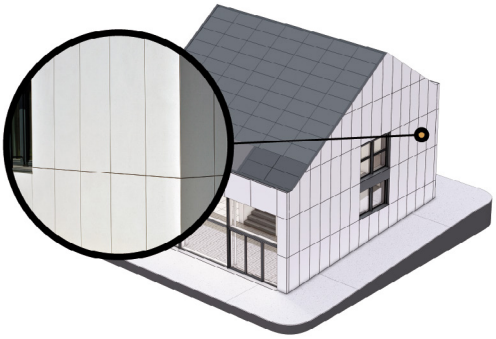

WALL FACADES AND SIDINGS

# BONDING FOR VENTILATED WALL CLADDING PANELS

**Thanks to its technical advantages and the wide variety of aesthetic possibilities it offers, cladding is very popular with architects. Bostik offers building professionals invisible bonding solutions for fastening cladding so they can develop buildings with unique designs and highly effective insulation.**

## MAIN APPLICATIONS/SECTORS

- New building and renovation
- Indoor and outdoor work
- Cladding and fitting

## TECHNOLOGIES

Elastic Bonding (EB)

Ventilated wall cladding is a widely used building system that combines thermal insulation with an aesthetic finish.

Seen from inside out, the system comprises an uninterrupted layer of insulation attached to the wall and a layer of cladding fastened to a special support structure made of aluminum or wood. A cushion of air forms between the two layers, with a stack effect creating effective natural ventilation.

Ventilated walls offer numerous advantages over more traditional coatings, such as rendering, that are applied directly to the unfinished wall.

First, the circulating air created by the stack effect helps draw away heat, as well as humidity caused by rain or condensation. Second, the ventilated cladding absorbs part of the solar heat gain and makes it possible to insert uninterrupted insulation, thereby considerably reducing the need for air conditioning and improving indoor comfort.

The system requires very little maintenance and creates a pleasant, non-humid atmosphere in buildings that can actively contribute to indoor environmental quality (IEQ).

Wall cladding panels can be fastened to the support structure either mechanically, with screws, or with adhesive bonding. Bostik's comprehensive PanelTack bonding system offers a number of benefits, including the ability to adhere to all types of wall cladding panels, from fiber cement and high pressure laminate (HPL) to compressed stone wool, aluminum composite and polyester. The system comprises an elastic mastic, a double-sided adhesive foam tape for initial fastening to ensure that the right amount of adhesive is used, and specific primers for each type of support structure (metal or wood).

No dust or power tools: Bostik PanelTack is quick and easy to use. Thanks to the invisible fastening system, the panels are smoothly aligned. The wall cladding is uniform and easier to maintain.

In addition, stress is more evenly distributed and panel strength is not compromised by drilling. With this system, builders can

use thinner panels and lighter support structures. Bonded panels also withstand vibration better than mechanically fastened panels.

Bonded ventilated wall cladding is an effective solution for new building and renovation projects, providing an aesthetic finish and a high level of thermal performance while taking cost and environmental criteria into account.

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# BONDING FOR VENTILATED WALL CLADDING PANELS

## ENVIRONMENT

- Fewer materials are used to produce bonded panels, as they are thinner and lighter than mechanically fastened panels

## ENERGY EFFICIENCY

- Ventilated wall cladding ensures effective natural ventilation, for fewer greenhouse gas (GHG) emissions

## COMFORT

- Reduces the need for air conditioning, for optimal thermal comfort
- Offers a variety of aesthetic finishes, allowing for the boldest architectural choices

| COMPANY | PRODUCTS | CLICK ON THE LINK |
|---|---|---|
| Bostik smart adhesives | PanelTack™ (USA) | www.bostik.com/us/ |
| | PanelTack™ (Mexico) | www.bostik.com/es/mexico/ |
| | PanelTack™ (Canada) | www.bostik.com/canada/ |

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