

Building Envelope Design and its Functions

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About the Study

Building envelope design is a specialist field of architectural and engineering practise that incorporates all aspects of building science and climate management. All of the components of the outer exterior that maintain a dry, heated, or cooled inside environment and permit climate management are referred to as the building envelope (or building enclosure). The physical barrier between a building's conditioned and unconditioned environments, including resistance to air, water, heat, light, and noise transfer, is known as the building envelope.

The building envelope's various functions may be divided into three categories:

- Support (structural and dynamic stresses to resist and transmit)
- Seize control (the flow of matter and energy of all types)
- Complete the task (to meet desired aesthetics on the inside and outside)