

DESIGNING SAFE SPACES FOR LEARNING:

PASSIVE FIRE PROTECTION FOR EDUCATIONAL BUILDINGS



SESSION 1 (by PROMAT)

Great learning environments are more than inspiring architecture. They are spaces where students, teachers, and communities can learn, connect, and thrive safely. As schools evolve to include open learning areas, communal spaces, and flexible environments, fire safety must be considered from the very beginning of the design journey.

This session explores how Passive Fire Protection (PFP) can be seamlessly integrated into public spaces especially educational buildings to support both safety and architectural intent.

Participants will gain practical insights into:

- ◆ **Structural steel protection** using sprays, intumescent coatings, and board systems
- ◆ **Fire-rated compartmentation** through walls, partitions, and ceiling systems
- ◆ **Fire stopping solutions** for service penetrations and movement joints
- ◆ **Protection of M&E services and ductwork** to maintain fire compartment integrity
- ◆ **Fire ratings, testing methodologies, and compliance requirements** relevant to modern building design

Drawing on Promat's expertise in tested and certified fire protection systems, this session highlights how architects can balance creativity, functionality, and safety without compromising design aspirations.

By integrating the right fire protection strategies early in the design process, learning spaces can remain open, welcoming, and inspiring while delivering the resilience, compliance, and protection needed to safeguard occupants and support future generations of learners.



SPEAKER

SEAN LEE, Technical Sales Manager for Southeast Asia at Promat, is a seasoned expert specializing in passive fire protection and high-performance insulation for building construction and industrial solutions. A mechanical engineering graduate from Queensland University of Technology (2011), he has over a decade of experience in shaping safer and more sustainable fire protection for buildings. Passionate about fire safety and innovation, Sean actively collaborates with industry stakeholders, delivering compelling presentations and technical insights to drive awareness and solutions for enhanced building resilience.

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22
AUG
2026
SATURDAY

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8:30 AM - 1:30 PM



PAM SARAWAK CHAPTER,
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Free for PAM members
RM54 for Non-members

AGENDA

- | | |
|----------|---|
| 08.30 am | Registration |
| 09.00 am | DESIGNING SAFE SPACES FOR LEARNING:
Passive Fire Protection for Educational Buildings

- PROMAT |
| 10.00 am | Q&A |
| 10.30 am | Coffee Break |
| 11.00 am | DESIGN FOR LEARNING, DESIGN AS LEARNING

- PDC Design Group |
| 12.30 pm | Q & A |
| 01.30 pm | End of Session & Lunch |

PAMSC Technical Talk No. 11/2026

DESIGN FOR LEARNING, DESIGN AS LEARNING

FROM PUBLIC INSTALLATIONS AND
CREATIVE WORKSHOPS TO SCHOOLS
AND COMMUNITY LEARNING SPACES

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SESSION 2 (by PDC DESIGN GROUP + INTODESIGN Lab)

Learning extends beyond classrooms and formal institutions. Through public installations, creative workshops, school projects, and community spaces, this presentation explores how design can encourage curiosity, imagination, and participation. It considers how modest interventions can create meaningful learning experiences while rethinking school typology through learning streets, courtyards, communal areas, and informal spaces. Featured works include Borneo International School, which received a Commendation in the Educational Category at the PAM Awards 2026. Collectively, these projects present design not only as a means of creating places for learning, but also as a learning process through making, participation, and spatial experience.



SPEAKER

TAY TZE YONG is the **Design Director of PDC Design Group and INTODESIGN Lab**. With a strong passion for architecture, design education and community-driven projects, his work spans architecture, urban spaces and art installations. Over the past two decades, Tay has led a diverse range of projects, including schools, community centres, public spaces, experimental pavilions and art installations. Having lectured in architecture and design for more than ten years, he has developed a particular interest in learning through play, reflected in his furniture designs, interactive installations and community-based initiatives. He is also actively involved in urban art and installation projects, using architecture as a medium for public engagement and shared experience. Tay believes that architecture extends beyond buildings and can connect people, place and imagination.

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