

TRESPA® TOPLAB® VERTICAL

INTERIOR WALL LINING

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

Machining panels should only be done by a machining or construction professional with proper equipment. The homogeneous composition of the material makes it possible to machine both the sides and the surface. Machining Trespa® panels is comparable to machining high quality hardwood. Trespa® panels may be machined using carpentry tools. The hardness of Trespa® panels makes greater demands on tools than machining materials composed of softwood. The use of hard metal tools is advised. Diamond-tipped tools are recommended for large series. This ensures a very good finish and a long tool life.

Health and safety

Please note that serious dangers are inherent with the use of (carpentry) machinery. In all cases, adhere strictly to the guidelines of the machinery manufacturers and the recommendations of the safety and labour organizations.

Transport and handling

In general, lift the Trespa® panels and avoid sliding them as much as possible, also during transport and assembly.

Additional guidelines apply for Trespa® TopLab® or other Trespa® panels provided with a protective foil:

- Do not remove protective foil during machining.
- Machine preferably using computer operated equipment.
- Do not write directly on the protective foil but use adhesive stickers for marking/coding.
- Remove only the foil in the affected areas in case of the foil burns or melts during machining.

Fixing solutions for Trespa® TopLab® Vertical

There are different solutions for using Trespa® TopLab® Vertical as wall lining. General guidelines are given in this document on how to use mechanical or adhesive fixing solutions in combination with the TopLab® Vertical panel. Specific installation guidelines will be provided by the supplier of the chosen fixing solution.

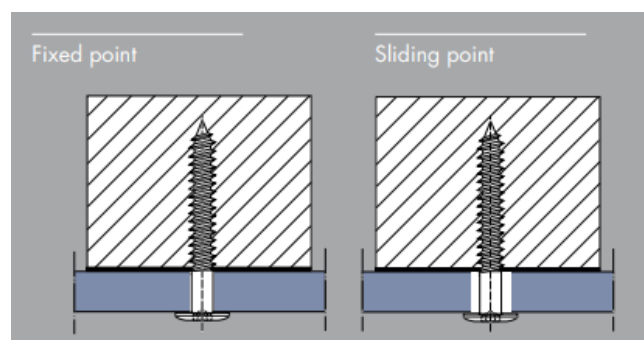
Important points to consider:

- Trespa® TopLab® Vertical panels must be installed on a subframe of sufficient strength and durability. Quality and/or treatment of the sub-frame must be in accordance with applicable building standards, regulations and certificates.
- When designing the final solution, one need to consider that between panels a joint needs to be designed. The joints should be at least 8 mm wide; flexible joint closures are possible. Check with suppliers of such joint closures on suitability of their products with wall lining solutions and High Pressure Laminates.
- Trespa® TopLab® Vertical panels, when mechanically fixed, must have one fixed point. Positioning depends on the format of the panel. The other fixing points within the panels are so called sliding points.

Fixed point – hole diameter: 5 mm for fast fixing screw
Other screws – equal to shank diameter of screw

Sliding point – hole diameter: 8 mm for fast fixing screw
Other screws - + 3 mm shank diameter of screw

Screws must always be centered in the holes and must not be overtightened.



VISIBLE FIXING WITH SCREWS ON TIMBER OR RIVETS ON ALUMINIUM

Trespa® TopLab® Vertical panels may be fixed to a timber sub-frame structure using special fastfix screws for Trespa panels or they may be fixed to a metal sub-frame structure using aluminum rivets for Trespa panels.

The sub-frame structure must be assembled in such a way that the area behind the panel can be ventilated in order to provide similar temperature and humidity on both sides of the panel.

When fixing panels with screws or rivets, it is important to ensure that panels can move freely and evenly. The diameter of all pre-drilled holes in the panels must be 8 mm when using fastfix screws that have a diameter of 4 mm. When using aluminium rivets that have a diameter of 5 mm, one hole – centrally positioned in the panel – must be pre-drilled with a diameter of 5,1 mm and all other holes must be pre-drilled with a diameter of 10 mm. A special nose-piece must be used on the riveting tool that keeps the head of the rivet 0,3 mm free from the surface of the panels.

All joints must be at least 8 mm wide.

Maximum panel length ('portrait' orientation): 3050 mm

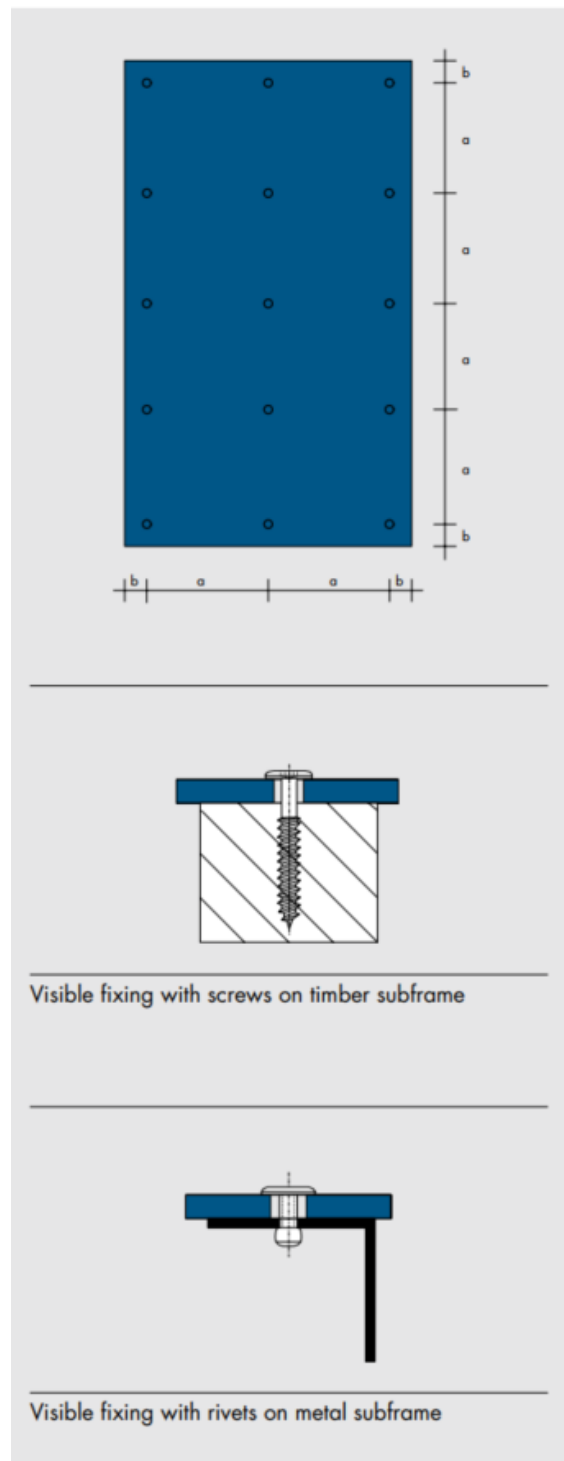
Fixing distances and edge clearances

a = horizontal and vertical fixing distance (see table)

b = edge fixing clearance

- minimum 20 mm
- maximum 10 x panel thickness

maximum fixing centers (mm)	panel thicknesses (mm)		
	6	8	10
2 fixings in one direction	450	600	750
3 or more fixings in one direction	550	750	900



INVISIBLE FIXING WITH ALUMINIUM RAILS AND BRACKET

Trespa® TopLab® Vertical panels can be fixed invisibly using aluminum rails and brackets. The brackets are attached to the panels with thread-cutting screws or inserts. Pre-drilled holes must be made in such a way that a residual thickness of at least 2mm remains on the visible side of the panel.

The sub-frame structure must be assembled in such a way that the area behind the panel can be ventilated to provide similar temperature and humidity on both sides of the panel.

All joints must be at least 8mm wide.

Maximum panel length ('portrait' orientation): 3050 mm

Fixing distances and edge clearances

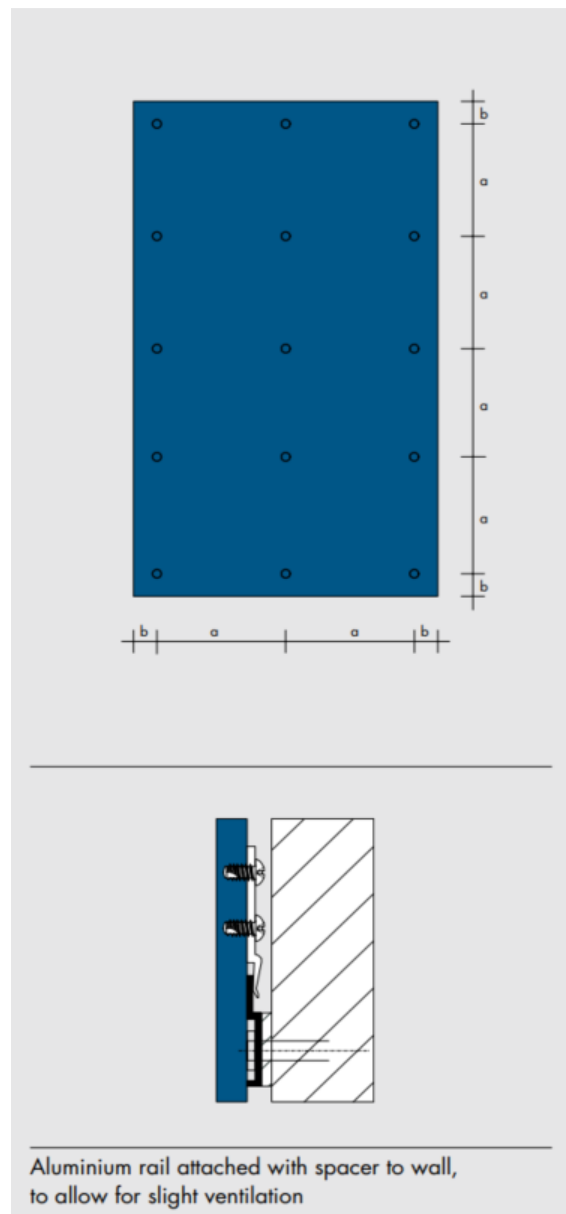
a = horizontal and vertical fixing distance (see table)

b = edge fixing clearance

minimum 20 mm

maximum 10 x panel thickness

maximum fixing centers (mm)	panel thicknesses (mm)	
	10	13
2 fixings in one direction	750	950
3 or more fixings in one direction	900	1200

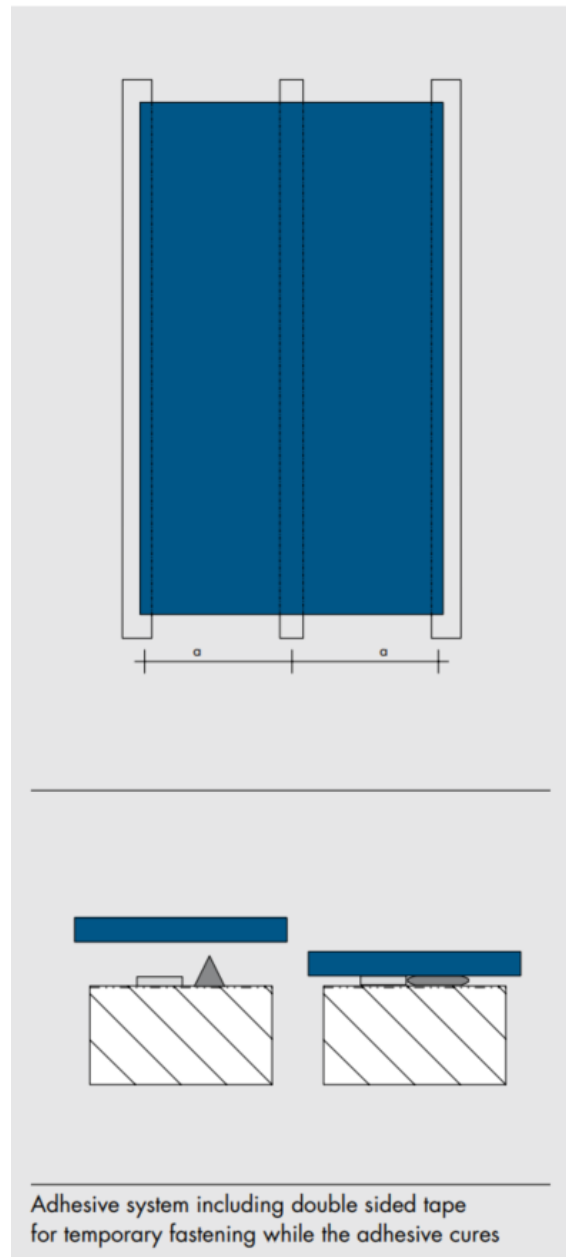


INVISIBLE FIXING WITH ADHESIVE

Trespa® TopLab® Vertical panels can be fixed onto a timber or metal sub-frame structure using special adhesive systems that enable dimensional change of wall lining and subframe. The guidelines of adhesive manufacturers must be followed in order to achieve high-quality connections. Trespa is not responsible for the selection or use of adhesive in fixing systems.

The sub-frame structure must be assembled in such a way that the area behind the panel can be ventilated so as to provide similar temperature and humidity on both sides of the panel. The adhesive beads must be applied only in a vertical direction and always in full height of the panel. All joints must be at least 8mm wide.

Information on maximum panel length and maximum fixing centers will be given in the detailed instructions from the adhesive manufacturer.



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