



# ELECTRONIC BLUEPRINT UPDATE

## CPD for Architects, Engineers & Builders

### Dear Building Professional

Thank you for receiving the ELECTRONIC BLUEPRINT Update.

Bi-monthly issues are emailed (six per year) to keep architects, engineers and builders informed of:

- Changes to the Building Code of Australia and relevant Australian Standards
- Commentary on the changes and other important design considerations
- Appropriate **specifications and drawing details** to comply with those standards
- A range of building products that meet the particular requirements.

Should you require more information of any of the matters raised herein, please refer to our website [www.electronicblueprint.com.au](http://www.electronicblueprint.com.au) or contact us by email [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au).

Rod Johnston – Principal Author

Karen Bloomfield – Chief Executive Officer

### In this ELECTRONIC BLUEPRINT Update

#### Training News - [more](#)

##### Structured Distance Learning Program

- July  
2008
- Paving
  - Public kerbs, gutters, footpaths etc

#### Sustainability Distance Learning Modules for CPD point accrual

- Energy Efficiency
- Water Conservation
- Air Quality & Toxicity

**\$175 + GST (each)- [more](#)**

#### ENVIROSPEC News - [more](#)

##### 2008 DATES for the free SEMINAR SERIES “Marketing In The Green Decade”

Sydney

[August, Tues 12](#)

[October, Tues 14](#)

Brisbane

[October, Wed 15](#)

Melbourne

[August, Thurs 14](#)

#### Architects Feature – [more](#)

AS 3727:1993 Guide to Residential Pavements - Design

#### Engineers Feature – [more](#)

Permeable Concrete Segmental Pavements

#### Builders Feature – [more](#)

AS 3727:1993 Guide to Residential Pavements - Construction

#### Product News – [more](#)

Product Directory enables specifiers and purchasers to quickly access building products complying with the specification requirements.

#### Standards News – [more](#)

New, Superseded and amended Australian Standards.

#### Industry News - [more](#)

Hanson Building Products Permeable Paving Range

We are conscious that professionals receive large quantities of technical information.

To cease receiving these newsletters (six per year) please email us at [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au).

Email addresses are never sold nor used for reasons other than **ELECTRONIC BLUEPRINT** notification and information.

## Architects – AS 3727:1993 Guide to Residential Pavements - Design

AS 3727 was published in 1993 to provide guidance on the design and construction of concrete, asphalt, bituminous spray-seal and segmental pavements, for use in residential construction. The scope is spelt out in AS 3727 Clause 1, which states,

*This Guide provides guidelines for the selection and construction of pavements associated with residential buildings consisting of single houses or multiple dwellings in medium density housing development. It does not apply to the design and construction of pavements in public roads or streets.*

AS 3727 Clause 5 spells out the acceptable serviceability criteria, for at least one year after construction, in terms of:

- Cracking, subsidence and stepping
- Chipping and spalling
- Slip resistance
- Ponding

The key words are “may be assessed” by the one year criteria. Although this infers that failure to meet the criteria during the first year of services is an indicator of unacceptable performance; it does not mean that failure to meet the stated criteria, later during the design life, is considered unacceptable.

### AS 3727:1993 Clause 5.2 – Performance Objectives - Cracking, Subsidence and Stepping

The most common failures in residential pavements relate to excessive movement. Concrete and asphalt pavements may suffer unsightly cracking. All three pavements (concrete, asphalt and segmental pavements) may suffer:

- subsidence due to rutting, or
- stepping, creating a trip hazard.

Table 1 sets out permissible one year limits, over and above the normal construction tolerances.

Table 1 - Cracking, Subsidence and Stepping Performance Criteria		
Conditions	Measure	Limit
Cracking in bound pavements	Crack width	≤ 1.5 mm
Subsidence	Offset under 1.5 m length of the design profile	≤ 15 mm
Stepping	Relative surface level of adjacent paving elements within the expanse of the main pavement	≤ 5 mm



### AS 3727:1993 Clause 5.3 – Performance Objectives – Chipping and Spalling

This performance requirement does not apply asphalt pavements.

- For segmental pavements,  
*There should be no more than 10 in any adjacent 100 segmental paving units having chipped or spalled arises.*

In the absence of a definition of “chip” or “spall” in the Standard, it is suggested that “common sense” should prevail. As a guide, any blemish under 5 mm wide or long should not be counted as a “chip or spall” for purposes of the performance monitoring.

- For concrete pavements,  
*There should be no chipping or spalling in concrete pavements.*

As for segmental pavements, it is suggested that “common sense” should prevail and any blemish under 5 mm wide or long should not be counted as a “chip or spall”.



### AS 3727:1993 Clause 5.4 – Performance Objectives – Slip Resistance

- For all pavements,  
*The surface texture should have slip resistance appropriate for the pavement slopes as required by AS 3661.1*

AS 3661.1 is standard that is now superseded by AS/NZS 4586:2004 for new surfaces and AS/NZS 4663:2004 for existing surfaces.



### AS 3727:1993 Clause 5.5 – Performance Objectives – Ponding

- For all pavements,  
*Ponding deeper than 10 mm should not occur more than 15 minutes after cessation of rainfall. The most practical way of satisfying this requirement is to ensure that the pavement has adequate cross falls and drainage. If the pavement suffers rutting, this will exacerbate any ponding problems.*

For further information on this topic, or for relevant Continuing Professional Development Distance Learning Packages, please contact **ELECTRONIC BLUEPRINT** at [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au)

## Engineers – Permeable Concrete Segmental Pavements

Permeable concrete segmental pavements provide an ideal means of reducing the rate of stormwater run-off and the consequential overload of the stormwater drainage system. They also facilitate water harvesting and improvements in water quality of run-off. This system was first applied in Europe almost 20 years ago. Research into permeable paving began in Australia in the early 1990s and was directed both to adapting permeable paving to suit Australian climates and rainfalls and to providing fundamental information for the design of permeable pavements to carry traffic. This work, taken in conjunction with overseas investigations, means that there is now a substantial body of information that can be used in the design and application of permeable concrete segmental pavements under Australian conditions.

When designing such pavements, Engineers should consider both the hydrology and structural aspects. Considerations include:

- Potential run-off volumes and flow rates,
- Infiltration rate through the pavement layers (pavers, bedding, base, sub-base and subgrade),
- Storage volume within the pavement,
- Filtration characteristics,
- Wheel loads,
- Traffic repetitions, and
- Resistance to rutting, cracking and other structural criteria.

PERMPAVE ® software has been developed by CMAA (Concrete Masonry Association of Australia) and the University of South Australia, to provide the hydrological design inputs and requirements for concrete segmental permeable pavements. It incorporates storm data from “Australian Rainfall and Runoff” publication. Design criteria for stormwater management, flood control, water quality and water harvesting are included in the software.

LOCKPAVE ® software (also provided by the CMAA) may be used for the structural design for permeable concrete segmental pavements. This software has recently been upgraded by Dr Brian Shackel to incorporate design procedures, methodology and material specifications for permeable concrete segmental pavements.

Electronic Blueprint provides editable specifications for permeable concrete segmental pavements, including the units, bedding, aggregate, geotextiles and the like.



For PERMPAVE ® and LOCKPAVE ® software, please refer to [www.cmaa.com.au](http://www.cmaa.com.au)  
For relevant editable Specifications, please refer to [www.electronicblueprint.com.au](http://www.electronicblueprint.com.au)  
For Continuing Professional Development (CPD) Distance Learning Packages, please contact [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au)

[Return to top](#)

# Builders – AS 3727:1993 Guide to Residential Pavements - Construction

AS 3727 is intended to give guidance on the design and construction of concrete, asphalt, bituminous spray-seal and segmental pavements, for use in residential construction.



## AS 3727:1993 Clause 4.2 - Limitations

AS 3727 uses the site classifications defined in AS 2870 *Residential Slabs and Footings*. However, AS 3727 provides guidance only on, “good subgrades on well-drained sites” and therefore does not apply to Class H, E or P sites, which should be designed by other methods by a suitably qualified and experienced engineer. The applicable classifications are: A, S and M.

Foundation	Class
Most sand and rock sites	A
Most silt and some clay sites	S
Moderately reactive clay sites	M

## AS 3727:1993 Clause 6 – Materials

Clause 6 provides the specifications for each of the components of pavements. This information is covered in specifications of both materials and construction for each type of pavement in [www.electronicblueprint.com.au](http://www.electronicblueprint.com.au).

[Return to top](#)

### **AS 3727:1993 Clause 7 – Pavement Construction**

Clause 7 provides the requirements for:

- Subgrade
- Basecourse
- Cross Falls
- Drainage.

### **AS 3727:1993 Clause 8 – Concrete Pavements**

Clause 8 provides the requirements for Concrete Pavements:

- General
- Sub-base
- Reinforcement
- Joints.

### **AS 3727:1993 Clause 9 – Segmental Pavements**

Clause 9 provides the requirements for:

- General
- Thickness of bedding course
- Joints
- Lateral restraint.

### **AS 3727:1993 Clause 10 – Asphalt Pavements**

Clause 10 provides the requirements for:

- General
- Preparation for pavement construction
- Asphalt
- Surface finish.

### **AS 3727:1993 Clause 11 – Bituminous Spray-Sealed Pavements**



Clause 11 provides the requirements for:

















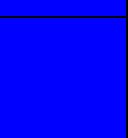








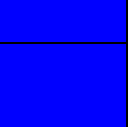
- General
- Subsurface preparation
- Prime coat
- Bitumen application
- Aggregate spreading.

For further information on this topic, please refer to [www.electronicblueprint.com.au](http://www.electronicblueprint.com.au)  
For Continuing Professional Development (CPD) Distance Learning Packages, please contact [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au)

[Return to top](#)

# Product Directory - Supplier Table

Key:	
Supplier Name	Hyperlink to Product Page for particular Supplier
EB Sections	Electronic Blueprint sections that Supplier products feature in
Specification Type	 Electronic Blueprint Specification
	 Electronic Blueprint Sustainability Specification

Supplier	Product Details	EB SECTION(S)	SPEC TYPE
<a href="#">Abey Australia Pty Ltd</a>	Wall ties for all environments, including stainless steel cavity ties for use in Marine (R3) and Severe Marine (R4) environments	12	
<a href="#">Alpha Coatings</a>	Thermally regulated paints and coatings	19	
<a href="#">Armacell Australia Pty Ltd</a>	Engineered foam for thermal and acoustic insulation solutions.	5,23	
<a href="#">Astec Paints Australia</a>	Thermally regulated paints and coatings.	19	
<a href="#">Austech External Building Products</a>	Extruded polystyrene insulation	14	
<a href="#">Australian Window Association</a>	Technical information	6	
<a href="#">Breezeway Australia Pty Ltd</a>	Energy and cyclone rated louvre windows made from non-corrosive materials complying with AS 2047; Skylights manufactured in accordance with AS2485 and AS1288 and energy rated according to WERS Scheme; Solid timber loft ladders with a high load capacity of 160kg; insulated and dust retardant trap doors	6, 9	
<a href="#">Brunswick Sales</a>	Vertical control joint ties to AS 2699 Part 1. Available fully galvanised or grade 316 stainless steel.	12	
<a href="#">C&amp;M Brick</a>	Retaining wall systems to meet the requirements of AS 4678; Water-repellent masonry blocks	4, 12, 27	
<a href="#">Concrete Colour Systems</a>	Pigments and systems for resurfacing, colouring and stencilling existing and new concrete surfaces	3	
<a href="#">Connolly Key Joint Pty Ltd</a>	Preformed concrete control joints and ancillary products	3	
<a href="#">Cultured Stone</a>	Manufactured Stone Veneer Cladding	9	
<a href="#">CVC Centravac</a>	Built -In Vacuum Systems	23	
<a href="#">Devi Heating Systems</a>	Underfloor and ceiling heating systems.	16	
<a href="#">Duralok Fence System</a>	PVC Fencing	26	
<a href="#">Easy Living Home Elevators</a>	Home & commercial elevators, dumbwaiters and limited mobility lifts to AS 1735	23	
<a href="#">Electronic Blueprint</a>	Steel mullions for brickwork and blockwork to provide wind and earthquake resistance to the new AS/NZS 1170.2 and AS 1170.4. Resilient ties to comply with BCA Vol 1&2 for the separation of leaves of cavity walls to eliminate the transmission of impact sound	7, 12	
<a href="#">Elmich Australia</a>	Landscape Engineering Solutions	2,5,25,27	
<a href="#">Exfoliators</a>	Premium Perlite, Premium Vermiculite and Passive Fire Protection products.	19	
<a href="#">Expella Pty Ltd</a>	Ventilation solutions	23	
<a href="#">Exterra / Ensystex Australasia Pty Ltd</a>	Non-toxic, in-ground or above-ground, termite colony elimination and protection system complying with AS 3660.2	3,8	
<a href="#">Fibercon</a>	Steel fibre reinforcement used for enhancing toughness and impact resistance of concrete	3, 27	
<a href="#">Foamular Insulation</a>	Extruded Polystyrene Insulation	14	
<a href="#">Ford Timbers Pty Ltd</a>	Hardwoods with enhanced performance.	8,9,10,26,28	
<a href="#">Fire Protection Association Australia</a>	Technical information and training services	0	
<a href="#">Galvanisers Association</a>	GAA is an industry Association established in 1963 to represent galvanizing companies and to provide technical consulting services on a not for profit basis.	7	

[Return to top](#)

<a href="#">Global Safe Technologies</a>	Anti Slip and Non Slip Floor Surface Safety Solutions Provider	15,19, 20,29	
<a href="#">Hanson Building Products</a>	Retaining wall systems to meet the requirements of AS 4678; Water-repellent masonry blocks; Concrete block systems, including insulated blocks and acoustic block systems, to meet the BCA requirements; Segmental pavers for roadways, driveways, gardens and pool surrounds to meet AS 3727 Residential pavements Energy Efficient Masonry Housing Systems	4,12	
<a href="#">Helifix (Australia) Pty Ltd</a>	Products to repair cracked or damaged brickwork	12	
<a href="#">Higgins Insulation</a>	Higgins Insulation manufacture high quality, high performance, safe, natural, environmentally friendly insulation products	14	
<a href="#">Joistrip</a>	Extruded Rubber Flashings	8	
<a href="#">Master Builders Association</a>	Construction area safety signage.	1	
<a href="#">Matrix Industries</a>	Acoustic and vibration wall ties	12	
<a href="#">Nanovations</a>	Specialty Paints	19	
<a href="#">NRG Greenboard</a>	Thermal wall systems	14	
<a href="#">Nuplex Constructions</a>	Nuplex Construction Products manufacture and market floor coatings and sealers complying with AS/NZS 2310, AS/NZS 2311 & AS/NZS 2312.	19	
<a href="#">Nylex Water Solutions</a>	Rainwater Tanks	5	
<a href="#">Origen Australia</a>	EnduroShield™ is a revolutionary permanent non-stick, invisible coating for glass, ceramic and tile surfaces.	19	
<a href="#">Ozwall Manufacturing Pty Ltd</a>	Concrete-filled plaster pre-fabricated panels	3	
<a href="#">Pointsbuild</a>	Basic legal and financial training for CPD points	0	
<a href="#">Raven Product Pty Ltd</a>	Sealing Systems, for doors and windows, which are frequently multi-purpose, sealing against a combination of intrusions and leakages including sound (AS 1191), fire (intumescent) & smoke (to AS 1530.4 & AS/NZS 1905.1), rain, draughts, dust, embers, light insects, vermin, and energy inc. heating & air conditioning (to AS 4420.4, AS 4420.5, AS 2047, AS 1939, AS 1530.7)..	6, 18	
<a href="#">Resene Paints (Aust) Ltd</a>	Environmentally friendly (low VOC) paints complying to APAS requirements and Electronic Blueprint Sustainability Specification.	19	
<a href="#">Robert Bosch (Australia) Pty. Ltd.</a>	Commercial and domestic continuous flow gas hot water systems- Hydropower, Pilot & Electronic ignition, available in natural gas & LPG. All gas hot water systems compliant with AS 4552.	5	
<a href="#">RootBarrier</a>	Moisture and tree root shields	3	
<a href="#">Silvan Australia Pty Ltd</a>	Innovative rainwater utilisation systems	5	
<a href="#">Skydome Skylight Systems</a>	Tubular skylights, roof windows, domed skylights, overhead glazing, mechanical roof ventilation	6, 23	
<a href="#">SmartFlo Gutters</a>	Enclosed self-shedding gutter systems.	11	
<a href="#">Stramit Building Products</a>	Cold-rolled galvanised steel products complying with AS 4600 Permanent formwork of cold-rolled steel complying with AS 1538 and AS 1397 Sheet steel metal roof and wall cladding complying with AS 1397 Metal rainwater goods complying with AS 2179.1	3, 7, 8, 10, 11	
<a href="#">Timbercrete</a>	Unique Brick Suppliers	4	
<a href="#">Tridek</a>	Contemporary Roofing Panels. Contemporary Roofing Panel that effectively forms a roof, ceiling and insulation in one continuous panel.	10	
<a href="#">Trithor / Ensystex Australasia Pty Ltd</a>	Termite barriers complying with the requirements of AS 3660.1	3,12	
<a href="#">Viridian</a>	Glazing, decorative glazing, cyclone proof and bushfire resistant glazing and insulated glass units (IGU's).	6	
<a href="#">WFAANZ</a>	Window Film Association of Australia and New Zealand	6	

[Return to top](#)

## Distance Learning Training Program - SCOPE

The following scope outlines the learning outcomes and program content for the 2 Year Structured Distance Learning Program provided by Electronic Blueprint, for Architects, Engineers and Builders. It is intended as a guide to the format of the overall package. Each module is updated regularly to reflect regulatory changes, including the BCA and Australian Standards, and material and products changes relevant to the industry sector e.g. Green labelling and complying products.

The program has been written and compiled to ensure practical, hands-on and relevant learning outcomes with a focus on:

- Design Considerations
- Relevant Standards and Considerations
- Problems and Solutions
- Specifications
- Suitable Products
- Site Control Checklists, and
- Sustainability Issues

The full course covers 30 topics which represent all aspects of Building Construction, grouped into 12 Modules of complimentary type for greatest relevance, and tailored for industry professionals in the following format:

Design Modules – providing focus on Specifications, Details & Concepts

Building Modules – providing focus on Details, Background & Construction Inspections

Engineering Modules – involving complex design calculations and engineering detailing

### Learning Outcomes:

By the end of the program, participants will have a thorough working knowledge of the 30 sections.

### Accrual of Continued Professional Development (CPD) Points:

In accordance with guidance from the NSW Office of Fair Trading, Building professionals may claim 1 point for each hour spent to complete this Distance Learning Program. As a guide, modules average over two hours completion time each.

### Format:

Every two months, a coordinated Distance Learning Package consisting of several related topics is provided. Each package includes an Electronic Update, which summarises the content, and several voiced-over presentations provided in Breeze format with full text available for hard copy print out. Participants receive modules on disk, with assistance available by tutor via email. Participants are required to complete a short assignment, which is marked and returned with a certificate for CPD accrual, before the next Module is sent out.

Register today to be a part of the most exciting CPD Training Program for Building Professionals in Australia!

**Contact Karen on 4360 2255 for registration details or visit the website at**

**<http://www.electronicblueprint.com.au/training.html>**

View module summary below.

[Return to top](#)

## Summary of Structured Distance Learning Program

Module 1	Site establishment & preliminaries	Module 7	Sustainability (Water Conservation) Drainage & plumbing Roof cladding Roof plumbing
Module 2	Masonry	Module 8	Paving Public kerbs, gutters, footpaths etc
Module 3	Sustainability (Energy Efficiency) Windows, doors & glazing Insulation	Module 9	Sustainability (Air quality & toxicity) Painting & coatings Cleaning
Module 4	Earthworks & site drainage	Module 10	Concrete
Module 5	Retaining walls Fencing Landscaping	Module 11	Loading Standards Structural steelwork Wall, roof & floor framing Carpentry, Joinery, Cladding & Floor Ceiling & wall lining
Module 6	Slip Resistance Floor & wall tiling Resilient floor coverings Carpets & soft furnishings	Module 12	Electrical installation Mechanical ventilation & services Kitchen Vehicular doors Window & door shutters Metalwork & balustrades

### Complimentary Packages

Site establishment & preliminaries - This demonstration module will be made available free-of-charge to participants.  
BCA – A module on the amendments to the BCA Volumes 1 & 2 which are published 1st May each year will be made available free-of-charge with the May module of each year.

### Non-structured Distance Learning

Architects, Engineers and Builders may select Distance Learning Packages from a comprehensive list to suit their particular needs. The training is carried out at the convenience of the participant, an assignment is submitted and assessed, the Certificate of Completion is issued and CPD points assigned. [More...](#)

## Sustainability Distance Learning for Continued Professional Development

\$175 + GST (each), each presentation is a Breeze style presentation on CD, complete with full text, audio voice-over and tutoring opportunity.

**Energy Efficiency** – dealing with issues related to the conservation of energy and reduction in greenhouse gas emissions

**Water Conservation** – dealing with issues of capturing rainwater and conserving water use, together with maintaining water quality

**Air Quality** – dealing with minimizing the release of volatile organic compounds from building products, to maintain a satisfactory air quality and avoid “sick building syndrome”



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[Return to top](#)

## Changes to Australian Standards

These changes are reflected in the updated version of the **ELECTRONIC BLUEPRINT**, which will be available at [www.electronicblueprint.com.au](http://www.electronicblueprint.com.au). For more information on changes to Australian Standards, visit SAI Global at [www.standards.com.au](http://www.standards.com.au)

New Standard	Superseded Standard
AS 1379 Supp 1-2008 Specification and supply of concrete - Commentary (Supplement 1 to AS 1379 - 2007)	AS 1379 Supp 1-1997
AS 2858-2008 Timber - Softwood - Visually stress-graded for structural purposes	AS 2858-2004
AS 2941-2008 Fixed fire protection installations - Pumpset systems	AS 2941-2002
AS/NZS 4455.1:2008 Masonry units, pavers, flags and segmental retaining wall units - Masonry units	
AS/NZS 4455.3:2008 Masonry units, pavers, flags and segmental retaining wall units - Segmental retaining wall units	
AS 4623-2008 Jointing compounds and materials for use in gas pipe joints	AS 4623-2004
AS 5200.007-2008 Plumbing and drainage products - Metal-bodied water hammer arresters	
AS 5200.037.2-2008 Plumbing and drainage products - Flow controllers for use with heated or cold water systems	

Advertisement

### Industry News – Hanson Building Products Permeable Paving Range

Hanson Building Products has recognised potential future demand for permeable pavements (including 'water harvesting' options) resulting from increased urbanisation, higher stormwater 'run off' volumes and velocities and decreased water quality. In addition, some areas are experiencing increased drought conditions with reduction in available water.

Combined with our range of ECOLOC and ECOTRIHEX permeable pavers, Hanson identified a key aspect of being able to provide 'water harvesting' options is supply of suitably graded structural base aggregates with sufficient 'voids' to store water. Working with our quarry division to produce these aggregates, combined with Department of Main Roads testing has resulted in a range of pavers and aggregates to meet future customer demands.

Contact your nearest Hanson Building Products sales office for details on 1300 365 565.



[Return to top](#)

## ENVIROSPEC News



**ENVIROSPEC**  
THE ENVIRONMENTAL DIVISION OF ELECTRONIC BLUEPRINT

[ENVIROSPEC](#) is committed to sustainable building construction and operation.

We provide assessments and specifications for sustainable building products, determined in the context of the Building Regulations and the Protocol: Sustainability Specifications, Criteria and Compliance for Australian Building Products ([Download Protocol](#)).

ENVIROSPEC and CMS are proud to present the 2008 ESSENTIAL **FREE** SEMINAR SERIES:

### **MARKETING IN THE GREEN DECADE**

- Sustainability
- CodeMark
- Electronic Specifications

Who: Senior Marketing Managers

What: Building Products

Why: In the green decade our building practices will change dramatically and be dictated by:

- More regulation
- Tighter sustainability stringency
- Demand for fast access to accurate technically sound product information.

When: (Click link to download Invitation)

#### **Sydney**

[August, Tues 12](#)

[October, Tues 14](#)

#### **Brisbane**

[October, Wed 15](#)

#### **Melbourne**

[August, Thurs 14](#)

Register: With limited spaces available, be quick to get in and book your seat by registering [here](#). (Adobe® Reader® 9 required for online registration. [Download Adobe® Reader®](#))

Alternatively, register your interest by calling the Electronic Blueprint office on (02) 4360 2255.

This workshop brings two of the leading building industry professionals together. Rod Johnston, (Chairman of the Electronic Blueprint and engineering representative on the ABCB Building Codes Committee), will identify sustainability features of many building products and how to exploit this through CodeMark and electronic specifications.

Herve Michoux (Managing Director, Global-Mark) will address how smart product suppliers are taking up the Australian Building Codes Board CodeMark scheme to ensure that their products are specified as complying with the Building Code of Australia.

Current and proposed changes to the Building Code of Australia, a global move towards sustainability and the advent of internet based product specifications have converged to offer exciting marketing techniques for the modern marketing manager.

This year we will bring the seminar to Sydney, Brisbane and, for the first time, Melbourne. Dates will be advertised on the website shortly, however, receive your personal invitation by registering your interest (name & state) at [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au). Number of attendees is limited by venue size.