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Civil & Structural Engineering Technical Division, IEM

Physical CSETD'S PRE-AGM TALK

Draft Malaysian Standard DMS 2815:202X – Design of Structural Reinforced Concrete with Glass Fibre-Reinforced Polymer (GFRP) Bars: Scope, Design Considerations, Current Development Status, and Industry Feedback Session



Speaker
Ir. Tu Yong Eng



Moderator
Ir. Ng Beng Hooi

4TH JULY 2026

AT 9AM-11AM

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Synopsis

This two-hour technical session provides an overview of the current draft Malaysian Standard, DMS 2815:202X, relating to the design of structural reinforced concrete using Glass Fibre-Reinforced Polymer (GFRP) bars. The document is presently under development and public comment by the relevant industry stakeholders and technical working group, and has not yet been finalised, approved, or published as an official Malaysian Standard.

The session is intended solely for technical awareness, professional discussion, and stakeholder engagement. It does not constitute endorsement, certification, recommendation, promotion, or mandatory adoption of any GFRP system, manufacturer, supplier, or proprietary product for general construction applications. Engineers, designers, contractors, academics, authorities, and industry stakeholders are encouraged to critically review the proposed provisions and provide constructive technical feedback during the public comment stage.

The presentation will outline the background and development framework of the draft standard under the Building and Civil Engineering Industry Standards Committee (NSC 04), including the role of the Working Group on Fibre Reinforced Polymer (NSC 04/TC 21/WG 11). The session will further explain the proposed scope, intended applications, limitations, and key engineering considerations associated with the use of GFRP reinforcement in reinforced concrete structures.

The discussion will also highlight important technical considerations relating to durability, fire performance, serviceability, detailing, anchorage behaviour, constructability, and current limitations of GFRP reinforcement systems. Particular emphasis will be placed on the importance of competent engineering assessment and the need for careful evaluation prior to any practical implementation. The draft standard remains subject to ongoing technical review, stakeholder consultation, and refinement before any formal adoption.

In this session, we are honoured to invite Ir Tu Yong Eng, Chairman of the Working Group on Fibre Reinforced Polymer (NSC 04/TC 21/WG 11), to share the current development status and technical perspectives relating to the draft standard.

Attendees are encouraged to actively contribute comments, practical feedback, and professional perspectives to support the development of a balanced, technically sound, and industry-relevant Malaysian Standard.

Speaker's Biodata

Ir. Tu Yong Eng is a professional engineer with practicing certificate, and experienced in civil and structural work, geotechnical as well as project management. He is also a HRDF registered trainer. He has successfully carried out many courses to the industry and Universities. He has also published numerous papers in IEM Bulletin and conference and journals. In IEM, he is serving E & Q Standing Committee, Professional Practice Committee, PI board, and PI Development Board. He is also actively involved in Malaysian Standard Drafting Committee (National Standard Committee, Technical Committee and Working Group) including Loading (MS EN 1991-1-6, 1991-2), concrete (MS EN 1992-1-1, 1992-2, Ultra High-Performance Concrete), steel (MS EN 1993, MS EN 10025), glass, GFRP bars, seismic (MS EN 1998-1), Composite bridges (EN 1994-2), Construction practices and wind codes in Department of Standards, Malaysia.

Moderator's Biodata

Ir. Ng Beng Hooi graduated with a Bachelor of Engineering (Civil Engineering) from Universiti Teknologi Malaysia (UTM) in 2005 and has accumulated over 20 years of professional experience across consultancy, manufacturing, and international engineering organizations, with a specialization in fastening, passive fire protection – firestop, and geosynthetics. He is currently with Hilti, serving as the Regional Codes & Approvals (C&A) Manager for Southeast Asia. In addition, he serves as Chairman of the Civil & Structural Engineering Technical Division (CSETD) for 2025/2026, Standing Committee on Professional Practice (PPC) for the session 2026/2027, Committee and as Fire Advisory Board Member (2023–2026) under The Institution of Engineers, Malaysia (IEM). He also contributes to national and industry standards bodies, including serving as Committee Member for NSC04/21, Working Group Member for EC2-4 and Committee Member for NSC 13 Fire Protection Standards (2023–2026) under Standards Malaysia. Besides that, he also an M&E Technical Committee Member with the Master Builders Association Malaysia (MBAM). He is a Professional Engineer (Ir.), ASEAN Engineer, APEC Engineer, and International Professional Engineer, reflecting his commitment to advancing engineering standards, safety, and professional practice in Malaysia and the region.

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CSETD PRE-AGM TALK

Draft Malaysian Standard DMS 2815:202X – Design of Structural Reinforced Concrete with Glass Fibre-Reinforced Polymer (GFRP) Bars: Scope, Design Considerations, Current Development Status, and Industry Feedback Session

Date: 4th July 2026 (Saturday) Time: 9.00am - 11.00am

Venue: Malakoff Auditorium, Wisma IEM,

Organised by :

Civil & Structural Engineering Technical Division (CSETD),

The Institution of Engineers, Malaysia

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