



ELECTRONIC BLUEPRINT UPDATE

Architects, Engineers & Builders

Dear Building Professional

Thank you for receiving this bi-monthly ELECTRONIC BLUEPRINT, intended to keep architects, engineers, builders, suppliers, specifiers and certifiers informed of changes to the building regulations and standards, appropriate specifications and drawing details, and a range of building products that meet the particular requirements. Further detailed specifications and information are provided free-of-charge from our website, www.electronicblueprint.com.au. Please consult the website or contact us on rod@electronicblueprint.com.au

Sincerely,

Rod Johnston – Principal Author

We are conscious that professionals receive large quantities of technical information, and we appreciate your receiving these newsletters (six per year). To cease receiving these newsletters please email us at rod@electronicblueprint.com.au. Email addresses are never sold or used for reasons other than circulating these **ELECTRONIC BLUEPRINT** Updates.

January 09

Architects, Engineers & Builders – Preventing Cyclone, Earthquake & Tsunami Damage to Houses in the Asia-Pacific Region

Electronic Blueprint is proud to support the voluntary work of Partner Housing Australasia (Building) Incorporated, a charitable organisation that provides pro-bono architectural, engineering and building services to developing communities throughout the Asia-Pacific region. This bi-monthly edition of the Electronic Update honours the work of the many building professionals engaged in this voluntary work.

What is Partner Housing?

Partner Housing Australasia (Building) Incorporated has provided affordable housing since its incorporation in September 1989 (trading until 2005 as Habitat for Humanity NSW Inc.) The first overseas assignment, in 2005, involved major design and construction audits of tsunami reconstruction in Thailand, Indonesia, India and Sri Lanka, commissioned by a major international NGO carrying out the construction work. Since then, Partner Housing has provided extensive assistance for building projects in Solomon Islands, Kiribati, Timor Leste and other countries. In Australia, Partner Housing Australasia (Building) Incorporated has constructed and provided finance for 16 homes for low income families; and assisted our sister organisation [Partner Housing Australasia (Regional) Incorporated] in the construction of another five.



House Reconstruction – Ache (Indonesia)



House Reconstruction, Villupurum (India)



Septic & Effluent Tanks Preu-Teo (Thailand)



House Reconstruction, Galle (Sri Lanka)

Mobilising Volunteer Professionals

Large charitable organisations seeking to raise substantial quantities of money increasingly rely on paid staff to conduct professional fund-raising campaigns. However, Partner Housing has remained clearly focussed on our mission as a volunteer-based organisation, concentrating our activities on the provision of pro-bono services, rather than the expenditure of major finance. Our major role is matching volunteers with the right skills to specific building projects in Australia and overseas. Notwithstanding, our organisation still needs to fund on-going project supervision work and the purchase of building materials, donations are most welcome.

Project Report

Partner Housing offers “Pro-Bono Design & Help-Desk Services” and “Design & Supervision” programs to other organisations in developing countries. We offer to fund, train and monitor building supervisors, whilst supplying them with professionally produced design and documentation for a range of housing.

Client or Partner NGO Year and Status	Project and activity
Village Technology Trust 2008 – Current	Solomon Islands House Bracing. Refer to detailed proposal.
Republic of Kiribati 2008 - Current	Design of replacement Butoa Bridge (North Tarawa) Design completed by Arup.
Emergency Architects 2008 - Current	Solomon Islands school reconstruction in Gizo Design calculations and advice provided on roof trusses.

	Help desk service under way.
Partner Housing Regional 2008 - Current	Frame check and certification of transportable affordable house in Airids (Sydney)
Kiribati Public Works 2008 - Completed	Design check of sewage disposal for Tab North Hospital.
General - 2008 - Stage 1 complete	Development of water harvesting and septic disposal guidelines and on web site.
HFHI-AP Timor Leste 2007- Complete	Support for Habitat Resource Centre (Dili) Architectural & engineering drawings
HFHI-AP Mongolia 2007- Complete	Standard affordable houses – Preparations of architectural drawings
HFHA (Solomon Islands) 2007 - Complete	Prepare proposals for SI Government for repair and reconstruction of tsunami affected damage in Gizo, Solomon Islands
Kiribati Public Works 2007 - Complete	Drawings and specifications for two copra sheds for villages in outlying islands
HFHI-AP Timor Leste 2006 - Complete	Technical support for new concrete block system for housing. Contact: Ian Morecombe
HFHI-AP Timor Leste 2006 - Complete	Support for Habitat Resource Centre – Dili Training Material Contact: Ian Morecombe
Emergency Architects 2006 - Complete	Pakistan Girls' School – Engineering advice given
HFHI-AP India 2005 - Complete	Technical Audit of post-tsunami house reconstruction. Management Audit reconstruction organization.
HFHI-AP Indonesia 2005 - Complete	Technical Audit of post-tsunami house reconstruction. Management Audit reconstruction organization.
HFHI-AP Thailand 2005 - Complete	Technical Audit of post-tsunami house reconstruction. Management Audit reconstruction organization.
HFHI-AP Sri Lanka 2005 - Complete	Technical Audit of post-tsunami house reconstruction. Management Audit reconstruction organization.



Tab North Hospital (Kiribati)



Site of Sewage Outfall, Tab North Hospital

House Safety – Asia-Pacific Region

Partner Housing is about to undertake a major long-term project to improve the safety of houses in areas prone to earthquakes, tsunamis and cyclones. Commencing with a project in the Solomon Islands and then moving to Papua New Guinea, Partner Housing will provide:

- Funds for the purchase and delivery of materials for bracing sets;
- Funds for the employment of local building supervisors;
- Pro-bono design for retrofitting bracing and anchorages;
- Training packages and mentoring for local supervisors.



The Problem – Tsunami Damage (Solomon Islands) The Solution – Bracing (Solomon Islands)

Pro-Bono Technical Assistance and Mentoring

Partner Housing offers “Design & Supervision” programs to other major NGOs (non-government organisations) that are undertaking “Disaster-Relief” housing and “Save & Build” housing programs” in developing countries. We offer to fund, train and monitor building supervisors in developing countries, whilst supplying them with professionally produced design and documentation for a range of projects. We currently provide pro-bono engineering assistance to the Government of Kiribati.

To Provide Professional Assistance

If you are an architect, engineer or builder, and you would like to assist our neighbours in less developed countries by providing pro-bono professional assistance; or if you would like further information please email rod@electronicblueprint.com.au

To Make Donation

Please complete and return the slip below, together with your donation. This will be signed and returned to you by post as your official receipt. Donations over \$ 2.00 for work in Australia are tax deductible.

Partner Housing Australasia (Building) Incorporated		ABN:88722057429 CFN:15429		
PO Box 702, Pennant Hills NSW 1715				
Arthur Gray (Secretary)		+61 2 9484 6526		arthurgray@hotmail.com
Amount	\$	\$	\$	\$
Purpose	Unspecified	Australian projects only	Any Asia-Pacific project	Nominated Asia-Pacific projects
Received From				
Address				
Signature acknowledging receipt			Date:	Receipt No:

Distance Learning Training for Builders, Designers, Principal Certifiers, Architects, Engineers

This two-year structured distance learning program (delivered in 12 modules), has been written and compiled to ensure practical, hands-on and relevant learning outcomes with a focus on:

- Design considerations
- Relevant standards and regulations
- Problems and solutions
- Specifications
- Suitable products
- Site control checklists
- Sustainability

The package consists of comprehensive notes, specifications, details and inspection schedules with full text, voice-over and illustrations on a CD ROM. The trainee may log onto the Electronic Blueprint website for additional information during the training session if preferred. The trainee may communicate with an expert tutor for further information, and must submit an assignment by on completion. This will be assessed by the tutor.

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

For further information in training packages, <http://www.electronicblueprint.com.au/training.html> or info@electronicblueprint.com.au .

Product Directory

Set out below are the supplier, whose product are listed in the Electronic Blueprint specification.
For further details on each product, <http://www.electronicblueprint.com.au/proddirectoryhome.html>

Adbri Masonry (C&M Brick Pty Ltd)	richard.martin@adbri.com.au
Silvan Australia	elizabeth@silvanaust.com
Alpha Coating Solutions	Denis.A@alphacoat.com.au
Astec Paints	peter@asteccoat.com.au
Nanovations	info@nanovations.com.au
Concrete Colour Systems	sarita@riversands.com.au
Connolly Key Joints	dsmith@connollykeyjoint.com
Duralok	steve@durlok.com.au
Elmich Australia	david.oliver@elmich.com
Ford Timbers	stuartmadill@fordtimbers.com.au
One Stop Building and Hardware	gina@osbh.com.au
Resene	gael@resene.com.au
Timbercrete	peter@timbercrete.com.au
Viridian	pcocker@csr.com.au
RAVEN Door & Window	neil.raven@raven.com.au
Root Barrier	rootbarrier@rootbarrier.com.au
Smartflo	billsanderson@smartflo.com.au
Nuplex Construction	stevent@nuplex.com.au
Cultured Stone	nick@cultured-stone.com.au
Fletcher Insulation	jbarnard@insulation.com.au
Matrix Industries	info@matrixindustries.com.au
Stramit Building	george.nickolas@stramit.com.au
Austech t/a Foamular	mnagle@austech.com.au
Adbri Masonry (C&M Brick Pty Ltd)	peter.hurley@adbri.com.au
Helifix (Australia)	sales@helifix.com.au
Origen Australia	choward@enduroshiled.com
Brunswick Sales	robertm@brunswicksales.com.au
Ensyntex Australasia	sbroadbent@ensytex.com
Galvanisers Association	rosemary@agaa.com.au
NRG Greenboard	scott@nrggreebnoard.com
Advanced Concrete	hep@ecobrick.com.au
All Purpose Protection	(can not find this client)
Cossett Industries	Atownsend@cossett.com.au
Glassfence.com	manfred@glassfence.com.au
Matrix Industries	info@matrixindustries.com.au
Pasco	info@pasco.net.au
Rynat Industries	leonapamor@rynat.com
Shamrock Stone Walls	colm@shamrockstonewalls.com
Slop mop Recycling	spraak@ozemail.com.au
Style FLOORing	ian@styleflooring.com.au
Universal Anodisers	anodise@bigpond.com
Skydome Skylight Systems	mbonello@skydome.com.au
Matrix Industries Pty Ltd	info@matrixindustries.com.au
Ellem Centravac	ellem@netSPACE.net.au

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ELECTRONIC BLUEPRINT

49A Parklands Road, Mt Colah NSW 2079, Australia
p: +61 2 4360 2255 f: +61 2 4360 2256

ABN 31 088 338 532 Inc in NSW

w: www.electronicblueprint.com.au
e: info@electronicblueprint.com.au

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