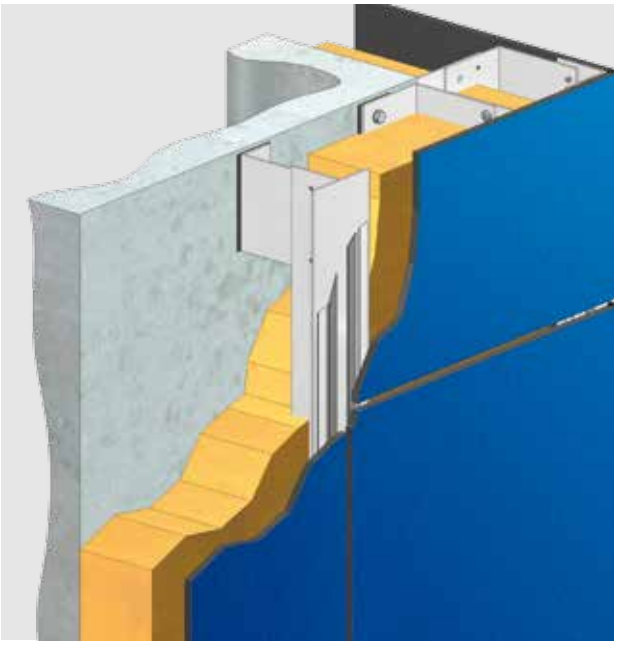
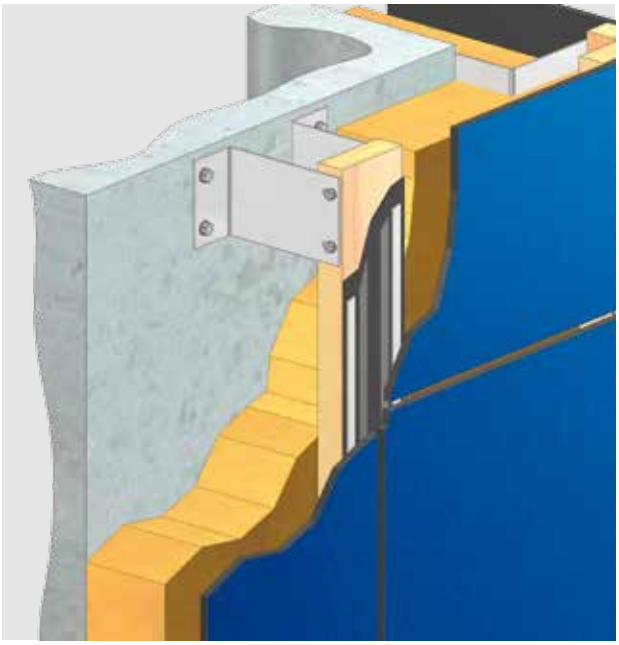
INVISIBLE (CONCEALED) FIXING WITH ADHESIVE ON AN ALUMINIUM OR TIMBER SUB-FRAME

Although the majority of past Trespa installations have been mechanically fixed, the use of adhesive fixing systems is possible under certain conditions, including careful attention to various installation details, installation by a qualified party in accordance with all guidelines and recommendations of a qualified adhesive manufacturer, and in compliance with all applicable codes. Trespa is not responsible for the selection or use of adhesives in fixing systems.

Trespa® Meteon® panels of various thicknesses may be fixed to a vertical aluminium or timber sub-frame using a permanently flexible adhesive system.





This document is intended to provide general recommendations only. Trespa provides these guidelines and all testing, code and design data for informational purposes only and strongly advises that the customer, project owner and architect seek independent advice from a certified construction professional and/or engineer regarding application and installation as well as compliance with design requirements, applicable codes, laws and regulations, and test standards. Please check your local codes and applicable design requirements for proper use.

GENERAL INSTALLATION GUIDELINES

Cavity depth and ventilation

For a continuous ventilation behind the panel, Trespa recommends the free air cavity depth between the rainscreen cladding and the insulation or wall construction to be between 20 and 50 mm, in order to allow for ambient air to flow through from the ventilation inlets and outlets. Ventilation inlets and outlets must be the equivalent of minimum 50 square cm per linear meter over the whole façade. Cavity depth as well as ventilation inlets and outlets must be in accordance with applicable building standards, regulations and certificates.

Sub-frame

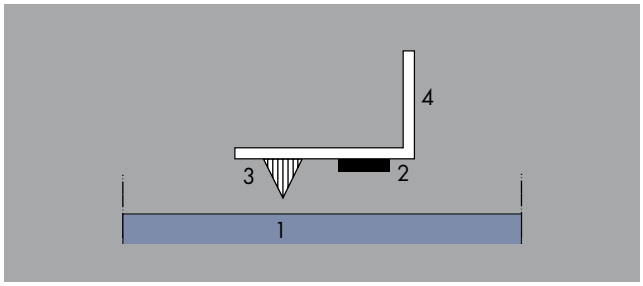
Trespa® Meteon® panels must be installed on a sub-frame of sufficient strength and permanent durability. Quality and/or treatment of the sub-frame must be in accordance with certificate holders' recommendations as well as applicable building standards and regulations.

Fixing detail

The effectiveness of an adhesive fixed panel is determined mainly by weather conditions at the time of fixing. Damp, cold and / or dusty conditions may have a negative effect on the strength of the adhesive bond. For this reason Trespa cannot take any responsibility for the load bearing performance of the adhesive fixed construction.

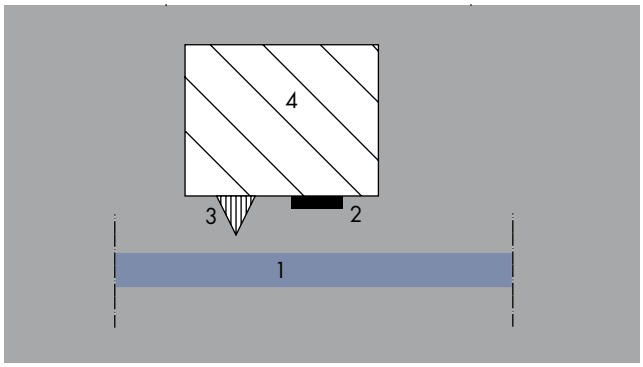
The installation guidelines of the manufacturer of the adhesive system must be followed at all times.

General principle of adhesive fixing on an aluminium sub-frame



1. Trespa® Meteon® panel
2. double sided adhesive tape
3. adhesive
4. aluminium profile

General principle of adhesive fixing on a timber sub-frame



1. Trespa® Meteon® panel
2. double sided adhesive tape
3. adhesive
4. timber subframe

code U3055 version 2.0 date 29-08-2012

BEST PRACTICES

The design and installation guidelines of the adhesive supplier are imperative. The following best practices are a result of many years of experiences with adhesive fixed facade cladding in countries where such fixing methods are allowed and certified.

For all countries Trespa strongly advises that the customer, project owner and architect seek independent advice from a construction professional regarding compliance to national and/or local building regulations of fixing systems.

The information below does not contain all requirements with regard to the certificates. For design and installation, the complete certificate(s) must be considered.

Topic	Best practice
Panel thickness[A]	6, 8, 10 mm
Maximum panel dimensions[A]	Portrait position: maximum height 3050 mm, maximum diagonal 3315 mm Landscape position: maximum width 2550 mm, maximum diagonal 2818 mm
Joint width	10 mm
Minimum dimensions aluminium sub-frame[A]	Intermediate and end rails: width 40 mm Jointing rails: width 100 mm
Minimum dimensions timber sub-frame[A]	Intermediate and end battens: 45 x 28 mm Jointing battens: 95 x 28 mm

[A] *please consult the adhesive system certificate*

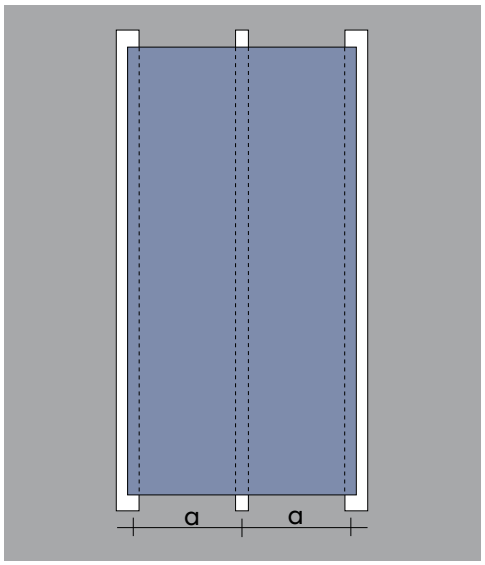
Recommended maximum fixing distances based on Trespa® Meteon® panel characteristics

Maximum fixing distances (mm)[B]	Panel thickness (mm) for Satin / Rock			Panel thickness (mm) for Gloss[C]
	6	8	10	10
2 fixings in one direction	450	600	750	550
3 ore more fixings in one direction	550	750	900	700

[B] *The maximum permitted fixing distances shown have been designed with with a maximum (wind)load of 600 N/m² and maximum deflection of L/200.*

[C] *Based on the surface properties of Gloss panels, the fixing distances are reduced.*

Fixing distances must be calculated in accordance with applicable local standards, regulations and certificates and should be verified by a structural engineer.
For more information about deflection and wind loads, please visit **www.trespa.info/meteon/fixingsystems**



a = horizontal fixing distance

Disclaimer

Not all certification required for your project may be available through Trespa or additional certification may have to be obtained by the customer. Therefore, also in relation to the above overview, Trespa strongly advises that the customer, project owner and architect seek independent advice from a construction professional regarding the accordance to national and/or local building regulations of a chosen fixing system.

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