



Radiation Hits the Facade of Your Building and/or Enters the Space

The sunlight releases the radiation and influences the thermal environment in two ways.

Firstly, the sunlight radiation directly reaches the glass of the house and gets inside. In this way, the radiation works almost the same as the visual light. Some part of the radiation reflects when it reaches the boundary of the house, while others is absorbed by the envelope and conducts the heat to elsewhere.

Another way of sunlight radiation is through the walls of the house and air around. The sunlight radiatio can directly heat the walls of the house and in addition change the inner thermal environment. Also, it can change the inner temperature in an indirect way. The radiation firstly heats the air around the house and the hotter outside air conduct the heat to the walls. When the temperature of the walls goes up, they cause the inner temperature changing.