

concrete

VOLUME 54 ISSUE 3 SEPTEMBER/OCTOBER 2010

Designing Comfortable Homes

2ND EDITION LAUNCHED BY MINISTER
FOR BUILDING AND CONSTRUCTION

2010 Concrete³ Sustainability Awards

SUSTAINABILITY EXCELLENCE RECOGNISED
IN THE PRODUCTION AND USE OF CONCRETE

Swiss Museum Extension

SANDSTONE CONCRETE SCULPTURE MIXES
SELF-ASSERTION WITH INTEGRATION





The **Excellence in Residential Concrete Construction Award** was jointly awarded to Powered Living (North Island) and Buck + Associates, Architects.

Powered Living's (North Island) Waikato residential property was designed to conserve energy through passive solar principles, utilising the thermal mass of concrete in combination with the sun's energy to achieve a 60% reduction in energy requirements compared to similar houses.

Oriented due north to maximize solar gain, the house enables heat transfer from the north to the south via a natural process of thermal heat conduction through building materials. This is a realistic attempt to achieve an attractive, affordable, environmentally designed, and energy efficient house with off the shelf environmental technologies and materials.

◀ Annette Firth representing Powered Living (North Island) collects the joint Excellence in Residential Concrete Construction Award from Rob Gaimster, CCANZ CEO.

Concrete³

The recently completed Tear House in Christchurch was designed by Buck + Associates, Architects to be self-sustaining in terms of space and water heating requirements. This involved adopting a practical balance between thermal mass, glazing, and insulation to minimise the effects of daily and seasonal external temperature swings and solar variability via passive means. The end result is a uniform internal temperature predicted to be no less than 17°C. ▶

In addition to an energy efficient and healthy living space, this predominantly concrete house offers durability and low maintenance, and integrates seamlessly with the surrounding environment.

Ralf Kessel representing Buck + Associates, Architects collects the joint Excellence in Residential Concrete Construction Award from Rob Gaimster, CCANZ CEO.

