

## The Village at UNSW Apartments

<b>Application</b>	Medium Density Residential - Student Accomodation
<b>Client/Owner</b>	University of New South Wales
<b>Specifier</b>	Architectus Sydney
<b>Location</b>	UNSW Kensington Campus, Sydney
<b>Requirements</b>	High thermal inertia for passive performance, speed of construction and Section J compliance.
<b>Product Supplied</b>	THERMOMASS Building Insulation System, 50mm
<b>Completion Date</b>	Jan 2010

The Village Student apartments at the University of New South Wales' Kensington Campus is yet another award-winning , passively designed THERMOMASS project

Designed by Architectus Sydney, the Village is a sustainable, comfortable home for over 1,000 students. This project especially demonstrates the way that concrete can contribute to attractive buildings that complement both the heritage buildings in the vicinity and the natural environment.

The use of the THERMOMASS insulation system for concrete sandwich panels not only hastened the building time, but continues to deliver overall energy savings for the life of the building. The high amount of thermal mass on the inside of the building regulates the temperature on the inside of the building by absorbing and releasing heat energy. With excellent use of ventilation, including vented floors.

The Village can be kept cool in summer and warm in winter while use less energy in achieving the desired temperature.



# K2 Apartments

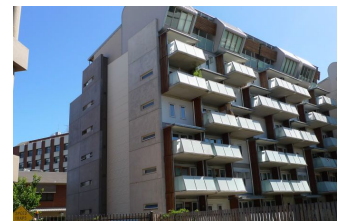
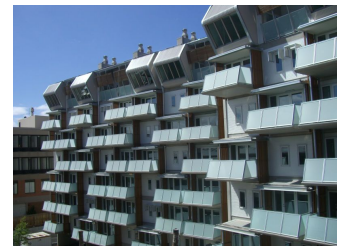
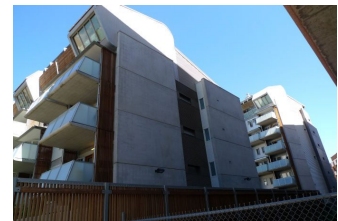
<b>Application</b>	Medium Density Residential - Public Housing
<b>Client/Owner</b>	Department of Human Services, Victoria
<b>Specifier</b>	DesignInc Melbourne
<b>Location</b>	Raleigh Terrace, Windsor, Victoria
<b>Requirements</b>	High thermal inertia for passive performance, speed of construction and Section J compliance.
<b>Product Supplied</b>	THERMOMASS Building Insulation System, 50mm
<b>Completion Date</b>	Jan 2010

The high profile, award winning K2 Apartments in Windsor, in Melbourne's inner south east, remain a benchmark for medium density residential design and construction.

DesignInc Melbourne has utilised the northern aspect of the site to take advantage of the natural elements with passive design principles. Buildings are oriented and arranged so each has sufficient exposure to the northern sun during winter, and smart shading to minimise the effect of radiant heat during summer.

Exposed concrete on the inside walls and ceilings provide significant amounts of mass, which absorbs and releases heat over a day, minimising air temperature fluctuations.

Because the THERMOMASS system insulates the building from the outside, the worst of summer is kept out, and heat is retained during winter. The K2 Apartments in Windsor were quick to build, and remain energy efficient throughout the life of the building.



# Dong Hi Lu Apartments

<b>Application</b>	High Density Residential - Public Housing
<b>Client/Owner</b>	Vanke - China's leading developer
<b>Specifier</b>	Vanke
<b>Location</b>	Tianjin, China
<b>Requirements</b>	Speed of construction and local thermal code compliance.
<b>Product Supplied</b>	THERMOMASS Building Insulation System, 50mm
<b>Completion Date</b>	March 2008

Composite Global's sister company, Beijing Thermomass Building Technologies, is the supplier of The THERMOMASS building insulation system for concrete in Mainland China.

This building in Dong Li Hu District of Tianjin in north-western China, shows the flexibility of concrete in building large scale, high density residential, as well as the universal appeal of superior insulation and efficient building time.

It may surprise many Australians to learn that in many respects, building codes in China, indeed many parts of Asia require a higher environmental standard than those in Australia or the US.

THERMOMASS meets the challenge of these requirements and hence is being specified for more and more projects in northern China, where temperature fluctuations between summer and winter can be up to 60° (-25° - +35°).

In applications where expedient building time and long-term energy efficiency over a very-long-life building are the priority, Vanke, China's leading developer, chooses THERMOMASS.

