continuous insulation and thermal bridge mitigation



Many buildings in New York City have little to no insulation, or lack insulation in hard-to-reach places, such as parapets and slab edges. These uninsulated spots create thermal bridges—areas with high thermal conductivity that allow heat and moisture to penetrate the building envelope, causing occupant discomfort and degrading building components.





wrapping the balcony slab in insulation mitigates this source of thermal bridging.



thermal bridging generally involves wrapping the parapet in insulation.



to the basement ceiling and walls can reduce thermal bridging.

Key solutions to thermal bridging include applying insulation to uninsulated areas to ensure a continuous thermal barrier, as well as installing windows and other envelope components that include thermal breaks. Thermal breaks, also known as thermal barriers, are elements with low conductivity that prevent heat transfer and condensation across the building envelope.

available to support cladding materials while ensuring

that insulation remains uninterrupted.

in a window frame aligned with the building's wall insulation is the most effective configuration to reduce thermal bridging.