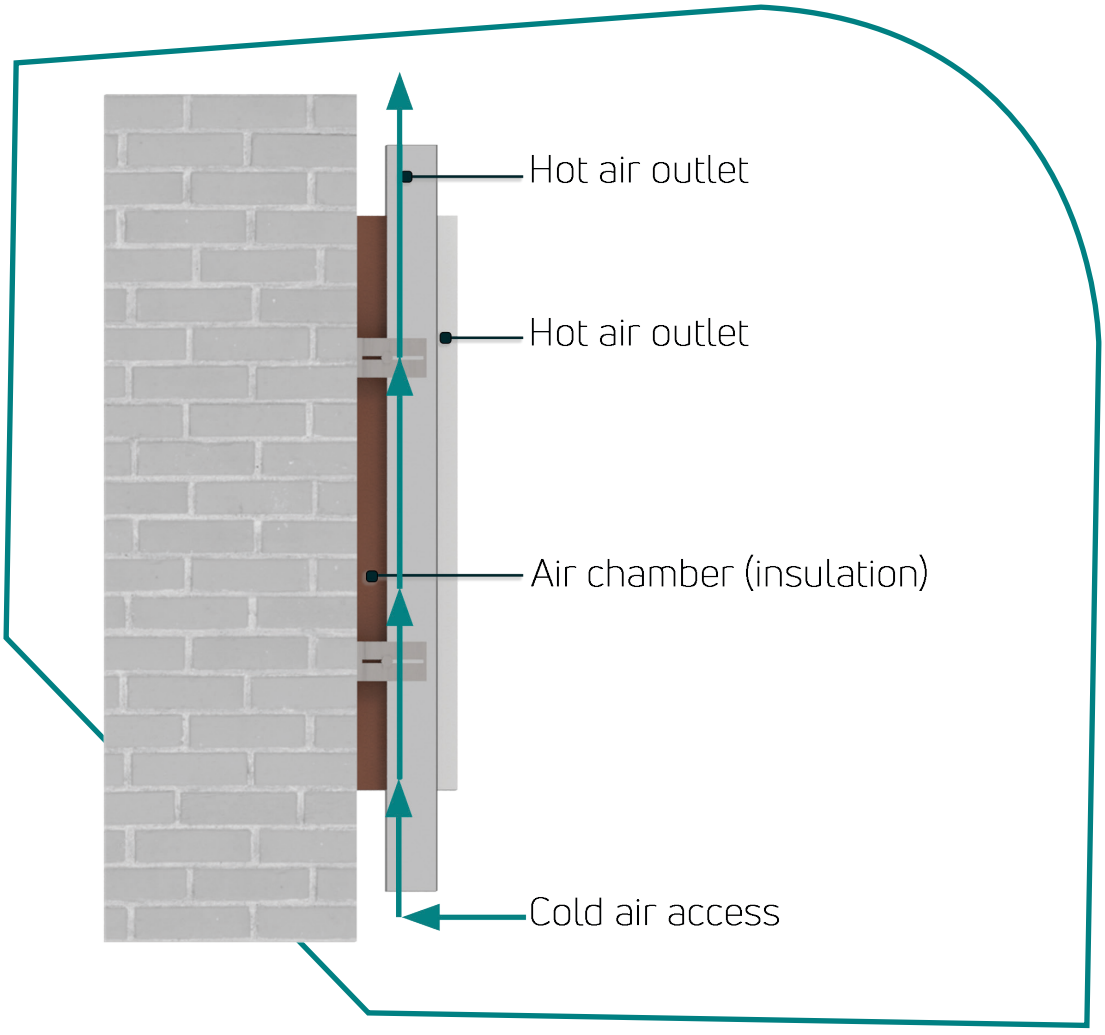
Ventilated Façade

A **Ventilated Façade** is the name for a building solution where the exterior of a building enclosure is clad with **ceramic, metallic, wood pieces**, etc.; their main function being the physical separation of the interior and exterior environments of the building. The main feature of ventilated façades is an air chamber with a chimney effect creating a "thermal cushion" between the clad wall and the exterior cladding parameter.

Functioning

The main improvement of this kind of façade is the air chamber between the interior face of the enclosure and the exterior cladding face, in which **thermal insulation** is installed. A ventilated façade improves the condition of a traditional façade through the separation structure between the interior and exterior surface, which guarantees continuous ventilation along the whole surface area of the façade and offers **thermal protection, watertightness and stability.**



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Thermal protection, watertightness and stability

Ventilated façades provide buildings with **thermal protection** against atmospheric agents, producing different effects in them depending on the season. **In summer,** thanks to the refreshing current of cold air generated inside the chamber, overheating of the building surfaces is prevented which stops temperatures inside the building from rising. **In winter**, this trend is reversed and the façade acts as a heat accumulator helped by the layer of thermal insulation of the system, preventing heat from escaping from the interior.

On the other hand, the cladding works as a rain screen, preventing rainwater from passing through joints and being pushed in by driving winds, making the whole façade incredibly **watertight** which in turn prevents common construction problems such as damp caused by filtration, ageing of materials, etc.