AFEO

The Institution of Engineers, Malaysia

WEBINAR TALK

LIFE SAFETY THROUGH PASSIVE FIRE PROTECTION: A CODE-CENTRIC WEBINAR FOR ENGINEERS AND INSPECTORS ON APPLICATION, TESTING COMPLIANCE, AND CERTIFIED INSTALLATION PRACTICES

Organised By :

Civil & Structural Engineering Technical Division, & Fire Advisory Board, IEM

Date : 2nd July 2026 (Thursday)

Time : 3.00pm - 5.00pm

Venue : Virtual - Zoom

BEM CPD: 2
Ref. No.: Applying

Registration Fees
IEM Student: FOC
IEM Members: RM15
NON-IEM Members: RM70

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Synopsis

The 2 hours webinar on Passive Fire Protection - Firestop, tailored to engineers and fire protection inspectors who shape safer, code-compliant facilities. This focused session redefines passive fire protection as a relentless, non-activating defense that contains fire, slows its spread, and protects occupants and critical assets without triggering any system action. You'll see how airtight compartmentalization, smart material choices, and strategic firestop placement integrate early in architectural planning to influence resilience, insurance, and life-safety outcomes. We'll unpack fire-resistance rated assemblies tested to UL 263, demystifying how walls and floors preserve structural integrity and insulation under fire exposure. Real-world examples of partitions, floor-ceiling assemblies, and shaft enclosures illustrate how each element supports the building's rated integrity and safe egress timelines.

A core focus is firestop systems testing: penetrating openings (UL 1479) and linear joints (UL 2079). Learn how intumescent wraps, sealants, collars, sleeves, and joint designs maintain fire-resistance ratings under pressure, movement, and thermal cycling. We'll distinguish both penetrations and joints, clarifying design compatibility, installation challenges, and verification strategies. Certified installation compliance ties it all together. Discover the critical role of UL-listed designs, substrate prep, material compatibility, and rigorous documentation. We'll share QA protocols, inspection checklists, and lifecycle maintenance to ensure performance from construction through occupancy.Through practical case studies and cross-disciplinary collaboration anecdotes, you'll gain actionable insights for aligning architecture, MEP systems, and firestop strategies. Leave with a clear blueprint for evaluating designs, validating products, and implementing best practices that elevate safety, code compliance, and professional credibility in your next project.

Speaker's Line Up!

Mr Kolin Low

Kolin Low is the Senior Director at UL Standards & Engagement (ULSE). Based in Singapore, he leads a team responsible for ASEAN, Japan, Korea, and Australasia, working closely with regional stakeholders to promote standardization as a platform for global collaboration. His work supports emerging technologies by addressing unintended hazards and fostering regulatory alignment. Mr. Low was inducted into the UL William Henry Merrill Society as a Distinguished Member of Technical Staff, recognizing his expertise and contributions to the field. Kolin has a wealth of experience in the area of Quality Infrastructure (QI), including standardization, technical regulation, accreditation and metrology. Previously, he served as Regional Manager at the International Organization for Standardization (ISO), where he established the ISO Regional Engagement Initiative (REI) office in Singapore and led the development of the ISO regional engagement strategy for Asia-Pacific that focused on strengthening the QI system in the region. Before joining ISO, Mr. Low held various roles at SPRING Singapore (currently known as Enterprise Singapore), a government agency under the Ministry of Trade & Industry Singapore. His areas of work included international policy for standards and quality, accreditation, and metrology. He holds a Bachelor of Engineering (Electronics) from Nanyang Technological University, Singapore.

Mr Chris Johnson

Chris Johnson is a Senior Staff Engineer for Fire Containment at UL Solutions. He began his career in 1995 by joining a UK fire resistance test laboratory and certification body, where he conducted testing and certification for various construction elements. In 2012, he joined UL Solutions as a subject matter expert for firestopping in Europe. By 2015, he became the Program Owner for UL Notified Body and Technical Assessment Body (TAB) for Construction Products. He serves on standards-setting bodies as a member of the UK's BSI and EU's CEN committees for firestop test method development, having previously chaired the firestop EXAP method development. He also has a leadership history with the Association for Specialist Fire Protection (ASFP), where he was the heretofore Chair and is currently a member of TG3 for firestop products and the development of the ASFPRedbook.

Mr Justin Kalathil

Mr Justin Kalathil is a Senior Project Engineer for Fire Containment at UL Solutions. He earned an M.Sc. in Polymer Science in 2011. From 2011 to 2019, he worked for a passive firestopping manufacturer in Germany, focusing on R&D as well as the technical department, including testing and certification for UL designs, ETA and CE, German national approvals (ABG), and IMO testing. Since 2019, he has been with UL Solutions, overseeing testing and certification of firestop systems, doors, and door hardware. He is a member of national and European firestopping standard committees, including the DIN committee (NA 005-52-40 AA) and CEN (CEN/TC 127/WG 2).

Ir. Ng Beng Hooi

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, Chairman of the Sub-Committee on Malaysian Standards Writing and Forensic Study 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.