Electronic Blueprint

August 2005 Bi-Monthly Electronic Update

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The ***Electronic Blueprint*** is a series of building industry design and training publications, including an editable electronic manual for the design and specification of residential construction, provided free-of-charge to architects, consulting engineers and builders. They are encouraged to copy the drawings and specifications into their own contract documents, thus affording building product suppliers a unique opportunity to showcase their products. Click here to view www.electronicblueprint.com.au

Welcome to the ***Electronic Blueprint*** Bi-monthly Electronic Update, providing Architects, Engineers and Builders with up-to-date information about changes in the building industry.

- **Feature Articles**
  Architects - What is happening to the Energy Efficiency Regulations?
  Engineers - What is happening to the Earthquake Loading Standard?
  Builders - What is happening to the Australian Standards for Masonry?

- **Changes to Australian Standards**
  This is a list of current Changes to Australian Standards affecting building construction.

- **Forum**
  The Forum provides an opportunity for Architects, Engineers and Builders to raise questions and voice comment on technical matters. ***Electronic Blueprint*** will forward comments to the relevant Technical Committees of Standards Australia for consideration.

- **Distance Learning Packages**
  The ***Electronic Blueprint*** Distance Learning Packages provide Architects, Engineers and Builders with the opportunity to upgrade their Continuing Professional Development and obtain the required CPD points.

- **Product Directory**
  The Product Directory enables specifiers and purchasers to quickly access a list of building products that comply with the specific requirements of the ***Electronic Blueprint.***

- ***Electronic Blueprint*** **Section Update**
  In this issue: A complete update of ***Electronic Blueprint*** Section 12 – Masonry, with all relevant modifications to specifications, supplied as a Microsoft Word document for direct addition to your existing specifications and files. Click here to open.

We hope you find this to be a useful and informative service and welcome your comments and feedback, either directly or via the feedback section at the end of the newsletter.

Rod Johnston
Principal Author

Karen Bloomfield
Specification Manager

We respect your privacy. If you do not wish to receive future up-dates, click here.

Architects - What is happening to the Energy Efficiency Regulations?

There is increasing emphasis on designing buildings to save heating and cooling energy, and thus reduce greenhouse gas production. In response, the Building Code of Australia Volumes 1 and 2 specify improved thermal performance criteria, and various DTS (deemed-to-satisfy) forms of construction, including mandatory insulation, consideration of thermal mass, improved glazing and shading, depending on the which of the eight climate zones the building is located. The requirements are being increased to the equivalent of '5 Star' performance in versions of the BCA to be published in May 2005. The ***Electronic Blueprint*** provides details of the forms of construction that satisfy the DTS requirements.

The main factors influencing good thermal design are as follows.

- Provide adequate solar access in cold climates. The building should be oriented such that the warmth can be harnessed in winter, and cooling breezes captured in summer.

- For warm areas, large eaves, verandas, sun-shades and heavy curtains prevent sunshine from entering and overheating a building during hot weather. Good ventilation and light-coloured roofs assist the summer cooling process.

- For temperate and cool areas, north-facing windows permit the entry of winter sun, while correctly proportioned eaves restrict the entry of summer sun. Properly sealed doors and windows allow cross-ventilation in summer and restrict air and heat leakage in winter.

- The inclusion of roof and ceiling insulation, together with wall and floor insulation in some circumstances, will limit heat flows to and from the building. This is further discussed below.

- The thermal mass of masonry or similar walls, concrete floors and tiled roofs will act as a dampener to heat flows.

Designers have, at their disposal, two main types of thermal performance design tools:

1. Simulation Software
   There are now a number of computer simulation programs recognised in the Building Code of Australia –
   - NatHERS Simulation package based on the Cheenath engine
   - BERS Simulation package based on the Cheenath engine
   - First Rate Correlation package besed on NatHERS
   - AccuRATE Second generation simulation package currently under development

2. Deemed-to-Satisfy Provisions
   These are details and forms of construction that are deemed to meet the objectives of the Building Code of Australia or relevant State Regulations. They include:
   - BASIX in NSW
   - BCA details in some states

The ***Electronic Blueprint*** provides data on the thermal resistance and thermal mass of the particular forms of construction. This may be used in the various simulation packages used to analyse the thermal performance of different structures.

For further information on this topic, or for relevant Continuing Professional Development Distance Learning Packages (suitable for CPD points), please contact ***Electronic Blueprint*** by email info@electronicblueprint.com.au.

Engineers - What is happening to the Earthquake Loading Standard?

Since 2002, Standards Australia has published a series of new loading standards, AS/NZS 1170 Parts 0, 1, 2 and 3. The final part, AS 1170.4 *Earthquake actions in Australia*, has now passed the technical committee stages of Standards Australia, and is expected to be published later in the year.

The new Standard offers alternative methods of determining the horizontal earthquake loads acting on a building, taking into account building importance, probability of exceedance of earthquake loads, ductility, structural performance, subsoil class and period of vibration.

1. Using AS 1170.0 and the BCA, determine the acceptable annual probability of exceedance for earthquake loads for the particular building Importance. Using Table 3.1, determine the appropriate Probability Factor, k_p. For example, for Earthquake Load acting on a building of Importance Level 2, the design event for safety has an annual probability of exceedance of 1 : 500 and $k_p = 1.0$.

2. Using Section 3, determine the Hazard Factor, z, for the particular location. For example, in Hobart z = 0.03, in Brisbane z = 0.05, in Sydney, Melbourne and Canberra z = 0.8, in Perth z = 0.09, in Adelaide z = 0.10 and in Newcastle z = 0.11.

3. If the structure meets the specified limitations for domestic structures (housing) with a height not greater than 8.5 m, use Appendix A to determine any design and/or detailing requirements. Otherwise proceed as below.

4. Using Section 4, determine the Site Subsoil Class.
   A = Strong rock, B = Rock, C = Shallow soil, D = Deep or soft soil, E = Very soft soil.

5. Using Section 2, including Table 2.1, determine the appropriate Earthquake Design Category (EDC). This will depend on Hazard Factor (location), Site Subsoil Class, Height and Importance.

6. For EDC I, use Clauses 5.2 and 5.3 to determine base shear and horizontal forces up the building, which are taken as 10% of the seismic weight, W_i, at the particular level.

7. For EDC II, use Clauses 5.2 and 5.3 and Section 6 to determine the horizontal forces by static analysis. This considers Probability Factor, k_p , Hazard Factor, z, Ductility, μ, Structural Performance Factor, S_p, and Spectral Shape Factor, $C_1(T)$, which depends on Sub Soil Class and period of vibration.

8. For EDC III, use Clauses 5.2 and 5.3 and Section 7 to carry out a dynamic analysis to determine the horizontal forces.

9. Using Section 8 where appropriate, determine the earthquake forces on the Parts (those members that are not part of the seismic force resisting system)

The ***Electronic Blueprint*** provides a Distance Learning Package, explaining the features of AS 1170.4 and it affect on various forms of construction. Over the next few months, guides and manuals will be produced dealing with the determination of earthquake loads for particular applications.

For further information on this topic, or for relevant Continuing Professional Development Distance Learning Packages (suitable for CPD points), please contact ***Electronic Blueprint*** by email info@electronicblueprint.com.au.

Builders - What is happening to Australian Standards for Masonry?

Are Builders aware that all mortars deemed-to-satisfy under AS 3700 Tables 10.1 and 12.1 must contain prescribed quantities of either lime or methyl-cellulose water thickener. Methyl cellulose water thickener is quite different from the commonly available air entraining agents. Failure to use the prescribed mixes places both the Bricklayer/Blocklayer and the Builder at risk of litigation. There are several recorded cases of such litigation (some resulting in remedial works) that arise from a simple failure to understand the difference between air-antraining workability agent and methyl-cellulose water thickener. The ***Electronic Blueprint*** contains a description of both and appropriate specifications.

The following Australian and Australia/New Zealand Standards and Building Regulations, that affect the use of masonry, are currently being revised.

Standard	Description	Status
AS/NZS 4456.0-19	Test methods for masonry units, pavers and flags	Published
AS/NZS 4455.1	Manufacture of masonry units This standard revises the manufacturing requirments, but stops short of providing specifications for masony unit strengths and other properties. For these requirements, it is recommended that Designers, Specifiers, Purchasers and Builders consult the ***Electronic Blueprint.***	Near completion
AS 4773.1	Design of masonry for small buildings This will be based on the current AS 3700 Secton 12 and will provide a simplified design standard for houses and similar small masonry buildings.	Proposed
AS 4773	Detailing of masonry for small buildings This provides details and construction requirments for houses and similar small buildings. The ***Electronic Blueprint*** provides “CAD-friendly” details based on this standard.	Near completion
AS 3700 Amd 3	Amendment covering earthquake design and durability. The ***Electronic Blueprint*** Distance Learning Packages explain the effect of this amendment.	Completed
AS 3700	Major revision	Proposed
BCA Vol 1	Class 2-9 Buildings – Increases in the thermal efficiency of Class 2, 3 & 4 buildings to 5 Star and new thermal requirements for Class 5 to 9 Buildings. The ***Electronic Blueprint*** provides suitable masonry/insulation details and CPD Distance Learning Packages.	To be introduced May 2006
BCA Vol 2	Class 1 & 10 Buildings (including Housing) - Increases in the thermal efficiency to 5 Star. The ***Electronic Blueprint*** provides suitable information on the assessment process and CPD Distance Learning Packages.	To be introduced May 2006

During the next twelve months, the standards will be finalised and published. Suitable CAD details and specifications and will prepared.

For further information on this topic, or for relevant Continuing Professional Development Distance Learning Packages (suitable for CPD points), please contact ***Electronic Blueprint*** by email info@electronicblueprint.com.au.

Changes to Australian Standards

New Standard	Superseded Standard
AS/NZS 4357.0:2005 Structural laminated veneer lumber -Specifications	AS/NZS 4357:1995 Structural laminated veneer lumber - Specifications
AS 2150-2005 Hot mix asphalt – A guide to good practice	AS 2357-1980 Mineral fillers for asphalt
AS 2293.1-2005 Emergency escape lighting and exit signs for buildings – System design, installation and operation	AS 2293.1-1998 Emergency escape lighting and exit signs for buildings – System design, installation and operation
AS 2293.3-2005 Emergency escape lighting and exit signs for buildings – Emergency escape luminaries and exit signs	AS 2293.3-1995 Emergency escape lighting and exit signs for buildings – Emergency escape luminaries and exit signs
ATS 5200.052 – 2005 Technical specification for plumbing and drainage products – Metallic-bodied inlet pressure control valves greater than DN 50	
ATS 5200.012 – 2005 Technical specification for plumbing and drainage products – In-line valves for use in plumbing water supply systems – Miscellaneous types metallic and non-metallic	
ATS 5200.471 – 2005 Technical specification for plumbing and drainage products – Stainless steel tubes and mechanical compression fittings for pressure applications – Alternative systems	
HB 124 – 2005 Design and Construction of Concrete Masonry Buildings	HB 124 – 2000 HB 237 – 2000

These changes are reflected in the next version of the ***Electronic Blueprint*** , which will be distributed shortly. For more information on changes to Australian Standards, visit SAI Global at www.standards.com.au.

Forum

The Forum provides an opportunity for Architects, Engineers and Builders to raise questions and voice comment on technical matters. ***Electronic Blueprint*** will circulate the comments electronically, and will, where appropriate, communicate them to the relevant Technical Committees of Standards Australia for consideration. Names will not be published unless requested by the writer. The comments and questions raised in this Forum are not necessarily those of the Electronic Blueprint or its staff. Where appropriate Editor's comments have been added.

Bricklayer/Stonemason from the Hunter Valley, NSW says:

> **Fire-clay should not be banned from the masonry standard. We use it all the time in the Hunter Valley. Lime erodes galvanized steel. All walls ties used should be stainless steel when using lime.**
>
> Editor's note: All galvanized steel components should be passivated by the manufacturer to prevent reaction with the cement and lime in mortar. AS 3700 makes provision for requiring stainless steel ties in some circumstances. Standards Australia is currently considering options for permitting small amounts of fire-clay to be used in some circumstances but this has not yet been introduced into AS 3700.

Engineer from Sydney, NSW asks:

> **Will the new fire provisions of the proposed AS 3600 (Concrete structures) result in increased width of blade columns in the basement car parks of most buildings?**

Milosh Obradovic BArch, Site Studio *Central Coast, NSW says:*

> **I would like to challenge the building industry to remember their responsibility towards the environment they depend on for raw materials. They are responsible for the built environment we all have to endure for generations to come as well as the environment that is harvested or mined to power the building industry. Although environmental sustainability is on the agenda, it still seems to be only a small niche of alternatives, often more expensive products and services. Australian patents and research often end up being manufactured products overseas, eventually sold back here at exclusive prices. Environmentally sustainable building practices will probably be incorporated as material selection guidelines in the BCA in the future (not only ventilation and sunlight), to reverse practices which science has already proven to be detrimental, i.e. plantations and site clearing create deserts (the Sahara or Western QSL), new buildings emit toxic gases, more coal is burned indirectly for the building industry as the end user, than any other. However this will never happen if the building trades and professions do not inform themselves about the impacts their industry has on the rest of the population, and take on the environmental responsibilities which come with building.**

To add you comments and questions, click here, and fill in the Contact Form. Space providing, your comments will be published in the next Bi-monthly Up-date.

Distance Learning Packages

The ***Electronic Blueprint*** Distance Learning Packages provide Architects, Engineers and Builders the opportunity to upgrade their Continuing Professional Development and obtain the required CPD points. The following list is current at August 2005.
Please contact us for further information at sales@electronicblueprint.com.au

Description of Type Codes
Module Type Codes are made up of the module type and level of complexity.

Modules are broken into three types:
I signifies 'Inspection Modules' – These provide details, specifications and checklists suitable for commonly required materials and construction inspections.
A signifies 'Architectural Modules' – These provide information of a descriptive nature on building design, detailing and construction.
E signifies 'Engineering Modules' – These generally involve design calculations and engineering detailing.

Modules are rated by the following levels of complexity:

- Basic **(b)** The course material is mostly descriptive, explaining regulations, standards, specifications and the like.
- Moderate **(m)** The course material extends the basic material, providing an in-depth knowledge of the subject.
- Advanced **(ad)** The course provides instruction in engineering issues, including in-depth calculation.

Use the following tables to work out individual module cost and CPD points gained, e.g. *Design & Construction of Earth Retaining Structures* with type code **Am** (Architectural / Moderate) costs $200 and gains 12 CPD points upon successful completion.

Module Costs $

	I	A	E
b	$100		
m		$200	$300
ad		$300	$400

CPD Points Gained

	I	A	E
b	6		
m		12	16
ad		18	24

Please note that type **I** modules may only be purchased alongside an A or E module

Format
Each presentation is a Power Point presentation on CD, complete with audio facility.
Support facilities include the ***Electronic Blueprint*** CD & web site, and email communication with your tutor.

CPD Point Accrual
Many of these courses have been approved by the NSW Office of Fair Trading (OFT) for the accrual of CPD points. CPD points have been based on the overall completion time for the module or package**.** In order to receive your Certificate of Completion and CPD points, you must complete and return the "Open Book" assignment, which is set out at the end of the presentation and addresses key points of learning. Points awarded for each unit have been based on 5 points per hour for Builders (NSW). Currently, Architects and Engineers can work out their CPD Points accrued based on 2 points per hour for Architects, and 'hour-for- hour', for Engineers.

Modules Available – August 2005

OFT Approval Code	Section	Type Code	Module Content
	0 – General Design Considerations	**Am**	Embodied Energy and Sustainability
		Am	Colour, Solar Absorptance & Reflectivity
Rpa5fl97		**Am**	Issues in Sustainability – Residential Construction
Rpa5zy99		**Em**	AS 1170.4 *Earthquake loadings*
	1 – Site Establishment	**Ib**	Inspections & Tests
		Am	Site Inspection General
	2 – Earthworks & Drainage	**Ib**	Inspections & Tests
		Am	Earthworks & Drainage General
	3 – Concrete	**Ib**	Inspections & Tests
		Am	Concrete General
		Em	Concrete Advanced
	4 – Retaining Walls	**Ib**	Inspections & Tests
Rpa5zy99		**Am**	Design & Construction of Earth Retaining Structures
Rpa5zy99		**Em**	Background & use of AS4678 *Earth retaining structures*
Rpa5zy99		**Em**	Design of Segmental Concrete Gravity Retaining Walls
Rpa5zy99		**Em**	Design of Segmental Concrete Reinforced Soils Retaining Walls
Rpa5zy99		**Em**	Design of Reinforced Concrete Masonry Cantilever Retaining Walls
	5 – Drainage & Plumbing	**Ib**	Inspections & Tests
		Am	Drainage & Plumbing General
	6 – Windows, Doors & Glazing	**Ib**	Inspections & Tests
		Am	Windows, Doors & Glazing General
	7 – Structural Steel Work	**Ib**	Inspections & Tests
		Am	Structural Steel Work General
	8 – Wall, Roof & Floor Framing	**Ib**	Inspections & Tests
		Am	Wall, Roof & Floor Framing General
	9 – Carpentry & Joinery	**Ib**	Inspections & Tests
		Am	Carpentry & Joinery General
	10 – Roof Cladding	**Ib**	Inspections & Tests
		Am	Roof Cladding General
	11 – Roof Plumbing	**Ib**	Inspections & Tests
		Am	Roof Plumbing General
	12 - Masonry	**Ib**	Inspections & Tests
Rpa5zy99		**Am**	Design Considerations
Rpa5zy99		**Am**	Acoustic Performance of Masonry
Rpa5zy99		**Am**	Residential Masonry Details
		Am	Salt Damp in Concrete & Masonry
Rpa5zy99		**Am**	Sustainability of Clay Brickwork
Rpa5zy99		**Am**	Thermal Performance of Masonry
Rpa5zy99		**Em**	Residential Masonry Control of Cracking

Rpa5zy99		**Em**	Masonry Design for AS 1170.4 *Earthquake Loadings*
		Em	Compressive Strength & Vertical Load
		Em	Fire Performance of Masonry
Rpa5zy99		**Em**	House Design to AS 3700
Rpa5zy99		**Em**	Multi – Unit Design
Rpa5zy99		**Em**	Reinforced Concrete Masonry Houses
	13 – Ceiling & Wall Lining	**Ib**	Inspections & Tests
		Am	Ceiling & Wall Lining General
	14 – Insulation	**Ib**	Inspections & Tests
Rpa5fl97		**Am**	Specifications for Insulated Roof, Wall & Floor Systems
Rpa5fl97		**Am**	Thermal Insulation of Buildings
	15 – Floor & Wall Tiling	**Ib**	Inspections & Tests
		Am	Tiling General
Rpa5wh73		**Am**	Issues in Measuring Slip Resistance
Rpa5wh73		**Am**	Measuring Slip Resistance of New Pedestrian Surfaces to AS/NZS 4586
Rpa5wh73		**Am**	Measuring Slip Resistance of Existing Pedestrian Surfaces to AS/NZS 4663
Rpa5wh73		**Am**	Slip Resistance Specifications
Rpa5wh73		**Am**	Maintaining Slip Resistance
	16 – Electrical Installation	**Ib**	Inspections & Tests
		Am	Electrical Installation General
	17 – Kitchen	**Ib**	Inspections & Tests
		Am	Kitchen General
	18 – Vehicular Doors	**Ib**	Inspections & Tests
		Am	Vehicular Doors General
	19 – Painting	**Ib**	Inspections & Tests
		Am	Painting General
	20 – Resilient Floor Coverings	**Ib**	Inspections & Tests
		Am	Resilient Floor Coverings General
	21 – Carpets & Soft Furnishings	**Ib**	Inspections & Tests
		Am	Carpets & Soft Furnishings General
	22 – Windows & Door Shutters	**Ib**	Inspections & Tests
		Am	Windows & Door Shutters General
	23 – Mechanical Ventilation & Services	**Ib**	Inspections & Tests
		Am	Mechanical Ventilation & Services General
	24 – Cleaning (Package)	**Ib**	Inspections & Tests
Rpa5zy99	(Package)	**Am**	Occurrence of Efflorescence
Rpa5zy99			Prevention of Efflorescence
Rpa5zy99			Removing Efflorescence
Rpa5zy99			High Pressure Water Jet Cleaning
Rpa5zy99			Cleaning Pedestrian Surfaces
	25 – Landscaping	**Ib**	Inspections & Tests
		Am	Landscaping General
	26 – Fencing	**Ib**	Inspections & Tests
		Am	Fencing General

	27 - Paving	**Ib**	Inspections & Tests
		Am	Paving General
		Am	Issues in Measuring Slip Resistance
Rpa5wh73		**Am**	Measuring Slip Resistance of New Pedestrian Surfaces to AS/NZS 4586
Rpa5wh73		**Am**	Measuring Slip Resistance of Existing Pedestrian Surfaces to AS/NZS 4663
Rpa5wh73		**Am**	Slip Resistance Specifications
Rpa5wh73		**Am**	Maintaining Slip Resistance
Rpa5wh73	(Package)	**Ead**	Design of Residential Pavements using AS 3727
Rpa5wh73			Specification & Details for Concrete Residential Pavements
Rpa5wh73			Specification & Details for Asphalt Residential Pavements
Rpa5wh73			Specification & Details for Bitumen Spray Seal Residential Pavements
Rpa5wh73			Specification & Details for Segmental Residential Pavements
Rpa5wh73			Design & Specification of Permeable Pavements
	28 – Metalwork & Balustrades	**Ib**	Inspections & Tests
		Am	Metalwork & Balustrades General

Please click here for an order form .

Product Directory

The Product Directory enables specifiers and purchasers to quickly access a list of building products that comply with the specific requirements of the ***Electronic Blueprint.***

Electronic Blueprint Section	Product	Supplier	Link
3 Concrete	Permanent formwork of cold-rolled steel complying with AS 1538 and AS 1397	Stramit Building Products	www.stramit.com.au
4 Retaining Walls	Retaining wall systems to meet the requirements of AS 4678 *Earth retaining structures*	C&M Brick	www.cmbrick.com.au
		Hanson Masonry	www.hanson.biz
		Island Block and Paving Pty Ltd	www.islandblock-paving.com.au
	Water thickener mortar additives to ensure compliance with AS 3700 *Masonry structures*	A.V.Syntec Pty Ltd	www.avsyntec.com.au
	Ground anchor systems to comply with AS 4678 *Earth retaining structures*	Ancor Loc Earth Systems Australia Pty Ltd	www.ancorloc.com.au
6 Windows, Doors, Glazing	Timber doors and windows in accordance with AS 2658, AS 2687, AS 2047 and AS 1288	Canterbury Windows and Doors	www.canterburywindows.com.au
7 Structural Steel Work	Cold-rolled galvanised steel purlins, facias, bridging and accessories zinc coated and complying with AS 4600	Stramit Building Products	www.stramit.com.au
	Steel components to resist Wind and Earthquake Loads to AS/NZS 1170.2 and AS 1170.4	Design Detail and Deliver Pty Ltd	sales@electronicblueprint.com.au
8 Framing	Cold-rolled galvanised steel wall and floor framing and accessories complying with AS 1397 and AS 4600	Stramit Building Products	www.stramit.com.au
10 Roof Cladding	Adhesive mechanical fastening for ridgecaps for use in cyclonic areas and tested in accordance with AS 2050	Edmonds Pty Ltd	www.edmonds.com.au
	Sheet steel metal roof and wall cladding complying with AS 1397	Stramit Building Products	www.stramit.com.au
11 Roof Plumbing	Metal rainwater goods complying with AS 2179.1	Stramit Building Products	www.stramit.com.au

12 Masonry	Products to repair cracked or damaged brickwork	Helifix (Australia) Pty Ltd	www.helifix.com.au
	Water thickener mortar additives to ensure compliance with AS 3700 Masonry structures standard	A.V.Syntec Pty Ltd	www.avsyntec.com.au
	Concrete block systems, including insulated blocks and acoustic block systems, to meet the BCA requirements	C&M Brick	www.cmbrick.com.au
		Hanson Masonry	www.hanson.biz
		Island Block and Paving Pty Ltd	www.islandblock-paving.com.au
	Wall ties for all environments, including stainless steel cavity ties for use in Marine (R3) and Severe Marine (R4) environments	Abey (Australia) Pty Ltd	www.abey.com.au
	Resilient ties to comply with BCA Vol 1&2 for the separation of leaves of cavity walls to eliminate the transmission of impact sound	Design Detail & Deliver Pty Ltd	sales@electronicblueprint.com.au
	Energy Efficient Masonry Housing Systems	Hanson Masonry	www.hanson.biz
	Steel mullions for brickwork and blockwork to provide wind and earthquake resistance to the new AS/NZS 1170.2 and AS 1170.4	Design Detail & Deliver Pty Ltd	sales@electronicblueprint.com.au
	Water repellent masonry blocks	C&M Brick	www.cmbrick.com.au
		Hanson Masonry	www.hanson.biz
		Island Block and Paving Pty Ltd	www.islandblock-paving.com.au
23 Mechanical Ventilation & Services	Exhaust fans providing mechanical ventilation of bathrooms, toilets and laundries in accordance with AS 1668.2	Edmonds Pty Ltd	www.edmonds.com.au
	Active sub-floor ventilation for areas of high humidity to aid in the reduction of termite activity and growth of mould and fungi	Edmonds Pty Ltd	www.edmonds.com.au
27 Paving	Segmental pavers for roadways, driveways, gardens and pool surrounds to meet AS 3727 *Residential pavements*	C&M Brick	www.cmbrick.com.au
		Hanson Masonry	www.hanson.biz
		Island Block and Paving Pty Ltd	www.islandblock-paving.com.au
	Permeable pavements to reduce storm water runoff in compliance with Local Government requirements	C&M Brick	www.cmbrick.com.au
		Hanson Masonry	www.hanson.biz

PRESS RELEASE

Heritage Form Block

C&M take their mortarless technology to a new level with the launch of Heritage Form Block.

Heritage Form Block is supplied in one colour – Bondi Blend. This is a careful blending of two natural golden tones that perfectly replicates our Australian sun drenched sandstone.

Heritage Form Block is supplied in two surface finishes – Split-faced or Pitched.

Heritage Form Block is a complete building system and the components include a standard block, a half-length block, a corner block, an end block, a half-length end block and a half-length corner block.

Once the base course has been laid the construction of Heritage Form Block is as fast, clean and efficient as the standard grey Form Block. The blocks are held in position with the unique patented Bridge and vertical and horizontal reinforcement bars before being core filled.

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VICTORIA	03 9375 8500	NEW SOUTH WALES	02 9822 6822
QUEENSLAND	07 5571 6644	SOUTH AUSTRALLIA	08 8304 2323

PITCHED FACE

SPLIT FACE

Electronic Blueprint Bi-Monthly Update Feedback Section

We hope you have found use of the information contained within this first ***Electronic Blueprint*** Bi-monthly Electronic Update.
Please help us to ensure our update is meeting your industry requirements by spending a moment to fill in our Feedback Form .

Thank you.

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