

CPD **LIVE**

Free CPD education online

This CPD seminar entitles you to 1 formal CPD point. Please be aware you are required to manage your own CPD records. We will provide you with your participation certificate and CPD evaluation based on our attendance records post event and your completion of the below questionnaire.

The below answer sheet is for your own self-assessment.

Please keep your completed questionnaires and answers on file for your record.

These do not need to be sent to the AIA or to CPD Live. CPD-Live will send you a Refuel certificate.

WINDOW SYSTEMS OF THE FUTURE, DELIVERED TODAY

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- 1. What do we mean by 'Window Systems of the Future'? What are the qualities of an ideal window system?**
There is no simple answer to this question. Different projects present different demands in terms of both design and functionality. However, there are some features that all should have in common, including access to the outside world and energy efficiency.
- 2. How important are windows in terms of energy efficiency? How much heat transfer is associated with window systems?**
Extremely important. According to the Department of Industry, Science, Energy and Resources, up to 40% of a home's heating energy can be lost and up to 87% of its heat gained through windows.
- 3. Is insulation all about glazing or are other components involved?**
While quality glazing plays an important role in insulation, window systems should be considered as a whole. Other components, such as window frames, are also important.
- 4. What are the various window framing options and what types of applications is each best suited to?**
Window framing options include aluminum, composite material, vinyl, fiberglass, and traditional wooden window frames. Choice comes down to the application and involves aesthetic considerations, as well as questions of functionality and sustainability.
- 5. What are thermally broken aluminium window frames and what are their benefits?**
Thermally broken aluminium window frames include a reinforced polyamide strip between their interior and exterior aluminium profiles. Because this strip is characterized by low thermal conductivity, it improves the insulation capacity of the system.
- 6. When it comes to windows and sustainability, is thermal insulation the end of the story or are other factors also involved?**
Any consideration of sustainability should also consider embodied carbon, recyclability of materials in manufacture, and resource scarcity, as well as potential pollutants created during the production process.