

VENTILATED FACADES

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General

Trespa® Meteon® panels are installed as a component of rainscreen cladding or ventilated facade system. This “breathing” envelope system, employed the world over, can contribute a number of advantages to building designs.

Principle

Ventilated facade system is a complete facade solution and entails the fixing of panels on a sub-frame, which is fixed to the structural facade. A ventilated facade system consists of the following structural items:

Rainscreen and decorative facade

Trespa® Meteon® panels cut to size are used as rainscreen and decorative facade, a building solution with both technical and aesthetic benefits. Joints between panels can remain open.

Cavity depth and ventilation

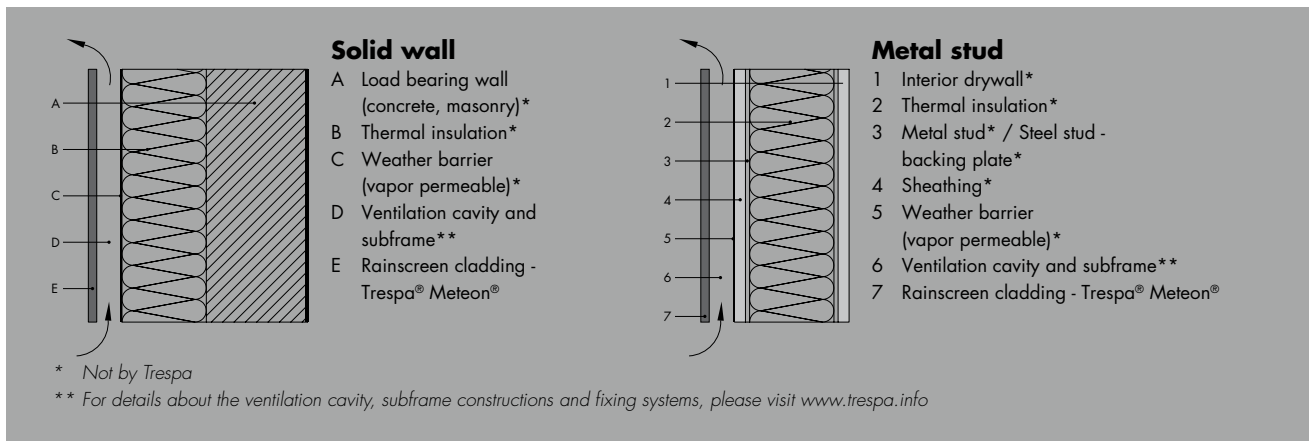
The free air cavity depth between the rainscreen cladding and the insulation or wall construction allows for ambient air to flow through from the ventilation inlets and outlets. For continuous ventilation behind the panel, a certain cavity depth between the rainscreen cladding and the insulation or wall construction is needed. The cavity depth as well as the minimum size of the ventilation inlets and outlets must be in accordance with applicable building standards, regulations and certificates. For more details, please visit www.trespa.info/meteon/fixingsystems

Insulation (optional)

Ventilated facades have a space between the cladding and the construction - an ideal location for insulation materials. Rain water and condensation are removed naturally by air flowing through the cavity so that the insulation material remains in good condition and remains effective over time.

Sub-frame

A ventilated facade can be constructed using different tested and certified fixing systems, each with their own advantages in terms of aesthetics (e.g. invisible fixing, joinery details), installation and performance, to fix Trespa® Meteon® panels on a sub-frame. For more details, please visit www.trespa.info/meteon/fixingsystems



Benefits

Ventilated facade systems as described above may result in a variety of advantages. First, a chimney effect draws air through the cavity, aiding in the removal of heat and moisture from rain or condensation. Second, the rainscreen blocks some solar gain and accommodates continuous insulation, considerably reducing air-conditioning. Third, these results are shown to improve comfort within occupied zones. Residents and users not only find themselves in a low-maintenance-environment, but the dry and comfortable conditions of the building may also make a positive contribution to indoor environmental quality (IEQ).

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