

# Connected

ALSPEC NATIONAL NEWS

AUTUMN 2014

## FORM MEETS FUNCTION

THE SPACE HOUSE

## INTRODUCING ALSPEC iQ

AND WHY YOU SHOULD BE USING IT

**CARINYA** BAL40 BUSHFIRE WINDOWS & DOORS

**CUSTOMER FEATURE** DYNAMIC WINDOW SYSTEMS

**KIDSCREEN** PROTECTION OF OPENABLE WINDOWS

**SPOTLIGHT ON** LUKE HODGMAN FROM SA

# CONTENTS

- 2 **SALES & MARKETING UPDATE**  
by Barry Lunn, National Sales & Marketing Manager
- 3 **CARINYA BAL40 BUSHFIRE WINDOWS & DOORS**
- 4 **FORM MEETS FUNCTION**  
Extract by Siobhan O'Brien, South Coast Style Magazine - Summer edition
- 6 **CUSTOMER FEATURE**  
Dynamic Window Systems, Bairnsdale VIC
- 7 **STAFF INTERVIEW**  
Spotlight on Luke Hodgman, SA
- 8 **INVISI-SCREEN**  
INVISI-SCAPE Redesign
- 9 **INDUSTRIAL PRODUCT UPDATE**  
by Robert Webster, Industrial Product Manager
- 10 **INTRODUCING AIQ**  
by Derek Neuschulz  
ALSPEC V6 Product Manager
- 12 **RECENT PROJECTS**  
Brisbane Common Ground  
Melbourne Residence  
Shoal Bay Wharf, Port Stephens NSW
- 14 **PROTECTION OF OPENABLE WINDOWS**  
KidScreen Window Fall Prevention Systems
- 16 **SPECIFICATION**  
by Spiros Contominas  
National Specification Manager
- 17 **ANODISED ALUMINIUM CRAZING**  
by Wayne Larsen  
National Operations Manager
- 18 **NEW RELEASE ALSPEC EXTRUSIONS**

# SALES & MARKETING UPDATE

**HI AND WELCOME TO OUR FIRST EDITION OF THE CONNECTED NEWSLETTER IN 2014. THERE IS A LOT OF INFORMATION IN HERE TO KEEP YOU UPDATED WITH WHAT IS GOING ON AT ALSPEC.**



In the second half of 2013 and early 2014 we have been rolling out our updated version of V6, AiQ (for ALSPEC intelligent Quoting). This has been extremely well received by customers who are enjoying the significant new benefits that the latest software provides.

For our Carinya customers AiQ incorporates a complete database of all of our Carinya systems alongside our Commercial systems. This provides significant benefits for those customers who wish to quote high end residential projects with a mixture of residential and commercial products. Refer to page 10 for more information on what AiQ can do to help your business.

## AIR-FLO DOOR

In mid 2013 we launched our new hinged door, the Air-Flo French Door. This door features stiles that are 85mm wide allowing for the simple installation of a wide array of locking hardware. The Air-Flo door allows for manufacturing either through simple screwing together for small doors or clamp spigots for larger doors or heavier doors. There is a dedicated range of sashes for single or double glazed applications, providing for double glazing up to 24mm IGU's.

The Air-Flo door can of course be installed in any framing, however is particularly suitable for use with Air-Flo 125mm framing for front door and sidelight installations. The 125mm framing caters very well for installation of a hinged screen door within the line of the framing. Carinya dealers also have access to dedicated 92mm framing to complement the standard Carinya platform as well as curved rail and bead options that provide a softer more residential feel.

Late in 2013 we released an updated Industrial Products catalogue. This has a complete range of all of the geometric shapes and general industrial sections that we stock by branch. In addition we have included two pages at the back of the catalogue with a range of fixed louvre blades that we offer. Further information on fixed louvre blades is available from the ALSPEC website in the Louvres & Solar Control area. This includes a Tech Manual and Wall Chart as well as CAD drawings.

This year is an important one for ALSPEC, we are celebrating 40 years in business. From humble beginnings in a garage in North Sydney we have grown to nine sites around Australia, over 350 employees, more than 35,000sqm's of warehousing space, four powder coating lines and a fleet of 40 delivery vehicles. More than any other aluminium distributor in the Australian market, we are uniquely positioned to support the growth of your business.

Barry Lunn  
National Sales & Marketing Manager

# BAL40 BUSHFIRE WINDOWS & DOORS

**BUSHFIRES IN AUSTRALIA ARE ALMOST A COMMON OCCURRENCE DURING THE HOTTER MONTHS DUE TO AUSTRALIA'S HOT AND DRY CLIMATE. BUSHFIRE EVENTS IN NEW SOUTH WALES, SOUTH AUSTRALIA, CANBERRA AND VICTORIA HAVE BEEN THE MOST TRAGIC BUSHFIRES EVENTS TO OCCUR IN AUSTRALIA'S HISTORY.**

The Carinya BAL40 aluminium range has been designed to withstand temperatures of up to 40kW without failure to the glazing system while complying to AS2047. Protection from ember attack and burning debris prevents internal ignition to the building which is where loss of homes occur from the start.

The Carinya BAL40 range successfully exceeded system test requirements outlined in AS1530.8.1 while remaining in operation after the test. Although there are no requirements set for operation after a test, having peace of mind in functioning allows for potential egress and access of the building by occupants or fire authorities. As a result, the extensive Research & Development of the Carinya product range demonstrates the high quality design and functionality this tested range can achieve.



BUSHFIRE ATTACK LEVEL (BAL)	DESCRIPTION OF PREDICTED BUSHFIRE ATTACK AND LEVELS OF EXPOSURE
BAL - LOW	There is insufficient risk to warrant specific construction requirements
BAL - 12.5	Ember attack
BAL - 19	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 12.5 and 19kW m <sup>2</sup>
CAL - 29	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 19 and 29kW m <sup>2</sup>
BAL - 40	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux with the increased likelihood of exposure to flames
BAL - FZ	Direct exposure to flames from fire front in addition to heat flux and ember attack

## CARINYA BAL40 PRODUCT RANGE CONSISTS OF

- Classic Sliding Window
- Classic High Performance Sliding Window
- Classic Awning Window
- Classic Sliding/Stacking Door
- Classic Fixedlite
- Select Hinge Door
- Select Double Hung Window
- KidScreen Window Fall Prevention
- Stainless Wire Mesh Screens using FS2

A range of window and door handles, including ventlock, INVISI-GARD security and fall prevention screens along with double glaze glass options for energy requirements or acoustic barriers are some of the additional features available to complete the Carinya BAL40 product range in catering for all requirements beyond bushfire.

When dealing with a BAL40 requirement, specify Carinya to ensure compliance to Australian standards.

**ALL CARINYA BAL40 WINDOWS ARE IDENTIFIED WITH A LABEL TO ENSURE QUALITY AND COMPLIANCE OF THE PRODUCT TO ASSIST WITH CERTIFICATION ONSITE.**

For more information about Carinya BAL40 products visit [www.carinyawindows.com.au](http://www.carinyawindows.com.au) or contact the Product Development Team.



# FORM MEETS FUNCTION

PERCHED ON A HILLTOP OVERLOOKING LAKE CORUNNA IS A HOME LIKE NO OTHER. AN ARCHITECTURAL ACCOMPLISHMENT OF INTERLOCKING PAVILIONS ARRANGED AS FLOATING PRISMS, GLISTENING LIKE A CONTINUOUS RIBBON OF GOLD.

Whale watching from your living room is not your standard fare, but it is for Kerry Davies and husband Denis. It wasn't always like this for the recently retired Victorian couple who made the sea change to the far South Coast a few years back.

Home for this couple is now a sizeable 120-hectare plus (300-acres) property located around 10 kilometres from the townships of Tilba and Narooma. The house that the architect describes as a "ribbon of gold placed on a grassy hilltop" boasts 360-degree views of the ocean, lake and nearby mountains. From Kerry's whale-watching post, Lake Corunna lies to the north, Mount Dromedary to the south, the ocean and inlet lie to the east, while a forested range that conceals the old Princes Highway lies to the west.

"The great part about this project is that there was no pre-conceived solution and the owners appreciated the dramatic nature of the site," explains architectural director Colin Irwin of Nowra based iarchitecture. "We had to work hard to deal with the many spatial requirements of this site. We wanted every room to somehow take in some aspect of the views and we achieved it."

But putting this pad in the right position was just the tip of the iceberg. One of this couple's primary interests was the integration of the landscape design with the architecture. The team worked closely with the Canberra-based Harris Hobbs Landscape Architects, which among other things incorporated the existing pine tree hedge into the new scheme.

The hedge screens the house from view as you travel across the farm," explains Colin, "while it also provides good protection from southerly winds."

Another priority was passive heating and cooling with a sustainable solution coming in the form of suspended concrete floor slabs, effective solar aspect and perimeter walls that contain earth fill. The building itself is another feat. It is best described as a series of interlocking single-storey pavilions that were arranged as floating prisms, each with a continuous ribbon of wall, roof and floor. These are suspended on recessed masonry walls to support the integrated floor slab. It has evolved design that results in a tranquil, fluid and altogether contemporary space.

When asked what inspired the designing of this wonderful home for the newly relocated couple, Colin Irwin explains: "The inspiration came more from art than architecture. I wanted this building to be an expression of a pure sculptural piece that hovered above the landscape and to be something that was not anchored into the site but rather appeared a pre-made element brought in to sit lightly on the crest of the hill."

This sense of artistry is echoed in the gallery-like interiors, the golden aluminium cladding on the exteriors and the large continuous glazed areas in the dining room and master bedroom which were so heavy they had to be craned in.

The full story can be found in the South Coast Style Magazine – Summer edition.

Story: Siobhan O'Brien



ALSPEC FABRICATOR: L Stafford & Sons, Bega NSW  
BUILDER: David Funston/Bill Roberts  
ARCHITECT: Colin Irwin, iarchitecture  
ALSPEC PRODUCT USED: Commercial Sliding Door, Hunter Flush Glazed Framing, Awning Windows  
COLOUR: Off White



# CUSTOMER FEATURE

## DYNAMIC WINDOW SYSTEMS

BAIRNSDALE, VIC



**DYNAMIC WINDOW SYSTEMS ARE A PROUD LONG-TERM PARTNER OF ALSPEC, WITH THE RELATIONSHIP BETWEEN THE TWO COMPANIES HAVING BEEN BUILT OVER MANY YEARS.**

This existing relationship has strengthened with the addition of the Carinya Residential Range adding to the existing ALSPEC Commercial, Hardware and Home Improvement products.

Based in Bairnsdale, known as the commercial capital of East Gippsland located three hours drive from Melbourne, Dynamic have built a solid reputation both locally and throughout Victoria. Formerly known as Bairnsdale Glass and Glazing the name was changed to Dynamic Window Systems to reflect the changes of operation from a regional provider to a customer focused complete window systems supplier.

With the advantage of loyal staff with a can-do attitude, Dynamic are a major employer to the regional city and benefit from traits that are difficult to find when manufacturing in Metropolitan areas. The Bairnsdale operation consists of; in-house powdercoating, double glazing line, complete manufacturing site for residential and commercial windows and administration base. Currently Dynamic employ 60 people across manufacturing, transport and administration, including purchasing, contracts, drafting, accounts and management.

Further to the Bairnsdale operation, a dedicated commercial window factory is located in the Melbourne suburb of Carrum Downs, allowing further production and site operations for Metropolitan projects.

Both locations contain extensive and impressive showrooms, allowing consumers and builders to see product first hand and sample their proud level of customer service.

Dynamic Windows moved into the Carinya Range and complete ALSPEC Commercial range during 2013, providing valuable feedback and assisting in future designs to the evolving Carinya range. During this time, Dynamic have completed many impressive projects including;

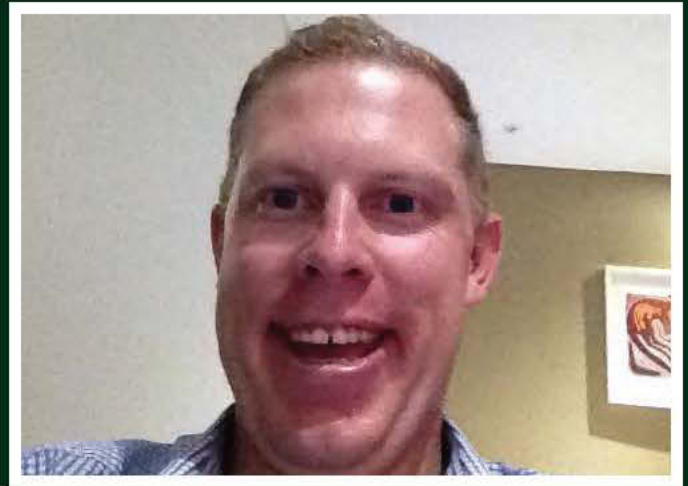
- TIVOLI APARTMENTS, RODEN STREET NORTH MELBOURNE Altitude Frame / Carinya Sashes
- MAIN DRIVE KEW Carinya 92mm Classic Frame and KidScreen Window Fall Prevention Screens
- EMBLEM APARTMENTS, GLENFERRIE ROAD HAWTHORN ProGlide Commercial Sliding Door
- MARINA QUAYS APARTMENTS, WYNDHAM HARBOUR Carinya Classic Sliding Door & Awning



**ALSPEC ARE PROUD OF THEIR LONG-TERM PARTNERS SUCH AS DYNAMIC WINDOWS AND ARE LOOKING FORWARD TO A BRIGHT FUTURE FOR BOTH BUSINESSES AS WE CONTINUE OUR GROWTH WITH THE CARINYA RANGE NATIONALLY.**

# SPOTLIGHT ON...

## LUKE HODGMAN SOUTH AUSTRALIA



### HOW LONG HAVE YOU BEEN AT ALSPEC?

9½ years

### WHAT DO YOU DO IN YOUR CURRENT ROLE?

BDM, assist with specification of our systems and support branch manager, area managers and sales team in their daily roles.

### TELL US SOMETHING ABOUT YOURSELF THAT NO ONE AT ALSPEC KNOWS.

I grow the best tomatoes in S.A (not those sort of tomatoes, real tomatoes).

### WHAT IS THE NUMBER ONE CHALLENGE YOU FACE IN YOUR ROLE AND HOW DO YOU MANAGE THAT?

Hard to name one, but probably keeping everyone happy and serviced at the same time. I achieve this by nodding my head and smiling a lot. Resisting the urge to say no to some architect's requests is also a challenge.

### MOST EXOTIC PLACE EVER VISITED?

Champagne Bay, Vanuatu on a cruise was pretty nice.

### EVER HAD A BRUSH WITH FAME?

Had a beer with Patty Mills (NBA superstar) at a Crows game once.

### IF YOU COULD DO IT ALL OVER AGAIN, WHAT WOULD YOU DO?

Have less kids! Kidding...

### FAVOURITE PAST TIME? HOBBY?

Watching any form of sport with a cold beer on the couch.

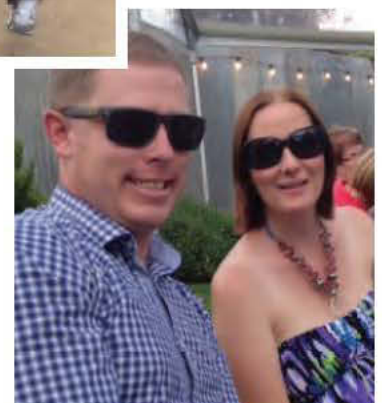
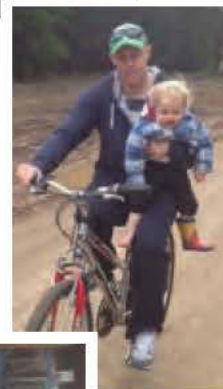
### HOW DO YOU OBTAIN A WORK/LIFE BALANCE?

Wife and kids keep me pretty entertained so no problems there. Planning holidays helps.

### WHAT IS PLAYING ON YOUR IPOD?

Pearl Jam – been on a continuous loop for the last 10 years.

**LUKE HODGMAN HAS RECENTLY BEEN PROMOTED TO THE POSITION OF BRANCH MANAGER-DARWIN. LUKE AND HIS FAMILY WILL MAKE THE MOVE TO DARWIN IN MARCH.**



## HERE AT ALSPEC WE ARE ALWAYS LOOKING AT HOW WE CAN IMPROVE OUR EXISTING PRODUCTS AND ALSO DESIGN NEW SYSTEMS FOR THE EVER EVOLVING MARKET PLACE.

We are proud to say our design team has been at it again and this time they have re-designed our already impressive INVISI-SCAPE System.

The features of the new "INVISI-SCREEN" system are;

### **NEW HOLLOW PERIMETER FRAME**

- Increases rigidity.
- Reduces sag.
- Greater impact resistance.
- Increases security.
- Has a screw flute for ease of fabrication and increased corner strength.
- Concealed fixings – This not only improves security by putting fixings out of site from attackers, but also improves the exterior appearance and aids cleaning when required.
- The same perimeter frame is used for INVISI-SCREEN and INVISI-SCREEN MAXX.

### **NEW FLAT FACED SASH**

- Smooth external face giving a more modern & contemporary appearance.
- Cornerstake inside the sash now doubles the "I Value".
- Reduced frame width increases open mesh area for greater visibility and increased airflow.
- A reduction in the clearance between the sash and the perimeter frame to minimise any possibility of a pinch point for fingers.
- Bulb seal added to reduce noise when screen is latched closed and also removes noise from any screen movement under extreme weather conditions.

### **NEW SCREEN RELEASE LEVER**

- A "push" to escape handle system – when it is time to exit the new "push" to escape handle lets you unlock and open the screen in one smooth and easy motion.
- Handle now releases screen after only 20° of movement aiding in a speedy escape when required.

### **NEW INTERNAL SASH HANDLE**

- Integrated internal sash handle gives consistent clean lines around the internal sash frame.
- Increased rigidity to reduce any flex when closing large screens.

**THE NEW INVISI-SCREEN SYSTEM HAS ITS OWN FABRICATION MANUAL WITH ALL THE INFORMATION REQUIRED TO FABRICATE THIS PRODUCT.**



**THE FABRICATION MANUAL INCLUDES:**

Cutting formulas for both side and top hung outward opening screens.



Horizontal and vertical cross section drawings to show how the sections work together in this new system.



A clear and easy to understand 7 step assembly process with 3D drawings.



# INDUSTRIAL PRODUCT UPDATE

Despite tough economic conditions within the domestic landscape, there have been plenty of exciting ALSPEC developments regarding the industrial segment over the past twelve months.

It is imperative that ALSPEC continues to push the status quo in order to not only remain competitive ourselves, but to continually add value to customers through a mix of innovative product/service offerings and sourcing strategies.

INTERNALLY, ALSPEC HAS MADE SIGNIFICANT INROADS INTO IMPROVING OUR SUPPLY CHANNELS, ENABLING COST EFFECTIVE SUPPLY SOLUTIONS TO BE REALISED FOR EXTRUSIONS, SHEET, COIL, PLATE AND TREAD PLATE PRODUCTS.

Furthermore, ALSPEC has expanded from our traditional capital city hubs and opened two new branches in North Queensland with Townsville opening in February 2013 and Cairns a couple of weeks later. Both centres have been working very hard knocking on doors and proving that there is another competitive industrial solution in town, ALSPEC.

From a customer and market perspective, segments such as marine, transportation, fencing and signage are now prominent segments that ALSPEC is servicing on a daily basis throughout our distribution network. If you have a project or a market you need help with, please feel free to speak to your local ALSPEC Sales Representative.

With an ever expanding product offer I am pleased to announce the recent

release of the Industrial Product Catalogue. This catalogue, available in both hard and soft copy, documents the products that are stocked around the states and territories for use in a wide range of applications. This catalogue will be reviewed and updated regularly as products come and go from our range. Although not exhaustive, it is the best place to start when looking for a product for your next project.

Our catalogue can be downloaded in PDF format from the following location: [www.alspec.com.au/industrial/industrial.php](http://www.alspec.com.au/industrial/industrial.php)

Thank you for your support and I look forward to helping your business grow in the future.

Regards,  
Robert Webster  
Industrial Product Manager



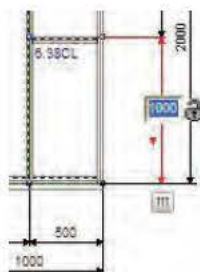
# INTRODUCING ALSPEC iQ

IT IS WITH GREAT EXCITEMENT THAT WE ANNOUNCE ALSPEC'S NEXT VERSION OF V6 IS READY FOR CUSTOMER RELEASE AND IS BEING ROLLED OUT NATIONALLY TO ALL ALSPEC V6 USERS. OUR NEW RELEASE HAS BEEN BRANDED ALSPEC iQ (OR AIQ FOR SHORT)

ALSPEC iQ is a complete replacement of our previous market leading V6 release. Utilising the very latest version of Soft Tech's V6 software platform, the experience of our V6 development team and over 2 years of development time, the result is a synergy of great software, industry leading window, door and commercial framing products, all backed up by ALSPEC's strive for excellent customer service.

ALSPEC iQ has been receiving rave reviews from early users. The new version includes a multitude of new and enhanced features that we have not been able to previously offer. Here are just a few of those new features and functions:

**On screen frame dimensions** can now be edited and locked on the frame design board. This makes frame sizing much easier and ensures locked dimensions do not change when site measure sizes are entered.



**Frame options are now grouped** and group settings are saved and reused over similar frame systems. This leads to significantly improved quoting speed.

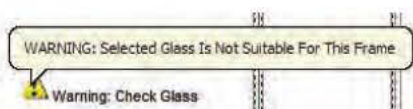
**Sub Frame options** like sub head, sub sill and fixing angles can now be included as frame options. Selections are then remembered the next time the frame or similar system type is used.

**Frame options can now be globally changed** for the whole quote without having to go into each and every quote item. For example, all the flyscreens in a quote can now be changed to security screens.



**Engineering Validation** is now performed on commercial frame mullions to check suitability based on quote pressures and extrusion I-values.

**Frame annotations** have been included to warn the user when frames go outside of ALPSEC specified sizes or recommendations.

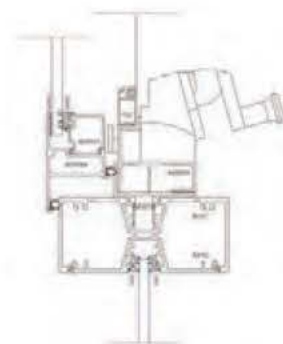


**A commercial frame can now be changed** to a completely different frame type. For example, a quote frame designed in McArthur Centre Pocket can now be changed over to a ecoFramePlus or Hunter Flush Glazed frame without having to totally rebuild the frame from scratch.

**New macros** (like Substitute Assembly) and design tools (like Step & Split Wizard) make frame design quicker and simpler. The Substitute Assembly macro, for example, can be used to automatically select and change all the mullions in a frame (no matter how many) with just a couple of mouse clicks.

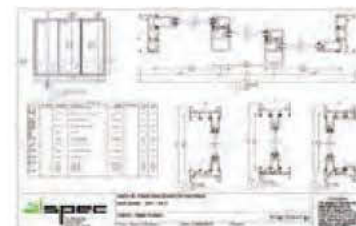
### Frame cross section drawings

in CadLink now show extrusions labels, glazing wedges and components. Change the glass thickness and the glazing wedge will automatically update. This not only makes it much easier to see how the frame goes together but drastically reduces the time to make great shop drawings.



### Detailed shop drawings

can now be built within Project Drawings, including fixing details and notes which can then be exported to PDF or CAD files.



**Project Manager** allows large projects to be managed as sub jobs to a master quote. This makes it easier to track and manage material, fabrication and fitting requirements.

**Labour settings can be fine tuned** to suit your business in more detail than previously possible. Site labour rates can be changed at the item level and a site labour multiplier can be used to account for increases in labour for higher levels in a multi-level building.

**A new Report macro** enables any report to be run from inside the quote. Reports can be run for the whole quote or optimised over selected quote items.

**A new version of SQL** provides improved performance and increases database size limit from 4G to 10G.

**Improved layout** with more consistent button schemes provides better work flow

**Quote browser columns** can be setup to show the information you choose to see.

**Item level pricing** can now be done without turning off "full bar roundup".

**A glass & mesh optimiser has now been built in** and cutting layout reports can be generated.

# WHY SHOULD YOU BE USING ALSPEC iQ



## SIMPLE TO USE

ALSPEC iQ is one of the easiest databases in the industry to use and learn. Estimators don't need in-depth product knowledge training and can be up and running and being productive very quickly.

## KNOWLEDGE BASE OF ALSPEC PRODUCTS

ALSPEC iQ brings together into a single estimating and quoting package all of our major suites. You are able to build suites together quickly with a visual view of what you are doing. Unlike quotes and cut sheets created manually or in spreadsheets, the 3D frame model in ALSPEC iQ enables you to see if the frame is built correctly.

**IMPROVES ACCURACY AND REPEATABILITY** of your costing, quoting and manufacturing processes. ALSPEC iQ provides a consistent quoting method for all estimators in your business to accurately cost all extrusions, glass, labour and hardware right down to the quantity and size of screws required to build your frames.

## STREAMLINES WORK FLOWS

Once the quote is built in ALSPEC iQ a whole range of other reports can be generated without any further effort. These reports include costed bill of materials, schedule reports, material orders, fabrication sheets, optimised extrusion cut plans, glass cut sheets, hardware schedules etc.

## AUTOMATION OF PROCESSES

ALSPEC can help automate the process of porting cut sizes from ALSPEC iQ directly to production equipment or quote and cost details to other external programs. You are also able to create shop drawings and export these to CAD or PDF files.

## FULLY SUPPORTED

Our database is developed and supported in-house by ALSPEC staff who know the product range and how they are fabricated.

ALSPEC is committed to providing our customers with the best estimation software in the market place. Our dedication to continually improve our package is confirmed with over 200 customers using our V6 database and this number is growing consistently.

Just like a hammer, saw or work ute, this business tool is a must have for ALSPEC system fabricators.

For a demonstration or purchase enquiries of ALSPEC iQ please contact:

Anne Coulter  
Soft Tech Australia  
Phone: 1300 139 980 | Fax: 02 4628 6955  
Email: Anne.Coulter@st-aus.com.au  
www.stgroup.com



Derek Neuschulz  
Product Manager – ALSPEC V6

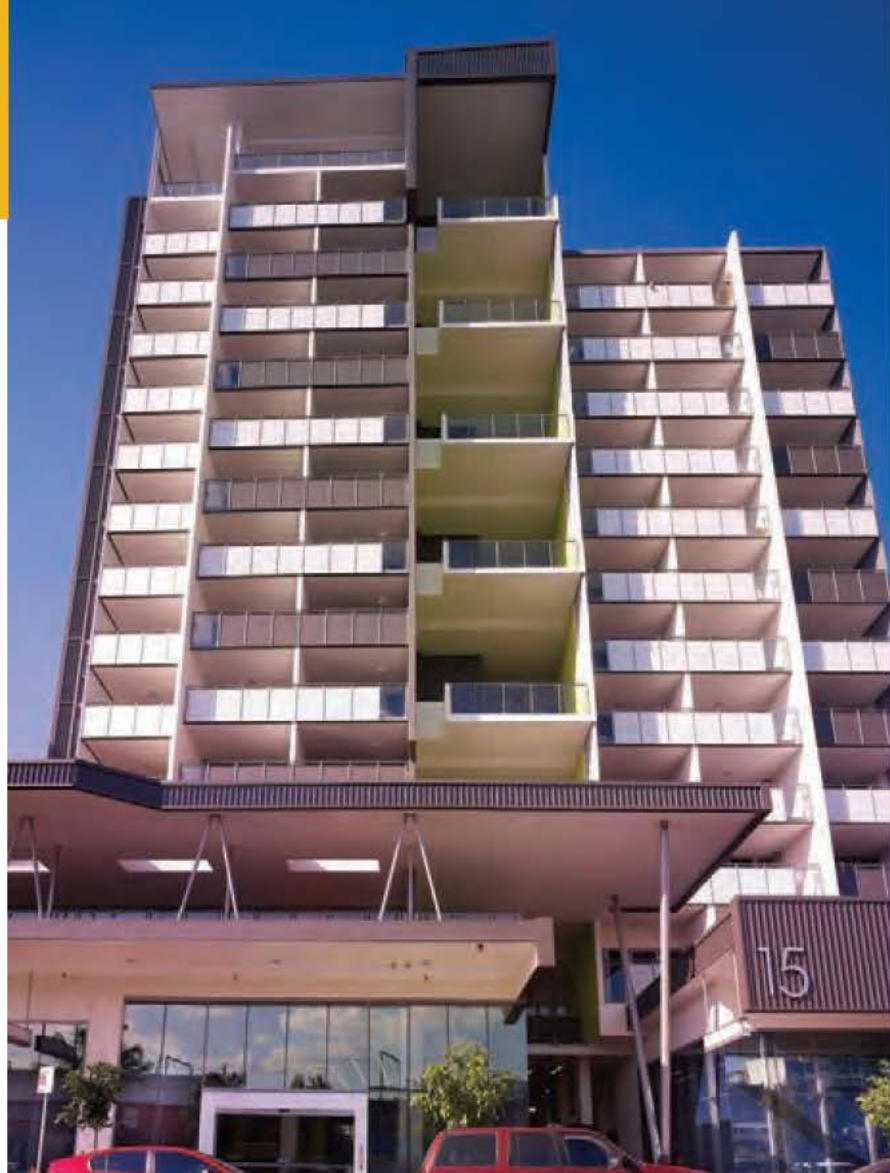
# RECENT PROJECTS

## BRISBANE COMMON GROUND SOUTH BRISBANE, QLD

The homeless have been given a helping hand with new multi-million digs opening at South Brisbane. Common Ground, an innovative, supportive housing development at Hope St opened for business in 2012.

It provides 146 studio and one-bedroom units for people on low incomes and people who were formerly homeless. It will complement existing housing and services within the community that address homelessness.

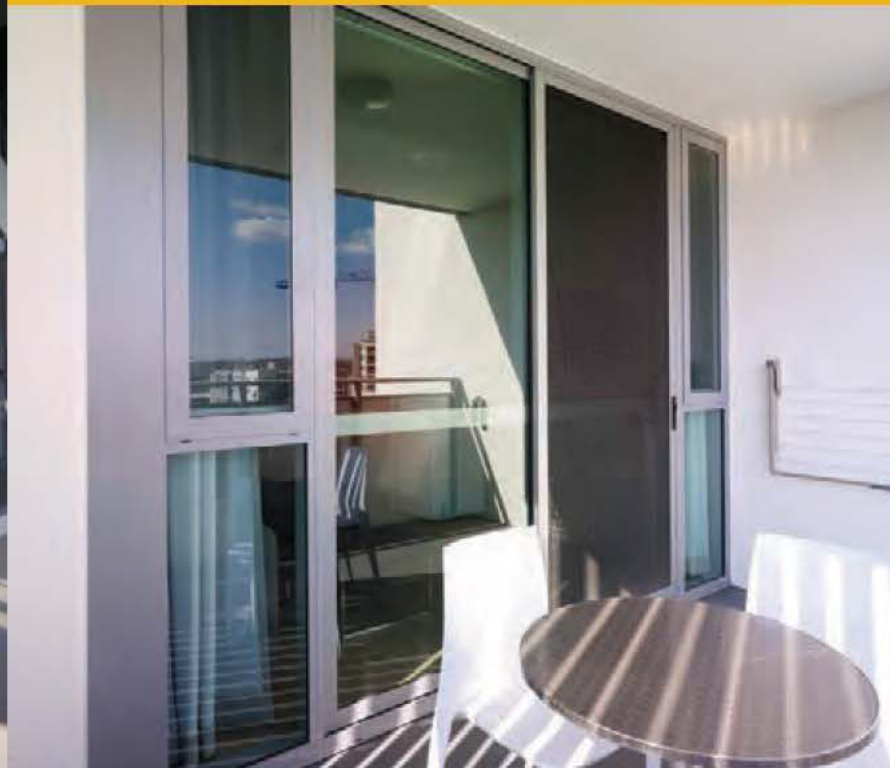
Tenants will have access to a range of support services including health, counselling, vocational training, living skills such as cooking classes and financial management, along with training and employment opportunities.



ALSPEC PRODUCTS USED: Altitude Apartment Sliding Door, Hunter 100mm Flush Glazed Framing, Murray 50mm Commercial Awning Window, Hawkesbury Multi-Fold Door, Swan 45mm Shopfront Door, ecoWALL225 Flush Glazed Framing.

BUILDER: Grocon Pty Ltd

ARCHITECT: Nettleton Tribe





## RESIDENCE MELBOURNE, VIC.

ALSPEC FABRICATOR:  
MRT Industries

ALSPEC PRODUCTS USED:  
Commercial Sliding Door, ecoFRAMEplus  
101.6mm Centre Pocket Double Glazed  
Framing, 50mm Awning Window, View-  
Max Sliding Window.

POWDERCOAT COLOUR:  
Jamaican Chocolate 15um anodising.



## SHOAL BAY WHARF PORT STEPHENS, NSW

### ALSPEC PRODUCTS USED:

Industrial rectangular and square section  
used in the hand railing - 100 x 50, 100 x  
25, and 50 x 50 RHS/SHS.

ALSPEC FABRICATOR: Nelson Bay  
Steel Fabrications, Salamander Bay, NSW  
- Contracted directly by Port Stephens  
Council, NSW.



# PROTECTION OF OPENABLE WINDOWS

[www.kidscreen.com.au](http://www.kidscreen.com.au)

SINCE 1ST MAY 2013, THERE HAS BEEN A REQUIREMENT IN THE NATIONAL CONSTRUCTION CODE FOR THE PROTECTION OF OPENABLE WINDOWS (D2.24) FOR ALL NEW CONSTRUCTION WHERE WINDOWS ARE POSITIONED 2 METRES ABOVE THE GROUND FLOOR.



These windows must be restricted or protected in a way to not permit a 125mm opening and resist a 250N outward force.

In NSW window safety laws were passed in parliament for residential strata buildings to adopt these new requirements in new construction through to existing strata buildings.

In NSW owners corporations have until 13th March 2018 to install such devices for the protection of openable windows.

Other states are monitoring these proposed changes and its transitions overtime for possible adoption into existing strata buildings.

Most windows may adopt a maximum 125mm restriction on the opening which will compromise the air flow and ventilation of the room especially in the summer season. A potential for occupants to modify these restriction

devices for greater ventilation could create a situation where the window is not compliant with the regulations.

*The KidScreen Window Fall Prevention (KWFP) system (previously known as KidSafe Protection Screens) was developed to embrace these building change requirements and has done so exceptionally without the need of restricted openings.*

The KidScreen was presented a highly commended Design Award as an "AWA Most Innovative Window Component 2013".

With recognition of this protection screen, consumer interest and awareness along with building regulators should start to gain further inquiries as an alternate solution to the protection of openable windows.

The KidScreen is offered in either a reinforced heavy duty polyester or 316 stainless wire mesh. The stainless wire mesh caters for bushfire requirements and is less noticeable over the window from far.

A cost effective option is to use the heavy duty polyester KidScreen mesh which is similar to standard flyscreen mesh, just a heavier wire to resist greater loads. Both these options do not make drastic changes to the appearance and functioning of the window making this an ideal product.

The KidScreen website ([www.kidscreen.com.au](http://www.kidscreen.com.au)) is available for further information and includes a dealer log in section. In this dealer section you can access a range of useful marketing and technical information including Logos, Technical Manuals & Compliance Certificate for dealers to issue to their customers.



As a KidScreen dealer there are a number of window products in the market to which a KidScreen can be fitted to. The option for fabricators to expand the current business and become a self certified installer through a training program at Azuma ([www.azumadesign.com.au](http://www.azumadesign.com.au)) will allow installers to fit KidScreen to any window product in the market i.e. new or old, including strata and the renovation market. This training provides all equipment and documentation to become a self certifier which will allow an additional service to a business in the area of installation.



The KidScreen currently complies to an Industry Code of Practice (ICP-005), however a draft standard AS4420.7 is being developed to give further consistency in testing for all alternate suppliers to follow.

KidScreen has resisted greater forces than the required 250N load to ensure adequate protection for present and upcoming standards.

KidScreen has been tested and approved on the following ALSPEC Products:

- Air-Flo Louvre Windows
- View-Max Double Hung & Sliding Windows
- Pro-Tilt Awning & Casement Windows
- McArthur frame with AS44 & AS85 Awning Sash
- Carinya Sliding, Awning & Double Hung Windows

In addition to all these products, ALU-GARD, INVISI-GARD and 7mm Diamond grille screens have also been tested for requirements beyond the protection of openable windows.

A number of other window systems have also been tested and information on these can be obtained from the website or your local ALSPEC Area Manager.

Below is an example of the required window restrictions for compliance with new construction or existing strata buildings.



Restricted Window Opening With Hardware



Unrestricted Window Opening With KidScreen

To become a dealer or for further inquiries contact your local ALSPEC Area Manager.

From the Product Development Team.



## SPECIFICATION

Welcome to Specification 2014. In our first newsletter of the year I thought that I would reflect on the specification activities undertaken during the latter half of 2013.



WE PARTICIPATED IN A NUMBER OF ARCHITECTURAL NETWORKING EVENTS FACILITATED BY THE ARC AGENCY, AIS AND MECCA. THESE EVENTS CONTINUE TO PROVIDE ALSPEC EXPOSURE TO AN EVER GROWING NUMBER OF ARCHITECTURAL PRACTICES AND HAVE CONTRIBUTED TO AN INCREASING LEVEL OF ENQUIRY AND PROJECT LEADS.

Our ability to support the specification process with a dedicated and responsive Technical Support and Product Development team has made us the go to company for many specifiers seeking assistance throughout the country.

**THE HIGHLIGHT EVENTS INCLUDED THE ARC BRISBANE WHICH WAS HOSTED IN JULY AT THE JUDITH WRIGHT CENTRE – FORTITUDE VALLEY.**

With almost 250 specification professionals from 99 firms attending, we were kept busy throughout the evening. Almost 450 specifiers descended upon Pier 2/3, Walsh Bay, for The Arc Sydney event in October. Our display focused on our Carinya suites resulting in a number of follow-up formal presentation requests. Finally we high tailed it over to the west where 220 specifiers attended The Arc Perth hosted at the State Theatre Centre of WA. These events have been a great success and have opened the door to many new Architectural practices and specification opportunities. Many thanks to Graeme Dwyer, Paul Gannon, Richard Ewins and Craig Hayden for their efforts and assistance in making these nights an overwhelming success.

In 2014 I look forward to building upon the already solid foundations and brand recognition that we have in the Architectural Specification area. With a range of new and exciting systems that are slated for release during the next 12 months I'm sure we will be kept on our toes by Architects requiring assistance and support in specifying their projects.

Spiros Contominas  
National Specification Manager

Photography Credits:  
Brisbane: Bayleigh Vedelago  
Sydney: Sarah Rowlands



## ANODISED ALUMINIUM CRAZING

### WHAT IS IT?

From time to time we experience problems with the surface appearance of anodised aluminium. Crazing is the result of micro cracks in the anodic layer which have the appearance of spider webs on the aluminium. This is caused by the different rate of thermally induced expansion between the aluminium substrate and the anodic layer of the finish film (Aluminium expands 5 times faster than the Anodic film).

### CAUSES?

Crazing is caused by the different relative rates of thermal expansion between the aluminium substrate and the anodic layer. Whilst it has an aesthetic affect, there does not appear to be any functional fault with the protective film. Crazing most commonly occurs in instances of direct exposure to radiant heat (sunlight) on a very hot day with low levels of humidity where the aluminium substrate reaches temperatures in excess of 60°C. The phenomenon is made more confounding by the fact that the cracks will tend to disappear once the metal cools! Generally, there is a correlation between anodic film thickness and tendency for crazing to occur; films of 20µm and up are more susceptible to crazing than thinner films.

### PREVENTION?

There is no absolute prevention for the crazing of anodised aluminium. Wherever possible, ensure that anodic film thickness is appropriate for the environment in which it is being installed. Surface

finish vendors should utilise a hot seal (<85°C) process to ensure that maximum surface film hydration is achieved and that internal stresses are not introduced to the anodic layer during coating. Low-Nickel and No-Nickel sealing techniques may also produce material with a higher resistance to crazing than material sealed in hot water.

If there has been some material fabricated and installed that is showing signs of crazing, an application of mineral oil (parafin) can be applied using a soft, clean cloth to aid surface hydration and flexibility. If the project is being installed in a geographical region that is susceptible to the conditions that promote crazing, thinner film thicknesses (15µm) should be considered as a viable option.













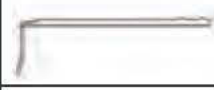

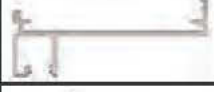






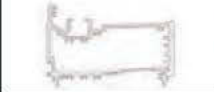
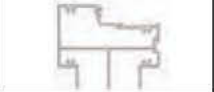
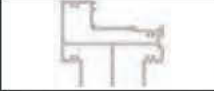



### ALTERNATIVES

Powder coated aluminium should be offered as a craze-free solution to an anodised finish. There are a number of powder coat finishes available that will provide a good anodised equivalent appearance. DULUX Electro Natural Silver (906-7365K) and Interpon Anodic Natural Matt (YY223A or GY235A) are good examples of colours that are designed to have the appearance of an anodised finish. Both powder brands offer colours with warranty grade technologies for harsh and coastal applications.






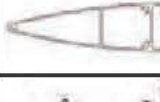

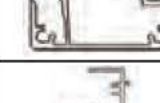








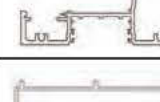


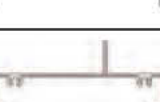










Wayne Larsen  
National Operations Manager

# NEW RELEASE ALSPEC EXTRUSIONS

At ALSPEC we are continually responding to our customers requirements for new sections. Once sections are approved we publish Tech Memos which are immediately made available on the ALSPEC website. Below is a summary of new extrusions and components that have been released in the last few months.

DOOR THRESHOLDS			
	<b>AS1857 150mm DISABLED ACCESS THRESHOLD</b> Customer Technical Memo 159		<b>AS2365 150mm REBATE THRESHOLD</b> Customer Technical Memo 159
	<b>AD008 100mm DISABLED ACCESS THRESHOLD</b> Customer Technical Memo 159		<b>AS1855 THRESHOLD</b> Customer Technical Memo 159
SUB FRAMING			
	<b>AS142S 76mm SUB SILL</b> Customer Technical Memo 159		<b>AS345 100mm HD SUB HEAD (70mm FACE)</b> Customer Technical Memo 175
	<b>AS153S 100mm SUB SILL NO LEG</b> Customer Technical Memo 182		<b>AS609 150mm HEAVY DUTY SUB HEAD (50mm FACE)</b> Customer Technical Memo 190
	<b>AS149S 100mm EXTENDED SUB SILL</b> Customer Technical Memo 190		<b>AS145S 100mm FLUSH FACE SUB SILL</b> Customer Technical Memo 190
	<b>AS154S 100mm EXTENDABLE SUB SILL</b> Customer Technical Memo 190		<b>AS155S 150mm EXTENDABLE SUB SILL</b> Customer Technical Memo 190
	<b>AS156 SUB SILL EXTENSION</b> Customer Technical Memo 190		<b>AS628S 150mm HEAVY DUTY EXTENDED SUB SILL</b> Customer Technical Memo 190
	<b>AS658S SLAB EDGE SUB SILL</b> Customer Technical Memo 195		<b>AS659 BEAD</b> Customer Technical Memo 195
	<b>AS660S SLAB EDGE SUB HEAD</b> Customer Technical Memo 195		<b>AS661 SLAB EDGE CHANNEL</b> Customer Technical Memo 195
	<b>AS889S 50mm EXTENDED LEG SUB SILL</b> Customer Technical Memo 199		
DOOR & WINDOW SECTIONS			
	<b>VM55S VIEW-MAX HIGH PERFORMANCE TRANSOM</b> Customer Technical Memo 172		<b>MFE26 150mm HEAD</b> Customer Technical Memo 174
	<b>MFE27S 150mm TRANSOM</b> Customer Technical Memo 174		<b>VM58S 101.6mm SG TRANSOM</b> Customer Technical Memo 181
	<b>VM59S 101.6mm DG TRANSOM</b> Customer Technical Memo 181		<b>AD118 WIDE INTERLOCKING STILE</b> Customer Technical Memo 181
	<b>AD316 WIPER STILE</b> Customer Technical Memo 181		<b>MF77 XHD DOUBLE GLAZED BIFOLD STILE</b> Customer Technical Memo 196

# ALSPEC EXTRUSIONS CONT...

LOUVRES			
	<b>LV95 2 STAGE LOUVRE</b> Customer Technical Memo 159		<b>LV96 STORM LOUVRE</b> Customer Technical Memo 159
	<b>LV103 STORM LOUVRE</b> Customer Technical Memo 176		<b>LV225 SELF MATING 225mm LOUVRE / MULLION</b> Customer Technical Memo 176
	<b>LV226 225mm LOUVRE FRAME</b> Customer Technical Memo 176		<b>LVE301 150mm SELF MATING ELLIPTICAL LVRE</b> Customer Technical Memo 176
	<b>LVE302 150mm SELF MATING LOUVRE</b> Customer Technical Memo 176		<b>LVE303 LOUVRE END CAP</b> Customer Technical Memo 176
	<b>AF34 50mm LOUVRE FRAME MULLION</b> Customer Technical Memo 192		<b>AF35 50mm LOUVRE FRAME JAMB</b> Customer Technical Memo 192
	<b>AF36 50mm LOUVRE FRAME HEAD / SILL</b> Customer Technical Memo 192		<b>LV106 LOUVRE SUB FRAME</b> Customer Technical Memo 193
	<b>LVE304 45mm LOUVRE CHANNEL</b> Customer Technical Memo 193		
GENERAL FRAMING SECTIONS			
	<b>AS566 SELF MATING MULLION</b> Customer Technical Memo 159		<b>AS25C CAPTIVE HOLLOW TRANSOM</b> Customer Technical Memo 159
	<b>ECO270 150mm HOLLOW TRANSOM</b> Customer Technical Memo 159		<b>ECO225 100mm HOLLOW TRANSOM</b> Customer Technical Memo 159
	<b>ECO121 150mm TRANSOM</b> Customer Technical Memo 170		<b>ECO124 MALE SPLICE</b> Customer Technical Memo 170
	<b>ECO125 FEMALE SPLICE</b> Customer Technical Memo 170		<b>AS71 GLAZING ADAPTOR</b> Customer Technical Memo 178
	<b>ASI43 100x25mm SUB FRAME</b> Customer Technical Memo 180		<b>AS907 OFFSET HD MALE MULLION</b> Customer Technical Memo 181
	<b>AS908 OFFSET HD FEMALE MULLION</b> Customer Technical Memo 181		<b>ASW10 SASH ADAPTOR</b> Customer Technical Memo 184
	<b>ASGC7 GLAZING CHANNEL (12-18mm GLASS)</b> Customer Technical Memo 196		<b>ASGC17 GLAZING CHANNEL BASE (12-18mm GLASS)</b> Customer Technical Memo 196
HOME IMPROVEMENT & PARTITION FRAMING			
	<b>SK101 100mm 2 PIECE SKIRTING</b> Customer Technical Memo 179		<b>SK102 BRACKET 2 PIECE SKIRTING</b> Customer Technical Memo 179
	<b>VS026 MIDRAIL</b> Customer Technical Memo 196		

Please note: A copy of all CUSTOMER TECHNICAL MEMO'S can be found on the ALSPEC website home page by clicking on CUSTOMER TECHNICAL MEMO's under LATEST NEWS.

