

Building Envelope Tolerance

Corey S Zussman, AIA, NCARB, ALA, RBEC, RRC, REWC,
RWC, RRO, CDT, CQM, CxA+BE, BECxP, CABS, LEED® AP BD+C
Level II Thermographer

AECOM HUNT



Building Envelope Tolerances

(1.0 hour, 1.0-AIA HSW)



When designing the building envelope, we need to take into account constructability and tolerance of the materials, components, and systems. Each material has a tolerance from material fabrication, component installation, as well as system installation tolerance. There are many acceptable locations which identify the tolerances of the material, component, or system. We will explore the different locations where these tolerances can be found and how to use them to better understand the building and make better constructed buildings.

Learning Objectives:

1. Understand where to find the accepted tolerances of materials, components, and building system with regard to the building envelope and building structure.
2. Evaluate the different tolerances for building envelopes, which directly affect the structure, air and water management, and vapor control.
3. Learn how to review and calculate the overall tolerance for the building envelope components to ensure coordination of the building façade element continuity.
4. Utilize the information on construction and material, component, and system installation tolerance and understand where to utilize this information in the Construction Documents.