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Available CPD Material (1)

Hydrolosic Structural Steel Fire Protection for the Electrical Age in the Built Environment

When you consider hydrolosic fire proofing for the electrical age… did you know the BS 476 cellulosic fire curve to which all structural fire proofing products are required to be tested and approved too, was created in 1903? Needless to say, it does not take into account modern day materials: nylon and acrylic as an example, moreover, hydrocarbons: such as plastic; microwaves; fridges and freezers; computers; mobile phones and indeed lithium ion batteries. Is it time to rethink how we protect our buildings?

The aims of this CPD are to look at :
1. Current cellulosic material test standards adequate for modern day fire loads.
2. Understanding the history and evolution of material test standards introduced as early as 1903.
3. An introduction to lithium-ion Thermal Runaway initiation and escalation events for traction vehicles and static Battery Energy Storage Systems (BESS).
4. An overview of the potential impact of Thermal Runaway events on both PFP materials and the Built Environment infrastructure.
5. The concepts and design stage considerations for alternative PFP materials to mitigate modern day fire loads.

By the end of this CPD delegates should:
1. Be empowered to question the adequacy of PFP materials used currently in the Built Environment.
2. Be able to provide an introduction to the Hydrolosic Concept for Structural Steel Fire Protection when modern day fire loads are expected to be encountered.
3. Know how to specify fit for purpose PFP materials based on modern fire loads.
4. Know how to incorporate inherent safe design practices to meet the functional intent of design for the Electrical Age.

Material type: Seminar