Constructability of Precast Concrete

(1.0 hours, 1.0-AIA HSW)

Precast Concrete is a highly flexible building material that offers a lot of different design possibilities. As a result, we are seeing more precast concrete being used in all types of construction and building types. Therefore, understanding precast vertical and horizontal panels' expectations, standards, and tolerances is essential for the project's success. This presentation will identify how to integrate panel tolerances and coordination of panel construction, including panel insulation, with other trades and understand different connections into the overall design and construction documents to prevent constructability issues and potential rework in the field.

HSW Justification:
The health and welfare of the building and its occupants depend on properly designed precast concrete with integral insulation and building air tightness.

Learning Objectives:

1. *Discuss the different precast wall panel tolerances and how to integrate the allowable tolerances into the design and detailing.*
2. *Understand horizontal precast plank construction and construction coordination with all subsequent trades.*
3. *Learn how to prevent constructability issues before construction.*
4. *Identify typical areas of concern in the design through construction phases and plan for transition detailing with other trades such as roofing, windows, and interior building elements.*
5. *Encourage proactive collaboration among all stakeholders for successful project outcomes.*