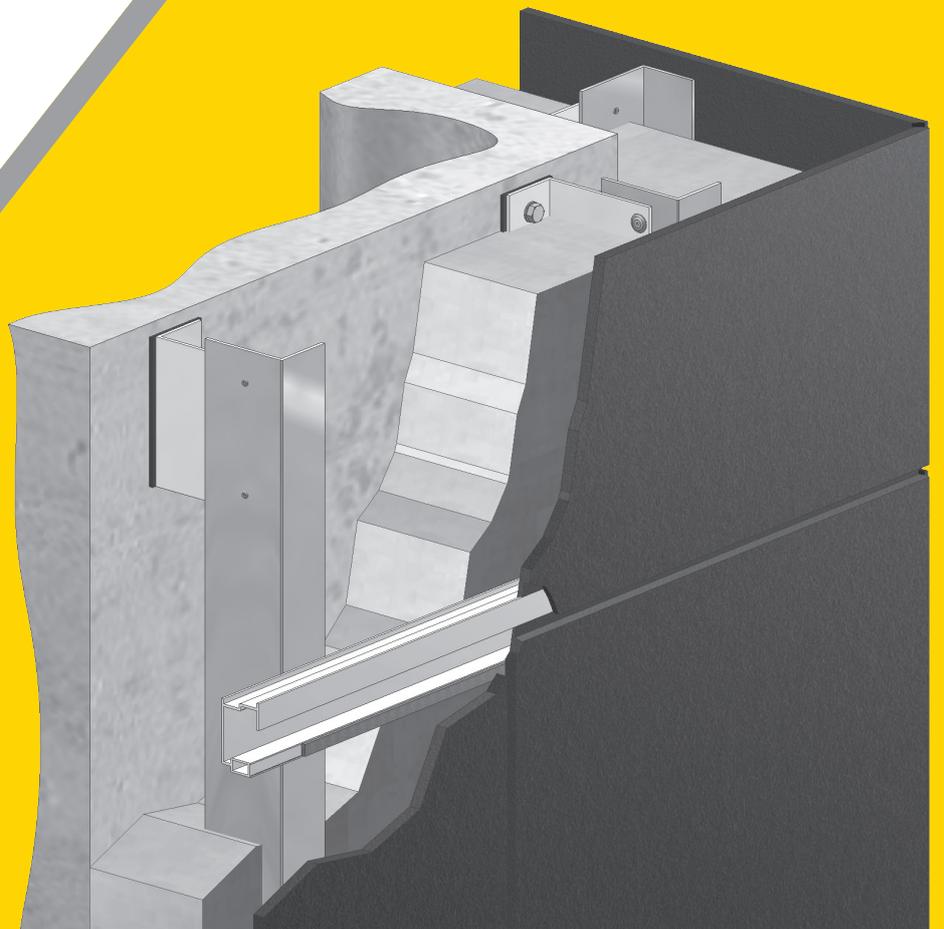


**TRESPA® METEON®**

# Fixing

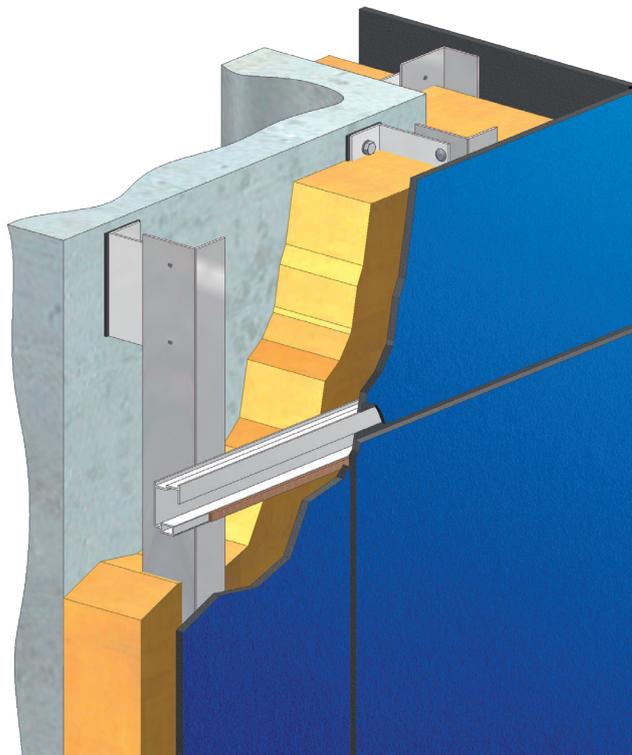


**Trespa® Meteon® brings compelling aesthetic and nearly limitless design possibilities to next-generation architectural claddings. Use Trespa® Meteon® on its own, or in combination with other materials, to create stunning façades or highlights.**

To suit your special requirements, Trespa® Meteon® can be applied in a number of ways, using a variety of joinery details and fixing methods. Choice of fixings and availability per country is dependent on relevant building codes and national certifications. For information on possible fixing systems in your region and more detailed technical information, visit [www.trespa.info](http://www.trespa.info)

The following fixing methods are available:

- Invisible Fixing (Concealed Fixing)
- Visible Fixing (Exposed Fixing)
- Deep Cavity (Insulated) Fixing
- Special Fixing
- Adhesive Fixing



# GENERAL INSTALLATION GUIDELINES

In this document an overview of principles for fastening facade cladding is shown. These principles are generic and represent the state of the art. In cases where national standards do not directly link with the current building codes, special certificates can bridge this gap. Such certificates refer to facade cladding products as well as to fasteners or fixing elements in particular. Certificates are issued to the party that sells the most significant part of the fixing method. Both manufacturers as well as agents of the products in particular can hold a certificate. In cases where there are no specific standards, nor are there specific building codes or certificates, the local building authorities need to evaluate if the proposed fixing method does comply with the current regulations.

Due to the nature of the product Trespa® Meteon® and its application as drained and back-ventilated rain screen cladding and unrelated to any fixing method, there are 3 topics that need special attention:

## 1. Ventilation.

The facade cladding needs to be ventilated at the rear of the panel to release migrated water vapour from the ambient rooms and to dry condensation at the inner parts of the wall construction. This requires a certain ventilation cavity depth and a certain dimension of the ventilation inlets and outlets.

## 2. Tension-free fastening.

The facade cladding needs to be able to expand and shrink independently from its load-bearing sub-frame due to heat and moisture influences. This requires a certain free space in the fastening for movements. Also limitations in the maximum panel size as well as minimum dimensions of the joints in between panels and between panels and other construction parts are a result of this requirement.

## 3. 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. Although most fixing methods are generic, there might be differences in the details as stated in national certificates.

Such differences occur due to country specific building traditions; differences in national standards or different rules and assumptions for detailed calculations.

Following fixing methods are recognized by Trespa.

- Invisible fixing
- Visible fixing
- Deep cavity fixing
- Special fixing

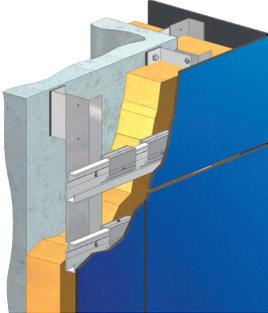
## Invisible fixing

Trespa can be invisibly (i.e. concealed) fixed by using mechanically fastened metal brackets at the rear of the panels in combination with horizontal metal rails, or by machining profiled edges in the panels in combination with metal rails or clamps. System descriptions, CAD details and certificates can be found at [www.trespa.info](http://www.trespa.info)

### Invisible fixing (Concealed fixing)

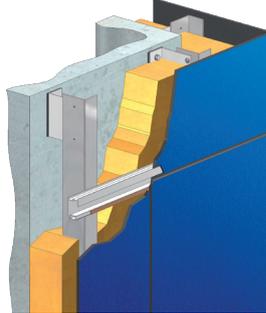
#### TS200

Invisible (concealed) fixing with brackets on rails



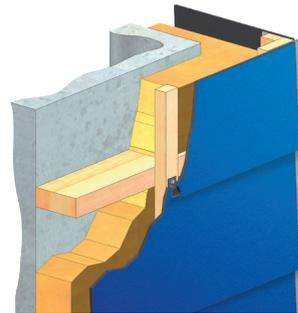
#### TS300

Invisible (concealed) fixing using profiled edges



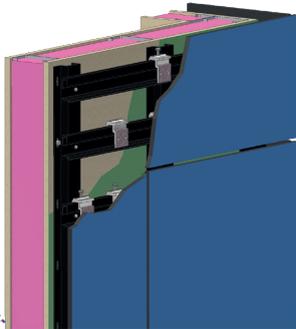
#### TS600/650

Invisible (concealed) fixing of sidings



#### TS210

Invisible (concealed) bracket-railfix on an aluminium sub-frame



#### TS210-285

Invisible (concealed) bracket-railfix on an aluminium sub-frame



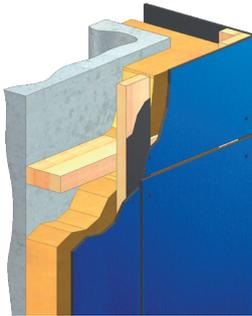
## Visible fixing

Trespa® Miteon® can be visibly (i.e. exposed) fixed by using screws and a timber sub-frame or using rivets or screws on a metal sub-frame. System descriptions, CAD details and certificates can be found at [www.trespa.info](http://www.trespa.info)

### Visible fixing (Exposed fixing)

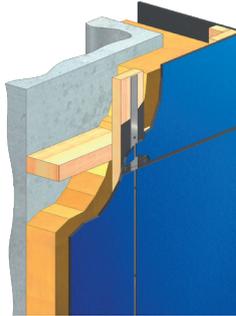
#### TS150

Visible (exposed) fixing with screws on a timber sub-frame



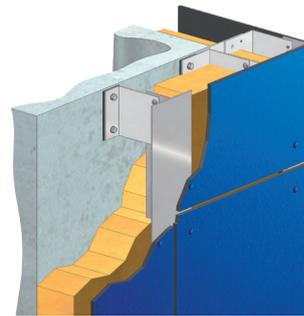
#### TS550

Semi – visible (exposed) fixing with metal tongues on a timber sub-frame



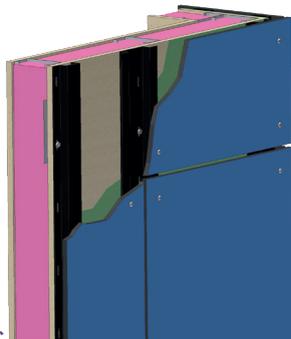
#### TS700

Visible (exposed) fixing with rivets on a metal sub-frame



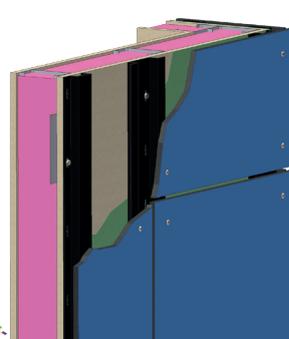
#### TS110

Visible (exposed) fixing with screws on an aluminium sub-frame



#### TS110-285

Visible (exposed) fixing with screws on an aluminium sub-frame



### Deep cavity fixing

In order to allow for thicker insulation packages in combination with metal-stud load-bearing walls, extensions for metal sub-frames are available for both exposed as well as concealed fastening.

### Deep cavity (insulated) fixing

#### TS110DC-285/TS110-134

Visible (exposed) fixing with screws on an aluminium sub-frame – deep cavity



#### TS210DC-285/TS210-134

Invisible (concealed) bracket-railfix on an aluminium sub-frame – deep cavity



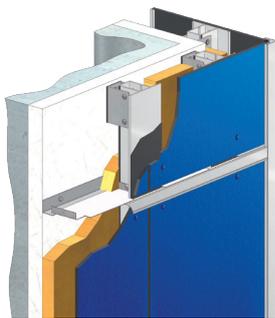
### Special fixing

For high rise buildings a metal sub-frame is developed to span from floor to floor including fire barriers at each floor. This fixing method is predominantly used for visible fixing with rivets. System descriptions, CAD details and certificates can be found at [www.trespa.info](http://www.trespa.info)

### Special fixing

#### System 700

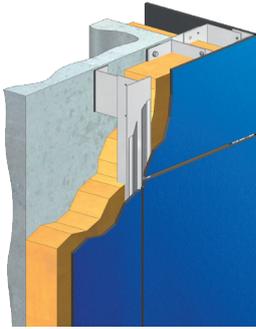
Visible (exposed) fixing with rivets on a specific aluminium sub-frame (span from floor to floor)



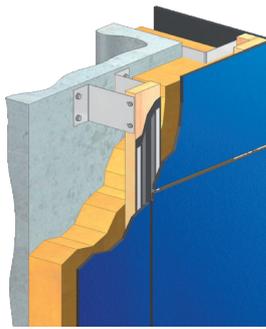
## Adhesive fixing

Finally there are also fixing methods that have a limited geographical acceptance. These fixing methods are based on elastic adhesives that fasten the cladding panels to a timber or metal load-bearing sub-frame. Country specific certificates are issued to the manufacturer or agent of the adhesive system. The design and installation guidelines of the adhesive supplier are imperative.

Invisible (concealed) fixing with adhesive on an aluminium sub-frame



Invisible (concealed) fixing with adhesive on a 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.**

**Always up to date, think [www.trespa.info](http://www.trespa.info)**

The website [www.trespa.info](http://www.trespa.info) offers you a complete overview of all technical product information, CAD drawings and certification online. This website is kept updated at all times, so you can be sure to find exactly what you need, whenever you need it, easily and quickly. Finding the information you need has never been this easy.

- Up-to-date, at all times.
- Easy-to-use: all information clearly laid out.

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