

Robinson, Renee

From: Stan Bryant [stanbryant@bigpond.com]
Sent: Tuesday, 9 August 2011 12:02 PM
To: DCCEE - Residential Disclosure
Subject: Building Certification and Extreme Events
Attachments: RESIDENTIAL ENERGY EFFICIENCY TEAM .doc

Categories: forwarded for the scribe, Green Category

Attached information for the Residential Energy Efficiency Team

Yours Truly

Stan Bryant

Residential Energy Efficiency Team

Buildings and Government Energy Efficiency Branch Department of
Climate Change and Energy Efficiency
GPO Box 854
Canberra ACT 2601.

9 /August /2011

Building Certification and Extreme Events

The ABCB draft VERSION 4, JUNE 2011, page 54, describes different building materials used in flood hazard areas. Cast-in-place concrete housing needs to be included as a choice of building materials to comply with the BCA performance requirements.

New equipment has been developed to produce cast-in-place reinforced concrete housing and residential living green roofs.

Recent wide spread devastation caused by floods, fire, cyclones, earth quakes and climate change have demonstrated urgent reasons for new housing construction to mitigate all extreme events.

Various industry groups have established concrete building standards and the materials to mitigate bush fires, cyclones and earth quakes. Concrete building technology and materials are widely proven with the construction of low and high rise buildings, roads and bridges etc, world wide. Concrete is fire and water resistant and may be used for building structures below flood hazard levels, concrete is capable of mitigating water damage, avoiding moisture traps, deterioration due to contact with flood waters and resists settlement issues whilst drying out and the load bearing concrete walls provide economical support for usable concrete roof slabs and roof-top gardens.

Additional concrete walls provide residential rain water storage and may be economically constructed at the same time as the concrete home, designed to blend neatly with the home appearance and use a minimum of land space.

Insulated concrete walls provide a thermal mass to store and release energy, to assist maintain a comfortable home at the lowest possible cost.

Cost competitive cast-in-place concrete housing and existing construction standards will mitigate all extreme events and may be directed towards building certification processes for all extreme events.

