



ADVERTORIAL

O-Stable Panel System

Perfected by science for a home sweet home

The bungalow at Saujana Impian Country Golf Resort is a true showcase of modern and traditional architecture, and O-Stable Panel System.

The majestic bungalow stood proudly in the midst of Saujana Impian Golf Resort Kajang. The 4-storey structure flowed in layers on the gentle slope, blending perfectly with the surrounding environment, overlooking the beautifully landscaped golf course. With an impressive built-up size of 12,898 sq ft, the bungalow on the hill is a true showcase of O-Stable Panel System.

O-Stable Panel System is a unique prefabrication system, invented in 1999 by local architectural engineer Mr. Khoo Tian, created for versatile usages and easily tailor-made according to the needs of any layout and design required by an architect.

Over the last decade, O-Stable Panel System has undergone extensive research and development (R&D) process, its formulation perfected in line with the company's vision of "quality control that normally dependent on man, in now monitored by the system".

The proven performance of O-Stable Panel System is evident in the construction of thousands of homes and commercial buildings in Malaysia, now with the bungalow at Saujana Impian being the latest addition in the company's portfolio.

THE EPITOME OF MODERN SCIENCE AND ANCIENT GEOMANCY

Drawing from the concept from ancient Chinese geomancy, Mr Khoo Tian believes that "to restore architectural structure of the modern days, it is essential to preserve the best while doing away with the gaudy aspect of the building."

Based on this principle, Mr Khoo Tian developed a construction method, the O-Stable Panel System, whereby a set of flexible fiberglass mould or metal mould can be specially designed to precast concrete panels to meet any design set by the architect or homeowner. With the installation process requiring only standard vertical and horizontal joints, these panels enable the construction structure to achieve refinement while maintaining simplicity and unparalleled quality.

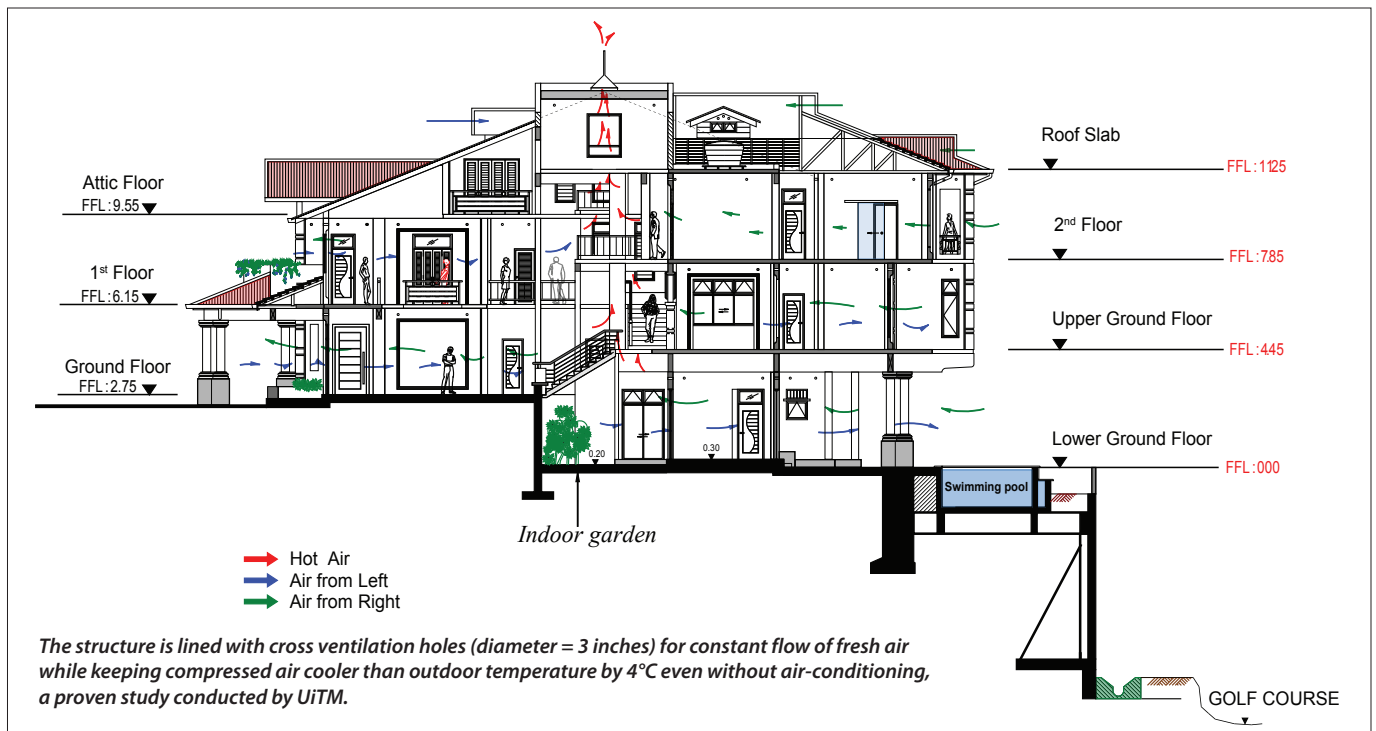


The bungalow is designed with private space and common areas for family get-together akin to traditional Chinese architecture ("Courtyard House") and culture.



UNIQUE FEATURES & ADVANTAGES OF O-STABLE PANEL SYSTEM

- Cost savings**
 O-Stable Panel System uses strip footing foundation (for structure of 5-storey and below), which reduces construction costs when compared to conventional method of pad footing and ground beam foundation.
- Construction simplified**
 The O-Stable Panel System pre-casted load bearing wall is fixed with patented wet vertical joints without requiring floor beams, roof beams and block wall. Each panel has a thickness of 100 - 200mm, depending on requirement and can be pre-cast on- and off-site.
- Easy installation process**
 The O-Stable Panel System is formulated for easy installation of pre-cast panel and slab formwork system, unlike conventional methods which require multiple layers of work handling.
- Thermal insulation**
 The O-Stable Panel System provides for sandwiched casting with polyurethane foam of the entire external wall to achieve thermal insulation within one operation, if required.
- Perfect finishing**
 The O-Stable Panel System only requires skim coat instead normal plastering to brick or block walls.
- Attractive façade design made possible**
 The O-Stable Panel System can be tailored to meet any unique façade in mind whereby the design of the façade can be casted within one operation, which differs to the conventional G.R.C method that needs to mount the façade on the wall.



O-Stable Panel System incorporates vertical ventilation, which accelerates the movement of warm air in the home to escape faster through the chimney located at the skylight.

- Reduces construction time and manpower**
The simplicity and easy implementation of O-Stable Panel System can reduce both construction time and manpower by 50%. In addition, this prefabricated system only requires 8 workers to erect 200 sq m2 pre-cast slab formwork in a day, providing cost savings up to 50%.
- Better resistance against harsh environment conditions**
The strip footing with the starter bars for wet vertical joints, together with the pre-casted wall panels and wet floor slabs are tied together into a single unified box structure, making it strong enough to withstand any eventualities of a hurricane or windstorm. **Disruptive testing** conducted shown that all vertical joints are still in good condition after the unit is lifted up, further emphasizes the proven performance and durability of O-Stable Panel System against harsh environment conditions. Disruptive

MEET THE INVENTOR

Mr Khoo Tian, Managing Director of O-Stable Panel Sdn Bhd



With more than 40 years of practical experiences in the building industry, Mr Khoo Tian has established an astounding reputation in quality construction works, in terms of cost and time saving. Today, Mr Khoo Tian's innovative invention of the O-Stable Panel System has been widely received as an enhanced construction method by the industry.

Notable projects under the supervision of Mr Khoo Tian (1970 – 1980)

- National Inland Revenue Office Complex, KL
- Student hostel, Universiti Kebangsaan Malaysia, Selangor
- Student hostel & dining hall, Universiti Kebangsaan Malaysia, KL
- Science laboratory block at University Malaysia, KL
- A 4-storey block for Sekolah Maxwell, KL
- Institut Latihan Hotel Restoran, PJ
- A 17-storey police headquarters, KL
- Two blocks of 10-storey hostel for police personnel, Seremban

testing can be viewed at (<https://youtu.be/TwdXLTWH5xA>).

- Locally made, globally recognised**
Since its introduction to the industry, O-Stable Panel System is now recognised worldwide and has since been patented in various countries including Malaysia, USA, China, Australia, New Zealand, Egypt, South Africa, India, Taiwan, Brazil and Vietnam.

A NOTE FROM THE INVENTOR

Malaysia is a tropical country rich in rainforest and blessed with breezy weather all year round. Such a climate should be ideal for building comfortable houses without using air-conditioning units.

As we know, wind is an energy that is free of charge. Finding ways and means to let the wind free flow into the house throughout the day and compress itself to cool room temperature will just be a great idea.

The observation of a mother feeding her child with hot porridge just triggers me this inspiration. Each time before she feeds, she will blow the spoon with hot porridge. This means her feeding action will compress the air inside her mouth to reduce the air temperature which in turn cools down the hot porridge. From this idea, I realize it is possible to design a comfortable house without using air-con units simply by providing small holes at the top portion of the internal and external walls.

As you may notice, the air inside most of the houses in our country is often warm and stuffy. Some architects even design an oven roof for the house. As a result, electricity consumption is increased due to high use of air-con units.

Our O-Stable Panel IBS System can help you build comfortable houses without the use of air-con units. The proven specialized method is **cross and vertical ventilation plus wind corridor**.

O-Stable construction method will pave the way for our clients to build high quality and energy saving houses that have been verified by the faculties of UiTM with faster completion time as well as enhanced profitability. Your satisfaction is our utmost concern.

Mr Khoo Tian,
Managing Director of O-Stable Panel Sdn Bhd



O-STABLE PANEL SDN. BHD. (Co. No. 247133-H)

No. 3 Jalan Desa Bahagia, Taman Desa,

58100 Kuala Lumpur, Malaysia.

Tel: 603-7982 9711, 603-7982 9554

Fax: 603-7982 9163

E-mail: ostable@hotmail.com

Website: www.ostap.com.my