



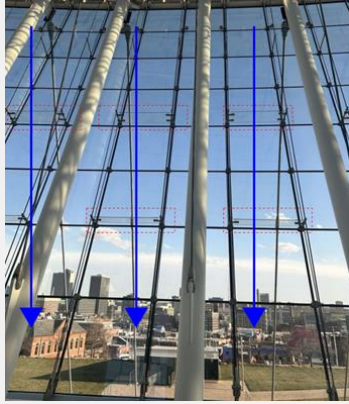
## **Combat Downdraft... Use Runtal Panel Radiators!!!**

Winter conditions can pose thermal comfort challenges in all glass buildings.

Today's building design focuses on maximizing the percentage of glass in the envelope, aiming to create an "outdoor type" working-living environment that enhances productivity and conserves energy. Daylit buildings lead to improved performance, heightened attention, and increased alertness among occupants. However, inadequately performing glass facades may require supplementary measures at the perimeter to ensure occupant comfort. Tall windows can cause downdrafts that make occupants feel cold. Thus, while maximizing glass in building design offers benefits in terms of productivity and energy efficiency, careful considerations are required to address potential challenges such as thermal comfort.

There are many different ways to combat Downdraft

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## **Glass Shelf at the Perimeter**

However, the depth of the mullion or obstruction affects the breakup of the downdraft. If the obstruction is too small, the downdraft will just flow around the horizontal obstruction and effectively, remain uninterrupted.

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## **ADE and Others Choose Runtal Panel Radiators**





Perimeter heating can be particularly effective in addressing the challenge posed by downdrafts caused by tall windows. By strategically placing heating elements along the perimeter of the space, warm air is directed toward the windows, counteracting the downward airflow and preventing drafts. This targeted heating approach helps to maintain a consistent temperature throughout the space, improving comfort levels for occupants and enhancing the overall thermal performance of the building.

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