

INSTALLATION GUIDELINES FOR INTERIOR AND FURNITURE APPLICATIONS

General guidelines

- As a result of their composition, Trespa Athlon, Trespa Virtuon and Trespa TopLab^{PLUS} can expand and contract just like hard wood.
- The temperature and humidity acting on the front and rear sides should not differ over a long period of time.
- Undersides of horizontal workbenches and rear sides of vertical wall cladding should therefore be well ventilated.
- Panel edges should not be permanently wet. If panels are held in profiles, the profiles must be provided with drainage devices.
- When fixing panels it is important to take account of a maximum movement of 2.5 mm/m¹ (except laboratory benching). Drillholes and joints must be dimensioned accordingly.
- Do not fix screws too tightly in order to allow the panels to move.

Glueing

- Trespa panels can be glued to each other and to almost any other material with one or two part adhesives, e.g. epoxy or polyurethane adhesive systems.
- Glueing is in many cases carried out together with a mechanical joint to provide sufficient pressing during drying.

Glue type	Application	Open time	Pressure	Pressure time
Epoxy	100-250g/m ²	depends on type	0,2 N/mm ²	4-8 hours at 20°C
Polyurethane	100-250g/m ²	depends on type	0,2 N/mm ²	4-8 hours at 20°C

Please follow the instructions below for thickening the edges of panels with strips of Trespa:

- panels and strips must have the same “grain direction”;
- panels, strips and adhesive must be pre-conditioned in the same way (temperature and humidity preferably the same as the future conditions of use);
- remove grease from surfaces to be glued, slightly roughen them and ensure they are dust-free;
- in addition, the instructions provided by the adhesive supplier must be strictly observed.

Fixings

Choice of fixings and availability per country is dependant on national regulations. Contact your local Trespa office.

HORIZONTAL WRITING DESKS AND WORKTOPS

Product

Trespa TopLab^{PLUS} or Trespa Athlon
(Crystal Matt surface texture)

Thickness

≥ 13 mm.

Fixing

Fix with inserts or thread cutting screws. Maximum drillhole depth equals panel thickness minus 3 mm. Drillhole diameter in panels according to the instructions of the supplier of the fixing means. Drillholes in the support construction must allow the panels to move: fit slotted holes or allow diameter of the drillholes equals screw diameter plus 3 mm. If more than two panels are joined together (e.g. for long wall benches), slotted holes of sufficient length must always be made in the support construction.

Support construction

The support construction made of steel or aluminium must be sufficiently strong and rigid to withstand bending as a result of the load applied on top of the panel. If any other fittings are provided underneath the panel (drawers, boxes, pipes), then the support construction must be dimensioned accordingly.

Maximum support and fixing intervals

Writing desks and worktops supported at the edges.

Panel thickness	Panel width	Maximum panel length	
		Desktop load < 35 kg/m ²	Worktop load < 100 kg/m ²
13 mm	700 mm	unlimited	unlimited
	800 mm	unlimited	1200 mm
	900 mm	unlimited	900 mm
	1000 mm	1400 mm	
	1100 mm	1100 mm	
16 mm	800 mm	unlimited	unlimited
	900 mm	unlimited	1400 mm
	1000 mm	unlimited	1200 mm
	1100 mm	1800 mm	
	1200 mm	1500 mm	
20 mm	1300 mm	1300 mm	
	1000 mm	unlimited	unlimited
	1100 mm	unlimited	1500 mm
	1200 mm	unlimited	1200 mm
	1300 mm	1800 mm	
25 mm	1400 mm	1600 mm	
	1500 mm	1500 mm	
	1100 mm	unlimited	unlimited
	1200 mm	unlimited	2000 mm
	1300 mm	unlimited	1700 mm
	1400 mm	2600 mm	1400 mm
	1500 mm	2200 mm	

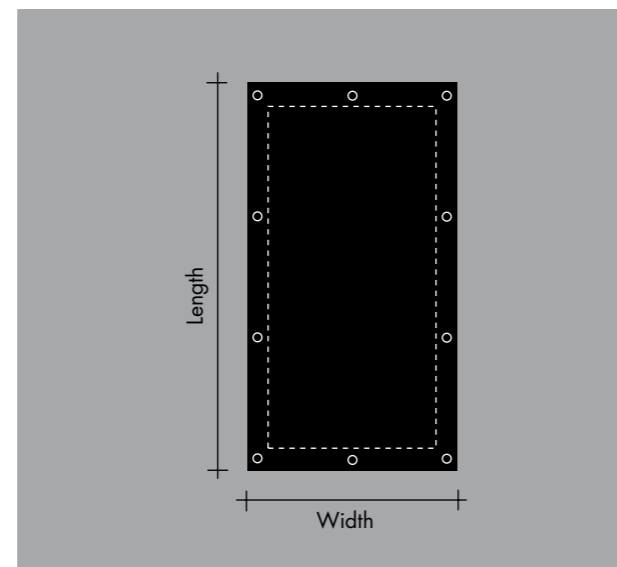
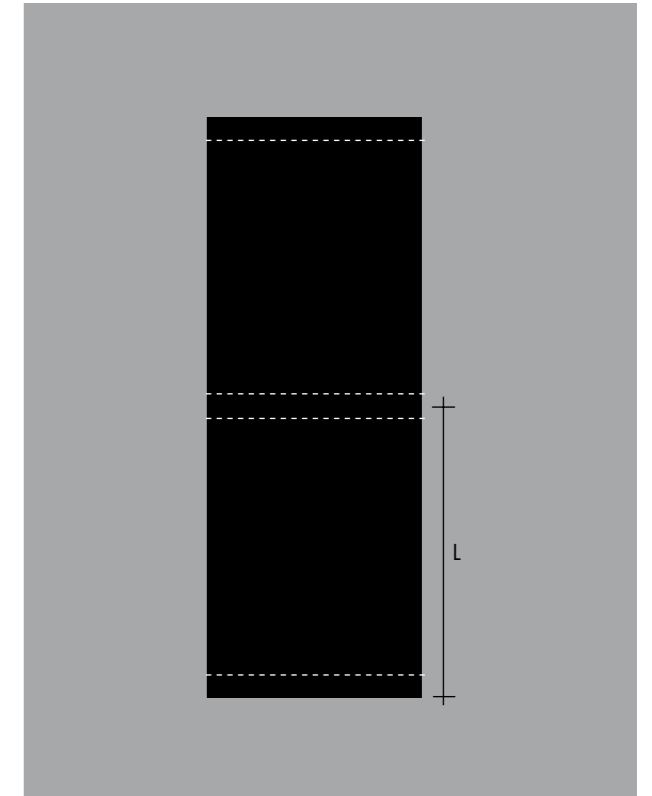
Span over 2 or more supports

Number of supports	Panel thickness	Maximum support interval L	
		Writing desk load < 35 kg/m ²	Worktop load < 100 kg/m ²
2	13 mm	850 mm	700 mm
	16 mm	950 mm	800 mm
	20 mm	1100 mm	900 mm
	25 mm	1300 mm	1100 mm
3	13 mm	1050 mm	850 mm
	16 mm	1200 mm	1000 mm
	20 mm	1400 mm	1150 mm
4	25 mm	1500 mm	1350 mm
	13 mm	1000 mm	800 mm
	16 mm	1000 mm	950 mm
	20 mm	1000 mm	1000 mm
	25 mm	1000 mm	1000 mm

(the maximum panel length is 3050 mm!)

Fixing intervals

- Minimum distance from the edge: 20 mm.
- Maximum distance from the edge: 150 mm.
- At least 6 screws per m² of panel surface area.
- Distribute screws evenly throughout the support construction.



LABORATORY WORKTOPS

Product

Trespa TopLab^{PLUS} or Trespa Athlon
(Crystal Matt surface texture)

Durability, maintainability, reliability and aesthetics are optimised when the worktop is machined correctly. Trespa panels can be tailored to the technical discipline of the laboratory. Requirements such as: safety, ergonomics, cleanability, and environmental demands, can all be met through the adaptation of the worktop to your specific needs.

Some examples of how Trespa panels can be adapted to particular work needs and conditions are illustrated on the reverse of this sheet.

Minimum standards of design

Joints

It is recommended that the joint between two benches should be level, strong and easy to clean (dependent on specification). As a general rule joints should be away from sink areas and over or near supports. It is generally accepted that the distance from a joint to the end of bench should be greater than the overall width of the bench.

Edges

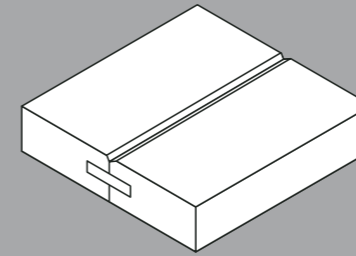
Edges should be safe, free from saw marks and jagged edges. For better appearance it is advised to polish edges.

Accessories

The machinability of Trespa panels allows the easy incorporation of sinks (stainless steel, epoxy, polypropylene), drip cups (polypropylene) and marine edges (Epoxy).

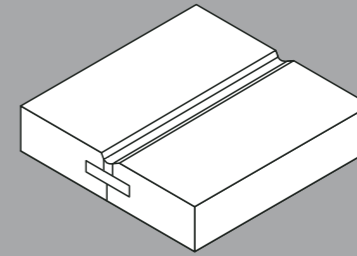
Joints

Chemical and analytical areas



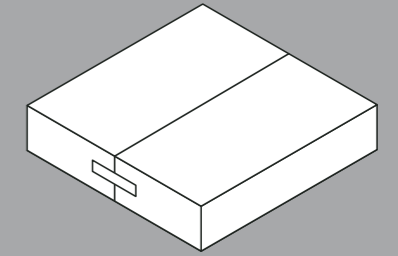
- Spline joint with chamfer
- Chamfer will reduce the likelihood of chipping caused by sliding heavy objects
 - Will disguise any irregularities in the levels of two adjoining bench worktops

Biological and clinical areas



- Spline joint with sealant
- Specified where hygiene and cleanliness are important
 - Sealant can be cleaned, removed and replaced if necessary and reduces the likelihood of penetration by liquids

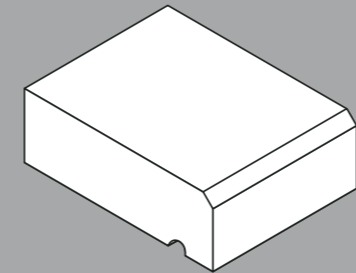
Physical and educational areas



- Standard spline joint
- Spline assists the joining of two separate panels
 - Establishes a strong joint

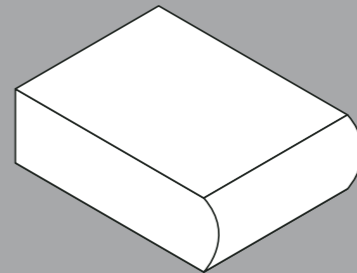
Edges

Chemical and analytical areas



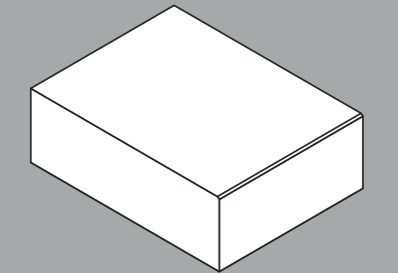
- Chamfer edge and drip groove
- Size of chamfer is recommended to be at least 2 mm
 - Chamfer reduces instances of chipping to surface edge
 - Drip groove minimizes the risk of hazardous chemicals finding their way into under bench draws and storage areas

Biological and clinical areas



- Crescent edge
- Decorative edge for dry areas and write-up benches
 - Easy to decontaminate

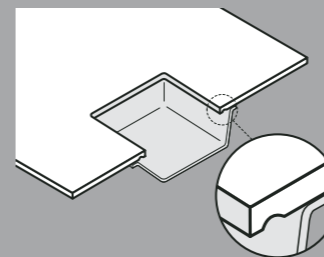
Physical and educational areas



- Standard edge (chamfer)
- Size of chamfer is recommended to be at least 2 mm

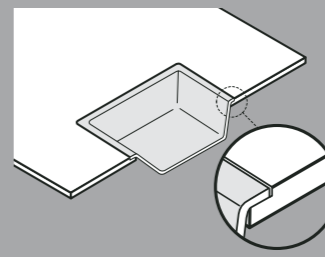
Sink holes

Chemical and analytical areas



- Sink hole with edge drip groove for underslung sink
- Drip groove helps to prevent liquid spills creeping through joints and into underbench areas
 - Spills can easily be wiped into the sink

Biological and clinical areas



- Sink hole with finish as cut for drop in sink
- Easy to clean where contamination is a concern
 - Ensures the integrity of experiments
 - Drop in sinks are advised where contaminated liquids are used

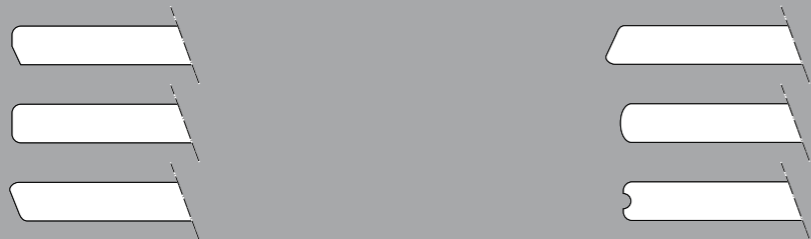
FURNITURE INSTALLATION DETAILS

Product

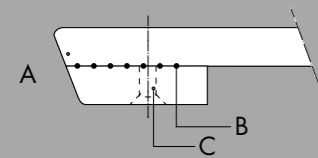
Trespa Virtuon and Trespa Athlon are very well suited for applications requiring detailed design work and subtle finishing effects.

Edge finish on the work surface

Single ply

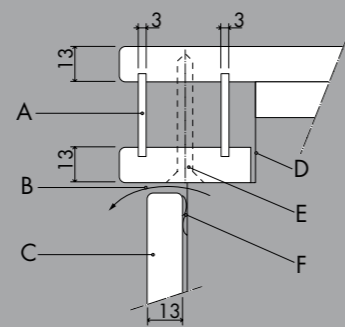


Double ply



- A Planing after the glue has hardened
- B Glued joint
- C Mechanical joint
- Screw diameter: 4.5 mm, pre-drill with 4 mm diameter

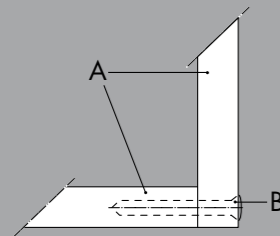
Double ply with connector



- A Trespa 3 mm
- B Ventilation
- C Door
- D Body
- E Mechanical joint
- Screw diameter: 4.5 mm, pre-drill with 4 mm diameter
- F Door stops (rubber, PVC)

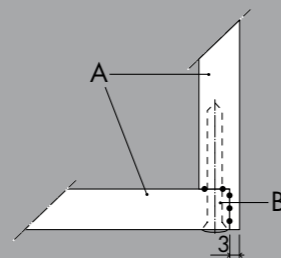
Corner joint

Screw-fixed



- A Trespa 13 mm
- B Screw: 4.5 x 35 mm. Pre-drill with 4 mm diameter, depth 25 mm. If desired, place cover cap every ± 250 mm. Minimum distance from the edge: 20 mm.

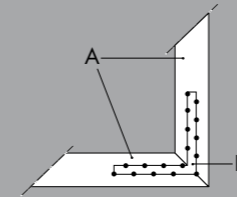
Screw-fixed/glued with recess



- A Trespa 13 mm
- B Screw: 4.5 x 35 mm. Pre-drill with 4 mm diameter, depth 25 mm. Minimum distance from the edge: 20 mm

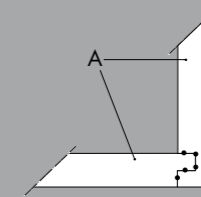
Corner joint

With glue-fixed L profile



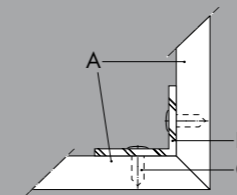
- A Trespa 13 mm
- B Aluminium L profile 30 x 30 x 3 mm

Glued



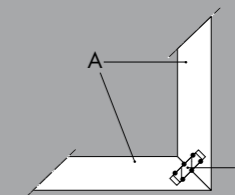
- A Trespa 13 mm

With screw-fixed L profile



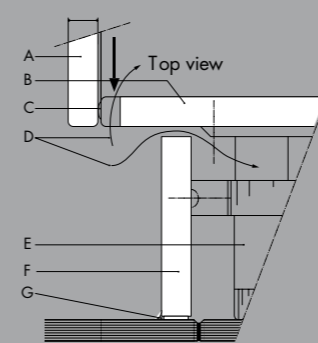
- A Trespa 13 mm
- B Aluminium L profile 30 x 30 x 3 mm
- Mechanical joint every ± 100 mm
- C Screw: 4 x 12 mm, pre-drill with 3 mm diameter, depth 10 mm

With glue-fixed tongue



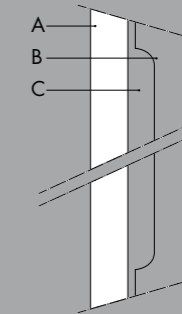
- A Trespa 13 mm
- B Aluminium or Trespa tongue

Bottom edge-finish



- A Door
- B Bottom panel
- C Door stop
- D Ventilation
- E Adjustable legs
- F Skirting (clicked)
- G Silicone sealing mastic

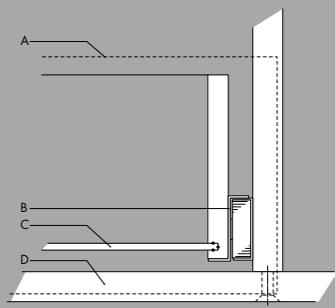
Top view



- A Door
- B Bottom panel
- C Ventilation spaces to improve ventilation, especially if high moisture levels are likely

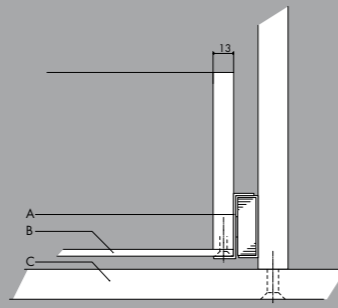
Drawer finish

Glue-fixed drawer base



- A Drawer front
- B Drawer rail
- C Drawer base in Trespa 3 mm
- D Bottom panel in Trespa 13 mm

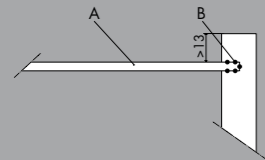
Screw-fixed drawer base



- A Drawer rail
- B Drawer base in Trespa 3 mm or 6 mm (large surfaces)
- C Bottom panel in Trespa 13 mm

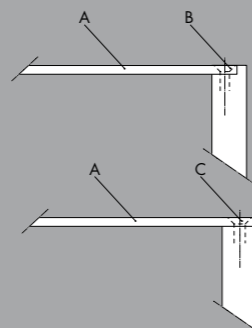
Back panel finish

Glue-fixed with 3/6mm Trespa



- A Back panel in Trespa 3 mm or 6 mm
- B Glue

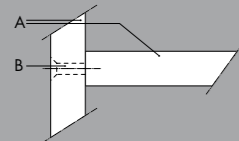
Screw-fixed with 3/6mm Trespa



- A Back panel in Trespa 3 mm or 6 mm
- B Screw diameter: 3.5 x 20 mm, Pre-drill diameter: 3 mm, depth: 20 mm
- C Screw diameter: 4.5 x 35 mm, Pre-drill diameter: 4 mm, depth: 35 mm

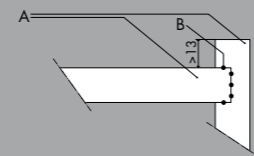
T joints

Screw-fixed



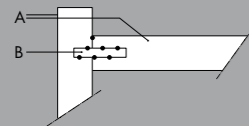
- A Trespa 13 mm
- B Mechanical joint. Screw diameter: 4.5 x 35 mm. Pre-drill diameter 4 mm, depth: 35 mm. Cover cap optional.

Glue-fixed with groove



- A Trespa 13 mm
- B Glue

Glue-fixed with tongue

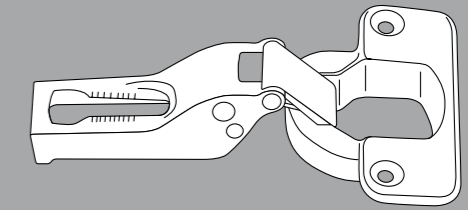


- A Trespa 13 mm
- B Aluminium or Trespa tongue or lamellas

Hinges

- stainless steel concealed hinges: use where high demands are placed on corrosion resistance and chemical resistance;
- galvanised steel: for the remaining applications.

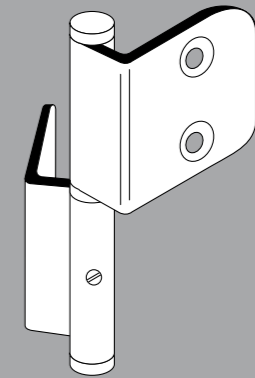
Important: if 13 mm thick doors are used, the drilldepth is 11 mm maximum, which makes some hinges unsuitable. Doors thicker than 13 mm are suitable for all hinges. The manufacturers instructions regarding maximum load, number of hinges, etc., should always be taken into account.



- stainless steel: use where high demands are placed on corrosion resistance, chemical resistance, cleanability, etc.

Important: this hinge has the following properties:

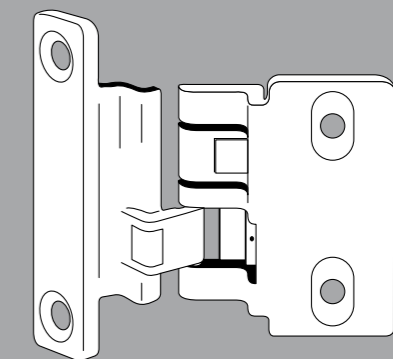
- corrosion resistant;
- high resistance to chemicals;
- wide opening angle up to 240°;
- the entire cupboard space can be used.



- stainless steel: use where high demands are placed on corrosion resistance and chemical resistance;
- galvanised steel: for the remaining applications.

Important: this hinge is available with single or double hinge, with or without catch:

- special single-axle hinge;
- wide opening angle up to 240°;
- suitable for module systems;
- 5 mm thick pin;
- level with side panel when 13 mm panel is used.



PARTITIONS

Product

Trespa Virtuon (Satin texture) and Trespa Athlon (Quartz texture)

Thickness

13 mm upwards (most suppliers of auxiliary equipment match their products to this panel thickness).

Fixing

Foot brackets, wall brackets, profile systems and suspending and locking devices must be of a sufficiently heavy design to be able to support the weight of the panels, and to withstand the mechanical strains acting on the panels.

Maximum fixing intervals when fixed on supports

- On the top and bottom sides of supported panels:
 - maximum panel height 2100 mm;
 - maximum distance from the edge R 150 mm.

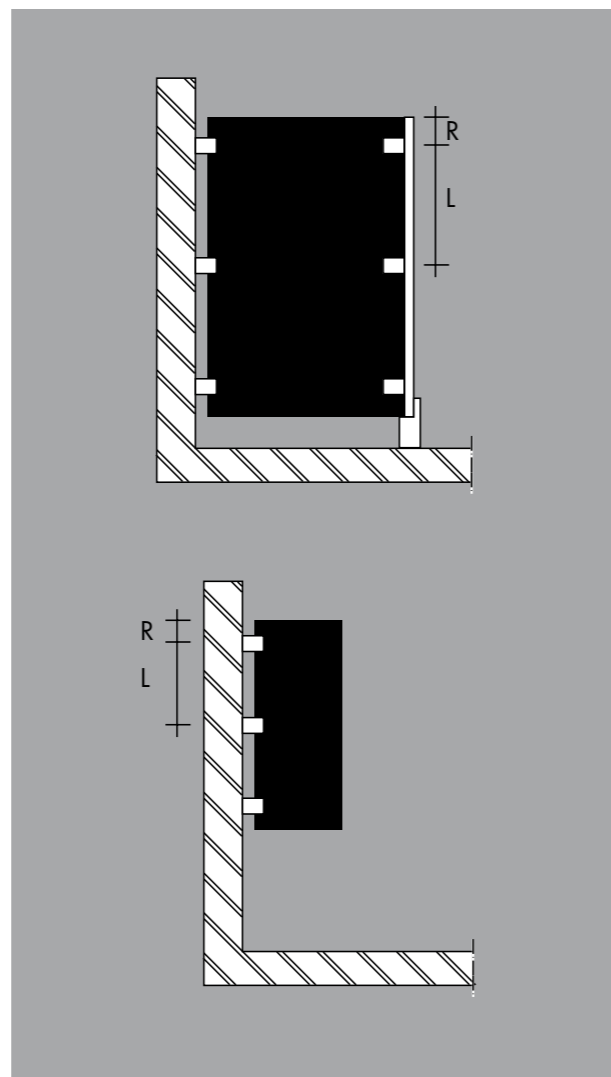
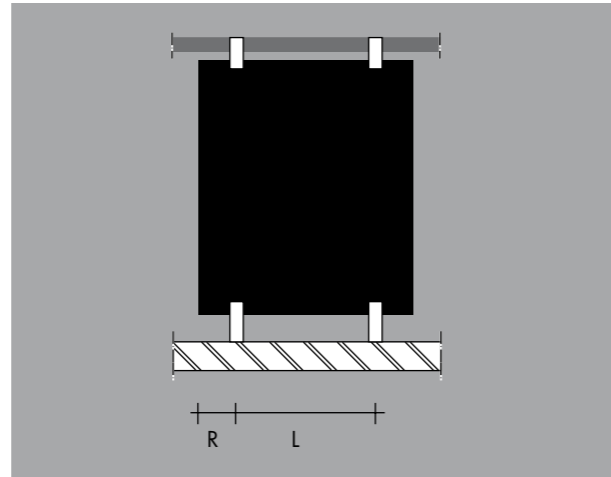
Panel thickness	Maximum fixing interval L	
	2 supports	3 or more supports
13 mm	950 mm	1200 mm
16 mm	1100 mm	1350 mm

- Panels supported on both vertical sides
 - Maximum distance from the edge R 150 mm.

Panel thickness	Panel width	Maximum fixing interval L	
		2 supports	3 or more supports
13 mm	< 1200 mm	800 mm	900 mm
16 mm	< 1350 mm	950 mm	1050 mm

- Panels supported on one vertical side
 - Maximum distance from the edge R 100 mm for 10 mm panels.
 - Maximum distance from the edge R 150 mm for 13 mm and 16 mm panels.

Panel thickness	Panel width	Maximum fixing interval L	
		2 supports	3 or more supports
10 mm	< 300 mm	400 mm	500 mm
13 mm	< 400 mm	500 mm	600 mm
16 mm	< 450 mm	550 mm	650 mm



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Trespa International B.V.

Trespa International B.V. specialises in high quality panel material for façade cladding and interior use. Trespa has both the expertise and the means to develop products for specific segments of the market. Trespa is continually looking for ways to protect the environment even more effectively.

Trespa guarantees quality of both products and services. We offer our customers optimal technical support as well as straightforward documentation. Proof of this approach is the award of the ISO 9001 and ISO 14001 certificates.



Whatever your requirements, Trespa offers a full support service. Please contact us for further information.

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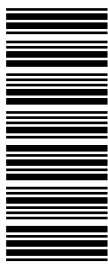
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