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WEBINAR ON

STAR RESIDENCES: ENGINEERING INNOVATION & CONSTRUCTION CHALLENGES



23 SEPTEMBER 2026
10 AM – 12 NOON

SYNOPSIS

This presentation explores the engineering innovations and construction challenges encountered in the development of Star Residences, a RM 3 billion mixed-use development comprising three luxury residential towers and Star Boulevard near the Petronas Twin Towers. The project adopted a full top-down construction methodology to overcome the constraints of a 5.5-level basement while accelerating construction by nine months. Innovative concrete-infilled API plunged columns were used to support significant construction loading during the top-down sequence. The presentation also highlights the hybrid pile-rock raft foundation developed to address differential settlement arising from the transition between Kenny Hill and Limestone formations. Architectural requirements for unobstructed KLCC views resulted in asymmetrical tower footprints and associated torsional effects, which were addressed through advanced lateral modelling and Grade 80 high-strength concrete. Sustainable initiatives and integrated transit connectivity further enhanced the project's performance and urban contribution.



SPEAKERS



Ir. Alvin Ang Cheng Hin

Ir. Alvin Ang is the Managing Director of T.Y. Lin International Sdn Bhd, Malaysia, with 27 years of professional experience in infrastructure and structural engineering. He graduated with a Bachelor of Civil Engineering (Hons.) from the University of Leeds, United Kingdom, and is a registered Professional Engineer with a Practising Certificate in Malaysia. He is also a member of The Institution of Engineers Malaysia (IEM) and Engineers Australia. Throughout his career, he has led numerous iconic projects involving MRT systems, long-span bridges, underground tunnels, high-rise developments, and hyperscale data centres across Malaysia and the region.



Ir. Chew Mei Ling

Ir. Chew Mei Ling is a Senior Associate at T.Y. Lin International Sdn Bhd, Malaysia, with more than 20 years of experience in structural engineering and project management. She holds a Bachelor of Civil Engineering (Hons.) from Universiti Tenaga Nasional (UNITEN), and is a Registered Professional Engineer with a Practising Certificate in Malaysia. She is also a Corporate Member of The Institution of Engineers, Malaysia (IEM). Throughout her career, she has been involved in major structural engineering projects including high-rise residential and mixed-use developments, MRT infrastructure, data centres, shopping malls, hotels and other building structures.

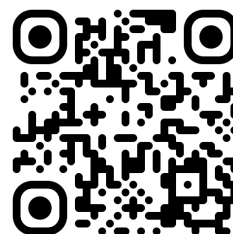
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