

Research and Development

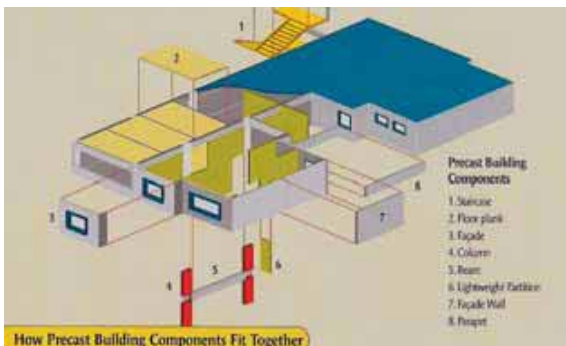
Ongoing research and development has been recognised as the cornerstone to the growth of SunInc as a leading conglomerate. We envision a world of possibilities and opportunities where there are always breakthroughs and innovations to be pursued in order to drive the business forward.

Industrialised Building Systems (“IBS”)

In recent years, the construction industry has witnessed the prevalence of IBS as it exemplifies the principles of innovation and automation that overcome the challenges imposed by the current labour intensive method. Being a construction process that utilises techniques, products, components, or building systems, which involve prefabricated components and on-site installation, IBS sets itself apart from the conventional construction methods by capitalising on its extensive capabilities in ensuring cost savings through shorter construction period, better quality control and reduction of construction waste.



SunCon, the construction division, is proud to embark on the journey of IBS with its maiden project involving the construction of a total of 2,200 units of living quarters for teachers in prefabricated 5-storey blocks located in 17 project sites in Selangor, Pahang and Kuala Lumpur. Being the 1st project of this size and nature which utilised innovative IBS methodology, the project witnessed the use of prefabricated columns, beams and slab systems, precast lightweight internal walls and precast facades. Such building systems had significantly improved productivity and efficiency of the entire construction process with the standardisation of 77,000 precast components.



With its passion to deliver, SunCon did not rest on its laurels and continued to utilise the innovative methodology in high-rise residential building. From the 5-storey Teachers’ Quarters to the 10-storey Kajang SuteraMas Apartments, SunCon had portrayed significant advancement in the deployment of IBS with a wider range of prefabricated components such as load bearing walls, half planks, precast staircases etc.

In addition to standard prefabricated components such as pre-stressed planks, columns, hollow core slabs, facades, and beams, SunCon continues to reach greater height when its subsidiary in Singapore, Sunway Concrete Products (S) Pte. Ltd., proves its capability in producing volumetric precast components such as prefabricated toilets and lift shafts. These complicated and heavyweight prefabricated components are being widely used in the Main Upgrading (“MUP”) and Lift Upgrading (“LUP”) of public housing projects launched by the Housing and Development Board (“HDB”) of Singapore.

Smart Equip Technology

Continuous research and development effort has also been undertaken in the area of advanced technologies and cutting-edge information technology. Research in innovative technology and futuristic homes has led to the development of the proprietary Smart Equip. Developed by Sunway Engineering Sdn Bhd, a subsidiary of SunCon, Smart Equip offers homeowners with convenience, familiarity and flexibility to transform an ordinary home into a smart home.



Smart living has now become a lifestyle with an automated central controller being the mastermind of all devices and equipment of a house. Interfacing with user-familiar switches, Smart Equip is capable of masterminding and monitoring any sophisticated system, from multi-faceted scene lighting control, home entertainment system, security system, air conditioning to ventilation system etc.

In addition to providing long-term benefits of energy savings, the Smart Equip system is flexible enough to cater for both new construction and retrofit applications, customised to users’ needs and budgets at any stage of the home’s life span.

At SunInc, we believe that our strength to master sophisticated business challenges lies in our capabilities of reinforcing our technical expertise and innovative prowess. As such, research and development will continue to be an unassailable priority in our constant pursuit of the next breakthrough.