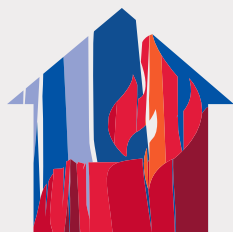


The Bushfire Building Conference + Expo 2016

Day One Conference



Presented by:



Major Partner:



NSW RURAL FIRE SERVICE

Venue:



Welcome



Cr Mark Greenhill
OAM
Blue Mountains Mayor

I am delighted to welcome you to the 2016 Bushfire Building Conference in the Blue Mountains.

This event which started as a bushfire recovery initiative following the 2013 Blue Mountains bushfires has become an important national industry event which is contributing to the development of Australia’s expertise in building and designing for bushfire prone areas.

The 2016 conference program covers new ground including the findings from the 2015 Wye River fire near the Great Ocean Road and the latest on regulations and building innovation from around the country. World class building designs will be showcased and the leaders in their fields will be on hand to lead and take part in robust discussions.

With delegates travelling from across Australia to attend this conference, I commend Blue Mountains Economic Enterprise for their foresight in delivering this much needed industry forum. The Blue Mountains, with a plethora of expertise and experience in the field of design and building for bushfire prone areas is an ideal home for this event and for this exciting industry development work.

I have no doubt you will gain much from the Conference Program and the networking opportunities. For those of you visiting the Blue Mountains for this conference, I hope you enjoy your stay in our beautiful City within a World Heritage Area.

Kind regards,
Cr Mark Greenhill OAM
Blue Mountains Mayor

BMEE acknowledges that the City of Blue Mountains is located on the traditional lands of the Darug and Gundungurra Nations.



Donald Luscombe
AFISM
Chairman, BMEE

As Chairman of Blue Mountains Economic Enterprise (BMEE), it brings me great pleasure to welcome you to the 2016 Bushfire Conference.

In its second year, this event is gaining momentum and has become recognised as the only national forum that brings together builders, architects, designers, planners, researchers, regulators and insurers to explore issues around building in a bushfire-prone area.

The BMEE team have worked hard to bring the leading practitioners and regulators in Australia together and this has been possible thanks to the team of industry advisors who have donated their time and expertise to help develop the conference program. Particular thanks go to Ian Weir, Justin Leonard, Joe Mercieca, Paul Weston and Corey Shackleton.

This event would not be possible without the support of the NSW Rural Fire Service. Their sponsorship is testament to the RFS’s commitment to working collegially with industry to facilitate the best outcomes when it comes to building for bushfire. We are also grateful to this year’s Gold Sponsors, Sonnenschutz and Exfire.

The success of this event is ultimately due to the enormous support and engagement by builders, architects, planners, designers, and the other industry delegates who attend from across Australia. The feedback from the inaugural event and during the planning for 2016 indicates a strong need for a national forum such as this. Australia has a wealth of expertise in the area of planning, design and building for bushfire prone areas and the industry is ready to explore ways of increasing that competitiveness. BMEE is proud to coordinate the event that allows this industry development work to occur.

I trust you will enjoy the Conference and I encourage you to return to the Blue Mountains Theatre and Community Hub tomorrow, Saturday September 10 for the Bushfire Building Expo and Community Forum.

Kind regards,
Donald Luscombe, AFISM
Chairman Blue Mountains Economic Enterprise

Conference Program

Friday 9 September 8.30am - 5.00pm

Time	Topic	Speaker
Good, Better, Best		
8:30	Welcome	Donald Luscombe AFSM – Blue Mountains Economic Enterprise
8:35	Official opening	Mayor Mark Greenhill OAM – Blue Mountains City Council
8:45	Landscape and bushfire	Commissioner Shane Fitzsimmons AFSM – NSW Rural Fire Service

Region in Focus		
9:00	Wye River/Separation Creek Fire conditions on the day	Matthew Allen – Victorian Country Fire Authority
9:10	Wye River/Separation Creek Post-bushfire building survey findings	Justin Leonard – CSIRO
9:35	Questions	
9:45	Innovation spotlight	Bryce Hedditch – Sonnenschutz
10:00	Morning Tea	

Regulations and compliance		
10:30	The roles of the National Construction Code (NCC) and the Australian Building Codes Board (ABCB)	Brian Ashe – The Australian Building Codes Board (ABCB)
10:45	The role the FP20 Standards Committee plays in building for bushfire	Richard Brooks FP20 Standards Australia Committee
11:00	The development of the NASH standard	Michael Kelly – National Association of Steelframed Housing (NASH)
11:15	Planning for Bushfire Protection	Catherine Ryland – NSW Rural Fire Service
11:30	Questions	
11:45	PANEL DISCUSSION First Principles - Going beyond compliance	Dr. Ian Weir – Queensland University of Technology Panel of industry experts
12:15	Questions	
12:30	Lunch	
1:30	Innovation spotlight	Cameron Watkins – Exfire
1:45	Building in bushfire regions: An alternative policy framework	Kate Cotter – Bushfire Building Council of Australia

Best Practice Showcase		
2:00	Integrated bushfire building and design - The Architects and Builders perspective. A showcase of unique homes by different architects and builders with a range of budgets, sizes and designs.	Jamie Brennan – six B Designs Joe Mercieca – Blue Eco Homes Sam Vivers – Viva Living Homes Mark Newman – Newmark Constructions Dr. Ian Weir – Queensland University of Technology
3:15	PANEL DISCUSSION	
3:45	Afternoon Tea	
4:15	OPEN FORUM PANEL Q/A Panel of industry experts	
4:45	Closing address	Jacqueline Brinkman – Blue Mountains Economic Enterprise

Acknowledgements

Presented by:



Major Partner:



Gold Sponsor:



Gold Sponsor:



Trade Sponsor:



Event Supporters:



Blue Mountains City Council proudly supports Blue Mountains Economic Enterprise

Speakers In Order of Appearance



Shane Fitzsimmons AFSM

Shane Fitzsimmons has over 30 years experience with the NSW Rural Fire Service (RFS) serving as both a volunteer and salaried officer. In 1998 he was appointed an Assistant Commissioner with the RFS and has held portfolio responsibilities for Operations, Strategic Development and Regional Management. In 2004 he was appointed the inaugural Australasian Fire Authorities Council (AFAC) Visiting Fellow to the Australian Institute of Police Management (AIPM) for a period of 12 months. In September 2007 he was appointed Commissioner of the NSW Rural Fire Service (NSWRFS) and is also the Chair of the NSW RFS Bushfire Co-ordinating Committee and the Rural Fire Service Advisory Committee. He was appointed a Director of the National Aerial Firefighting Centre (NAFC) in March 2008 and was the Chair of the NAFC Board from 2009 to 2013. He is also a member of the NSW State Emergency Management Committee and the NSW State Rescue Board and was Chairman from 2008 to November 2015. He was a Director on the Bushfire Co-operative Research Centre from 2009 to 2014. In July 2012, he was appointed a Board Member of the NSW Government Telecommunications Authority.

Shane was awarded the National Medal in 1999 and the Australian Fire Service Medal (AFSM) in 2001.



Matthew Allen

Matthew Allen is a member of the Building Construction Advisory Panel for Emergency Management Victoria. He has been an operational member within CFA for the past 24 years. Matthew has attended a large number of major bushfires within Victoria and other states. Working in a number of Incident Control Centres across the state, Matthew has held Level 3 positions including, Public information Officer, Media Officer, Community Officer and more recently was the Intelligence Officer for the Wye River Fire, working at the Regional Level. Matthew has worked within the fire safety section of CFA for the past 11 years. In that time he has gained knowledge and experience in dealing with highly complex bushfire issues both at the strategic planning level and residential building level with houses built in the Bushfire Management Overlay. Matthew provides expert advice and site analysis for a large number of areas regarding the site's ability to achieve the status of a NSP/PLR. He also project managed this workload within the BSW region as Team Leader. Matthew is a Delegated Officer of the Chief Fire Officer for CFA. He provides Structural Fire Safety, Land Use Planning and Dangerous Goods services within the country area of Victoria.



Justin Leonard

Justin Leonard is the Research Leader in Bushfire Urban Design, CSIRO. He is a recognised leader in bushfire urban design research in Australia, focusing on how bushfire risk to life and infrastructure can be managed. His research team combines learnings from bushfire exposure experiments with post bushfire survey investigations and computer modelling of bushfire interaction with buildings. Recent activities include the development and delivery of an accreditations course on bushfire risk assessment with Melbourne University, providing technical support for the Victorian Community Bushfire Refuge Program, developing the bushfire risk mapping framework for Queensland and assisting various individuals and industry groups develop novel building design solutions and related standards.

Speakers



Bryce Hedditch

Bryce has a background crossed with practical and professional experience, starting with an electrical trade, but quickly moving into management roles with multinationals. Many years were spent in the packaging area, with the highlight managing the Life Cycle impacts of the packaging of 700 products in an FMCG manufacturer. This work involved integrating in a working team with industry competitors and RMIT University, to develop measurement standards and tools. This led to a period where he ran his own consulting business, developing sustainable packaging solutions for many small and large businesses. During this time Bryce also consulted to RMIT, further developing tools and systems, and delivering training and solutions internationally.

Bryce had family members involved in Black Saturday at Kinglake. On hearing that the subsequent testing of products to the new standard (AS3959-2009) for BAL FZ was proving a major headache for the window industry, Bryce commenced development of the first BAL FZ shutter. With a failed test in November 2009, then redesign, the product passed the gruelling AS1530.8.2 test in February 2010. This testing led to the product we see in the market today. When you have around 70kW/m2 at the end of the test, you can be comforted with the fact you have less than 6kW/m2 inside the shutter, and 3kW/m2 inside the window.



Brian Ashe

Brian Ashe holds a PhD in Science, is a chartered engineer and has over 20 years' experience in consultancy, academia and the public service. This experience has been gained internationally within the building, industrial, transportation and public sectors. Brian is currently Director with the Australian Building Codes Board focusing on the increased use and quantification of performance.



Richard Brooks

Richard Brooks is currently the Managing Director of Tyne Solutions Pty Ltd (a provider of business and association management services). He is also Chair - Standards Australia Board and Chair - Standards Australia Technical Committee FP-020 Construction in Bushfire Prone Areas.

During the period 1991 – 2005 he was Executive Director of the Timber Merchants Association (Victoria) and whilst in that position he was also the executive officer of several other associations and business entities.

Prior to 1991 he gained 25 years' experience as the managing director of a timber and building supplies business and an associated building company during which time he was also President of the Timber Merchants Association and a national timber and hardware marketing group.

Richard has diverse experience in industry and commerce in the timber and building industries followed by over 20 years as an association executive representing the interests of a diverse range of businesses. He has been involved in the development of standards both at a national and industry level and has a strong belief in the importance of standards and their accessibility to those that use them.



Mike Kelly

Mike Kelly is a mechanical engineer with an interest in the practical, effective and efficient application of cold formed steel in residential and similar construction. He has worked with the National Association of Steel-Framed Housing (NASH) since 2000 and is a member of the NASH Standards Committee. He has directed research on termite resistance and bushfire resistant construction and authored many technical notes and articles on cold formed steel construction as well as preparing numerous submissions on public policy matters affecting the construction industry. Recent conference paper topics include durability design, bushfire resistance and connection capacity.

Mike has prepared guidance publications for the Australian Steel Institute on steel shed design, wind actions on light steel buildings and overflow design of residential eaves gutters. He has also prepared recommendations on eaves gutter overflow solutions for the Australian Building Codes Board.



Catherine Ryland

Catherine is a Town Planner with over 15 years of experience in development planning both in the UK and Australia. As a town planning consultant, Catherine has worked on a range of high profile planning projects including managing the approval pathways for the temporary venues at the London Olympic Games in 2012. Catherine also managed the planning and legal team in the early development planning process for a third runway and sixth terminal at London Heathrow Airport.

On arriving in NSW, Catherine worked initially as a planning consultant, gaining valuable experience working on major development projects including development applications, re-zoning proposals and strategic level development. Catherine then joined the NSW Rural Fire Service as a Development Assessment and Planning Officer, progressing to become Team Leader of the Development Assessment and Planning Team in 2014. In 2015, Catherine moved to the NSW RFS Development Planning and Policy team and is currently responsible for developing and updating the legislative planning framework for development in bush fire prone areas. This includes the review of the NSW RFS document Planning for Bush Fire Protection which sets the legislative standards for development on bush fire prone land in NSW.



Dr Ian Weir

Dr Ian Weir is a consulting research architect at Queensland University of Technology specialising in bushfire responsive architecture, and has a number of built and under-construction projects in high to extreme bushfire risk areas. He holds a PhD in Architecture and Landscape Architecture, and lectures in landscape architecture at QUT. He is an expert advisor with the Bushfire Building Council of Australia and is also a Fellow of the Centre for Emergency and Disaster Management (QUT).

In 2012 the Australian Institute of Architects selected Dr Weir to represent innovation in architectural practice at the Venice Architecture Biennale. Dr Weir has advised and designed homes for Black Saturday survivors, and assisted Victorian MP Kelvin Thomson in his submission to the Royal Commission into that natural disaster.

Speakers



Cameron Watkins

Cameron Watkins is the Technical Products Manager for EXFIRE Pty Ltd and CAP Coatings Australia and has been involved in the protective coatings market for the past 8 years. He has been involved with the development, testing and bringing to market of a number of market leading intumescent coating technologies. EXFIRE recently released the FIRESHELL F1E. This is a breakthrough exterior intumescent coating technology for protecting exterior timbers and other combustible substrates from fire. The FIRESHELL F1E is being utilised for compliance with bushfire resisting timber requirements under AS3959 as well as for a range of asset protection and risk reduction solutions across Australia. CAP Coatings is the market leader in interior intumescent coatings for achieving fire separation on ceilings and walls for interior building substrates under AS1530.4 requirements.



Kate Cotter

Kate Cotter is the founder and CEO of the Bushfire Building Council of Australia (BBCA), an independent, national, not-for-profit organisation. The BBKA's mission is to increase the bushfire resilience of communities through innovative building solutions. Kate founded the BBKA to bring experts, industry and community together to improve the affordability and adoption of bushfire design and construction technologies and to provide a platform to advocate for evidence based planning and building regulation and increased investment in risk mitigation measures.

Since 2011, Kate has volunteered her time as a bushfire community advocate, bringing community bushfire building issues to the forefront of politics, media and industry. She successfully lobbied the Victorian government for changes to planning regulations allowing the use of new technologies and greater flexibility to address bushfire risk.



Jamie Brennan

Jamie Brennan has been a part of a sustainable architecture practice, six b design, for 17 years, starting in Sydney for the first two years and located in Katoomba, Blue Mountains for the past 15 years.

six b design has been simulating thermal comfort modelling for Sydney's largest architectural practices as well as consulting with the NSW Department of Planning on its sustainability measures through the BASIX on-line tool.

Since locating to the Blue Mountains six b design has continued to develop its sustainable architecture practice in regional and rural areas, as well as designing in bushfire prone areas. six b designs focus on sustainability also bringing innovative solutions to both bushfire and sustainability.



Joe Mercieca

Joe Mercieca is the owner and director of Blue Eco Homes, based in Winmalee. He has more than 29 years' experience in commercial and residential construction, working with Paynter Dixon Constructions as site manager for multi-million dollar projects. Establishing Joe Mercieca Constructions in 2003 with the addition of Blue Eco Homes in 2010, Joe has applied his skills to high quality award-winning residential construction in the Blue Mountains, using local materials and trades whenever possible.

Having experienced the devastating consequences of the 2013 fires on his own property, Joe has been active in promoting bushfire building considerations to the community and industry.



Sam Vivers

Sam Vivers educates builders, architects, owner builders and councils from all over Australia and regularly runs workshops at the Australian Rural Education Centre, Milkwood Permaculture, The Sydney Home Show, Australian Technology Association (ATA) and local councils around Australia. He has built over 26 straw bale homes, and has built three of his own straw bale homes, including the one he currently lives in.

Sam's qualifications include:

- Licensed Builder and Supervisor
- Bachelor of Economics (Agriculture)
- Qualified Carpenter
- Master Builder with Master Builders Association Cert IV - Training and Assessing
- Building Thermal and Assessment (Australian energy rating course)
- NSW Rep and Member of Australasian Straw Bale Building Association (Ausbale)
- Member of Earth Building Association of Australia (EBAA)
- 2014 Excellence in Building Awards from the Australian Builders Association for "Environmental management" and "Best House under \$500,000".



Mark Newman

Mark Newman is the founder and managing director of Newmark Constructions, a residential building company delivering architecturally designed, \$1-3M projects, on Sydney's north shore. He is a committee member of MBA Northern Suburbs division, and the winner of multiple MBA awards.

The original base of his experience came from his carpentry apprenticeship working in Sydney's eastern suburbs on residential projects up to \$10M. Following supervisory roles, Mark moved to commercial projects, and later combined his trade experience with university training in construction management.

Mark has developed specialist knowledge in the heavily regulated and vastly misunderstood area of bushfire zone construction. His knowledge assists architects and clients to make educated, cost effective decisions. For the past six years, Newmark has always had at least one bushfire project under construction.

Since founding Newmark, Mark has brought together the expectations and standards expected in the commercial sector and relevantly applied these to the way Newmark undertakes its business. In the last seven years, he has delivered approximately \$8.5M worth of work.

Speakers



Catherine Gorrie

Catherine Gorrie is the owner and Lead Bushfire Consultant at the Sydney based company, Bushfire Consulting Services Pty Ltd. Catherine has a Graduate Diploma in Bushfire Protection from the University of Western Sydney and is a Fire Protection Association Australia BPAD-Level 3 Certified Practitioner, (BPAD20751), which places her in the category of "recognised qualified consultant". Bushfire Consulting Services Pty Ltd provides bushfire reports and certificates for all development types, and is also a Registered Training Organisation (RTO No. 41471), providing bushfire assessment skills seminars to Councils, Building Certifiers and Builders throughout Australia.

Catherine is also a qualified Environmental Health and Building Surveyor with over 16 years of local government experience, including development assessment and building certification.



David Peterson

David Peterson is a specialist consultant in planning and designing developments in bushfire prone areas. He has been consulting in this field for over 13 years and operates his company, Peterson Bushfire, Australia wide. Prior to consulting, David held positions with local government and the NSW Rural Fire Service, providing him with a breadth of experience on bushfire protection and planning matters.

Supported by a Bachelor of Environmental Science (Hons1) and a Graduate Diploma in Design for Bushfire Prone Areas, David is a BPAD Level 3 accredited practitioner under the Fire Protection Association Australia (FPA Australia) accreditation scheme. He also sits on the FPA Australia National Bushfire Safety Technical Advisory Committee No. 20 (TAC 20) and FPA Australia BPAD / NSW Rural Fire Service State Bushfire Working Group.



Corey Shackleton

For the past 14 years Corey Shackleton has been involved in bushfire management, initially as a bushfire consultant and most recently with the NSW Rural Fire Service (NSW RFS). Corey joined the NSW RFS in 2006 and is currently Director, Community Resilience. He is responsible for the management and implementation of the legislative planning framework for developments in bushfire prone areas, environmental approvals, risk and community planning and fire behaviour analysis.

Corey's experience has been gained across a broad spectrum relating to bushfire management including bushland management, land management, firefighting, risk management, building and development in bushfire prone areas and regulation.



Paul Weston

Paul Weston is the Executive Principal, Building and Construction Services at Blue Mountains City Council. Paul is an A1 Accredited Certifier and has worked as a building surveyor for over 35 years. He has experience in development, certification and regulation having worked at a number of city and country councils.

Following the October 2013 bushfires, Paul led a team from Blue Mountains City Council which worked closely with the NSW Rural Fire Service to provide a rebuild advisory service.

Paul is a qualified Health and Building Surveyor holding a Graduate Diploma of Applied Science (Building), from the University of Western Sydney.

Exhibitor List

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TOP 5 ACTIONS FOR THE BUSH FIRE SEASON



For further information contact the NSW RFS district office on 4784 7444 or speak with your local NSW RFS brigade.

- 1

TRIM
overhanging trees and shrubs.
- 2

MOW
your lawn and remove all the cut grass.
- 3

REMOVE
material that can burn around your home
(e.g. door mats, wood piles, mulch, leaves, paint tins, outdoor furniture).
- 4

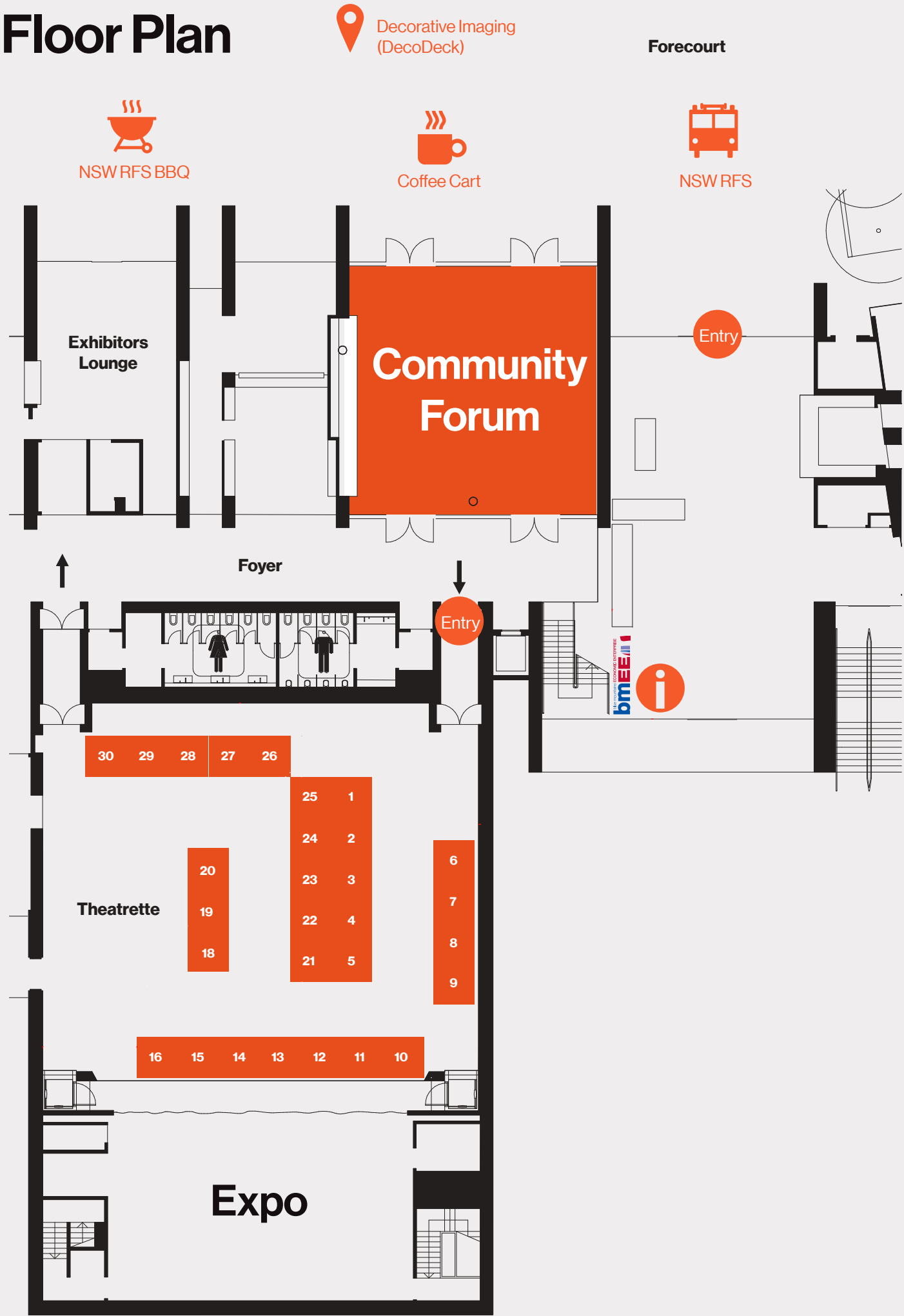
CLEAR
and remove all the debris and leaves from the gutters surrounding your home.
- 5

PREPARE
a hose or hoses that can stretch all around the house.

www.rfs.nsw.gov.au

PREPARE. ACT. SURVIVE.

Floor Plan



Exhibitors



Abel Ecology

abelecology.com.au

Abel Ecology is an ecological consultancy based in Springwood that specialises in bushfire attack on buildings. Our scientists have a range of qualifications and expertise that provides an integrated approach to your development application (DA) process, which covers:

- Bushfire assessment (BAL) Due diligence - assessing the opportunities and constraints of a site
- Vegetation management plans
- Arborist and tree reports
- Flora and fauna impact assessments
- Aboriginal archaeology and heritage

Using a coordinated approach, we will save you time and money, and eliminate the need to worry about inconsistencies between reports you may receive from multiple consultants. Abel Ecology has a wide range of experience working with councils, homeowners, developers, project managers and government developments. The team also works with other disciplines such as landscape architects, to bring a good understanding of ecology to the planning table and your home project design.



Blockout Industries

blockoutshutters.com.au

Blockout® Industries has been protecting homes from bushfires for over 26 years. We were the first Australian company to test products for bushfire safety, with tests conducted by The University of NSW and CSIRO. Blockout Industries has four shutters that meet the NSW conditions for AS3959-2009 BAL FZ, section 3.7 excluding (e) & (f).

Our perforated Maxiview® shutter meets the conditions for BAL 40 shutters. Unlike many of our competitors, Blockout® is a professional shutter company and we make sure that we comply to all of the conditions of a bushfire shutter as specified in the standard, especially manual control in case of power failure. Specialising in working with architects and builders means the shutters can be designed in with new homes or retro fitted to existing houses.



Blue Eco Homes

blueecohomes.com.au

Blue Eco Homes are multi award winning builders who aim to build homes as self-sufficient as possible in the use of energy, water re-use and waste water treatment, providing a healthy, contemporary lifestyle for our clients.

Based in the Blue Mountains, we are especially conscious and respectful of the natural environment - actively applying sustainable designs, processes and building products in all our constructions to ensure minimal impact on the environment. We offer a wide range of sustainable features that can be tailored to your requirements, lifestyle & budget.

Living and working in bushfire areas, we are familiar with requirements in regard to bushfire ratings and regularly build to BAL29, BAL40 and BALFZ. Where possible, we employ local trades on our building projects to ensure quality work practices and support the local community.



Blue Mountains City Council

bmcc.nsw.gov.au

Blue Mountains City Council is the local government authority for the City of Blue Mountains, located on the traditional lands of the Darug and Gundungurra Nations. Our City has a population of over 78,000 residents and 4 million visitors annually to our internationally significant World Heritage Area and unique tourist destination. Comprising 27 character-filled towns and villages spread along 100km of mountainous terrain, the City is located on the western fringe of metropolitan Sydney.

The inaugural City of the Arts in NSW, the region boasts a vibrant arts community and local creative industries. Council is committed to delivering an extensive range of community, environmental, cultural, recreational, economic development, land use planning, tourism and emergency management services. Our mission is to improve the well-being of our community and the environment, now and in the future. Council and the community are working together to build a successful future for the Blue Mountains.



Control Line Consulting

controllineconsulting.com.au

Control Line Consulting services include bushfire risk planning, property/asset protection for land, buildings or other infrastructure development potentially at risk from uncontrolled bushfires incorporating: Planning for Bushfire Protection 2006; Building Code of Australia; AS 3959 Construction of Buildings in Bushfire Prone Areas; Mapping GIS production and analysis; Bushfire Risk Management Plans; Hazard Reduction Plans; and Emergency Evacuation/ Relocation Planning.

We provide consultation, assessment and report preparation to the highest industry standards for architects, construction firms, government agencies and private land owners to satisfy requirements of councils, regulatory authorities and the NSW Rural Fire Service for the following styles of development: Subdivisions; Residential Construction; Tourist Accommodation; Educational Institutions; Seniors Living Facilities; and Government Infrastructure.



Decorative Imaging

decorativeimaging.com.au

Experience the beauty and durability of DecoDeck – the best flame zone decking available for bushfire prone areas. DecoDeck is an aluminium decking that has the look and feel of timber, but is non-combustible, so it will not catch fire under burning ember attack.

DecoDeck is a hard baked powder coating on aluminium that is highly resistant to scratching, marking, fading and staining. It will not warp, split, rot or crack like timber, making it a long lasting and durable alternative for decking. DecoDeck is coated in a special polyurethane powder coating, making it ideal for use around pools and spas. The aluminium decking is comfortable to walk on in bare feet on a hot day as it does not build up and retain heat as do many other decking materials.

DecoDeck has been tested and certified by the CSIRO as a non-combustible material and is flame zone compliant.



Easyview Blinds

easyviewblinds.com.au

Easyview Blinds operates from Lithgow serving households and businesses from the Blue Mountains to Bathurst and from Oberon to Rylstone (and further if possible). Easyview Blinds is a member of the Blind Manufacturers of Australia Association, the Housing Industry of Australia, and holds Master Licence No. 410 484 143 covering security doors and grills. We practice the very best in customer service aiming for total customer satisfaction. Easyview Blinds manufactures Holland and Vertical blinds and retails many other styles.

Easyview Blinds offers:

- Top quality products
- Top quality service
- Very competitive prices

Our service includes:

- Free, no-obligation consultation and quotes in your own home
- Removal of existing blinds if necessary
- Installation of your new blinds.



Exfire

exfire.com.au

Australian-based company EXFIRE has recently released FIRESHELL F1E, the first one-part exterior grade fire rated coating system for timber. The new technology allows builders and home owners to utilise traditional building materials in bushfire zones, simplifying construction and reducing costs.

FIRESHELL F1E complies with both the accelerated weathering and fire testing requirements of AS3959, the Australian Standard for building in a bushfire-prone area. The system has been developed and certified to re-classify softwoods and non-compliant hardwoods as compliant when bushfire-resistant timber is required. This applies up to and including Bushfire Attack Level (BAL) 29 requirements.

FIRESHELL F1E eliminates issues previously associated with external fire rated coatings. This is the next generation technology for increasing the fire resistance of external timbers. Its versatility and exterior capabilities have seen it used to achieve compliance on a variety of projects across Australia.



Firecrunch

firecrunch.com.au

Australian certified fire safety building material. Firecrunch specialises in the production of high level fire rated materials for fire separation walls and other strategic safety requirements in all types of constructions for bush fire protection, to residential high rise commercial and industrial complexes. All Firecrunch products are tested only by the CSIRO to Australian standards. In the pursuit of life saving techniques in building materials, Firecrunch Australia has been going through the extensive investigative process of Australian Compliance under the BCA and received the full accreditation in Australian Standards under various sections of the (BCA).

AS /NZS 3837 is currently held by Firecrunch as a Group 1 noncombustible material. The CSIRO has tested to AS/NZS 1530.4 as applicable in FRL from FRL 60 through 90 in LOAD (55kN) and NON LOAD bearing conditions.

Firecrunch meets the full range of (BAL) Bush Fire Attack levels to MAX (FZ) Flame Zone.



Force 10

force10global.com.au

The Force 10 Engineered Building System is a breakthrough in innovative construction and has been designed to use a minimum number of modular components. A galvanised steel frame is at the core and the floor, wall and roof systems are totally integrated and all components lock together easily and smoothly. The steel frame is made of BlueScope Australian steel.

Force 10 is particularly competitive in remote areas because of its ability to be "flat-packed" and its rapid construction with a minimum of skilled trades people. It is cyclone resistant, fire resistant, termite resistant and has excellent inbuilt insulation. It is a clean and green building product with an energy rating up to 9.5 stars.



The Council Approval Experts

councilapproval.com.au

Fast track your council approval. Save time, stress and the hassle of doing it yourself. Why choose our team to help you achieve your council approval?

1. Certified - Being the only Certified Practising Planner in the Blue Mountains, our professional standards bring confidence to our clients.
2. Insider knowledge - Max Fragar worked for Blue Mountains City Council for over 20 years, including being Director of Town Planning.
3. Breadth of experience - Successfully achieved over 500 approvals from Blue Mountains City Council.
4. In the media - Regularly featured in the Blue Mountains Gazette and on ABC 702. Our general manager is an Australian best-selling property author.
5. Long standing family business - Established in 1996, our family has lived in the Blue Mountains for over 40 years.
6. Experienced team - Our team includes town planners, draftsmen, architects and ex council staff.

And that's why we call ourselves The Council Approval Experts.



Hotondo Homes

hotondo.com.au

Hotondo Homes are a franchise building company. Local builders, such as C&S Duncan Builders, buy into the franchise to enable us to build quality homes at an affordable price. Using our group buying power, we can build at extremely competitive rates. Our head office provides us with continuous training in all areas of our business. We have over 90 flexible floor plans and we offer custom design homes that can help if you have a difficult to build on block or just want a unique home. C&S Duncan - Hotondo Homes build from Penrith to Oberon and have a display home in Lithgow. We are available six days per week and come to you if you wish. Free site inspections and estimates allow you to know how much it may cost to build your home before you spend a cent. Knock down and rebuild and bushfire specialist.

Exhibitors



Modwood
modwood.com.au

Flame Shield® is a specially formulated ModWood® 137mm decking board with a dispersed fire retardant. Until now timber decking board options for bushfire prone areas was extremely limited; Flame Shield; Global GreenTag Bronze Star certified; is tested and certified to AS1530.8.1-2007 for use within BAL-12.5, BAL-19, BAL-29 and BAL-40 (AS3959-2009) zones and gives you a traditional timber deck look and feel. ModWood is made from recycled wood fibre and reclaimed plastic milk bottles (HDPE); You do not need to paint or stain or oil ever. Flame Shield® comes in a range of colours and requires none of the maintenance of traditional timber decking, it will acquire the natural feel and look of weathered timber and may be installed over selected timbers or steel with an enclosed or unenclosed subfloor; refer to fixing instructions. Resistant to termites, free of splinters; offering long-lasting and cost-effective alternative in Residential or Commercial applications. Made, owned and produced in Australia.



NSW Rural Fire Service
rfs.nsw.gov.au

NSW RFS Blue Mountains

NSW is one of the most bush fire prone areas in the world and the threat to life, property and the environment from bush fire is always present. The NSW Rural Fire Service (NSW RFS) is the lead agency in combating bush fires and helping the community to prepare for bush fire.

Engaging communities in planning and decision making about bush fires is a key risk mitigation goal and a core function of the NSW RFS. Visit our stand at the Bushfire Building Expo for detailed information on how you can prepare yourself, your family and your property for bush fire.



NSW Rural Fire Service
rfs.nsw.gov.au

NSW RFS Development and Planning

Bushfire is a major challenge for the community. It has been a natural part of our landscape for thousands of years and remains an ever-present threat. All new development on land that is designated as bush fire prone is legally required to consider bush fire and meet the requirements of Planning for Bush Fire Protection 2006 and AS3959: Construction of buildings in bushfire-prone areas – 2009.

At the Bushfire Building Expo, information will be provided by the NSW Rural Fire Service that promotes an understanding of bush fire behaviour, bush fire assessment reports and the legal framework that governs the planning process for proposed developments on bush fire prone land in NSW. This information is relevant to current and future home owners, developers, planners, councils, fire authorities and other government organisations.



Paarhammer
paarhammer.com.au

Paarhammer have been known for over 25 years to make highly energy efficient windows and doors. In 2011 we developed our Bushfire Safe Range of windows and doors for all Bushfire Attack Levels (BALs), including BAL-FZ - without the use of shutters - as an Australian first, tested and approved to all relevant Australian Standards.

Custom made from self-extinguishing FSC-certified Manilkara timber frames together with Schott Pyranova® glass and special seals, they include tilt & turn windows, fixed glass units, hinged doors, French doors and sliding doors.

Our products are constructed with our unique framing, sealing and secure metal-to-metal locking system, providing the highest energy efficiency while combining aesthetics and design freedom with safety in the highest bushfire prone areas.

Whatever the bushfire rating, you can now rest assured that Paarhammer products achieve the highest energy ratings and provide maximum safety and peace of mind, Australia-wide.



Paramount
pwdaustralia.com.au

Paramount Windows and Doors are Manufacturers of European uPVC Windows and Doors. Manufactured in Sydney Australia, Paramount uses Kommerling Profile which is a Tested and Certified Bushfire Resistance According to AS 3959: 2009 and AS 1530.8.1: 2007, including BAL 40. Paramount manufactures any type of Windows and Doors: Tilt and Turn Windows; Tilt and Slide Windows; Awning Windows; Sliding Windows and Doors; Bi-Fold Doors; Residential Doors; Double/Triple Glazed Glass; Flyscreens; and Blinds. All products are manufactured in Australia using all European Profile and Hardware.



Peta Frullani Designs
petafrullanidesigns.com.au

I began my landscape career as a horticultural trainee with a Blue Mountains landscaping company while completing a Certificate in Horticulture at TAFE. My interest in soil and plants became an obsession and after 5 years working as a Horticulture Supervisor in the Blue Mountains firm, I landed my dream job with Secret Gardens of Sydney.

While studying a Diploma of Landscape Design at TAFE, I entered the TAFE Landscape Challenge and had my designs built at the Sydney Royal Easter Show, taking out 1st place 2 years running. I have recently opened my own business, Peta Frullani Designs. This has been a dream of mine since starting in the horticulture industry. Being a Blue Mountains local and involved with the Rural Fire Service for most of my life, I have taken an interest in creating fire risk reduction garden designs.

I have found clients to be understandably cautious about replanting after the recent fires, however, choosing appropriate plant species, positioned in such a way can



Plustec

plustec.com.au

Plustec is a local manufacturer of European designed uPVC windows and doors located in Emu Plains at the foot of the Blue Mountains. We use a quality lead-free uPVC profile system designed in Germany and make Tilt/Turn as well as Tilt/Slide double glazed windows and doors.

Our profile composition is ideal for the Australian climate and has been used for over twenty years in a much harsher climate (UAE). We use Australian glass and European hardware to produce highly energy efficient, sound insulating and well-sealed products made to order.

Metal reinforced uPVC windows comply with the BAL 29 rating, and our Australian made aluminium outer skin can be applied to comply with BAL 40 both with the appropriate glazing. The beauty of inward opening windows means your fly screens are on the outside (compliant with AS3959) and you can still clean your glass from inside the building.



Premier Gutter Guard

premiergutterguard.com.au

Premier Gutter Guard will take the hassle out of maintaining your gutters. Let us carry out a full inspection of your home or business and find the best solution for your needs.

Our product is Australian made steel with a 25 year performance warranty and we can fix any roof profile in any colour.

Keeping your gutters free from leaves and other debris can reduce the risk of flame damage to your home. Non-combustible gutter guard is mandatory for new builds in bushfire zones.



Sonnenschutz

sonnenschutz.com.au

Bushfire shutters for all BAL levels.

Many Australians love the lifestyle of a bush setting but have to live with the constant threat of bushfires. Also, strict new Building Regulations in high fire risk areas have put many conditions on all aspects of the building envelope.

Shade&Shield custom-manufacture bushfire shutters for all BAL levels including BAL-FZ are tested and compliant to AS3959-2009 and AS1530.8.2. Our shutters make it possible to achieve BAL-FZ compliance with standard windows, fitted with 5mm toughened glass.

Shade&Shield BAL-FZ shutters are Australia's first and only bushfire Flame Zone approved shutters and have the ability to save lives. Tested to a grueling 850 degrees, radiant heat is a low 6kW/m².

Casement shutters can be up to 3500mm wide and 2400mm high. Other sizes and opening styles are available on request, including sliding and top/bottom hinged. The base colour range is per Colorbond® standard range with custom colours available.



UBIQ

ubiq.com.au

Ubiq is a provider of high performing, lighter weight materials for the construction industry. We offer a superior, yet price competitive, environmentally friendly alternative to fibre cement and plasterboard products. Critically, our products are both low carbon and high performing, whilst at the same time being affordable, delivering to the construction industry a better, safer and cost effective solution. Our INEX>BOARDS offer improved performance over the typical fibre cement and plasterboard products used in the industry. Our boards are manufactured in China and are fully accredited for Australia where they have been in use for over 10 years. INEX>TECHNOLOGY is a lightweight Fibre Reinforced Engineered Cementitious Composite. It is made from the highest grade raw materials that are carefully selected and tested before use. The binder is 100% pure inorganic natural metal oxides that have low GHG and VOC footprint. INEX>BOARDS can be used on any building, any surface, anywhere.



Viva Homes

vivahomes.com.au

Viva Living Homes is a local Blue Mountains builder specialising in sustainable homes which are made from natural materials. These solar passive and sustainable homes are designed and built throughout NSW up to and including BAL FZ, even under the new Bushfire regulations. Viva Living Homes has over 20 years' experience in building homes with 16 years' experience building straw bale & earth homes. Viva Living Homes built one of Australia's first straw bale homes in 2000.

Sam Vivers, the Director has built 3 of his own straw bale and earth homes and lives in one in the mid mountains. He has built 30+ straw bale and earth complete homes and buildings for clients. Sam is a certified training instructor and is a leading educator in straw bale building. He runs Australia's only Straw Bale building course as well as Natural Buildings courses and workshops.

Contact us for more information on building a natural home in Bushfire zones. We have fixed price contracts and timeframes.



Woodford Homes

woodfordhomes.com.au

Allen and Lyn Smith of Woodford Homes have been servicing the home owners of the Blue Mountains, Penrith and surrounds since 1998. In that time they have built a trusted reputation for top quality extensions, renovations and new homes.

The Woodford Homes team of professional tradespeople take pride in their workmanship right down to the smallest detail. They go out of their way to ensure that your project is finished on time and within your budget; with a helpful service, and a flexible approach to your building needs.

For a reliable and efficient team who will look after your new building project, you can't go past Woodford Homes for the Blue Mountains, Penrith and surrounding areas.

Visit our Office and Display; Unit 5, 118-120 Somers Street, Lawson NSW 2783

Call our office on: 4751 9577

Expo Program

Saturday 10 September — Morning Session — Room 1

Time	Topic	Speaker
9:15	Why do houses burn down? The science behind why and how houses burn down + Fire behaviour	Justin Leonard – CSIRO
9:45	Questions	
10:00	Bushfire Attack Level (BAL) What is a Bushfire Attack Level (BAL)?	NSW Rural Fire Service
10:15	Insurance What are you covered for? Reading your Insurance Policy. Past issues after bushfire events.	Samantha Harvey – Elizabeth Evatt Community Legal Centre
10:45	Questions	
11:00	Get Ready NSW Get Ready. The bushfire season is nearly upon us again. All the information you will need on Planning for Bushfire Survival.	NSW Rural Fire Service
11:30	Questions	
11:45	Panel Discussion: Busting the Myths Bring the hard questions to ask the experts; Is it real or a myth? Examples: <i>‘Brick houses don’t burn down’ ‘I’ve got FULL replacement cover, so no worries’ ‘My house is BAL 40 so my neighbour should shelter here’</i>	Justin Leonard – CSIRO Samantha Harvey – Elizabeth Evatt Community Legal Centre Joe Mercieca – Blue Eco Homes Catherine Gorrie – Bushfire Consulting Services Blue Mountains City Council David Jones – NSW Rural Fire Service
12:30	Close	

Saturday 10 September — Afternoon Session — Room 1

12:45	Why do houses burn down? The science behind why and how houses burn down + Fire behaviour	Justin Leonard – CSIRO
1:15	Questions	
1:30	Bushfire Attack Level (BAL) What is a Bushfire Attack Level (BAL)?	NSW Rural Fire Service
1:45	Insurance What are you covered for? Reading your Insurance Policy. Past issues after bushfire events.	Samantha Harvey – Elizabeth Evatt Community Legal Centre
2:15	Questions	
2:30	Get Ready NSW Get Ready. The bushfire season is nearly upon us again. All the information you will need on Planning for Bushfire Survival.	NSW Rural Fire Service
3:00	Questions	
3:15	Panel Discussion: Busting the Myths Bring the hard questions to ask the experts; Is it real or a myth? Examples: <i>‘Brick houses don’t burn down’ ‘I’ve got FULL replacement cover, so no worries’ ‘My house is BAL 40 so my neighbour should shelter here’</i>	Justin Leonard – CSIRO Samantha Harvey – Elizabeth Evatt Community Legal Centre Joe Mercieca – Blue Eco Homes Catherine Gorrie – Bushfire Consulting Services Blue Mountains City Council David Jones – NSW Rural Fire Service
4:00	Close	

Welcome

BMEE acknowledges that the City of Blue Mountains is located on the traditional lands of the Darug and Gundungurra Nations.



Cr Mark Greenhill
OAM
Blue Mountains Mayor

I am pleased to welcome you to the 2016 Bushfire Building Expo and Community Forum.

This event began as a bushfire recovery initiative following the 2013 bushfires here in the Blue Mountains and has now grown to be the leading expo in the country to offer information, products and services for anyone interested in building or renovating in a bushfire prone area.

The regulatory environment for building in an area like the Blue Mountains is complex, and events such as this provide much-needed information under one roof. Whether you need advice about insurance, BAL-rated building materials or a bushfire consultant to help you through the planning process, you will find it here. I would like to commend Blue Mountains Economic Enterprise for once again producing such a valuable community event.

More than 1500 residents from the Blue Mountains and beyond attended last year’s event, and I am sure that with the quality of exhibitors, community information sessions and film screenings on offer this year, that number will grow.

I hope you have an enjoyable and worthwhile day here at the Bushfire Building Expo and Community Forum.

Kind regards,
Cr Mark Greenhill OAM
Blue Mountains Mayor



Donald Luscombe
AFSM
Chairman, BMEE

As Chairman of Blue Mountains Economic Enterprise (BMEE) I am delighted to welcome you to the 2016 Bushfire Building Expo and Community Forum.

Once again the BMEE team has delivered a world class community event, providing a one stop shop for information, products and services necessary for building in a bushfire prone area. I hope you will take advantage of the opportunity to talk to builders, architects, planners and so much more who are exhibiting today and can provide you with great advice and assistance.

Also on hand today is our program of information sessions designed to help you better understand your insurance policy, understand why houses burn down, how to get ready for the fire season, understand your BAL rating and bust some of the most common myths about bushfires.

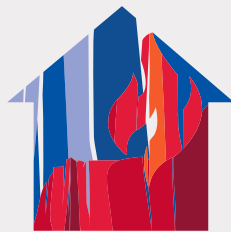
Thank you to our Major Sponsor, NSW Rural Fire Service and our Gold Sponsors Sonnenschutz and Exfire, without whom today would not be possible. Thank you also to Blue Mountains City Council for their support of BMEE, and especially to BMEE’s Cassie Elliot who has skillfully coordinated both today’s event and yesterday’s highly successful industry conference.

I hope you find today useful and I wish you the best in your building or renovating endeavors.

Kind regards,
Donald Luscombe, AFSM
Chairman Blue Mountains Economic Enterprise

The Bushfire Building Conference + Expo 2016

Day Two Expo



Presented by:



Major Partner:



NSW RURAL FIRE SERVICE

Venue:

