

Half-Day Seminar

Advanced Insights into Steel in Structural Systems: Performance, Compliance & Application

Synopsis

This seminar provides civil engineers with practical insights into steel performance in modern construction, focusing on material science, compliance, precision installation and structural application.

Key topics include the durability of steel, examining thickness, environmental exposure, and compliance to stringent standards alongside real-world case studies and warranty optimization strategies. The session also covers best practices for metal roofing and walling design and installation, in the aspect of design detailing, fastener selection, curve roof criteria, skylight and insulation, and roof drainage to ensure a functional yet practical roof build-up system.

Finally, attendees will explore structural metal decking systems, with emphasis on load distribution, composite vs. non-composite performance, and alignment with manufacturer specifications. Case studies projects will illustrate effective implementation.

Designed for practicing civil and structural engineers, this seminar delivers essential technical knowledge to improve steel-based design quality, enhance code compliance, and support long-term structural performance.

Agenda

Time	Activity
8.30am – 9.00am	Registration & Light breakfast
9.00am – 9.05am	Welcome Speech by IEM (PB) Organising Committee and Lysaght
9.05am – 10.05am	Part I: Steel Material: Performance, Compliance & Warranty
10.05am – 10.10am	Q&A - Part I
10.10am – 10.30am	Tea break
10.30am – 11.15am	Part II: Steel in Cladding Application: Sheets Design & Installation
11.15am – 11.20am	Q&A - Part II
11.20am – 12.20pm	Part III: Steel in Structural Decking System: Compliance & Application
12.20pm – 12.25pm	Q&A - Part III
12.25pm – 12.30pm	Token of appreciation to speaker & group photo session



IEM

The Institution of Engineers, Malaysia
(Penang Branch)

In collaboration with:

YSAGHT

Colorbond®



17 Jan 2026 (Sat)



8.30am – 12.30pm



IEM Penang Secretariat
1-04-02 E-Gate, Lebuh Tunku Kudin 2
Gelugor, 11700 Penang

BEM CPD Hours: 3

Ref: IEM26/PG/569/S

REGISTER NOW

iempenang.org

IEM Member : FOC
Non-IEM Member: RM60

Half-Day Seminar

Advanced Insights into Steel in Structural Systems: Performance, Compliance & Application

About the Speakers



Ng Cheah Haur

Technical Solution Manager,
NS BlueScope Malaysia Sdn Bhd

Ng Cheah Haur completed his Bachelor's Degree in Civil Engineering from the University of Malaya in 2005. Subsequently, he pursued a Master of Science in Management of Technology from the National University of Singapore, graduating in 2010. With a rich 20-years history in the building and construction sector, his proficiencies encompass civil and structural engineering design, project management, product development, and testing. He has played a pivotal role in significant projects, including the Putrajaya Mosque, Loke Yew Car Showroom, Sunway Pyramid Extension, Bartley to Airport Road Flyover Bridges, Admiralty Road Food Factory, SIM Campus, Leng Kee Road Car Showroom, among others.

In his present role at NS BlueScope Malaysia, Ng Cheah Haur is tasked with providing technical assistance to users, steering product development, orchestrating the digital evolution of Lysaght metal products via the Lysaght BIM object collection, and conducting CPD-accredited Lysaght Solution and You webinars



Liew Kheag Hoong

Specification & Product Development
Manager, NS BlueScope
Lysaght Malaysia Sdn Bhd

Liew Kheag Hoong is a seasoned business and management executive boasting over 25 years of experience collaborating with executive teams in multinational companies. He earned his Bachelor of Engineering (Chemical) from Monash University in 1995 and later pursued a Master of Business Administration (General Management) from the University of Southern Queensland in 2011.

Commencing his career as a chemical engineer, Liew progressively advanced through roles in Operations, Quality Assurance, Process Improvement, Sales & Marketing, and Project Management within globally renowned manufacturers. Currently specializing in technical marketing and product management, he plays a pivotal role in educating customers and stakeholders about product specifications, performance, and applications.

Liew is deeply passionate about facilitating understanding of products by providing professional advice and creating actionable content. His diverse background and wealth of experience contribute to his expertise in driving successful technical marketing strategies.



Nur Hafizah Mohd Suhaimi

Design & Engineering Manager,
NS BlueScope
Lysaght Malaysia Sdn Bhd

Nur Hafizah graduated with a Bachelor of Engineering (Hons.) in Civil Engineering (2011) from Universiti Sains Malaysia (USM). Subsequently, she pursued a Master of Science in Structural Engineering from Universiti Teknologi Mara (UiTM), graduating in 2015.

With wide experience in the building and construction sector, she is specialized in product specification, steel structure engineering design, ASRS/Multitier racking system design, and construction management. She has played a pivotal role in significant projects, including Borneo Culture Museum, Boon Siew Honda Motorcycle Manufacturing Plant, Setia City Convention Centre 2 (SCCC2), Kellogg's Warehouse Extension, among others.

In her present role at NS BlueScope Lysaght, Nur Hafizah is tasked to lead the Technical & Design team and to liaises with statutory bodies, product certification bodies as well as accredited laboratories to ensure all product certificates are up to date with the latest requirements