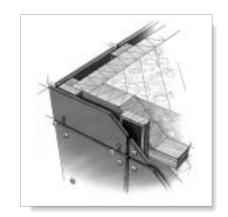
TRESPA

Installation guidelines for façade applications

Trespa Meteon is a flat panel based on thermosetting resins, homogenously reinforced with wood fibres and manufactured under high pressure and temperature. Using special techniques, the panels have an integrated, decorative surface with pigmented resins.

Trespa International B.V. is the only manufacturer that cures the surface of panel material for external applications using electron beams (Electron Beam Curing). That's what makes Trespa Meteon so highly weather resistant.

The resultant properties make the product particularly suitable for a wide range of exterior applications.



Sheet thickness and weight

Thickness	Weight
6 mm	8.4 kg/m²
8 mm	11.2 kg/m²
10 mm	14.0 kg/m²
13 mm	$18.2 \ kg/m^2$

Sheet sizes

- 3650 x 1860 mm
- **3050** x 1530 mm
- 2550 x 1860 mm

Colours

Sheets for façade applications are supplied in more than 50 standard colours.

Properties

- Weather-resistant
- Colourfast
- Impact resistant
- Easy to clean (even graffiti)
- Scratch resistant
- Low maintenance
- Wide range of colours
- Easy to machine (can be undertaken on site)







Fabrication and installation of Trespa Meteon Metallics and Naturals.

- Trespa Meteon Metallics and Naturals panels feature a directional coloured surface. In order to achieve the same orientation of the panels please take notice of the following points:
- When optimizing Trespa Meteon Metallics and Naturals panels the direction should always be taken into account. Arrows on the back side of the full size panels have been applied by Trespa to indicate the direction the sheets have been produced (illustration 1).
- When cutting the sheets we advise you to temporarily mark the original production direction on the visible side of the individual panels. The fixing of the panels in the same direction wil be easier and this way there will be no undesirable colour distinction (illustration 2). All other instructions for processing and fixing are as standard Trespa Meteon panels.
- Corner profile and sheet lenghts have corresponding direction.
- The quantity of Trespa Meteon Metallic sheets required for a project should be ordered and supplied as a single instruction.



■ Certificate:

BBA, Agrément Certificate no. 91/2628.

■ Guarantee:

On request for a period of 10 years.

■ Ventilation:

The ventilation provisions below apply:

- A ventilated air cavity at least 20 mm wide;
- Ventilation openings at the top and bottom of the facade cladding, windows and fascias.

Façade cladding height	Ventilation surface
to 1 m	$\geq 20 \text{ cm}^2/m^1 \text{ for fascias}$
above 1 m	\geq 50 cm ² /m ¹ for façades

- Local openings minimum 5 mm.
- Openings wider than 10 mm to be closed with ventilation profiles.

Joints:

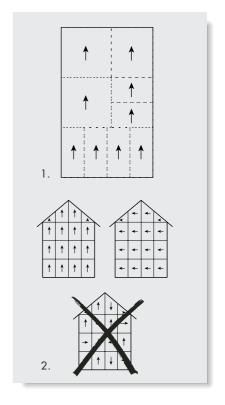
The joint width is minimum 10 mm + thickness of possible joint profiles.

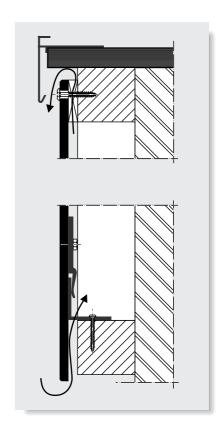
Fixings:

Centralise screws and do not overtighten as this will obstruct the movement of the panel.

(N.B.: machines with a depth stop are available for this purpose).

Before mounting the panels, the contractor and/or fitter must establish the durability, strength, stiffness, stability and smoothness of the underlying construction. These characteristics of the underlying construction must comply with any national or local construction rules and regulations, guidelines and specifications.





Processing

Cutting

■ Hand circular saw:

Diameter	Teeth	Speed	Blade thickness	Saw-blade height
150 mm	36	4,000	2.5 mm	15 mm
200 mm	46	4,000	3.0 mm	20 mm

■ Stationary circular saw:

Diameter	Teeth	Speed	Blade thickness	Saw-blade height
300 mm	72	6,000	3.4 mm	30 mm
350 mm	84	5,000	4.0 mm	35 mm
400 mm	96	4,000	4.8 mm	40 mm

Feed:

7 - 22 m/min.

■ Tooth:

Hard metal wood-working tools, carbide-tipped alternate tooth or trapezoidal flat tooth.

■ Jig saw:

Carbide-tipped saw; interior corners of cut-outs should be drilled with 6 mm hole diameter.

■ Entering tooth:

At the decorative side of the panel.

■ Cut edges:

The best results are obtained with stationary tools; any sharp edges can be removed with sandpaper.

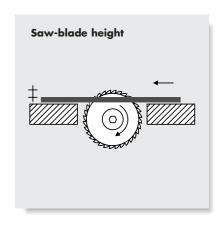
■ Rake angle:

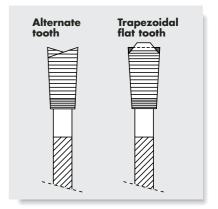
A rake angle of 45° gives the best cutting performance.

Drilling

■ Carbide-tipped HSS-drill, top angle 60-80°. Panels should be drilled with support sheets.

Diameter	Revolutions	Feed	
5 mm	3,000	60-120 mm/min	
8 mm	2,000	40-80 mm/min	
10 mm	1,500	30-60 mm/min	







Transportation and storage

- During transportation, use stable flat pallets at least the same dimension as the sheets.
- When moving a sheet, lift it to prevent scratches on the panel surface.
- The sheets should be stored in an enclosed area, protected against moisture and heat, in a normal ambient temperature and humidity.
- For horizontal storage on pallets, the sheets should be supported over the entire surface with a protective layer between the pallet and the sheet and also on the uppermost sheet.
- For vertical storage the sheets should be upright on their sides and be supported over the full height.
- Stickers should be removed before installation.



TS150: Visible fixing with screws

■ Timber battens:

Impregnated timber battens at least 38 x 45 mm; for intermediate battens at least 38 x 75 mm at the panel joints.

■ Fixings:

Fast-fixing screws for Trespa:

- 8 mm hole diameter;
- for 6 to 10 mm panels;
- available in all standard colours.

■ Maximum fixing centres:

Distances (mm) for a building height up to 12 m:

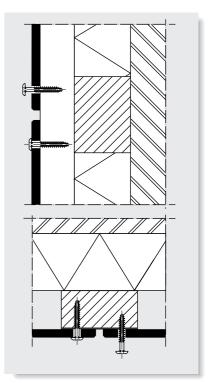
Panel thickness	2 fixings	More than 2 fixings	
	in one direction	in one direction	
6	450	550	
8	600	750	
10	750	900	
13	950	1.200	

■ Panel edge clearances:

Minimum 20 mm, maximum 10 times panel thickness.

Joint gasket:

Flat EPDM gasket, thickness 1mm, over full width of battens.





TS450: Invisible fixing with adhesive

Fixing Trespa panels to a sub-frame using adhesive is possible if:

■ Fixing:

- Adhesive bead only vertical.
- Maximum panel length: 2550 mm.
- Maximum panel surface 2.5 m². Instructions for Trespa Construction Adhesive as recommended by the manufacturer should be followed.

■ Timber dimensions:

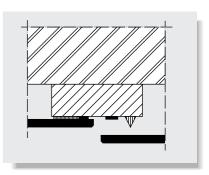
Minimal width of planed timber battens:

- End battens: 45 x 28 mm.
- Intermediate battens: 55 x 28 mm.
- Panel joint battens: 85 x 28 mm.

■ Maximum fixing centres:

Distances (mm) for a building height up to 12 m:

Panel thickness (mm)	2 adhesive	More than
	beads	2 adhesive beads
6	450	550
8	600	650
10	650	650



System 700: Visible fixing with blind rivets

Fixing panels of min. 6 mm thickness on a metal sub-frame is possible with blind rivets. The sub-frame should preferably consist of vertical aluminium profiles which are fixed to the structure with special wall brackets.

Fixings:

- Rivets: diameter 5 mm; hole diameter in panel 10 mm;
- One hole of 5.1 mm in centre of panel; 2 fixed points may be made next to each other with a hole of 6 mm.

■ Maximum fixing centres:

Distances (mm) for a building height up to 12 m:

Panel thickness	2 fixings	More than 2 fixings	
	in one direction	in one direction	
6	450	550	
8	600	750	
10	750	900	
13	950	1.200	

■ Panel edge clearance:

Minimum 20 mm, maximum 10 times panel thickness.

■ Panel size:

Maximum 3050 mm.

■ Tools:

The rivet head should be 0.3 mm free from the panel surface by using a sliding point attachment.



TS200: Invisible fixing with screws or inserts

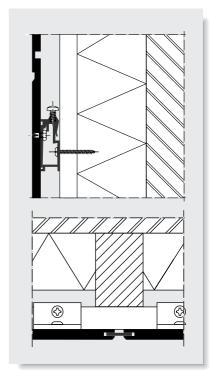
Panel of minimum 8 mm can be fixed invisibly by using aluminium brackets with inserts or screws to the back of the panel. The panel is then hung on a horizontal aluminium rail. Each panel has two adjustable brackets and a fixed point at the top. The bottom row or rows of brackets are fixed 2.5 mm/m¹ higher to enable the panel to move.

■ Fixings:

The fixing systems and accessories are supplied by specialist companies. These companies also provide advice on auxiliary materials.

■ Maximum fixing centres:

The fixing centres are determined for each project in consultation with the profile supplier.



Panels in frames

Panels can be placed into timber, metal or plastic frames.

■ Positioning:

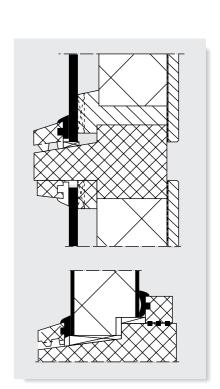
- Panel edge: at least 6 mm free from profile at three sides
- Groove: 20 mm.
- EPDM glazing gaskets, at least 4 mm thickness after installation.
- Drainage: hole diameter 8 mm or slots 5 x 25 mm.
- Two support blocks for each panel: minimum 5 x 50 mm.

■ Maximum span of single panel:

num width (in mm) Panel th			ickness (in mm)		
6	8	10	13		
620	830	1040	1350		
530	710	890	1160		
470	630	780	1020		
450	600	750	980		
	6 620 530 470	6 8 620 830 530 710 470 630	530 710 890 470 630 780		

■ Maximum span of sandwich panel:

- Panel thickness: minimum 16 mm.
- Maximum spans on request available.





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