased focus on services. ‘With our combined capabilities and expertise, we will be able to offer customers equipment, services and solutions from one supplier, optimizing customer operations and driving customer value,’ notes Pekka.

The newly combined service offering will lead to many benefits for our valued customers and provide a base for further development of services covering the whole glass processing chain in the future.

For further information email pekka.nieminen@glaston.net

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It is with a great sense of sadness that we announce the passing of Richard Michael, one of our industry's most industrious and innovative professionals. Working for Capral and related companies for over 30 years on both sides of the Tasman, Richard was highly respected throughout the industry.

Richard joined Alcan New Zealand as a Process Engineer in 1985, quickly demonstrating his technical and engineering ability. After being appointed Extrusion Die Shop Manager two years later, he led the die technology group for several years. Richard’s die manufacturing leadership resulted in an invitation to join the Alcan International Die Creativity Group, to which he made many valuable contributions.

In 1990, Richard was appointed Alcan New Zealand’s Works Manager. Six years later, Richard moved to Sydney with his wife Margaret to become Alcan Australia’s Foil Division Business Manager. Becoming Special Projects Manager in 2001, Richard was instrumental in Capral’s restructuring – including pivotal roles in designing and commissioning the Bremer Plant and the Campbellfield Press Project.

Richard returned to Capral Aluminium in 2007, where he brought the business back to profitability through careful cost control, efficiency improvements and automation. Appointed Executive General Manager in 2012, Richard subsequently oversaw Capral’s extrusion businesses while being a key contributing member of the Capral Executive.

His many vital initiatives include commissioning Penrith’s world-first robotic packaging line, promoting international scrap sales by achieving greater densities, driving Canning Vale’s powder coating reinvestment, and delivering significant long-haul freight savings. Richard was also instrumental in developing packaging systems for extrusions.

Richard had a wide network of colleagues and friends in the industry and was a driving force behind the Australasian Aluminium Extrusion Conference. Well-respected for his ability, experience and professionalism, he will be remembered as a good friend and colleague to many.

Richard is survived by his wife, Margaret, and his two children, Stefan and Sarah.

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Alexsandra Guinan Joins Architectural Glass & Cladding

Architectural Glass & Cladding has recently appointed Alexsandra Guinan to the role of Architectural Sales Representative for the western region of Australia. Alexsandra has a depth of experience in our industry, having worked for an extended time in the US prior to more recently being employed in business development roles for various commercial glass companies in Australia.

‘As a veteran of the architectural glass industry, Ally understands and can clearly communicate to architects and facade engineers – especially on the benefits of specifying glass and cladding products early in the design phase of their project,’ says Brad Woods, Sales Manager of AG&C. ‘As a Perth resident, Ally is also well-equipped to guide architects, engineers, fabricators, and builders through the selection and specification of the right product for their next local project.’

Alexsandra Guinan can be contacted on alexsandra@agcproducts.com.au

Paul Nipperess Joins the Team at INGLASS

Queensland based glass installation group INGLASS is pleased to announce the recent appointment of Paul Nipperess in his new role as Project Manager. Paul will be responsible for the design, planning, execution, monitoring and closure of individual projects. His role will also focus on safety, procurement, labour and budgetary requirements.

Paul has an extensive background in the Australian and US glass industries, and will soon be reaching an 18-year anniversary in glazing.

Paul’s experience extends to various roles in production and operations management, together with procurement, sales and marketing management roles.

‘I’m thrilled to be joining such a professional and widely respected company,’ says Paul. ‘Phil has built an extremely knowledgeable and experienced team, and I’m excited to be a part of it.’

INGLASS is highly renowned as a quality glazing company, specialising in commercial and high-end residential sectors. ‘We’ll continue to build on our reputation and achievements with our “better service, better results” team culture,’ Paul concludes.

Paul Nipperess can be contacted on pauln@inglass.net.au
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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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We are looking forward to seeing you in Sydney for AusFenEx19!
The Australian Building Codes Board (ABCB) have released the 2019 version of the National Construction Code, which is a major overhaul from the previous versions and contains many changes. Those changes mainly revolve around the ABCB’s readability initiative, where the language, structure and the format of the NCC has been refined to make the code more user-friendly, as well as to make it easier to understand what the requirements are. However, the most significant changes that influence the glass industry is in Section J (Energy Provisions) of Volume 1, which has seen little change since 2006 and has been radically overhauled in line with improvements in technology over this time and consistent with the Australian Government’s commitment to reduce greenhouse gas emissions under the Paris Agreement.

The following are the major highlights of Section J:

- NCC have indicated that by adopting the new concept of combined wall-glazing modelling for Section J requirement, there will be improvement in energy efficiency and reduction in overall price.
- There has been a change in the focus of the code from U-Value to SHGC.
- The proposed change in specifying the stringency for glazing enables cost savings by choosing a window with better SHGC and relatively poorer U-Value measure. Further, stringency is proposed to be set for whole façade, rather than separately for wall and glazing as in the current code. In this way, substitution between glazing and insulation is possible and could further reduce construction cost.
- As a result of the upcoming changes in the NCC, the glazing calculator will be replaced by a façade calculator which will accommodate the combined calculation of glazing and façade requirements. The new façade calculator will work for products with a specific U-Value and SHGC ranges owing to the changes in the NCC. This measure has been put in place to deter any false entries and unattainable requirements which were possible in the current glazing calculator. This calculator is currently undergoing beta-testing with a view to release in time for the NCC adoption in May 2019.
- There is an indication of more emphasis on thermal bridging of the building components. As a result, it is likely to require certain changes in the modelling, and therefore the ratings. A point to be noted here is that it is up to the AFRC to address for the provisions of thermally broken sub-sills and other similar components. It also might lead to a lot of new frame and glass simulation by window manufacturers and glass suppliers.

In a nutshell, the above changes could influence our industry by pushing the demand for Low-E and tinted or coloured glass to drive the SHGC down. There could also be a possibility of adopting smaller windows and moderately fewer IGUs as a result of the combined wall-glazing concept as well as focus on SHGC. This might lead to the rejection of many clear glasses that are currently being used. However, it is too early for us to predict the exact level of changes that might occur in our industry.

For further information email sustainability@awa.org.au
Industry News

Sharing Our Knowledge

Information is key to good practice in every industry and ours is no exception. Following our recent merger, the resource library and support available to our members is on the rise.

We’re delivering on our commitment to keeping our members continually updated and well-informed on a broad array of industry issues and regulatory moves.

Readily available to all members via our website, we have a comprehensive range of fact sheets and reference materials at hand, compiled to address issues on improved safety in the workplace, technical matters, and regulatory updates.

We aim to keep our industry professionals armed and well-positioned to address each issue with accuracy and confidence. The material is researched, compiled and regularly updated by our various committee members, all highly respected industry professionals.

The wealth of information that all our members have available to them through both the AWA and AGGA websites will only continue to grow as the demands of our industry grow. We urge you to remember to log on to view the latest additions and updates on developments within our industry.

For further information, log on to www.agga.org.au
State Event Calendar 2019

TASMANIA
- Gala Dinner
  Friday 24 May 2019
  Wrest Point Casino, Sandy Bay, Hobart

NEW SOUTH WALES
- Gala Dinner
  Friday 31 May 2019
  Jones Bay Wharf, Doltone House, Sydney

SOUTH AUSTRALIA
- Gala Dinner
  Friday 14 June 2019
  Adelaide Oval, Adelaide

WESTERN AUSTRALIA
- Gala Dinner
  Saturday 15 June 2019
  The Westin, Perth

VICTORIA
- Gala Dinner
  Friday 21 June 2019
  Crown Casino, Southbank, Melbourne

QUEENSLAND
- Gala Dinner
  Friday 28 June 2019
  Hotel Grand Chancellor, Brisbane

Admil Adhesives, supply the Australian glazing market with Shin-Etsu structural silicones. Whether you are engineering a commercial project requiring 2 part structural sealants with full project support, or an IGU manufacturer, Admil Adhesives has the correct solution for your next project and application.
In recent months the AWA-AGGA have hosted a series of information sessions for members Australia-wide, providing updates on the latest developments with the merger and how these changes will positively impact on their business. All gatherings in every capital city were well-attended and all presenters appreciatively received.

It’s been an exciting time in recent months following the merger. The new team is extremely focused on delivering strong representation on behalf of members, and having clear and transparent communications on all key projects currently underway. Clinton Skeoch CEO AWA-AGGA and the team expanded on a broad range of topics – the continuation of the various accreditation programs, including the Master Glazier and Accredited Company Programs, sustainability, leadership training, and other member benefits to be rolled out in the year ahead.

A presentation by Russell Harris outlined the latest updates to the National Construction Code, Australian Standards on glass, bushfires and acoustics, and the new WERS 2.0.

Each event was followed by a networking drinks gathering, allowing members to reconnect with friends and colleagues while making new acquaintances.

AWA - AGGA to Exhibit at DesignBUILD

We’re excited to exhibit at Australia’s largest design and construction trade exhibition, DesignBUILD when it returns to Sydney from 14 – 16 May 2019 at ICC Sydney in Darling Harbour.

For over three decades, DesignBUILD has supported Australia’s architecture, building, construction and design communities, as the industry’s only trade event dedicated to showcasing the latest in design and construction product and materials.

DesignBUILD brings Australia’s most enterprising Architects, Developers and Construction professionals together. Not only to connect in the most efficient way possible, but to raise industry standards as a whole. An invaluable opportunity to connect with peers, source quality materials, hear about legislation updates, and get insights into property trends, DesignBUILD is the cornerstone of the industry.

Join us in setting the new standard at DesignBUILD 2019
For more information visit https://designbuildexpo.com.au/ and don’t forget to register for free and quick entry! #BD2019

When: 14 – 16 May 2019 Where: ICC Sydney, Darling Harbour
Do you know which glass sheet can be found where, when and why? LiSEC’s Monitoring Tools allow you to track production seamlessly from the raw glass sheet right through to delivery of the finished product. Armed with this data, you can actively control production, avoid production bottlenecks, and react in real-time to customer needs (such as urgent runs) or changes in the availability of machinery. LiSEC Business Intelligence Software helps you to identify any problematic areas in your production and implement suitable measures accordingly. Our programs offer you valuable support for the expansion planning of your production.

Find out more about this and other LiSEC software solutions: www.lisec.com/software
LIMIT-FREE PRODUCTION

The high technological content of Primus waterjet cutting systems meets the requirements of operators who process laminated and float glass, plywood, armoured and fireproof materials.