



construct

2016 Edition 3



FOR CHARTERED BUILDING PROFESSIONALS

- /// 2016 AIB CHAPTER PROFESSIONAL EXCELLENCE IN BUILDING AWARDS
AUSTRALIAN INSTITUTE OF BUILDING ANNOUNCE WINNING LEADERS IN THEIR FIELD
- /// REPORT TO COUNCIL ON THE 2016 AIB ADDRESS IN SOUTH AFRICA – UNIVERSITY OF PRETORIA
- /// BUILDING AND CONSTRUCTION PRIORITIES FOCUS POLITICIANS ON PRODUCTIVITY AND SAFETY

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2016 Edition 3

Industry News

PRESIDENT'S COLUMN

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HILTI'S PROFIS SOFTWARE REVOLUTIONISES ANCHOR INDUSTRY

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CAMDEN COUNCIL'S ADMINISTRATION CENTRE

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E45 ELEMENTS WITH TECA GLASS DOOR

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An introduction to the Australian Institute of Building

The Australian Institute of Building (AIB) is incorporated by Royal Charter and is the preeminent professional body for building professionals in Australia and the Asia-Pacific region. The AIB has a long and proud history of supporting and serving the building profession. For more than sixty years the Institute has worked with the building and construction industry, government, universities and allied stakeholders to promote the building profession, support the development of university courses in building whilst promoting the use of innovative building techniques and a best-practice regulatory environment.

The AIB is proudly supported by:



President's Column.



Welcome to my Seventh Construct Magazine (September 2016) column as National President of the Australian Institute of Building; it is an honour to continue to serve and lead the Institute.

Locally, our "newish" CEO Mr. Greg Hughes continues his journey with the Institute (he commenced with the Institute, 4 April 2016) and has at this time already attended all the local State Chapter PEA events (including being the MC at some) as well as meeting all the Chapter Presidents and a fair sprinkling of their local Chapter Committee members. In this time he has also visited the Hong Kong Chapter twice and the Macau Branch once to assist in conducting their local Professional Interviews for membership, visit local educational providers and attend the Hong Kong Chapter AGM (accompanying myself and the Overseas Chapter President, Prof Robin Fardoullys LFAIB).

Mr. Hughes has also accompanied me to the 40th Annual AUBEA (Australian Universities Building Educator's Association) conference in Cairns 6, 7 & 8 July 2016 where he met the leading Building and Construction academics in Australia (and elsewhere). His learning curve has been steep, short, sharp and well packed. He has now cemented good relations with the staff, Councilors, Chapter Presidents and hopefully, going forward, our members. One could say that his introduction to and cadetship with the Institute has finished and the real work now begins; we wish him well.

In concert with our visits to the Chapter PEA events we were fortunate to meet with office bearers and staff from several of the

local regulators, various MBA's and several Universities and we are making headway in the representation of the Institute and its members with all of them: as advised previously, under the banner of the NBPR the Institute has submitted a Tender to the Victorian Building Authority for the provision of Assessment services for the registration (licensing) of Registered Building Practitioners (incl. Builders) in that state, whilst receipt of our submission has been acknowledged several times the issue is yet to be progressed.

After a very long electioneering campaign a federal election was held on 2 July 2016 and this combined with a very close election result meant that the Institute had to temporarily cease our liaison with federal politicians until the "winning" party was declared and invited by the Governor General to form a Government; following that invitation a new Federal Ministry (with new Ministries and Ministers too?) has to be appointed and sworn in.

Just what is to happen with this election's double dissolution trigger, the ABCC (Australian Building Construction Commission) as an industry watchdog is yet to be seen.

The new Building Code of Australia is now in force and the discussions and debates continue on non-conforming and non-compliant (building) products and Deemed to Satisfy provisions and the innovative Performance Based Solutions alternatives.

On the international scene, the Institute is liaising with our Tripartite Agreement partners, the NZIOB and the SIBL over future international events, conferences and site visits etc.; an inaugural Conference is mooted for Auckland NZ in March 2017 and a small steering group from each Institute has been formed.

AIB Vice President Graham Teede FAIB led a small delegation of Mr. Adam Harry FAIB and Mr. Matt

Bowen MAIB to South Africa in late May where Mr. Harry delivered an Eminent Speakers presentation to the University of Pretoria (Messrs. Teede and Bowen also spoke) and where the Delegation participated in local site visits and liaised with local Building and Construction persons culminating in the Australian High Commissioner hosting a lunch for the AIB Delegation and members of the local Building and Construction industry at the High Commissioner's residence in Pretoria.

Our members should recognize that not only are we part of things locally and Nationally we are as well involved globally particularly in the Southern Hemisphere.

May I again repeat what I have said in past Construct Magazine Editions: The Institute is making great strides in representing its members in many forums however we still require your active participation; we welcome constructive comment and suggestion (rather than destructive criticism); this Institute is only as strong as we make it; we all have a role to play and remember there are many advantages and benefits that you derive from being a member.

Yours fraternally,

Norman Faifer FAIB FAIQS FIAMA
National President (and Chairman of National Council)
The Australian Institute of Building

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2016 AIB Chapter Professional Excellence in Building Awards

Australian Institute of Building Announce Winning Leaders in Their Field

Over the past three months the Australian Capital Territory, South Australian, Queensland, Victorian, Western Australian and New South Wales Chapters of the Australian Institute of Building (AIB) awarded their 2016 AIB Professional Excellence in Building Awards. Always a highlight on the AIB event calendars, they were attended by the building and construction industry's leading figures.

The quality of the award recipients in each state is a testament to the high level of professionalism that exists in the building and construction industry. "These awards are the ultimate personal achievement for a professional builder. They recognise the contribution and leadership shown by individuals to the successful completion of a construction project, reinforcing the fact that the success of any building firm can be attributed to those responsible for construction projects" said Norman Faifer FAIB, National President of the Australian Institute of Building.

Photos from the night can be viewed here: <https://www.flickr.com/photos/aibnational/sets/>

AUSTRALIAN CAPITAL TERRITORY CHAPTER

2016 AIB ACT Chapter Professional Excellence in Building Award Recipients

COMMERCIAL CONSTRUCTION UP TO \$1 MILLION

Antonio Pochi

Professional Excellence Award

Company: Cercol Construction Services Pty Ltd

Project: Gungahlin Cemetery Administration Building

COMMERCIAL CONSTRUCTION \$1 MILLION TO \$10 MILLION

Doug Curral

Certificate Of High Commendation

Company: Cercol Construction Services Pty Ltd

Project: YMCA Holt

COMMERCIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

Michael Gilmour MAIB

Professional Excellence Award

Company: Hindmarsh Construction Australia

Project: IKEA Canberra Store

Brett Price AMAIB

Certificate Of High Commendation

Company: Hindmarsh Construction Australia

Project: National Capital Private Hospital

RESIDENTIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

Matthew Oliver

Professional Excellence Award

Company: Hindmarsh Construction Australia Pty Ltd

Project: The Creswell Residences

INFRASTRUCTURE

Alex Luddington

Professional Excellence Award

Company: Manteena Pty Ltd

Project: Christmas Island Jetty

INTERIOR CONSTRUCTION \$1 MILLION TO \$10 MILLION

Andrew Curran AMAIB

Professional Excellence Award

Company: Shaw Building Group Pty Ltd

Project: Refurbishment of Coral Park Aged Care Village

Adam Rogic

Certificate Of High Commendation

Company: Hindmarsh Construction Australia

Project: ANU - College of Law



NEW SOUTH WALES

2016 AIB NSW Chapter Building Professionals of the Year

INFRASTRUCTURE

Tim Cadden

Professional Excellence Award and NSW Building Professional of the Year

Company: Hansen Yuncken
Project: Wollongong Hospital Redevelopment

COMMERCIAL CONSTRUCTION \$100 MILLION PLUS

Winner: Mitchell Correia

Professional Excellence Award and NSW Building Professional of the Year

Company: Built
Project: 20 Martin Place

2016 AIB NSW Chapter Professional Excellence in Building Award Recipients

INTERIOR CONSTRUCTION \$1 MILLION TO \$10 MILLION

Joshua Tinker

Certificate Of High Commendation

Company: PSG Holdings Pty Ltd
Project: Australian Tax Office, Newcastle



INTERIOR CONSTRUCTION \$10 MILLION TO \$50 MILLION

Michael Moses

Professional Excellence Award

Company: Built
Project: MLC Centre Refurbishment

RESEARCH DEVELOPMENT AND TECHNOLOGY

Joe Karten

Professional Excellence Award

Company: Built
Project: 20 Martin Place

RESIDENTIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

Roy Massoud

Certificate Of High Commendation

Company: Ceerose Pty Ltd

Project: Harbour Mill

RESIDENTIAL CONSTRUCTION \$100 MILLION PLUS

Simon Gobbo and Andrew Danza

Certificate Of High Commendation

Company: Parkview Constructions
Project: Australia Towers



James Crouch

Professional Excellence Award

Company: Mirvac Constructions Pty Ltd

Project: Harold Park Maestro

INFRASTRUCTURE

Ben Lee

Certificate Of High Commendation

Company: Lahey Constructions

Project: Moree Police Station

Jonathan Russell

Certificate Of High Commendation

Company: Hansen Yuncken

Project: Newcastle Airport Terminal Expansion

COMMERCIAL CONSTRUCTION \$1 MILLION TO \$10 MILLION

Robert Schmitzer

Certificate Of High Commendation

Company: Hansen Yuncken

Project: University of Newcastle NIER 1B

COMMERCIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

Phylicia Cohen

Certificate Of High Commendation

Company: JLL (Jones Lang LaSalle)

Project: Thomson Reuters Sydney Fit Out

Steve Kogias

Certificate Of High Commendation

Company: Hansen Yuncken

Project: Endeavour Energy Springhill Field Service Centre



Joshua Fergusson

Professional Excellence Award

Company: Hutchinson Builders

Project: Vincentia Marketplace

COMMERCIAL CONSTRUCTION \$100 MILLION PLUS

Kent McInney

Professional Excellence Award

Company: Hansen Yuncken

Project: Wollongong Central Retail Development

QUEENSLAND

2016 AIB QLD Chapter Professional Excellence in Building Award Recipients

INTERIOR CONSTRUCTION \$10 MILLION TO \$50 MILLION

Tom Perkins

Professional Excellence Award

Company: Built

Project: Virgin Australia Tier 1 Lounge
Brisbane Domestic Terminal

INTERIOR CONSTRUCTION \$10 MILLION TO \$50 MILLION

Peter Randell

Professional Excellence Award

Company: Built Qld Pty Ltd

Project: Bank of Queensland Fit Out

PROJECT MANAGEMENT \$50 MILLION TO \$100 MILLION

Paul Palenkas

Professional Excellence Award

Company: RCP

Project: Arena Residential Apartment Development



INFRASTRUCTURE

William Whitmore

Professional Excellence Award

Company: Department of Housing and Public Works, Queensland Government
Project: Borallon Correctional Centre Recommissioning - Stage 1

RESIDENTIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

Louis Van Heerden

Certificate Of High Commendation

Company: De Luca
Project: Addison Quays



Cy Milburn MAIB

Professional Excellence Award

Company: J Hutchinson Pty Ltd t/a Hutchinson Builders
Project: Capri Hotel

COMMERCIAL CONSTRUCTION UP TO \$1 MILLION

Rob Diamond MAIB

Professional Excellence Award

Company: J. Hutchinson Pty Ltd t/a Hutchinson Builders
Project: Brisbane Boys College (BBC) Boarding House Refurbishment Stage 1A and B

COMMERCIAL CONSTRUCTION \$1 MILLION TO \$10 MILLION

Mitchell Bentley

Certificate Of High Commendation

Company: Field Construct
Project: Redlynch & Innisfail Cyclone Shelter

David Campbell-Burns

Professional Excellence Award

Company: Hutchinson Builders
Project: Kelvin Grove State College Year 7 - Flying Start

Christopher Chainey FAIB

Professional Excellence Award

Company: Hutchinson Builders
Project: Queensland Rail Milton Station Platform 1 Upgrade

Andrew Lanskey

Professional Excellence Award

Company: Badge Constructions (Qld) Pty Ltd
Project: USC Multi-Level Carpark



COMMERCIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

Levi Corby

Certificate Of High Commendation

Company: Hutchinson Builders
Project: DFO Stage 4, MDCP and Connector Building

David Landsell

Professional Excellence Award

Company: Badge Constructions (Qld) Pty Ltd
Project: Queensland Rail Management Centre

Phillip Millan

Professional Excellence Award

Company: Broad Construction
Project: Brisbane State High School



SOUTH AUSTRALIA

2016 AIB SA Chapter Building Professional of the Year

COMMERCIAL CONSTRUCTION \$100 MILLION PLUS

Paul Melville MAIB

Professional Excellence Award and

2016 AIB SA Chapter Building Professional of the Year

Company: Hansen Yuncken
Project: Lyell McEwin Hospital Redevelopment Stage C

2016 AIB SA Chapter Professional Excellence in Building Award Recipients

INTERIOR CONSTRUCTION \$1 MILLION TO \$10 MILLION

Luke Crouch

Certificate Of High Commendation

Company: Hansen Yuncken
Project: St Francis Xavier Cathedral Pipe Organ Installation



Peter Golotta

Professional Excellence Award

Company: Sarah Constructions
Project: Nine Network



RESIDENTIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

Ben Groves

Certificate Of High Commendation

Company: Hindmarsh Construction Australia Pty Ltd
Project: Ergo Apartments - Stages 2 & 3

Dean Veldhuyzen

Certificate Of High Commendation

Company: Sarah Constructions Pty Ltd
Project: Southern Cross Mount Barker - Oakfield Lodge

Matt Bechler

Professional Excellence Award

Company: Hansen Yuncken
Project: State Drill Core Reference Library

Matthew Gooding*Professional Excellence Award*

Company: Lendlease

Project: Flinders University Plaza and Student Hub

COMMERCIAL CONSTRUCTION \$50 MILLION TO \$100 MILLION**Matt Sanders***Certificate Of High Commendation*

Company: Badge Constructions (SA) Pty Ltd

Project: Aldi Distribution Centre

COMMERCIAL CONSTRUCTION \$100 MILLION PLUS**Paul Melville MAIB***Professional Excellence Award and 2016 AIB SA Chapter Building Professional of the Year*Company: Hansen Yuncken
Project: Lyell McEwin Hospital Redevelopment Stage C**VICTORIA/TASMANIA**

2016 AIB VIC Chapter Building Professionals of the Year

RESIDENTIAL CONSTRUCTION \$100 MILLION PLUS**Dino Krommydas FAIB***Residential Building Professional of the Year and Professional Excellence Award*Company: L.U. Simon Builders Pty Ltd
Project: Lucia Apartments**COMMERCIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION****David Purcell***Commercial Building Professional of the**Year and Professional Excellence Award*

Company: Kane Constructions

Project: Geelong Library & Heritage Centre

2016 AIB VIC Chapter Professional Excellence in Building Award Recipients

INFRASTRUCTURE**Aaron Croft***Professional Excellence Award*

Company: Hansen Yuncken Pty Ltd

Project: Melbourne Markets Relocation
Project Parts A & B**INTERIOR CONSTRUCTION \$1 MILLION TO \$10 MILLION****Kurt Nolan***Certificate Of High Commendation*

Company: Hutchinson Builders

Project: CSIRO Clayton Property Strategy Separable Portion 4

PROJECT MANAGEMENT \$10 MILLION TO \$50 MILLION**Andrew Skewes***Professional Excellence Award*

Company: Johnstaff

Project: Argus Building Redevelopment

RESEARCH DEVELOPMENT & TECHNOLOGY**Timothy Fowler***Certificate Of High Commendation*

Company: Kane Constructions Pty Ltd

Project: MPavilion 2015

RESIDENTIAL CONSTRUCTION \$1 MILLION TO \$10 MILLION**John Leone MAIB***Professional Excellence Award*

Company: Leone Constructions Pty Ltd

Project: Toorak Residence

**RESIDENTIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION****Engin Bayboru***Certificate Of High Commendation*

Company: L.U. Simon Builders Pty Ltd

Project: 20 Queen Street Blackburn

Nick Colussi*Certificate Of High Commendation*

Company: Buildcorp Commercial Pty Ltd

Project: Chapters Apartments

David Egan*Certificate Of High Commendation*

Company: Buildcorp Commercial Pty Ltd

Project: Alto Apartments

Yanni Lloga*Certificate Of High Commendation*

Company: L.U. Simon Builders

Project: Collins & Queen

Elie Raad*Certificate Of High Commendation*

Company: Buildcorp Commercial Pty Ltd

Project: Freeway Apartments

Matthew Corrigan MAIB*Professional Excellence Award*

Company: LU Simon Builders

Project: Orbis and Momentum

**George Jim Moschogiannis MAIB***Professional Excellence Award*

Company: L.U. Simon Builders Pty Ltd

Project: Campus Clayton

COMMERCIAL CONSTRUCTION \$1 MILLION TO \$10 MILLION**Roland Di Carlo***Certificate Of High Commendation*

Company: Johns Lyng Commercial Builders

Project: Forest Hill Police Station

Dieter Ruff MAIB*Certificate Of High Commendation*

Company: Johns Lyng Commercial Builders

Project: Somerville Trade Training and Technical Education Centre

Khairul Mohd*Professional Excellence Award*

Company: Building Engineering Pty Ltd

Project: Siena College - St Catherine Student Centre

David Moyle*Professional Excellence Award*

Company: Ballarat Construction Management

Project: BCM Head Quarters

**COMMERCIAL CONSTRUCTION \$10
MILLION TO \$50 MILLION**

Marco Bonadio

Certificate Of High Commendation
Company: Kane Constructions
Project: Aquanation

Mick Connolly

Certificate Of High Commendation
Company: Hutchnson Builders Pty Ltd
Project: ICON - Hobart Central
Redevelopment - Sep A

Julian McPhee

Certificate Of High Commendation
Company: Lanskey Constructions
Project: Coles Torquay

**CATEGORY: COMMERCIAL
CONSTRUCTION \$50 MILLION TO \$100
MILLION**

Andrew Staedler MAIB

Professional Excellence Award
Company: Lendlease
Project: Monash Health – Translation
Research Facility

**COMMERCIAL CONSTRUCTION \$100
MILLION PLUS**

Michael Pascuzzi MAIB

Professional Excellence Award
Company: Lendlease
Project: Margaret Court Arena (Western
Precinct)

WESTERN AUSTRALIA

2016 AIB WA Chapter Building
Professionals of the Year

**COMMERCIAL CONSTRUCTION \$50
MILLION TO \$100 MILLION**

Chris Holdich

*Professional Excellence Award and WA
Building Professional of the Year*
Company: Built
Project: Old Treasury Building

2016 AIB WA Chapter Professional
Excellence in Building Award Recipients

**INTERIOR CONSTRUCTION \$10 MILLION
TO \$50 MILLION**

Tom Skinner

Certificate Of High Commendation
Company: ADCO Constructions
Project: State Administrative Tribunal Fitout



**RESIDENTIAL CONSTRUCTION \$50
MILLION TO \$100 MILLION**

Kevin McIntosh MAIB

Certificate Of High Commendation
Company: Frasers Property Australia
Project: Kingston Apartments - Cockburn
Central

**COMMERCIAL CONSTRUCTION \$1
MILLION TO \$10 MILLION**

Shane Jez MAIB

Certificate Of High Commendation
Company: Tydan Constructions Pty Ltd
Project: McDonald's Melville Rebuild

**COMMERCIAL CONSTRUCTION \$1
MILLION TO \$10 MILLION**

Tim House MAIB

Professional Excellence Award
Company: PS Structures Pty Ltd
Project: WA Museum - CRC
Redevelopment

**COMMERCIAL CONSTRUCTION \$10
MILLION TO \$50 MILLION**

Nigel Gilligan

Certificate Of High Commendation
Company: Cockram Construction
Project: Willetton Senior High School -
Stage 1

Andrew Lea

Certificate Of High Commendation
Company: PS Structures
Project: Bravo Office Development

Tony Grincer

Professional Excellence Award
Company: PACT Construction
Project: 999 Hay Street, Perth



Vernon Houston

Professional Excellence Award
Company: PS Structures
Project: Newman College - New Multi-
Purpose Auditorium

**COMMERCIAL CONSTRUCTION \$50
MILLION TO \$100 MILLION**

Woodrow Forte MAIB

Certificate Of High Commendation
Company: John Holland
Project: Kings Square Commercial Tower 1
(KS1)

**COMMERCIAL CONSTRUCTION \$50
MILLION TO \$100 MILLION**

Cyril Cahill

Professional Excellence Award
Company: Broad Construction Services
Project: Kings Square - Tower 2

**COMMERCIAL CONSTRUCTION \$100
MILLION PLUS**

Marc Van Heemst MAIB

Professional Excellence Award
Company: Brookfield Multiplex
Constructions Pty Ltd
Project: St John of God Midland Public and
Private Hospitals





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**Research by Professor
Peter Davis, Chair of
Construction Management at
the University of Newcastle,
is enabling positive
change and innovation in
building and construction
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The University thanks its partners
John Holland and Lendlease for
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position and making a significant
contribution to the future of the
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Find out more about our
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University of Newcastle Construction Research Project Leader: Professor Peter Davis

Leading the way for construction industry innovation

A team of researchers at the University of Newcastle is undertaking a range of research projects that have the potential to enable positive change and innovation in the construction industry. Professor Peter Davis, who joined the University of Newcastle in 2014 as Chair of Construction Management, a position supported by industry partners John Holland and Lendlease, leads this team.

A balance of experiences

Professor Davis has a unique balance of experience in both the construction industry and research and teaching at Universities across the country. His career began in the UK where he focused on project delivery; construction management, estimating and administering significant economic and social infrastructure projects.

Prior to joining the University of Newcastle, Professor Davis managed several Cooperative Research Centre funded projects and was awarded two Professional Excellence in Building Awards from the Australian Institute of Building for general Research and Academic projects.

To date Professor Davis has produced over 100 publications yielding a cumulative total of 719 citations since 2011 with an h-index of 17 (Google Scholar, 2016).

He continues to pursue competitive grants and collaboration with industry champions in the public and private sector to generate outstanding research and innovation. Presently he is involved with interrelated research projects that advance safety, productivity and wellbeing in construction management. Three of Professor Davis's current collaborative research projects are featured below.

Building Resilience

Professor Davis is currently leading an Office of Learning and Teaching seed funded project focussed on building resilience skills in construction management graduates.

Upon graduation from University many built environment construction management students lose access to support structures such as peers; academic mentoring; time management; environmental familiarity; organisational understanding and culture.

This may lead to tension, stress and failure to perform effectively in new workplaces, especially if the workplace itself is stressful. Not knowing who to ask, what the question is, or where to look for answers, become unanswerable questions and exacerbate levels of anxiety.

The ability to cope and draw on resilience skills may provide answers for graduates. The development of resilience skills are not included as learning outcomes within courses, units of study or programs of learning within the built environment discipline. These dilemmas, from a student's perspective, draws us to the rationale of the proposed project together with its aims; to audit built environment programs in Australia and develop a resilience toolkit for built environment students.

This seed-funded project focuses on the Office of Teaching and Learning priority area of curriculum design.

The aims of the project are to: audit built environment programs in Australia and identify the extent and quality of resilience training in existing Construction Management



programs; identify best practice examples of resilient skill training in undergraduate learning; develop, trial and disseminate a “resilience toolkit” for educational purposes; improve academic understanding of the value of resilience training and disseminated this value proposition through academic journals and relevant Building Education Associations.

Psychological Contract of Safety

Professor Peter Davis in collaboration with other staff and a PhD student on a second research project focussed on personal deals or psychological contracts. The phenomenon has the potential to shape construction employees’ behaviour. A psychological contract is defined as an unwritten set of expectations between stakeholders, which are distinct from a formal, documented contract.

The aim of this research is to utilize significant psychological contract (personal deal) theory from disciplines other than construction to develop a psychological contract of safety model. Workplace safety is of particular concern to construction stakeholders and all organizations have implemented workplace practice notes, rules and guidelines to ensure that safety is a primary objective of all. However, the benefit that accrues from existing measures is difficult to assess. Several approaches have attempted to reduce the propensity of accidents, near misses or the like on construction sites with varying success.

To address these shortcomings, this research aims to develop a model that can be used to explain and evaluate the nature of the psychological contract in construction safety management.

Specific objectives of this research project are:

- To determine in employee-employer relationships appropriate classifications of relationship benefit from which measures of improved safety can be determined.
- Develop taxonomy of benefit and breach in the personal deal of both employers and employees that provide indicators of the personal deal in safety.
- Create a model of personal deal in safety that will provide beneficial outcomes to construction stakeholders.

Articulating excellence in construction

In a project supported by the AIB, Professor Davis has identified the AIB Excellence in Building Awards (PEA) as an avenue through which construction companies articulate specific innovation and value generation.



Run on an annual basis and over a number of years, these awards have captured valuable information from which the research team is developing taxonomy of capabilities. They have identified factors that encapsulate these capabilities, for example: innovation, value for money and productivity, problem solving, teambuilding and communication. These classifications can be used to differentiate construction companies and affect strategy and marketing at multiple levels and stages of operation, across a range of projects.

The goal of the research project is to de-identify, catalogue and analyse this

aggregated information to enable the creation of baseline measures of capability, allowing benchmarking at individual, organisation and project levels. This will lead to a better understanding of, amongst other things, the culture and norms that underpin construction capabilities, potentially accelerating beneficial change at an industry and create new research perspectives.

Find out more about construction management research and training at the University of Newcastle at: www.newcastle.edu.au/sabe

ADVERTORIAL

Customised prefabricated BARMAT™ provides the perfect foundation for Euro Precast's innovative BubbleDeck® flooring system.



Having manufactured quality precast concrete elements including façade panels, structural panels and load bearing walls for residential, commercial and industrial markets since 2006,

Euro Precast turned to OneSteel Reinforcing's quality BARMAT™ reinforcing mats to deliver their exciting new BubbleDeck® flooring system to the Victorian market.

Working on projects ranging from single dwellings to high-rise residential, small factories through to large industrial distribution centres and boutique offices to large office towers, with budgets ranging from \$50K to \$3.5M, Euro Precast's Dandenong operation had already established their ability to deliver for the construction industry when they took on the challenge of delivering a cost-efficient and effective new prefabricated concrete floor system to the market.

BubbleDeck® is a precast concrete floor system which eliminates up to 35% of concrete from suspended slabs and makes floor slabs lighter and stronger by incorporating large, hollow plastic balls into reinforcing bar mats.

However, while the new lightweight floor system simplified construction, bringing it to the Victorian market was no easy task until Euro Precast engaged OneSteel Reinforcing to produce customised prefabricated BARMAT™ reinforcement to assist in the manufacture of the new product.

"BubbleDeck® was originally imported from

overseas due to the inability to manufacture it locally, but that has changed since OneSteel Reinforcing came on board with us with their BARMAT™ product," Euro Precast Managing Director, George Spiropolous said.

"We chose BARMAT™ because it is a very cost-effective, quality product and we have been using it since we started producing the BubbleDeck® in Victoria almost two and a half years ago."

BARMAT™ Class N Reinforcing Bar Mats are an innovative new OneSteel Reinforcing solution that offers prefabricated mats which can be customised with variable spacing and in a variety of shapes including 3D designs.

Coupled with OneSteel Reinforcing's design assistance, BARMAT™

can be produced to exact client specifications to enable faster installation, reduced labour and steel fixing costs, less off cuts and wastage and can also contribute to Green Star steel credit points for offsite optimal prefabrication.

George Spiropolous went on to outline just how BARMAT™ added to Euro Precast's ability to produce BubbleDeck® quickly and efficiently for their clients.

"BARMAT™ delivers to us time and money savings in addition to its efficiency," he stated. "We receive a BARMAT™ that is manufactured to size and delivered just in time for our manufacture, saving us time and money as a result of reduced stock on hand, zero wastage and delivers a high quality product"

"Having BARMAT™ available to us in the exact dimensions we require allows our production facility to manufacture our BubbleDeck® product without having to waste any reinforcement."

Euro Precast has worked closely with OneSteel Reinforcing to successfully deliver BubbleDeck® on four projects and is currently working actively on 2 projects with the new product.

Speaking of the successful OneSteel Reinforcing-Euro partnership, George Spiropolous is clearly pleased with the results achieved. "Working closely with OneSteel Reinforcing has allowed our business to grow and supply the BubbleDeck® product to more customers in the construction industry," he said. "We've been able to do that by liaising with OneSteel Reinforcing to deliver exactly the BARMAT™ we need at the start of each project."

"One example of that is the N8 bar that was unavailable in the Victorian market and which has now come in. OneSteel Reinforcing are producing it for our BubbleDeck® reinforcing to ensure the bespoke mesh is optimised by using the right bar in the right location resulting in no wastage."

"The backup service and support we receive from the OneSteel Reinforcing team is fantastic."





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Report to Council on the 2016 AIB Address in South Africa – University of Pretoria.



Stefanuttie Stocks / Basil Read JV – Kusile Power Station: (L-R) Graham Teede, Adam Harry, Matt Bowen, Reinoud Oranje, Ian Donnelly, Hennie van Heerden

The Australian Institute of Building on the 17th of April 2015 signed a Memorandum of Understanding with the University of Pretoria (UP) with the aim to jointly promote the Profession of Construction Management along with Education and Careers in the Building and Construction Industry in our respective Countries as well as our respective Organisations.

As part of the AIB's commitment to the MoU, Council approved that we investigate hosting the Annual AIB Address in South Africa at the University of Pretoria in 2016.

This was to be done with the aim of securing suitable Partnerships with willing Partners and to this point Probuild Constructions agreed to provide funding for three AIB Representatives to travel to South Africa for this Program. To enhance this event arrangement were made to visit two major Projects and the FNB Stadium which was completed for the World Cup.

Initially contact was made to the Department of Foreign Affairs as information was provided that the Department had various Grants available for International Professional Institutes Education Program which this event fell into, unfortunately due to recent budget cuts these Grants had been discontinued. We were advised by the Department of various entities that supported relationships

between Australia and South Africa, one of these is the Australia - South Africa Universities Association which is Co – Chaired by the Vice Chancellor of the University of Pretoria, Professor Cheryl De La Ray.

We were also given an introduction to the Australian High Commissioner in Pretoria, His Excellency Adam McCarthy. Subsequently the AIB National President, Norman Faier FAIB met with H.E. Adam McCarthy where he offered to host the AIB Delegation to Lunch at his Residence should we get to travel to South Africa. The President gratefully accepted his offer on behalf of the AIB.

In November 2015 various requests for Funding of the Trip was made to several Western Australian and National Building Construction Companies. After most of them declined for various reasons contact was made to meet with Sam Delmenico who had been recently appointed as the new General Manager of Probuild Constructions a Tier 1 Contractor in Western Australia. The deal was sealed over a coffee late one afternoon in early February 2016. Probuild agreed to cover the Costs for three AIB Representatives to travel to South Africa. Then in mid-February the Speaker pulled out and then in April Probuild revised their commitment to Flights only so thankfully the AIB though discussions with the National President we were able to secure funding for the accommodation component from the AIB.

Probuild is a subsidiary of the leading South African Contractor, Wilson Bayley Holmes Ovcon – South Africa (WBHO).

Then the search was on to secure another high profile Speaker who was also an AIB Fellow, a chance phone call to Adam Harry FAIB ex General Manager of John Holland in Western Australia had a positive outcome.

Adam had been a Student Member through to Fellow as well as being a strong supporter of the WA Chapter and inaugural Partner with the WA YBA through John Holland committing to a long term relationship which still continues since 2010.

Adam confirmed his commitment to be the Speaker for the 2016 Inaugural AIB Address in South Africa much to my relief.

Matt Bowen AMAIB and current WA YBA President also committed to travel to South Africa to represent the AIB and the Young Builders Alliance.

Preparations had been continuing with Derick Booyens MAIB one of the AIB Members at UP and who had been tasked by Prof Tinus Maritz FAIB with organising UP's commitment and helping to secure the various Site Visits. After a couple of false starts we had secured two Projects to visit along with the FNB Stadium which was organised by Matt Bowen as a separate visit.

Discussions had also been continuing with H.E. Adam McCarthy to take up his offer of Lunch at his Residence in Pretoria.

Travelling to and around South Africa has its challenges but the AIB Delegation were keen to undertake the required Travel, giving up their time for their commitment for the advancement and recognition of the AIB Internationally.

The Proposed Itinerary was;

▮▮▮ 23rd May - Lunch with H.E. Adam McCarthy at his Residence at No 6 Marais Street, Baileys Muckleneuk, Pretoria.

▮▮▮ 24th May - Site Visit to WBHO Menlyn Time Square, Pretoria.

▮▮▮ 25th May - Site Visit to Stefanutti Stocks – Building – Basil Read Joint Venture at the Kusile



Matt Bowen AMAIB presenting a small AIB gift to Bongani Malaza of Master Builders South Africa – Gauteng Young Professionals



Stefanutti Stocks / Basil Read JV – Kusile Power Station, Graham Teede presenting small gift to Andrew Owens and Ian Donnelly. (L-R) Andrew Owens, Graham Teede, Ian Donnelly

Power Station.

26th May - AIB Address at University of Pretoria.

27th May - Site Visit FNB Stadium – Soweto in Johannesburg.

There were two Social Events arranged after hours with Master Builders SA – Midrand Branch and Mr Bongani Malaza who is connected with the MBSA Young Professionals. Bongani is the Commercial Manager for his family Building Company.

The AIB Delegation were staying at the Maslow Hotel, Sandton City and travelled each day on the high speed Gautrain to Pretoria a trip of approximately twenty five minutes each way, most times in peak hour.

Shuttle to the Gautrain Station each day was provided by the Hotel and to the Sandton City Mall and Nelson Mandela Square where there are a variety of very nice Restaurants.

Lunch with the H.E. Adam McCarthy Australian High Commissioner

Unfortunately due to some last minute commitments by the High Commissioner Lunch had to be cancelled but we were still hosted to a very nice Afternoon Tea by the High Commissioner at his Residence.

The Residence, Australia House is located at No 6 Marais Street, Baileys Muckleneuk, and Pretoria. An old established leafy area where many other Embassy Residences are located.

The AIB Delegation was joined by;

Prof Tinus Maritz FAIB – Head of Department of Construction Economics.

Dean Prof Sunil Maharaj – Dean of the Faculty of Engineering, Built Environment and Information Technology.

Derick Booyens MAIB – Senior Lecturer, Department of Construction Economics.

Dr Stephan Ramabodu - President of the ASAQs

Pierre Fourie – Executive Director Master Builders SA.

After being greeted by His Excellency we were all invited to sign the Visitors Book in the Reception Hall, then we were escorted to the Outdoor Entertaining Veranda where we invited to Tea, Coffee along with an assortment of Cakes and Sandwiches.

During this time I presented an Overview of the AIB and our interests in South Africa and the MoU with UP to the His Excellency, our Guests who also provided an update on the current Academic issues and Industry issues facing South Africa. HE McCarthy also provided some interesting facts on his Role in Southern Africa and the issues faced from his point of view along with the future.

Site Visit to WBHO's Menlyn Time Square Pretoria.

Travelling to Pretoria's Hatfield Station we were met by Derick Booyens and Inge Nielsen a Senior Lecturer in Quantity Surveying at UP who took us to the Menlyn Time Square Project about a twenty five min drive to the Menlyn area of Pretoria where there a massive amount of Building work is being undertaken as this is the next area of development in the Greater Pretoria region.

WBHO have two major Projects adjacent to each other one of these is the R3.65 Billion - Menlyn Time Square Project a Hotel Casino Complex which we visited and the other is the R950 Million - Menlyn Maine Central Square Shopping Centre and Residential Apartment Complex.

We were welcomed by Project Construction Director, Fernando Monteiro and Construction Manager, Subisiso Mwandla who provided a detailed overview of the Project along with some staggering numbers. Currently employing 800 onsite peaking at 7000 late in 2017, for Practical Completion in April 2018, this Project has a Floor Plate of 350,000m² consisting of 5 Levels and a Basement Carpark which will be covered by a fully functioning Rugby Arena.

Currently the Project is tracking to meet the Completion Date. After the Presentation we were invited to Morning Tea and general discussion with the WBHO representatives.

Stefanutti Stocks – Building Basil Read JV – Kusile Power Station Project

Travelling to Kusile a small Township about an hour east of Pretoria it soon became evident we were in a Coal Mining area. The Witbank, Kusile area is located over some of South Africa's biggest Coal deposits.

The Kusile Power Station Project is owned and managed by the South African Electricity Supplier, ESKOM a Government owned entity. Commenced with the first Concrete being poured 2007 this is a massive Project and on a huge scale with many of South Africa's major Contractors having various packages of work.

Accompanied by Derick Booyens, Prof Tinus Maritz and Hennie van Heerden from UP we were welcomed by Stefanutti Stocks Managing Director - Andrew Owens, Basil Read Managing Director - Building, Reinoud Oranje and SSBP – JV Contracts Manager, Ian Donnelly who provided a very detailed overview of their Scopes and issues they faced

followed by a light Lunch and a guided tour of the Project.

Stefanutti Stocks Building have the Miscellaneous Buildings Packages which has a value of R330 Billion, these consist of Control Rooms, Power Generation Buildings, Workshops, Offices and Warehouses. Currently this Scope is suffering serious delays as access to complete is being hampered by others who are also experiencing various issues and delays.

The current status is that the Project is;

Three years late.

Expected completion 2020

Current Workforce is 5000 and is expected to peak at 25,000 late in 2018.

Due to the current delays the current Coal Fired Technology will be out of date in 2020.

The Inaugural 2016 AIB Address

The highlight of the trip to South Africa was the presentation of the AIB Address also known as the AIB Eminent Speakers Program. Arriving at the University we were welcomed into the School and Department by Derick and the Staff over a Coffee and introductions. Then a short ride to the Venue the Sanlam Auditorium we were quickly set up and met with various guests over light refreshments.

We were joined by Mr Neil Cloete, CEO of Liviero Group and current Master Builder SA President and other invited guests and an audience of approximately 130 Undergraduates, Lecturers and other Industry representatives.

Prof Maritz FAIB welcomed the AIB Delegates and all the attendees to the Inaugural AIB Address and provided a short back ground on the Department and the University. A short overview of the AIB was presented by Graham Teede FAIB, followed by a short presentation on the Young Builders Alliance along with some Promotional Material on BIM provided by Alastair Brook MAIB and PDC this was very well received as BIM has a great deal of interest there.

The AIB Address was delivered by Adam Harry



WBHO Menlyn Time Square Site



Stefanutti Stocks / Basil Read JV – Kusile Power Station, Control Building & Workshop Temp Works Crane Rails

FAIB his presentation “Boom to Bust” – a Career in the Building Industry. After ten minutes Adam had the audience’s attention as he spoke about his career, the importance of being connected to a Professional Institute like the AIB and the benefits of this.

He also spoke on the value of having good Mentors in your life as you can always call on them for advice whatever it maybe. Adam’s presentation also touched on his journey and the challenges he faced to where he is today.

Adam’s presentation hit the mark as he could speak personally about the relevant issues and being relatively young he was able to relate to the issues facing these Undergraduates.

Neil Cloete current President of the Master Builders SA provided a short presentation on the current state of the Building Industry in South Africa and the many challenges they face from the Rand heading towards junk status, lack of leadership in government and the ever present corruption at all levels of industry and government. Coupled with these issues is a very strong Union movement which in many instances is out of control although this mostly felt in the Mining areas. Interestingly though many we spoke with were ever optimistic about the vast opportunities that abound in Southern Africa and Sub Saharan Africa.... It is certainly a land of contrasts and intangible twists.

On completion of the presentation Derick Booyens



Adam Harry FAIB presents the 2016 AIB Address at University of Pretoria

was presented with a small Gift from the AIB Team as well as thanking the University and Staff Members for their hospitality. We also provided to all attendees some AIB and YBA Brochures and Brochures on BIM along with some AIB Branded USB’s all of these were handed out so everyone one received one. ‘

Light Lunch was provided, this time also allowed the AIB guests to speak with the many Students and Guests who were keen to make themselves known to us as well as wanting photos with the AIB members. Later that afternoon, we hosted Derick to an early Dinner and Drinks in appreciation of his help in organising the South African end.

FNB Stadium Site Visit

Bongani Malaza from Ubuhlebethu Business Enterprise and Nhlanhla Mtombi from Equate Africa hosted Matt Bowen and myself to morning tea at their Offices then onto the FNB Stadium in Soweto which was Refurbished and Extended to accommodate the Soccer World Cup. We were to meet with the Architects Boorgertman and Partners Architects but this was cancelled at the last minute due to that Team being required to make an urgent presentation to a key Client.

We were hosted to a guided tour of the FNB Stadium which is an impressive Project which unfortunately was embroiled in numerous Contractual Disputes but all in all very worthwhile to see. The Stadium is regularly used for local Rugby and Soccer matches.

In the afternoon we were guest for Lunch at an Outdoor Restaurant in Soweto’s Vilikazi Street just across the street from Nelson Mandela’s home. Vilikazi Street is a thriving hub of Soweto where you can eat most of the local fare at the numerous eateries and purchase whatever you like from the many local street stalls where local artisans sell their wares.

Overall the Trip to South Africa for the AIB was constructive and helped raise the profile of the AIB at an International level. Whilst it may not bring us a lot of members it will in my view open doors to Universities such as the University of Cape Town, University of Johannesburg and others where we may in time secure future relationships. There is an opportunity for the AIB through the YBA to engage with various Student interactions such as regular Teleconferences / Video Conferences or Webinars and other educational programs. But this will need a designated effort by the AIB if we want continue to foster these relationships and continue to raise the AIB profile.

Special Thanks to:

- //// HE Adam McCarthy , Australian High Commissioner to South Africa
- //// Staff at the High Commissioners Residence
- //// Adam Harry FAIB
- //// Matt Bowen AMAIB
- //// Prof Sunil Maharaj , Dean Faculty of Engineering , Built Environment ,University of Pretoria
- //// Prof Tinus Maritz FAIB , Head of Dept ,University of Pretoria



WBHO Menlyn Time Square – Basement Site Works

- //// Derick Booyens MAIB , Senior Lecturer, Construction Economics ,University of Pretoria
- //// Miechaine Buys, University of Pretoria
- //// Elmarie Cronje , University of Pretoria
- //// Sam Delmenico , Managing Director Probuild – WA
- //// Ally Phillips, PA, Probuild – WA
- //// Fernando Monteiro, Managing Director WBHO
- //// Sibusiso Mwandla , Alternate Director , Construction Manger WBHO
- //// Leon Oosthuizen , Quantity Surveyor , WBHO
- //// Raquel Cerqueira, PA, WBHO
- //// Andrew Owens ,Managing Director Stefanutti Stocks – Building
- //// Ian Donnelly Commercial Manager Stefanutti Stocks – Building
- //// Gerrit Griessel , Project Manager Stefanutti Stocks – Building
- //// Reinoud Oranje , Managing Director Basil Read
- //// Bongani Malaza , MBSA Young Professionals
- //// Debbie Andrews , Owner MTA Travel Australind
- //// Maslow Hotel Sandton



WBHO Menlyn Time Square Site Visit: (L-R) Graham Teede FAIB, Leon Oosthuizen (WBHO), Adam Harry FAIB, Fernando Monterio (WBHO), Inge Pieterse (UP), Derick Booyen MAIB (UP), Matt Bowen AMAIB, Sibusiso Mwandla (WBHO)

Australia's insulators call for cut in building sector emissions

Australia's insulation industry is actively supporting the establishment of a national plan to reduce emissions in the Australian building sector to zero by 2050.

Under the Paris Climate Change Agreement signed in April, Australia has committed to a transition to zero net emissions by 2050. The national building sector currently contributes about a quarter of Australia's national greenhouse gas emissions and represents a major opportunity for emission reductions.

A new report titled Low Carbon, High Performance shows how Australia's building sector can deliver up to 28% of Australia's emissions reduction target, save \$20 billion by 2030, creating healthier, more productive cities using a suite of targeted policies.

Insulation Australasia, which represents Australian and New Zealand insulation manufacturers, fabricators and installers, is a member of the Energy Efficiency and Emissions Task Group established by the Australian Sustainable Built Environment Council (ASBEC) to develop a national plan to achieve net zero emissions across the building sector.

ASBEC recently released the Low Carbon, High Performance report authored by ClimateWorks Australia, an independent

research organisation founded to accelerate emission reduction in Australia. Key report findings show that buildings account for nearly a quarter of Australia's emissions so strong action in buildings is essential for Australia to meet its international obligations for zero net emissions under the Paris Climate Change Agreement.

Insulation Australasia Chair Scott Gibson says the report clearly outlines a policy roadmap to achieve net zero emissions by 2050.

"The building sector can reduce emissions right now by more than half with the introduction of improved levels of energy efficiency and an 'envelope first' path to net zero. This path starts with improved envelope insulation and glazing. After which the optimisation of services and appliances, coupled with the decarbonisation of the grid via renewable energy closes the gap to a net zero building," Mr Gibson says.

"The technology is already there and in use, however strong policies and urgent action by Federal, State and Territory governments are critical to addressing existing barriers and accelerating outcomes. We must urgently establish a national plan, set strong mandatory minimum standards, create targeted incentives, reform the energy market, ensure available data is more readily accessible

and further expand research and education measures."

Mr Gibson says just five years of delay in implementing the opportunities in buildings could lead to \$24 billion in wasted energy costs and over 170 megatonnes of lost emission reduction opportunities by 2050. Australia's thermal performance requirements are low compared to Europe and there's an opportunity to improve these for implementation in updates planned for the National Construction Code for introduction in 2019.

"There is also an urgent need to address the issue of product compliance and the 'as built as designed' issues on site, to ensure stated building energy efficiency performance is delivered as designed. Any reforms, including increased building envelope thermal efficiency and the introduction of the ASBEC Low Carbon, High Performance road map will be nullified without proper policing and enforcement of product compliance by our State regulators."

For further information or to obtain high-resolution images please contact Jill Johnson on 0409 217 624 or email j.johnson@omcmedia.com.au



Standards Australia commences digital transformation program

- Board approves substantial digital transformation program
- Strategic focus on future proofing and value adding
- First phase implementation expected by the end of 2016

Standards Australia has approved a digital transformation strategy which lays the core foundations of the digital standards body needed to support growth in Australia's future.

"Our goal in this work has been to ensure the viability, strength and capacity of Standards Australia as a contributor to Australia's economic future," said Dr Evans, CEO of

Standards Australia.

The plan will see Standards Australia establish a digital repository built on a platform that is best of class technology.

In the first phase, Standards Australia will see benefits realised in:

- Establishing a central and searchable content repository;
- Streamlining multiple workflows; and
- Connecting content development to digital curation and flexibility of outputs.

"By leveraging our international relationships, member insights, and by looking outside of the

standards publishing world, we have a plan that will set us up to be the digital standards body Australia needs tomorrow," said Dr Evans

Further stages will see Standards Australia with the capacity to move to different collaboration and distribution models.

Standards Australia will be consulting with stakeholders through this process to maximise the benefits from both development and user perspectives.

Media Contact: Adam Stingemore, General Manager Stakeholder Engagement and Public Affairs

0447 659 503

Emergency storm damage protection for homes and businesses gets Federal Government funding



A new patented, Australian invention 'Stormseal' – that super seals buildings and roofs damaged by storms or left open during construction – will aid extreme weather victims, their insurers and builders, thanks to a \$452,162 federal government commercialisation grant.

Stormseal's Founder and Managing Director Matthew Lennox said the funding would allow his company to fully commercialise the product which is a unique patented polyethylene film that heat shrinks to cover damaged roofs or walls, providing strong, secure, cost-effective and lasting weather protection, unlike tarpaulins – the traditional alternative.

"Severe storms are now more frequent world-wide, damaging property, traumatising residents, stretching emergency resources and costing insurance companies billions. In the 2007 Australian storm hailstones as big as cricket balls hit Sydney, causing insured losses of A\$486million. Stormseal can make a big difference in such an aftermath, especially damages take time to be fixed due to big insurance demands," said Mr Lennox.

The idea for Stormseal came to Mr Lennox when he was overseeing repairs and reconstruction on behalf of several insurance companies following storm episodes and during continual wet and windy conditions where he saw the damages claims multiply fourfold due to failing tarpaulins.

"Seeing how ongoing bad weather can make problems event worse following a storm event, it sparked the idea to develop the shrinking resin in the Stormseal film which can wrap tightly to any roofline to resist wind, rain and hail until permanent repairs can be made.

"Unlike flapping, leaking tarps - which usually

require multiple reattachments, using ropes and sandbags - Stormseal stays put, significantly reducing expenses for insurers and minimising stress on householders," he explained.

"Our tests have found our product to be faster, cheaper and easier to install than a tarpaulin and can be cut and tailored at the worksite. It is currently available for use with training needed for installation but the funding will now allow us to increase production and meet demand," Mr Lennox says.

"Other major benefits are that Stormseal weighs less than one-third as much and requires less than one-eighth of the storage space compared to tarpaulin. Also, heat curing changes the chemical structure of the Stormseal film, enhancing its strength.

"The insurers and builders who have witnessed the potential of our versatile product know that it will cut their costs significantly, while keeping policyholders property safe. Stormseal is an ideal solution for rapid response and cost-effective resilience in the face of natural disasters." Craig White, National Manager of Events Response, Suncorp says "I definitely see a place for Stormseal in our National Hazards Strategy."

"Two patents have been granted for our Stormseal film and application method together with trademarks", which we believe have the potential to take global markets by storm!" concluded Mr Lennox.

The funding was announced by the Mr Wyatt Roy, Assistant Minister for Innovation, Department of Industry, Innovation and Science under the Federal Government's Entrepreneurs' Program.

To learn more, visit www.stormseal.net.au

Industry and Government building bridges

The initial model for an innovative new system of bridge construction has been successfully trialed in regional NSW.

The state-of-art bridge has officially launched at an opening ceremony on Monday the 27th of June near the town of Goulburn and it is expected that a mix of industry representatives as well as state and federal politicians will attend the opening.

The new bridge system addresses the issue of aging infrastructure in an innovative way, while creating more locally-based jobs for the region in which the bridge is constructed. It has attracted support from State and Federal Government departments and federal funding in the form of Research and Development (R&D) and Export Market Development grants (EMDG).

Lifting Point, initially a family business, formed collaborative partnerships with leading industry partners to get the innovative concept off the ground.

"With the rise of natural disasters and problems associated with aging infrastructure, we saw the need for rapidly deployable, pre-engineered bridge products," said Lifting Point founder, Bruce Mullaney. "The logistical and installation benefits have since opened up growth opportunities, both in Australian and internationally."

Upon seeing the product's potential, reputable Australian engineering firm SMEC offered their expertise for the initial project.


Recognising the opportunity that Lifting Point's bridge innovation presented, international company Toyota Tsusho Australasia came on board as driver of the project, while the Australian Reinforcing Company (ARC) provided major support by supplying the reinforcing steel and prefabrication expertise needed for the project.

The system uses two major components: a metal tray, which defines the shape of the bridge deck; and the reinforcement mesh, which is prefabricated and connects to the tray, structurally supporting it until the concrete is set.

These panels can be mass-produced using modular techniques, leading to high quality control, lower assembly costs, better workplace safety and pre-certification due to the use of Australian made and certified steel.

They are also designed to be easily stacked up and transported in the format of a shipping container, opening up opportunities to increase Australia's export infrastructure. Installation of the pre-assembled bridge deck is faster and simpler than traditional methods, with the added ability to pour the entire bridge as one single concrete slab, which requires reduced maintenance over the entire life of the bridge. The result is a safer and longer-lasting structure.

This has many advantages over the traditional method of pre-cast concrete, which involves pouring the concrete off-site and transporting the heavy components to site.



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Building and construction priorities focus politicians on productivity and safety

The Australian Construction Industry Forum (ACIF) has released its 2016 Policy Priorities. The four policy priorities are: the re-establishment of the Australian Building and Construction Commission (ABCC) with its former powers; the implementation of an effective regime to minimise the use of non-conforming building products; re-starting the process for the national harmonisation of licensing and registration of all trades and professions in the construction industry; and the establishment of an Australian Centre for Procurement Excellence.

The building and construction industry has released this shortlist of priorities to focus the major parties in the lead up to the Federal Election, as well as the next government on main issues in this crucial sector. For the 1.1 million Australians who work in building and construction industry, which is set to have a turnover of \$212 billion this financial year, and for the 24 million Australians who live, work and play in the built environment, it is a crucial policy area in the upcoming Federal Election.

"While ACIF has many policies, these four have been chosen by our members as the most important ones that need addressing in 2016", stated James Cameron, ACIF's Executive Director.

"While the double-dissolution election was called due to the Senate not passing the legislation to re-establish the Australian Building and Construction Commission, the issue has not been a major one in this election campaign."

"However, re-establishing the ABCC would lead to massive gains in productivity in the construction industry, and would benefit all workers in the industry."

"The issue of non-conforming or faulty building products is also an important one which has a significant impact on consumers. While Governments are addressing this issue to some degree via the Building Ministers' Forum and Australian Building Codes Board, we wish to keep working with them to find effective solutions."

"National licensing would also lead to significant productivity gains in the industry, as would a national centre to promote procurement excellence."

"We look forward to hearing from all parties on these issues, and discussing these issues further with them over coming weeks and months."

ACIF is the peak consultative body for the building and construction industry, where the most significant trades and professions that drive the industry collaborate on issues and opportunities for the sector as a whole. The policies published by ACIF reflect the agreed key issues for architecture and design, building and engineering plus the main trades from the industry, from residential housing to commercial properties, through to roads, bridges and major services that enable our country to work. As the peak industry group, ACIF is concerned and committed to driving improvement in these key

policy areas in the short to medium term.

ACIF's policy priorities for 2016 are provided below.

2016 Policy Priorities of the Australian Construction Industry Forum

The Australian Construction Industry Forum calls on Australia's political parties to consider and adopt ACIF's policy priorities.

The Australian construction industry employs over 1.1 million Australians, and in 2015-16 had a turnover of \$212 billion.

Therefore, the construction industry is one of the main drivers of the Australian economy and its productivity and success is critical to the growth and success of the Australian economy.

ONE: Re-establishment of the Australian Building and Construction Commission with its former powers.

ACIF calls for the reintroduction of the ABCC and all of the industry-specific laws previously administered by the ABCC. The application of these laws will ensure an upsurge in labour productivity in the sector which must be an essential part of the effort to ensure an industry level productivity boost. ACIF also calls on Federal and State Governments to align their procurement policies so far as these regulate workplace relations.

From 1 October 2005, following the passage of the Building and Construction Industry Improvement Act 2005 (Cth) (BCII Act), which created the Australian Building and Construction Commission (ABCC), the building and construction industry enjoyed a period of significantly improved industrial relations and increased productivity in which industrial relations was not the predominant and negative influence that it had been in the past. That change benefited all parties in the industry, including workers. Equally importantly, it benefited the Australian economy and the community. This regime should be re-installed because since June 2012 a weaker agency administering the Fair Work Act has been in place and the powers of that agency as well as the flaws in the Fair Work Act have seen an upsurge in industrial activity and the partial return of the climate of fear and intimidation that has regrettably dogged the industry for decades.

ACIF also calls on Federal and State Governments to align their procurement policies so far as these regulate workplace relations. At present, there are conflicting regimes of government procurement policies which contain potentially conflicting provisions. The greater disciplines imposed by, for example, the Victorian Code of Practice for the Building and Construction Industry and the related Implementation Guidelines should be consistently applied in all jurisdictions. This step would assist the task of building and construction industry workplace reform, as the ABCC would oversee the application

of the disciplines imposed.

TWO: The implementation of an effective regime to minimise the use of non-conforming building products.

On this issue, ACIF supports the approach of the Construction Product Alliance (CPA). In August 2015, the CPA provided a paper to the Building Ministers' Forum setting out an eight point Action Plan containing key activities designed to support a holistic approach to the issues. The recommendations in the Action Plan were as follows:

1. Establish a taskforce comprised of key industry stakeholders and state and federal government agencies with a charter to develop a strategic plan which incorporates short, medium and long term responses to the issue of non-conforming products (NCP).

2. Request the Australian Building Codes Board (ABCB) to:

- Undertake a review of the current evidence of suitability criteria in the National Construction Code (NCC); and

- Develop and publish guidance material in the form of a handbook regarding the use of risk-based assessments to determine the appropriate evidence of suitability under the NCC.

3. Establish a national portal to increase public and industry awareness of available information on NCP.

4. Increase stakeholder awareness of third party certification schemes as a tool for achieving product compliance.

5. Develop and operate a pilot to determine the feasibility of establishing a single building products register for compliant product based on industry and government certification schemes.

6. Evaluate the feasibility of building product legislation being enforced at point of sale.

7. State building authorities to review surveillance and audit activities and implement stronger penalty regimes to improve effectiveness in achieving compliance with the National Construction Code (NCC).

8. Assess the feasibility of establishing a confidential reporting system to facilitate the reporting of industry concerns around NCP.

THREE: Re-start the process for the national harmonisation of licensing and registration of all trades and professions in the construction industry.

ACIF believes that a genuinely national market for like contractors, professions, trades and disciplines working in the industry would make for a more efficient market, responsive to varying needs for particular skills in different jurisdictions. This requires consistent capability and licensing and recognition standards across all jurisdictions.

It is for the representatives of those professions, trades and disciplines to agree on the appropriate skills requirements, and the requirements for continuing professional development of organisations and individuals.

With nationally consistent frameworks of licensing or regulation there should be one arbiter of change rather than allowing multiple agencies to introduce additional or varied requirements or, worse, introducing minimal or lowest common denominator

standards.

The Commonwealth Government agency working on national occupational licensing needs to ensure that licensing requirements include elements for maintaining appropriate commercial skills for individuals who are responsible for payments from customers and to staff, contractors and service providers.

Individual ACIF Members' areas of influence include needs for greater efficiency in occupational licensing or registration. They each point to benefits in terms of quality outcomes. They include:

- |||| National registration for architects rather than state and territory registration;
- |||| Consistent national registration for engineers;
- |||| National accreditation for all protection sectors; and
- |||| The alignment of registration and certification qualifications standards for building surveyors across all jurisdictions.

FOUR: Establishment of an Australian Centre for Procurement Excellence.

With large amounts of public funds being spent on infrastructure, it is incumbent on governments to ensure they get maximum value for money through the procurement process. To buy wisely you need wise buyers: there are substantial opportunities for governments and business to share expertise,



and identify and deliver solutions that improve productivity and value for money across the procurement process.

To overcome persistent deficiencies in procurement skills and practices, we recommend a whole of

government approach supporting the establishment of an Australian Centre for Procurement Excellence, building on the work of the Australasian Procurement and Construction Council (APCC).

The Procurement Centre of Excellence will expand the APCC's role and remit, broadening government engagement and building on work across jurisdictions considering efficiencies in procurement. The Centre would be tasked with building a stronger relationship between government and business and supporting best practice procurement in Australia at all levels of government. The Centre should:

- |||| Be established as independent of government;
- |||| Build stronger linkages between government and with industry sectors;
- |||| Provide transparent expert advice to all levels of government;
- |||| Develop guidelines, build capability and improve standards; and
- |||| Work with Infrastructure Australia and other government agencies to develop long term visionary thinking and planning for investment in economic and social infrastructure.
- |||| The Board of the Centre for Procurement Excellence should include equal levels of representation from industry and government.

For more information about ACIF's Policies, please visit www.acif.com.au/policies



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Concrete problems today are multifactorial — ROOT CAUSES



*Concrete Cracks provide easy access to
corrosive agents*

Regular and planned asset maintenance is vital for reinforced concrete structures. Such maintenance shall not be a 'cosmetic repair' rather a proper root cause analysis must be carried out to identify and understand the actual source of the problem. Though material selection is an important step in asset maintenance and refurbishment projects but only after the root cause has been addressed. Conducting proper root cause analysis in restoration and refurbishment projects would prevent one from falling into a vicious cycle of 'repairing the repair'. A study conducted by Jingmond and Agren (2015) has highlighted the importance to look at the root causes of the defects in concrete from the organisational perspective as well, instead of the operational level only.

Defect or problem in an existing reinforced concrete structure is multifactorial; it often stems from obscure reasons. Like the cause of a common headache is often attributed to a pathological cause leading to expensive and often needless investigations and treatments, whereas, the actual cause is a stress-triggered



tension headache. Similarly, stomach infections are common during monsoons in some countries, which are due to the 100 year old corroded sewage pipes leaking into the parallel running municipal water pipes. Point to ponder here is that whether treating the gastro patient with medicines or changing water filter would make the situation better without addressing the root cause of the problem or not?

Corrosion of the steel generates iron oxides and hydroxides, resulting in the increase of volume 5 to 8 times of its original size. This increase in

volume causes expansive forces to accumulate within the concrete around reinforcement and results in concrete spalling. Cracks provide easy access to oxygen, moisture, chlorides and other corrosive agents - the conditions suitable for electrochemical corrosion process. Bridge girders often exhibit unexpected end cracking upon pre-stress release, a concern for bridge asset owners. These cracks propagate into the bottom flange of the girder where strands are located and can increase in width with increased traffic loads. Leakages from bridge expansion joint penetrating the bottom flange cracks could easily trigger severe corrosion currents. In this case expansion joints leakage must be arrested prior to the crack and concrete repair activity.

A common and predominant form of cracking at an early age on new concrete bridge decks is known as transverse cracking which appear along the length of span over transverse reinforcement. These cracks accelerate corrosion rates, reduce the service life of the asset and increase maintenance costs. Multiple factors such as materials and concrete mix design, ambient temperature changes, humidity, bridge design characteristics and construction practices that contribute to volume change and/or to degree of restraint of concrete mass result in cracking. Transverse cracking cannot be attributed to all the above factors. It is important to identify the major contributing factor(s) to address the root cause of cracking.

A crude approach while examining the corrosion induced damage in bridge structures, particularly in the marine environment, is to assume the presence of chlorides as the main cause of failure. Chlorides might be the reason of corrosion but not the actual cause of the bridge defect. The root





Linear Transverse cracks on new bridge deck due to plastic shrinkage- Surface grinding to open the face of the crack and sealing with epoxy resin

cause of failure of the bridge structure cannot be simply corrosion. There are many factors involved that could lead to corrosion and ultimately lead to failure of the bridge, such as, cracks in bridge girder web and flange, poor bridge drainage system, failed bridge deck waterproofing membrane, inappropriate bridge joints, void in the prestressed or post tensioned cable ducts due to excessive grout bleed. Other factors at macro level are related to design, material, environment and construction practices. It is important to address the main contributing factor(s) of the defects in bridge structures affected by corrosion.

It is quite common to observe local white patch of efflorescence which appears like a chalky powder at ground floors due to rising or penetrating horizontal dampness inside institutional buildings, hotels and residential apartment buildings. This phenomenon occurs due to number of factors. For example, one of the factors is the absence or damage of proper damp proof course due to which the moisture from the below ground or landscape planters outside hotel rooms seep through the external walls and result in dampness white patches along the perimeter of the internal wall. Treating the damp patch from inside could only solve the problem temporarily but it would recur unless the damp proof course is repaired.

Concrete repairs conducted without considering the actual source are 'cosmetic repairs' and last only for few months. For instance, repairing the spalled concrete of a balcony with quick-fix patch method, even applying the best quality repair mortar, would not solve the problem unless the root cause has been identified and addressed. It could be attributed to more than one cause such as leakage due to failure of waterproofing membrane, an AC drain pipe leak, faulty concealed pipe joints or the combination of these factors. Corrosion of reinforcement that has caused spalling of balcony is not the root cause

here.

Roof leakages in the buildings result in seepage to the flats below. This causes discomfort to the occupants and frequent disputes between the landlord and the tenant in regard to the liability to repair. The failure of roof waterproofing is often attributed to the poor workmanship. Based on this notion, the roof refurbishments are carried out but the leakages appear again after some period of time. A research conducted by Leung and Cui (2005), on roof construction defects have highlighted that the root cause of failure of the roof waterproofing membrane stems from the roof parapet wall cracks. It further concluded that the design and choice of material for roof parapet wall is critical to avoid the waterproofing membrane failures on the roof slab. Other reasons of roof leakages could be wrong termination details of the waterproofing membrane at up-stands and drains, improper selection of the waterproofing system and poor roof joint detailing.

Falling of the external tiles from the building facades can cause damage to assets and pose a potential safety hazard to pedestrians. The number of casualties and injuries caused by the failures of external wall finishes is a serious concern to the authorities in many countries. Ho, Lo and Yiu (2005), in their research highlighted various factors that could lead to external tile failures such as thermal and moisture effect that induce movement of tiles, inferior quality adhesive, poor workmanship, improper joints, weathering, vibration and substrate properties. The failure could be due to a single factor or it could be an effect of a combination of the above factors. It is vital to recognise and address the major contributing factor of the de-bonding and falling of tiles.

Finding the real cause of a concrete problem rather than merely dealing with its symptoms is the key to success for a durable repair and refurbishment job. Aspirin quick-fix approach in handling concrete defects would only provide temporary cosmetic solution. The aim is to create an awareness among the civil contractors and



Cathodic protection to bridge piers affected by cracks, corrosion and spalled concrete, using embedded galvanic anode units 'Galvashield XPT' (left) and distributed galvanic anode system 'Galvanode DAS' (right)

engineers that to solve the concrete defects effectively they need to drill down through the symptoms to reach to the actual root cause. Re-examining, re-designing, re-assessing, re-selecting, re-applying and lots of 're-s', can easily be avoided by examining and fixing the root cause of the concrete defect to ensure the same problems are not recurring.

About the Author



Hamid Khan working presently as Brand Manager – Concrete Durability at Parchem (DuluxGroup), Australasia, holds a bachelor degree in Civil Engineering discipline. He also holds a double Master in Business and Strategy from the University of Wollongong. Hamid is certified in Concrete Technology and Construction, by City & Guilds of London Institute (UK) and is a qualified expert in Concrete repair & refurbishment with 18 years of experience in the industry. He was associated with Fosroc International in Dubai for 14 years taking up various roles in technical and strategic management -Gulf States. Hamid's experience comes from the Gulf, Middle East, Europe, East Asia and Central Asia.

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ADVERTORIAL

How to get Style and Performance in your home with Gyprock



Whether you are building a new home, giving a dated interior a facelift or breathing life into an older property through renovations - high performance, quality products will make a real difference to the enjoyment of your new home environment. Creating a visually pleasing space plays a huge part in how comfortable you and your family will feel in your home, so it's important to get it right from the start.

The planning stage is the ideal time to think about your particular performance requirements. Focusing on the purpose of each area of the home, work with your builder to select solutions to help control noise, reduce maintenance and protect your family from potential airborne nasties.

With the release of the latest HomeStyle Magazine, Gyprock offers inspirational design and lifestyle tips for your home. Modern building methods and materials allow us to transition from the limitations of four plain walls and a flat ceiling to more inventive, stylish and practical ways of using plasterboard to help organise your home spaces, where style and performance go hand in hand. Gyprock's Homestyle allows you to focus attention to style elements that can make your house a home. Design is in the detail and Gyprock cornice adds that finishing touch to any

room.

Quiet Areas

Your bedroom should be your sanctuary, the place you escape to at the end of a long busy day where you can relax and enjoy peace and quiet. However, noise from other rooms in the home can disrupt the tranquillity of your bedroom sanctuary. To help create quiet zones in your home Gyprock Soundchek, a high-density plasterboard with increased noise absorption properties, has been specifically designed for internal walls and ceilings to reduce noise transfer. To add that extra element of serenity to your bedroom space, be sure to include a cornice with multidimensional curves such as Gyprock Symphony, an elegant and timeless classic.

Strength and Durability for High Traffic Areas

Your entrance is a sneak peak into the style of your home so keeping it looking fresh and using smart multi-purpose furnishings and styling, is essential. It's easy to keep your home in the best condition and to reduce the need for maintenance, especially when it comes to scuffs and nicks from daily living, when you select Gyprock Superchek plasterboard. This product features a dense core with high-recycled content,

which in turn provides added durability as well as improved noise control, ideal for high traffic areas like hallways, stairs or rumpus rooms.

Gyprock Superchek's reinforced core reduces the damage caused by knocks and bumps while the heavy duty lining paper provides a more scuff-resistant surface making this plasterboard ideal for high-traffic areas. Transform your entrance hallway by making it stand out using Gyprock Alto cornice. This cornice throws a crisp shadow line to offset a light-filled space and is ideal for contemporary open-plan designs.

Moisture Resistance for Wet Areas

In bathrooms and laundries Gyprock Aquacheck plasterboard is the perfect moisture resistant solution, forming a level base for tile or paint finishes. Gyprock Sensitive plasterboard provides the same moisture resistance with the added benefit of a mould inhibitor that also makes it great for bedrooms or throughout the homes of asthma and allergy sufferers. It is the only residential plasterboard to be approved by the National Asthma Council Australia Sensitive Choice® program. Its hypoallergenic formula contains a special additive that resists the growth of mould to keep that fresh new home feeling for longer.

When it comes to choosing the right cornice, Gyprock helps renovators visualise how you can easily transform the look and feel of a living space. Choose from wall colour, ceiling height, lighting and cornice options as well as architraves, skirting boards and door handles to get the full effect. Visit <http://visualiser.gyprock.com.au>

These tips and more are covered in the latest HomeStyle Magazine, a practical and inspirational guide available at www.gyprock.com.au/homestyle - download your free copy today.

For more information about Gyprock, visit the website at www.gyprock.com.au



Improve Document Control and Mitigate Risk with a Construction-Specific Solution.

The architecture, engineering and construction (AEC) industry was once almost synonymous with inefficiency and conflict, and was generally regarded as a low-tech business sector. Over the past two decades, great strides have been made in revolutionising project delivery processes, and in using technology to enable effective collaboration. Web-based platforms provide a powerful means to centralise information for use throughout project delivery - from the earliest

conceptual stages where the project brief needs to be developed, through detailed design and construction, to hand-over of a fully-documented new asset to the owner-operator.

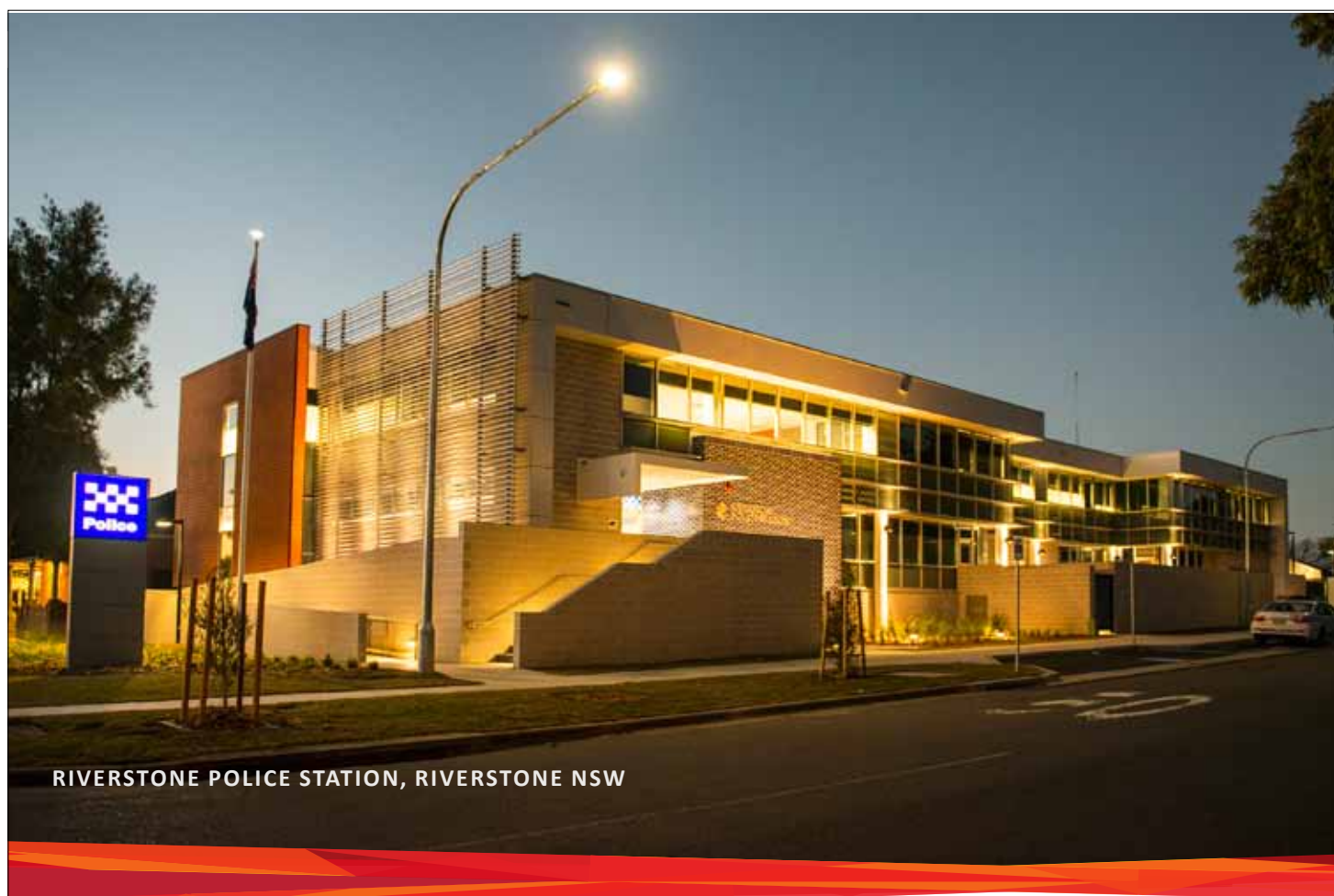
Quite simply, in order for your projects to be accomplished efficiently, effectively, and profitably, you require organised collaboration between all parties involved. This collaboration needs to be present from the planning phase of a project through the management of the built asset. Collaboration and document control across the full lifecycle of a project will only be achieved with an integrated software solution, ensuring your projects meet cost, time, and quality expectations.

For a collaboration solution to truly offer benefits to all members of the project team, it needs to be readily accessible and fairly easy to set up and use. The collaboration solution should allow for fully web-based document storage where all project construction documents can be stored and accessed by authorised organisations and individuals via a website.

Viewpoint For Projects™ is built on the Microsoft platform, providing users with a familiar look and

feel and making it easy for external participants to engage, which drives higher adoption and overall productivity. With the Outlook plug-in, the solution allows users to perform much of their tasks in the familiar interface of their own email.

Furthermore, the Viewpoint For Projects email integration establishes a “safety net” of assurance that every email-based correspondence on a query or instruction process can be captured, stored, and fully searchable - even beyond the completion of the project. Cloud- deployed for use anywhere, the ability to set permissions and notifications, customisable workflows and the option to perform audit histories are all key components of Viewpoint For Projects.



RIVERSTONE POLICE STATION, RIVERSTONE NSW

LUS scoops excellence awards



L U Simon Builders scooped the pool of Australian Institute of Building Awards – Victorian chapter

The annual awards recognise the leadership and challenges associated with the complexity in the construction phase of remarkable or distinctive projects.

Six of the 23 awards went to L U Simon Builders Pty Ltd's teams for their work on:

Lucia Apartments: 21-storey residential development in South Yarra comprising 448 apartments described as a modern Australian suburban baroque city in itself

Campus Clayton: Residential development comprising a basement car-park for 168 cars with three, four-level apartment blocks of 164 apartments, together with a separate row of two-story townhouses of 17 residences and garages

20 Queen Street Blackburn: 50 one and two bedrooms state-of-the-art apartments with quality fittings and basement car parking

Collins & Queen: Essendon's prized mixed-use building consisting of 116 apartments, five retail tenancies and 124 car spaces

Orbis and Momentum Towers, 119 apartments across two buildings, each over seven levels with three basement-levels of 95 car parks.

Dino Krommydas FAIB Construction Manager, who has been with L U Simon Builders for 12 years, a recipient of an AIB Victorian Building Professional of the

year award said, "Our team integrated a range of architectural and engineering value management proposals through the design development phase to provide maximum value for the client."

"Working this way, in the Lucia Apartments project we were able to assist the developers with savings of over \$5 million which included a complete structural redesign. We worked against the clock on a tight program. The project was initially a staged handover, but through detailed planning, a range of buildability initiatives, and a commitment to achieving the best result for the client, we were able to hand over the entire project on one date – three months early.

Frank Materia, (Hons FAIB) Construction Director of L U Simon Builders, added, "Our vast experience over the 61 year history of our company, and the culture we have developed is the key to our long term success. Loyalty is our most prized asset and we take great pride in working with a dedicated team of employees".



Tasmanian wood encouragement policy will benefit environment and health

State Treasurer Peter Gutwein announced yesterday that Tasmania will be the first state in Australia to develop a wood encouragement policy, the focus of which is to ensure wood is considered for the initial stages of public building projects.

The policy requires responsibly sourced wood to be considered, where feasible, as the first-choice construction material in all new-build and refurbishment projects. This follows changes recently to the National Construction Code to allow for timber products such as CLT to be utilised in more construction projects.

Paul Klymenko, CEO of Planet Ark, welcomed the announcement.

"Responsibly sourced, certified wood has significant positive environmental outcomes. It helps reduce the impacts of climate change, it's renewable, it stores carbon and it prevents the release of emissions by replacing carbon intensive materials like steel and concrete," he said. "In addition, wood has proven health and wellbeing benefits, is cost-effective and quick to construct."

More than 20% of Australia's carbon emissions come from constructing and maintaining the built environment, so making the switch to wood as a major building material is a key strategy for addressing climate change.

This announcement follows the adoption of similar wood encouragement policies by Latrobe City Council and Wellington Shire in Victoria and joins others around the world, including Rotorua in New Zealand, Hackney in London, British Columbia in Canada, Finland, France and The Netherlands.

As an example of the environmental benefits of these policies, the Library at the Dock in Melbourne is Australia's first six-star Green Star council-owned building constructed from modern engineered mass timber. It stores 500 tonnes of carbon in its cross-laminated timber structure, locking it out of the atmosphere for the life of the building.

Planet Ark's Wood – Housing, Health, Humanity* report, commissioned for the Make it Wood campaign, found exposure to wood products and interiors has positive physiological and psychological health benefits, similar those created by spending time in nature.

"Research shows that being surrounded by wood at home, work or school has positive effects on the body, the brain and the environment and can even shorten hospital stays through reduced recovery times," Mr Klymenko explained.

An increasing number of architects who design buildings for healing and learning are incorporating significant amounts of wood into their structures to capitalise on its health and wellbeing benefits.

* Wood – Housing, Health, Humanity, Planet Ark, September 2014 <http://bit.ly/1LgoRcR>

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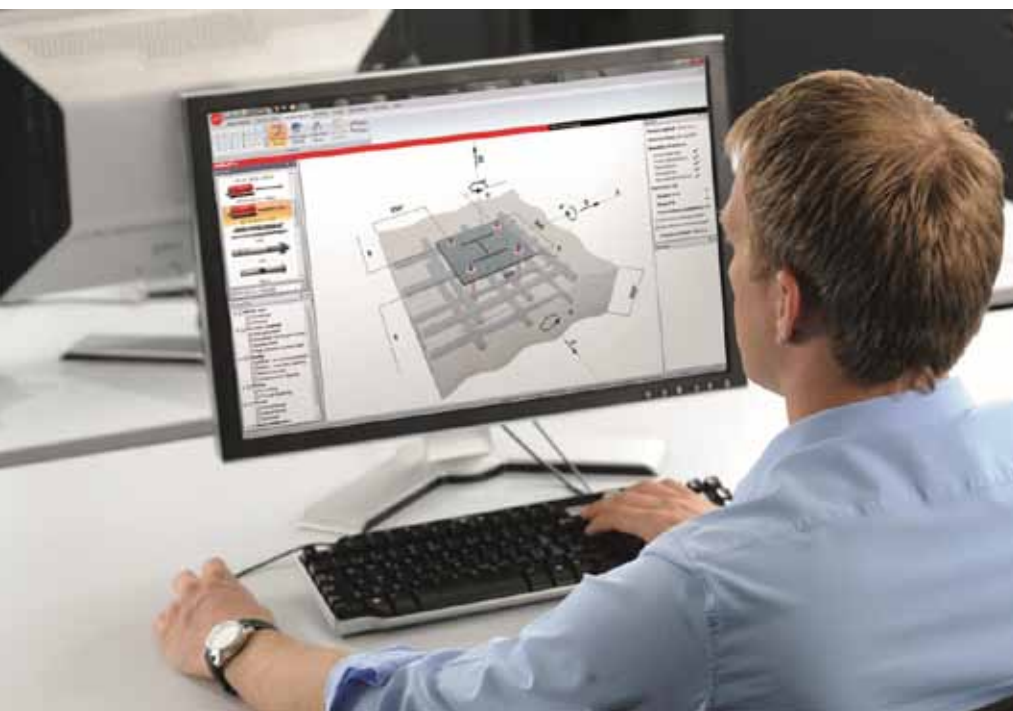
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ADVERTORIAL

Hilti's Profis Software Revolutionises Anchor Industry



Since its introduction in May, SA TS101:2015 Design of post-installed and cast-in fastenings for use in concrete has prompted widespread change in the Australian anchor industry. Implemented in order to raise safety and quality standards, the new standard requires designers and specifiers to re-evaluate their methods, particularly with regard to their products of choice. Hilti, the anchor specialists, has long since advocated these changes, with their vast product range offering certain and simple answers to otherwise complex building issues. Hilti's latest building solution is PROFIS, a revolutionary software suite that adheres to SA TS101:2015 and reinforces the company's reputation for tireless innovation.

For chemical anchors, SA TS101:2015 also requires designers to apply a reduction factor named γ , which accounts for the sustained load component of the design load. This factor is product specific and is equivalent to 0.6 (in the absence of any product specific test data), resulting in the anchor capacity being reduced by up to 40%. Another unique aspect of PROFIS Anchor is that it is the only software on the market that calculates this reduction for the designer; once again ensuring their designs are fully compliant to the stringent SA TS101:2015 standard. By using PROFIS Anchor, the ultimate result is a safer, more comprehensive build - as well as added peace of mind for the designer.

Designed in compliance with the National Construction Code (NCC), PROFIS Anchor Channel is the only fully compliant cast-in channel design software that adheres to the specifications of the aforementioned SA TS101:2015. The ETA approval for the Hilti HAC cast-in channel is the only ETA approval in the world that supports the design to SA TS101:2015.

PROFIS offers numerous other benefits, chief among them a range of time-saving measures. Users are granted full access to Hilti's BIM/CAD library from within the software, and this can be copied into the designer's software as a 3D object - which is convenient and saves time. Fully detailed design reports are created automatically and provide project documentation, while multiple anchor and load capacity tables can be calculated at once - another beneficial time-saving innovation.

The software also updates itself to ensure that the designer is always working with the most current product approvals and latest design methods. Users can also optimise their designs at the press of a button in order to reduce anchor embedment (which saves on chemical anchoring and drilling costs) and reduce base plate size (which saves on steel fabrication costs). PROFIS Anchor is the only software that supplies this function.

Access to SOFA and FIB also facilitates a wider range of standard anchor layouts and includes the ability to design fully customised layouts including customised base plate shapes and customised anchor positioning on the base plate. As PROFIS optimises the size of the base plate, designers can save money on steel. This functionality is unique to Hilti.

ETA prequalified products are filtered by the selection criteria of the intended use, again in accordance with SA TS101:2015. This enables designers to easily select the right anchor product with the correct ETA approval. Another benefit to using PROFIS Anchor is that it can be used to meet design challenges that fall outside the scope of SA TS101:2015, such as seismic design with seismically approved anchors, fire-rated anchors design etc. In this instance, PROFIS will revert to ETAG, which is consistent with the philosophy of SA TS101:2015. PROFIS can also be operated under different design methodologies, such as ACI, granting the designer greater scope to design outside of different standards if the situation arises.

PROFIS is also backed up by support from Hilti field engineers in all capital cities.

For more information on Hilti Australia, visit www.hilti.com.au or call 131 292.

For all media requests (including hi-res images and interview requests), please contact: Stephen Flynn | Niche Marketing Group | 02 8585 4320 | stephen@nichegroup.com.au

About Hilti

Hilti is a global leader of value-added, top quality products and services for professional customers in the construction and building maintenance industry. Hilti develop and supply technologically advanced products, systems and services for measuring, drilling, chiselling, fastening, sawing, cutting and fire protection to help increase the productivity of their customers. Hilti's expert staff, engineers and online resources are also available to handle your construction queries, either online or on-site, such as when site conditions differ from the assumptions made at the design phase.

About SA TS 101:2015

SA TS 101:2015 covers the design and testing of mechanical and chemical anchors and cast-in anchor channels for all permanent and safety critical applications such as structural beams and column connections to concrete, balustrading or heavy mechanical and electrical services.

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ADVERTORIAL

Big River introduces Tasmanian Oak to its prefinished Australian hardwood engineered flooring range

Timber is known for its warmth, unique character and stunning beauty and is an ideal choice when it comes to flooring options. Important factors such as lifestyle, furnishings, wear, cost and appearance all need to be considered when choosing the type of timber most suitable. Offering character and individual richness, Big River has just introduced Tasmanian Oak into its prefinished Australian hardwood engineered flooring range, providing additional flooring options for residential and commercial applications.

Ranging in tone from pale straw through to a richer mid brown, Tasmania Oak is a popular Australian species and is the preferred hardwood for a full range of applications including flooring. Big River worked with its Australian logging resources to source and provide expertise in working with this new species.

Tasmanian Oak is an addition to Big River's New Generation flooring range and includes a blonde hardwood alongside the five existing timber species; Blackbutt, Spotted Gum, Sydney Blue Gum, Brushbox, and Australian Chestnut.

Big River has established a reputation for producing 'Australia's most stable floor,' that has a thick top layer of Australian hardwood and an engineered hardwood plywood core. This hardwood core means that optimum stability is guaranteed between the floorboards with reduced risk of bending and cupping.

Dean Henderson, General Manager Sales & Marketing Big River Group, believes the new product addition will be supported and recognised as an attractive solution for builders, architects and homeowners. "As long standing timber experts, Big River products are known in the marketplace for quality, strength and ecological values.

This Hardwood plywood gives strength and dimensional stability requiring no acclimatisation, prior to installation which many other brands require," he said. "Australia is well known for producing some of the most attractive timbers in the world and we are pleased to be able to offer a timber flooring product which is easy to install, easy to maintain with all the benefits that come with using a real Australian timber."

This new unique hardwood has a 4mm face veneer that can be re-sanded if required years after installation, each board is 15mm thick and a prestigious 133mm wide, and are 2200mm in length, being the longest boards available in the Australian market. The new generation Tasmanian Oak flooring has a water-based matte coating, offering durability, less maintenance, as well as ease of installation requiring no buffing and can be walked on straight after installation.

Big River Engineered Australian Hardwood Flooring allows for fast, simple and economical installation through its simple tongue and groove connecting system. The boards can be installed on virtually any flat surface including concrete, tiles and existing timber floors.

Big River's pre-finished engineered flooring comes with a lifetime warranty against warping, buckling or bond failure and a 20 year limited warranty for the finish against wear-through under normal residential usage.

Big River Tasmanian Oak prefinished Australian hardwood engineered flooring is available through Harvey Norman Flooring stores and Big River Group flooring resellers.

To download a brochure or for more information on Big River's engineered and broader range of flooring please visit www.bigrivergroup.com.au



About Big River Group

Big River Group manufactures and distributes timber and steel formwork products, timber flooring, structural plywood and related timber products and distributes a broad range of other building products, primarily to the commercial and residential, non-residential and infrastructure construction market segments.

The Company has a network of 10 sales and distribution centres across Australia and sources its products from both its own manufacturing facilities and also many Australian and international manufacturers of building products.

The Company owns and operates manufacturing facilities at Grafton and Wagga Wagga in NSW.

For more information on Big River or to request high-res images or products to shoot, please contact

Sara Huegill from Niche Marketing Group sara@nichegroup.com.au or (02) 8585 4318



1. Australian Chestnut 2. Blackbutt 3. Sydney Blue Gum 4. Spotted Gum 5. Brushbox 6. Tasmanian Oak

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ADVERTORIAL

Camden Council's Administration Centre

We are delighted to share that EnduroShield continues to be specified on new and exciting international projects. The EnduroShield Protective Glass Treatment and Restoration System are increasingly being used by many glass installers from around the world.

Camden Council's Administration Centre, Sydney Australia

Construction of a new centralised administration centre for Camden Council is currently underway and includes council chambers, accommodation for staff, an open plan customer service centre, multipurpose rooms for meetings and events, a central atrium and public amenities over 6200sqm (66,712sqft) of floor space.

Seven tenders for the construction of the building were received with ADCO Constructions chosen as they provided the

most competitive tender in terms of best value to Camden Council. EnduroShield is proud to be included in such a significant project.

The \$35 million build commenced in May 2015 and is due to reach completion in July 2016. The EnduroShield team has already started application to over 2000sqm (21,520sqft) of glass, including facade and skylight panels. EnduroShield was specified to protect the glass

and make cleaning and maintenance easier.

Camden Council Mayor Lara Symkowiak said she was excited to see the construction of the building. "This is the biggest capital works project that Council has ever undertaken," she said.

EnduroShield applicators applied the EnduroShield Protective Treatment onto a glass skylight, which in itself was over 100sqm (1076sqft).

About Enduroshield

EnduroShield offers a professional and cost effective glass restoration and protection service for both internal and external glass. EnduroShield is the smart choice for glass restoration and protection, using state-of-the-art technology, supported by superior knowledge and experience.

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Growth In Building Approvals Lead The Nation

Victoria was the only state to record an increase in building activity in May, driven by a strong rise in residential building approvals, according to the latest Australian Bureau of Statistics (ABS) figures.

The ABS building approval figures for May 2016, released today, showed a 5.8 per cent rise in the value of total building approvals for the month.

The value of residential approvals in May increased by 12.1 per cent to \$2.57 billion, up 6.3 per cent over the year.

Over that twelve month period to May 2016, Victoria had the second highest value of total building approvals and second highest number of dwelling unit approvals – contributing 29 per cent of Australia's total approvals.

This is particularly impressive given that Victoria has just over 25 per cent of the nation's population.

The strong growth is consistent with the sharp turnaround experienced by the Victorian economy since the Andrews Labor Government came to office.

When the Labor Government came to office,

Victoria had an unemployment rate of 6.6 per cent. It now sits at 5.8 per cent, with more than 120,000 new jobs created since November 2014, and full-time employment up by 85,200 during the same period.

Quotes attributable to Acting Treasurer Gavin Jennings

"Victoria's building and construction industry remains strong, and continues to create jobs and help drive our state's economy."

"The reason we are leading the nation is because the Andrews Labor Government is focusing on strong financial management and making the right investments to support the economy and job creation."

Quotes attributable to Acting Minister for Planning Wade Noonan

"Victoria's residential building approvals remain among the strongest in the country."

"We're seeing a good mix of apartment sizes and detached housing which maintains liveability and housing affordability."

Media Contact: Elliot Giakalis 0438 332 378 |
elliot.giakalis@minstaff.vic.gov.au



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ENVIRONMENTALLY SUSTAINABLE DURABLE POLISHED CONCRETE FLOORS

Queensland's construction industry to feel the effects of an ageing population

Construction Skills Queensland (CSQ) today called for greater collaboration to combat the significant challenges the building and construction industry will face over the next two decades as a result of Queensland's ageing population.

Speaking at the Ageing Well Forum in Brisbane, CSQ Director of Evidence and Data Robert Sobyra outlined the potential impact on the industry arising from an ageing workforce.

"Research recently undertaken by CSQ revealed that the state's growing but ageing population will need an industry-led response to ensure the construction industry is not left vulnerable," Robert said.

"As the population grows so too does the demand for housing and infrastructure. However, an ageing population means less people of working age to draw a workforce from.

Mr Sobyra cautioned that an ageing population also means a less physically capable workforce.

"Construction is a demanding job and it is a simple reality that older workers are not as physically capable as they are when they were in their 20's or 30's," Robert said.

"In the past, younger tradies would carry the burden of some of the more physically demanding tasks,

but with less young people in the industry there will be fewer opportunities for older workers to receive a reprieve from the more physically gruelling tasks."

According to CSQ, the answer lies in technology, but the industry will need to move with the times.

"We are a conservative industry and we don't change easily or often," Robert said.

"Aside from the introduction of the nail gun and lithium-ion batteries there have been very few changes to the construction industry over the past two decades."

"In the coming years our challenge will be to build smarter and the only way we will be able to achieve that is by the whole industry embracing technology and productivity-enhancing innovations in building processes."

CSQ is taking a sustainable long term approach to training that matches demand, is resilient, flexible and provides industry with confidence and certainty, now and into the future.

The organisation, together with the CSIRO is working on The Farsight Project which aims to predict how the role of construction workers will evolve over the next 20 years.

"Farsight will provide a vital roadmap as the industry enters a period of major transition where jobs and workers in the industry of the future won't look very much like they do today," Robert said.

Robert Sobyra, Director of Evidence and Data at CSQ was one of the presenters at today's Ageing Well Forum in Brisbane.

The forum was presented by Workplace Health and Safety Queensland in collaboration with the Centre for Workplace Leadership and will provide research and insight into the challenges and opportunities of managing an ageing workforce.

For more information about careers in construction, contact CSQ on 1800 798 488 or visit www.csq.org.au.

For further information and media enquiries

Luke Burrows, PPR, 07 3309 4714, 0410 620 202, lburrows@ppr.com.au

About Construction Skills Queensland (CSQ)

Construction Skills Queensland (CSQ) is an independent industry-funded body supporting employers, workers, apprentices and career seekers in the building and construction industry. Funded by an industry training levy, we work closely with students, schools, employers, apprentices, industry partners, training providers and individuals across Queensland to build capability at every level of business. As a recognised industry leader, our mission is to promote the building and construction industry as a career of first choice, encourage investment in skills and training and increase the number of skilled workers in the industry.

ADVERTORIAL

E45 elements with Teca glass door

Falzé di Piave (Italy). June, 6, 2016 - A monolith to admire as a work of art. E45 storage elements combine perfectly with the smart Teca glass door.

E45 elements feature a 45° joint between the structure and door, which when closed reveal nothing, making a single elegant monolith.

The Teca door has a slim profile that completely hides the two hinges. The frame is in full aluminium and the 4mm thick smoked glass is toughened. The frame is almost inconspicuous. Teca matches perfectly in both living and cooking areas, where it creates continuity without interrupting its essential lines and

refinement.

Other important news relates to materials: eucalypto wood for E45 elements and the new Arte and Filò kitchen furniture, another thread joining living room and cooking areas.

www.gruppoeuromobil.com



Are your showers ticking time bombs?

Despite builders best efforts, leaking showers are consistently listed in the BSA's top ten defects.

Sadly, sometimes this is due to sub-standard workmanship, but most of the time it is the design of the shower itself which is creating the potential for disaster.

Most contractors are at a complete loss as to why, but detailed testing has shown how, by the action of expansion and contraction, water is "pumped" along glue cavities to escape the shower enclosure, no matter how well it is water-proofed.

The best way to prevent the problem is to seal the screen directly to the membrane, and NOT to the tiles.

Waterstop Streamline provides:

- Positive connection between screen and membrane
- Maximises floor area
- Provides a template for following trades
- Ensures correct fall to waste
- Complies with and exceeds AS3740
- Modern, cost effective, one-piece design
- 20 different shapes and sizes
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Remove the doubt. Fit Waterstop Streamline ... and forget about leaking showers.

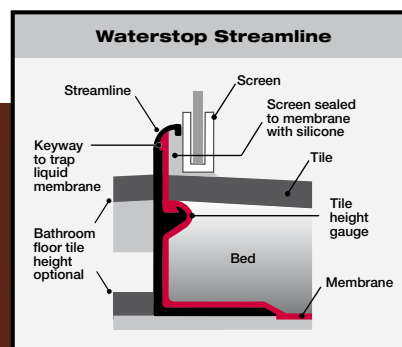
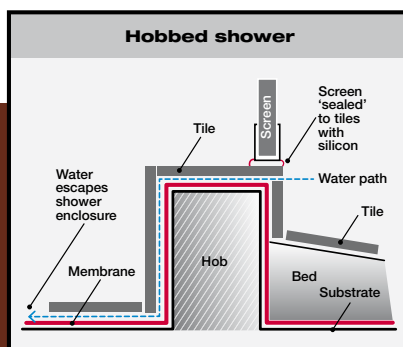
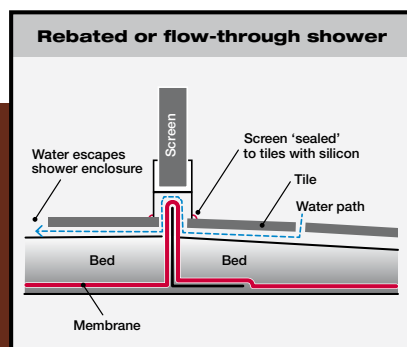


My business has expanded rapidly since we started using the Waterstop Streamline hob and I now have tilers recommending the Waterstop Streamline system - and me - to other builders. Everyone that uses it loves it.

Mr Fred Meddings, Managing Director
Watertight Australia (Water-proofers)

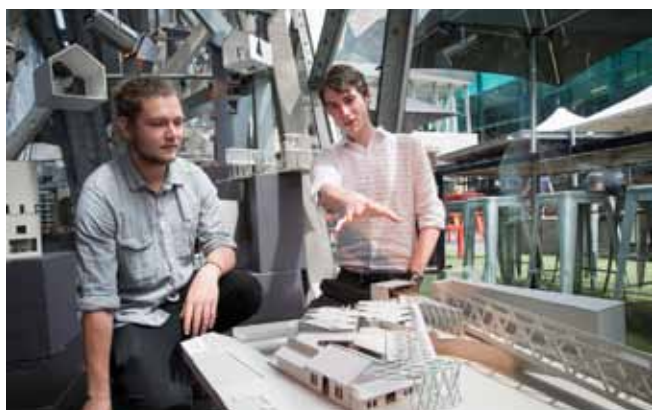
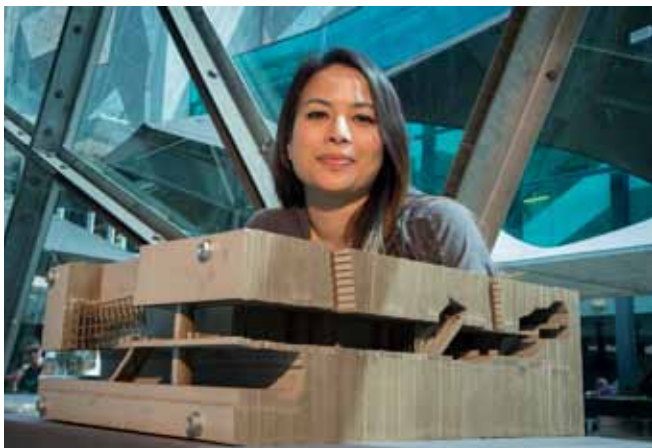
By using Waterstop Streamline I know the shower will be perfect every time. It has to be, because this product is designed to dictate placement of all of the other components to make up a complete shower. It's virtually impossible to stuff it up.

Mr Glen Whitehead, Managing Director
BJM Developments



For more information, visit www.waterstopstreamline.com.au
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AB PAPER SPACE

Deakin's School of Architecture and Built Environment's annual PaperSpace student exhibition showcases outstanding work from architecture, construction management, landscape and planning undergraduate and master degree students.

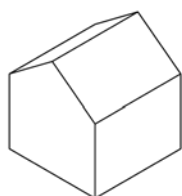
The ideas at the 2015 exhibition were bigger than space and more durable than paper. The works ranged from socio-political issues surrounding refugees and the homeless to the challenge of intervening into Michelangelo's greatest architectural space, with research into virtual museums.

The 2015 exhibition was held in the expansive atrium of Federation Square with the opening night attracting over 500 guests, notably Peter Maddison – the host of Grand Designs Australia.

The exhibition was formally opened by Sean Godsell, one of Australia's most internationally renowned architects, using a football, talent and teamwork analogy to place the students and their work in the context of architecture and constructions cultural and civic roles.

The Melbourne exhibition was open to the public for five days with an estimated 10,000 people passing through the exhibition during Melbourne Cup week 2015, including numerous community and industry representatives, students, staff, families and friends.

We are pleased to invite AIB members and friends to the opening night of PaperSpace 2016 on Wednesday 2 November.



PAPERSPACE 2016
1 to 4 November 2016

The Atrium Federation Square, Melbourne

Opening Night: Wednesday 2 November (invitation only)

email ab-hos-assistant@deakin.edu.au to receive your invitation

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Congratulations to our members who received honours on the Queen's Birthday 2016

John Thomas AM FAIB

Mr John David THOMAS, For significant service to the building and construction industry in South Australia and to professional organisations.

Service includes:

Chairman, National Building Professionals Register, 1996-2012

Director, John Thomas and Associates, current.

President, Australian Institute of Building, 1997-1999 and Vice-President (Financial), 1996-1997 and Treasurer, 1994-1996 and Member, since 1968.

President, South Australian Chapter, Australian Institute of Building, 1991-1993 and Treasurer, current.

Involved in a range of projects including: Represented the South Australian Chapter at the Australian Institute of Building's National Council, 1991-2013.

Establishment of Australian Institute of Building chapters in Singapore and Hong Kong.

Establishment of the Professional Excellence in Building Awards in South Australia, 1992.

Appointment to adjudication panels in Queensland, ACT, NSW and SA, Adjudicate Today, current.

Advisory committee member, to assist in policy formation on 'pyramid' subcontracting practices, Office of Consumer and Business Affairs, Government of South Australia, 1995.

Chairman, Advanced Building Studies Industry Reference Group, South Australian Technical And Further Education, 1995.

Awards and recognition includes:

Recipient, Chapter Honour Award, Australian Institute of Building, 2006 and Fellow.

Graham Bruce Teede OAM FAIB

Mr Graham Bruce TEEDE, For service to the building and construction industry.

Service includes:

Australian Institute of Building (AIB):

National Vice-President, since 2014. President, Western Australian Chapter, 2013-2014 and 2009-2011.

National Councillor, ongoing.

Member, Governance Committee, 2012-2013.

Chair, Membership Services, current.

Chair, National Young Builders Alliance, current.

Fellow, 2010. Member, since 2009.

Associate Member, 2004.

Tutor and Sessional Lecturer, Department of Construction Management, School of Built Environment, Curtin University, 2014-2015.

Ministerial Appointee, Western Australian Building Services Board, current.

Registered Building Practitioner and Chartered Building Professional.

Professional service includes:

Building Site Manager, FOCUS Building Company, since 2015.

Owner, Graham Teede Building and Construction Services, since 2014.

Site Manager, Pyramid Constructions WA, 2013.

Site Manager and Manager, Northerly Group, South West Office, 2009-2012.

Senior Site Manager, Arcon Design and Construction, 2005-2009.

Site Manager and Construction Manager, Devaugh Pty Ltd Commercial Builders and Civil Engineering, 1994-2005. Building Site Manager, Western Mining Corporation, Mining, Building and Civil Engineering, 1981-1993.

Dr William Mansell AM FAIB DEng

Dr William Thomas MANSELL, For significant service to the building industry through technological innovation in design and construction, and to professional associations.

Service includes:

Australian Institute of Building:

President, New South Wales and Australian Capital Territory Chapter, 2009-2010.

National Councillor, 2008, 2009, 2015 and 2016.

Juror, Professional Excellence in Building Awards, 2014-2016.

Fellow, since 2007. Member, since 1976.

Companion, Engineers Australia, since 2007.

Member, Master Builders Association, since 1977.

Member, International Relations Committee, National Roofing Contractors Association (USA), current.

Professional Member, Roof Consultants Institute of the United States of America, since 1989.

Affiliate Member, Australian Acoustical Society, since 1971.

Chadwick Technology Group (design, engineering and manufacturing of composite roof systems):

Managing Director, since 1988.

Managing Director, Chadwick Group Operating Companies, 1980-1987.

Director, Operating Companies, 1967-1979.

General Manager, 1966-1967.

Manager, 1964-1966.

Ambassador, Technical and Further Education New South Wales - Sydney Institute, current.

Awards and recognition includes:

Recipient, Australian Institute of Building Medal, 2013;

Honorary Doctor of Engineering, University of Sydney, 2006.

AIB NEW MEMBERS Section 1

On behalf of the existing membership, the Chapter Committees and the National Council we extend a very warm welcome to all these new additions to the AIB family.

AIB NEW MEMBERS

1 February 2016 – 22 July 2016

Andreas Radszuweit	WA
Daniel Bird	WA
Derek Owers	WA
Michael O'Rourke	WA
Nicholas Colussi	VIC
George Chorianopoulos	VIC
Hoi Por Cheung	VIC
Dennis Moschoyiannis	VIC
Lucas Graley	VIC
Christopher Thomas	VIC
David Moyle	VIC
Kerstan Nolan	VIC
Micheal Meuwissen	VIC
Russell Fryer	QLD
Martin Monro	QLD
Dino Fuccenecco	NSW
Samad Mohammad Ebrahim Zadeh Sepusgozar	NSW
Kwok Leung Ng	HK
Wai Tak Choi	HK
Jun Shi	HK
Hon Man Lee	HK
Ka Fai Wong	HK
Pak Man Chan	HK
Ling Fung Cheng	HK
Ho Wai Chou	HK
Kwok Keung Keith Wong	HK
Wai Lok Kwok	HK
Tsui Leung Wai	HK
Wai Chung Amelia Cheng	HK
Hao Zhang	HK
Chit Chun Teddy Kwok	HK
Tak Hung Tony Fok	HK
Ho Chung Leung	HK
Wingshing Tam	HK
Chun Lung Chong	HK
Aoran Yuan	HK
Hin Man Tsang	HK
Siu Keung Cheng	HK
Kit Shan Wu	HK
Wai Ming Yip	HK
Fang Hua	HK

Head office contact details

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CEO

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South Australia & NT	sabuild@aib.org.au
Tasmania	tasbuild@aib.org.au
Western Australia	wabuild@aib.org.au
Hong Kong SAR	hong.kong@aib.org.au

AIB National Council

Paul Heather FAIB	National President
Ronald Webber FAIB	National Senior Vice President
Graham Teede OAM FAIB	National Vice President
John Gaskin AM FAIB	National Vice President
Norman Faifer FAIB	Immediate Past National President
To be advised	Council Representative - Queensland
William Mansell FAIB	Council Representative - New South Wales
Peter Henden FAIB	Council Representative - Australian Capital Territory
David Burnell FAIB	Council Representative - Victoria
Peter Overton FAIB	Council Representative - Tasmania
Andrew Marshall FAIB	Council Representative - South Australia and Northern Territory
Jason Thomson MAIB	Council Representative - Western Australia
Lap Wa Lam FAIB	Council Representative - Hong Kong
Robin Fardoullys LFAIB	Council Representative - Overseas

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At Dulux® AcraTex® we've been designing specialist finishing systems for over 3 decades protecting some of Australia's landmark architecture and infrastructure projects.

External Insulating and Finishing Systems (EIFS), long established in Europe and America are now being recognised in Australia for their benefits.

What Experience tells us...

1. Expanded Polystyrene (EPS) requires specialist "Base Coats" to provide long term adhesion and durability.

Beware of suppliers/installers using Cement Renders

or even their labelled "Acrylic Renders". Expanded foam requires a high polymer base coat for adhesion - much higher than most "Acrylic Renders"

2. Cavity Drainage is critical in ensuring stability of the facade.

This is Best Practice Design for traditional construction and is equally applicable in any Lightweight Cladding System.

3. Integration of Design, Components and Installation is required to ensure "as built" meets design specification. Lightweight Cladding Systems are able to be installed by a broader installer base (vs traditional masonry). In the BCA their use is classified as an Alternate Solution requiring validation. CodeMark™ certification is an acceptable approach, however it is important that Certification cover the full aspects of the relevant BCA requirements and that Installation is controlled to ensure full compliance.

4. Rigid, cement based renders and paint systems are unsuitable to



maintain a weather-proofing envelope. Lightweight Cladding Systems (EIFS or FC) require Flexible Acrylic Texture and Elastomeric Topcoats to accommodate normal expansion and contraction.

Over recent years the use of Lightweight Cladding Systems, as Alternate Solutions in the BCA, has grown but proper system design and installation has not always followed.

The BCA requires appropriate design and installation controls to qualify any Alternate Solution and ultimate success requires a total systems approach integrating Design, Componentry & Installation.

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installation. Exsulite by Dulux AcraTex offers a Single Supply Source - and critically, Installation of the CodeMark Certified System by registered and Trained Exsulite Installers.

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- Construction drawings in CAD and Revit file formats
- **Exsulite** news and latest document updates emailed to your inbox

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*Exsulite and Exsulite-Kooltherm are CodeMark certified as fully integrated Building Systems in compliance with the Building Code of Australia (Volume Two, Class 1 and 10 residential buildings). Exsulite-Kooltherm is also certified for Multi-Residential External Walls to NCC (Volume One, Class 2 to 9 buildings).
†Compliance to standard is relative to the Specification & Installation of the Full System as detailed in the relevant System Certification.

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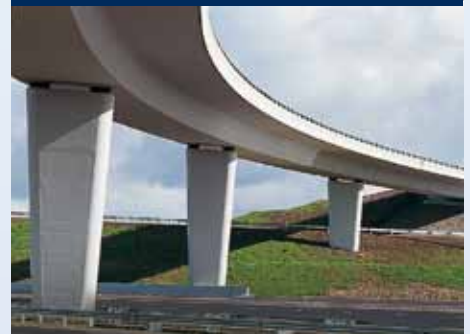
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