

Greencast was given the exclusive license to the patented lightweight precast concrete wall technology

Greencast, the trusted lightweight precast concrete wall manufacturer announced today the National University of Singapore (NUS) and Greencast have signed the worldwide exclusive license agreement for the invention “A Methodology for Optimal Design of Hollow Core Panels Produced by Extrusion Method”. Greencast will be able to commercialize the patented technology to the construction industry.

The invention is currently filed in Singapore (200807160-7; Patent No. 146331) and Indonesia (W00 2008 03384). As a result of a \$1.4million MND research funding by the Building and Construction Authority (BCA), Department of Civil Engineering team led by Professor Wee Tiong Huan, gave birth to a new form of eco-friendly precast concrete wall panels to be used throughout the architecture elements of building construction.



NUS Industry Liaison Office (ILO), a division of the NUS Enterprise was set up in 2002 to be the technology transfer office for the University to foster technology commercialization, industry engagement and partnerships. With the help of NUS ILO, Greencast is now able to be granted an exclusive, non-transferable, personal, revocable for cause, right and license under the Patent to manufacture, use and sell the licensed products. Prior to licensing this technology to Greencast, the patented Compac™ Green Wall system has already been specified for use in many projects in Singapore, including township, schools, residential, commercial, retail and many more.

With a proven wall system that works, Greencast has gained a competitive advantage in the construction industry. NUS is still Greencast's technological partner and further Research and Development (R&D) will be carried out to further improve on the system.

“NUS is encouraged to see the commercialization of this technology, which started its life within a laboratory setting and is now applied to improve building processes, reduce construction costs and save the environment”, said Ms Irene Cheong, Director, NUS Industry Liaison Office.

“This invention relates to a methodology to derive the optimal design of hollow core wall panels produced by extrusion. The optimal design is one in which the panels would be the lightest with the highest stiffness against bending, given the practical constraint to produce it. The lightness is achieved by increased volume of the hollow core which in return further reduces its thermal transfer value. The design also caters for the panel to be densely and uniformly compacted in the extrusion process resulting in a panel with a dense structure. Besides contributing to its bending stiffness, the dense structure also provides a foundation for strong anchorage, increases its resistance against indentation, ingress of water, moisture and water vapor hence enhancing its durability. A series of wall configuration designed by this methodology is also given,” said Professor Wee Tiong Huan.

To learn more about Greencast's patented Compac™ Green Wall Technology, visit www.greencast.com.sg

NUS Enterprise

Established in 2001, NUS Enterprise provides an enterprise dimension to NUS teaching and research that involves the university's students, staff and alumni. NUS Enterprise augments and complements the University's academic programmes and nurtures talents to possess an entrepreneurial and global mind-set. We provide experiential entrepreneurial education, active industry partnerships, comprehensive entrepreneurship support, catalytic entrepreneurship outreach, and being Asia's thought leader in innovation and enterprise, as well as the bridge to industry for our university.

To learn more about NUS Enterprise, visit <http://enterprise.nus.edu.sg/>

About Greencast

Greencast has established itself as a trusted eco-friendly lightweight precast concrete wall specialist assisting multi-national construction companies, renowned architects and, property developers.

A government related company since 2012, Greencast has developed key domain knowledge in non-structural wall elements, providing technologically advanced wall systems to meet challenges of its clients. Greencast is the worldwide exclusive licensee for the Compac™ Green Wall system. BCA and NUS have contributed greatly in the invention to improve building construction while ensuring a sustainable environment.

Capitalizing on this advantage, Greencast has expanded its value proposition to clients with constant Research and Development to meet clients' needs.

To learn more about Greencast, visit www.greencast.com.sg