Wall cladding.
Impact edges/bumper rails.

Design

interior

ATHLON

TRESPA®

All the best qualities in one panel

Contents

General information.

Trespa Athlon is

- a high quality panel material from Trespa International BV
- specially developed for durable interior fittings
- flexible and functional in a wide range of architectural applications
- technically of high quality
- economical
- ecological.

Product data Trespa Athlon.

Material properties Trespa Athlon

Properties		Value	Unit	Standard
Physical properties				
Specific gravity		*± 1.400*	*kg/m³*	*ASTM-D 792-91*
Weight	*Thickness 6 mm*	*8.5*	*kg/m²*	
	Thickness 13 mm	*18.5*	*kg/m²*	
	Thickness 16 mm	*22.5*	*kg/m²*	
	Thickness 20 mm	*28.0*	*kg/m²*	
Panel tolerance				
	Length & Width	*- 0.0/+5*	*mm*	
	Thickness	*± 0.5 for 6,8,10*	*mm*	
		± 0.6 for 13,16	*mm*	
		± 0.7 for 20	*mm*	
		± 0.8 for 25	*mm*	
Optical properties				
Changes when subjected to dry heat (maximum temperature of 180°C)				*EN 438-2 (8)*
	gloss	*5 (= no changes)*		
	colour	*5 (= no changes)*		
	cracking	*5 (= no changes)*		
Mechanical properties				
Modulus of elasticity		*≥ 10.000*	*N/mm²*	*DIN 53457*
Tensile strength		*≥ 70*	*N/mm²*	*DIN 53455*
Flexural strength		*≥ 100*	*N/mm²*	*DIN 53452*
Surface impact resistance		*4*	*Index number*	*EN 438-2 (11)*
Scratch resistance				
Plain colours, light		*4*	*Index number*	*EN 438-2 (14)*
Plain colours, dark		*3*	*Index number*	*EN 438-2 (14)*
Wear resistance				
All plain colours		*3*	*Index number*	*EN 438-2 (6)*
Fantasy decors		*2*	*Index number*	*EN 438-2 (6)*
Water absorption		*≤ 1.0*	*% weight*	*EN 438-2 (7)*
Dimensional stability		*≤ 2.5*	*mm/m*	
Thermal properties				
Thermal conductivity coefficiënt		*± 0.3*	*W/mK*	*DIN 52612*
Application temperature				
- constant		*-40 to 130*	*°C*	
Chemical properties				
See datasheet chemical properties				
Fire behaviour				
Great Britain		*Type FR: class 0*		*BS 476 Parts 6-7*
Fire classification		*Type Standard: class 2*		*Building Regulations*
The Netherlands		*Type FR: Klasse 1*		*NEN 6065*
Brandklasse		*Type Standard: Klasse 2*		*NEN 6065*
Germany		*Typ FR: Klasse B1*		*DIN 4102*
Baustoffklasse		*Typ Standard: Klasse B2*		*DIN 4102*
France 6-8-10-13-16-20 mm		*Type FR: Classement M1*		*NF P 92-507*
6-8-10-13-16-20 mm		*Type Standard: Classement M3*		*NF P 92-507*
Belgium		*Type FR: Klasse A1*		*NBN S21-203*
		Type Standard: Klasse A2		*NBN S21-203*

Applications and delivery programme.

Form and compilation

Trespa Athlon is a flat decorative panel based on thermosetting resins, homogeneously reinforced with cellulose fibres and manufactured under high pressure and temperature. Using special techniques, the panels have an integrated, decorative surface made of melamine impregnated paper. Trespa Athlon complies with the European standard EN 438.

Trespa Athlon is specially developed for durable interior fittings. The panel is resistant to scratches, wear, moisture and to a large degree resistant to chemicals.

Trespa Athlon is often used for:

- project furniture
- wall cladding in bathrooms and treatment rooms
- cleanrooms such as operating theatres, laboratories, production rooms for foodstuffs, pharmaceuticals, cosmetics, electronic equipment etc.
- bumper rails
- changing cubicles, lockers
- wall cladding and party walls for showers and sanitary units
- laboratory furniture

Trespa Athlon is often used in:

- offices
- hotels
- universities and teaching institutions
- sports and recreation centres
- camp sites
- food industry
- hospitals
- care and nursing centres
- public buildings

The product programme

Sizes:
- 3050 x 1530 mm
- 2550 x 1860 mm

Thicknesses:
6, 8, 10, 13, 16 and 20 mm

Colours:
- more than 36 primary and pastel plain colours
- 16 speckled decors (Futuriq)
- 21 fantasy decors (Imagiq: Nuages, Fibres, Craquelee) and 6 wood decors (Naturiq).

Surface structures:
- Quartz: a surface structure with a flowing, even texture, recommended for vertical applications.
- Crystal matt: a very fine surface structure with a matt gloss, recommended for horizontal applications.

Types:
- Standard - black core
- Fire resistant (FR) - brown core.

Trespa also offers Athlon corner profiles for the perfect linking-up to Trespa Athlon flat panels (with the same colour and surface structure). They are available with double-sided colour and Quartz structure. Furthermore, unlimited single-sided corner solutions in various sizes and radii can be made with the process Postforming.

Standard corner profile sizes:
1860 x 300 x 300, radius 20 mm
3050 x 300 x 300, radius 20 mm

Standard corner profile thicknesses:
8, 10 and 13 mm

Further information
We will be pleased to send you a detailed delivery programme and/or extensive colour documentation.

Trespa Athlon.

The excellent mechanical and surface properties of Trespa Athlon make this panel ideal for use as wall cladding in damp rooms, or rooms which require intensive cleaning. Trespa Athlon is not adverrily affected by moisture and is not susceptible to weathering, mould or rot. Dirt cannot cling to the non porous surface and the closed core, so the material is easy to clean and disinfect - even using weak solutions.

The panel material can be sawn, routered and drilled with the usual tools for hardwoods. There is no requirement to finish the edges because of the closed, impact-resistant core.

Trespa Athlon conforms to the requirements of the FDA (Food and Drugs Administration) for use in the food industry. The panel material can come into direct contact with foodstuffs during preparation and preservation without any problems.

According to DIN 51953, Trespa Athlon is classed as an antistatic material. This makes the panel ideal for applications in areas such as clean rooms, the optical industry and as computer furniture.

Trespa is penetrated by X-rays and is therefore often used in the medical and nursing sector.

Trespa Athlon is easy to install. It can be fixed visibly, semi-blind or blind with the invisible fixing offering high pull-out resistance. The panel material does not cause corrosion of the fixings.

It maybe necessary to fit supply and wiring systems in the wall construction. These can be concealed behind the panel.

Trespa Athlon, in combination with suitable insulating materials, is well suited as dividing elements in rooms which require good noise and heat insulation and high fire resistance. Trespa Athlon (Crystal Matt and Quartz) is highly resistant to burning cigarettes. They do not damage the surface and leave no permanent marks. The fire behaviour of both types of Trespa Athlon is comparable to that of hardwood. The panel material does not melt, drip or explode and retains its stability for a long time.

The fire resistant type (FR) has been classed by several European test institutes in the best class for fire behaviour of organic material.
In France this type has also been tested according to the standards NFX 70 100 and NFX 10 702 for emissions of toxic and corrosive gases. The result of these tests is the F1 classification, the most favourable class for organic building material.

Incineration in industrial furnaces (temp. > 720° C) will not release harmful, corrosive gases and results in an energy recovery of approximately 18 GJ/1,000 kg of Trespa Athlon.

WALL CLADDING

Characteristics.

Trespa Athlon is often fitted as a so-called suspended cladding element.
This means that the material is assembled on a supporting subframe.
The panel is fixed visibly with screws or invisibly with the help of an aluminium construction or glue on a wall or structure behind the panel. This wall or structure can consist of timber, steel or aluminium vertical and horizontal battens, either unfinished or finished with for instance plasterboard, or it may be a solid brick or concrete wall.
The most commonly used fixing method for Trespa Athlon panels in interior applications is blind fixing. The drawings opposite give a general impression of the various fixing methods.

A. Wall cladding on vertical and horizontal battens.

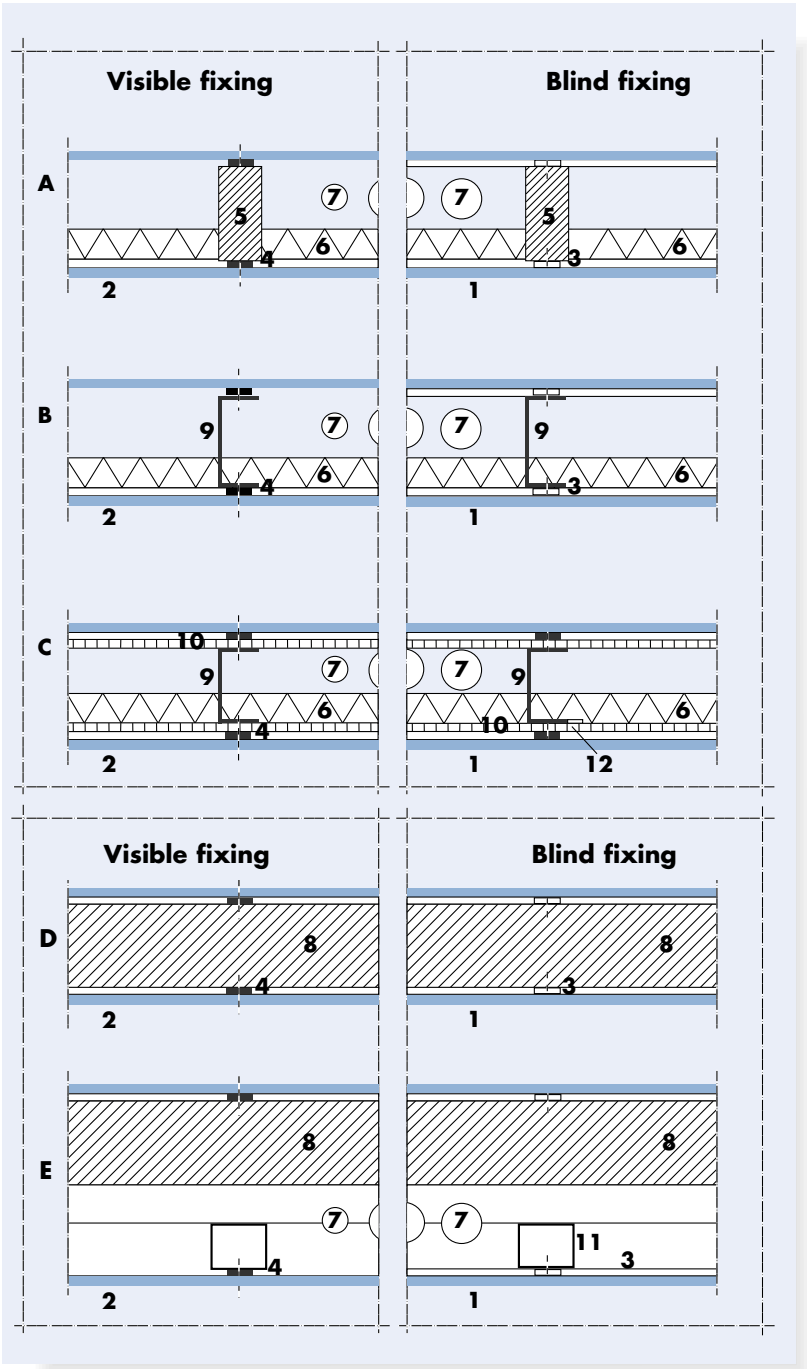
B. Wall cladding on metal vertical and horizontal battens.

C. Wall cladding on metal vertical and horizontal battens with plasterboard.

D. Wall cladding on solid wall.

E. Installation cladding with self-supporting subframe.

1. Trespa Athlon panel 8 mm
2. Trespa Atlon panel 6 or 8 mm
3. Aluminium auxiliary construction.
4. Vertical batten
5. Vertical timber battens
6. Insulating material
7. Cables
8. Solid wall
9. C section
10. Plasterboard
11. Box section
12. Adhesive system



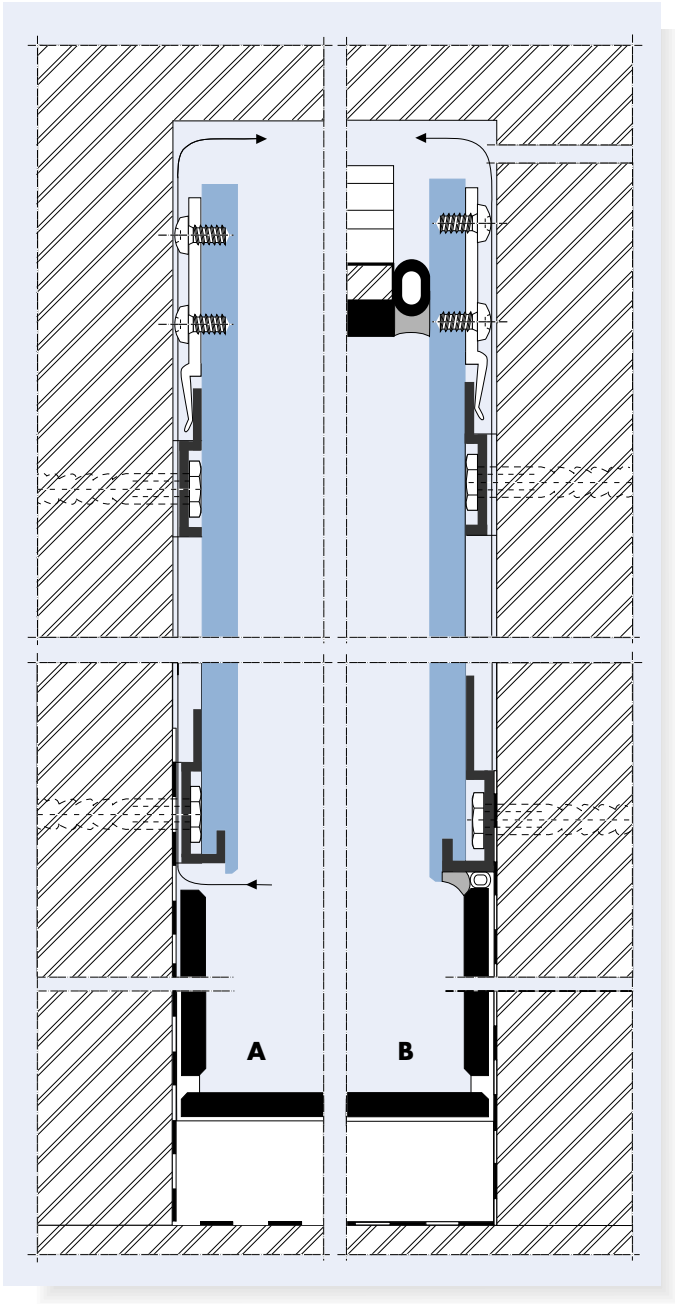
Moisture regulating fixing system.

Apart from being used as wall cladding, Trespa Athlon is also used for installation cladding, column cladding and as bumper rails. Special fixing systems for suh applications are shown in the relevant drawings. The details given are not specific, but they demonstrate the general principle.
The main details in the following sections differentiate between fully back ventilated and semi-sealed wall cladding. The difference between the two is apparent in the vertical cross-sections. The difference in the horizontal cross-sections is simply whether or not the joints are sealed with mastic.

In the case of damp subframes such as new masonry, new plasterwork, damp walls made of concrete, etc., extra ventilation must be provided until the relative moisture on both sides of the construction is equal.

A. Fully back ventilated wall cladding.
The Fully back ventilated wall cladding is distinguished by:
- open floor and ceiling connections
- horizontal or vertical profiles mounted to provide spacing.

B. Semi-seales wall cladding.
The semi-seales wall cladding is distinguished by:
- the interconnected open space between the rear wall and the space above the (system) ceiling.
- the horizontal profiles mounted to provide spacing
- the closed joints, e.g. ceiling and floor connections.



A. Fully back ventilated wall cladding.
Vertical cross-section

B. Semi-seales wall cladding. Vertical cross-section

Joints.

In view of possible changes in size as a result of moisture and temperature changes, joints should be left free both for vertical and horizontal connections in such a way that the panel material can move by 2.5 mm/m[1] maximum. Thanks to the excellent workability of the material, it is possible to precisely seal vertical and horizontal joints without auxiliary profiles. For panel thicknesses from 8 mm upwards it is possible to make joints in the form of rebated joint connections or as tongue and groove connections.

Horizontal joints

Either tongue and groove connections or rebated joint connections can be used for horizontal joints. The joint must be made in such a way that the panels can move by 2.5 mm/m[1] maximum.The recess in the rebated joint must measure at least 2 x the joint width.

Vertical joints

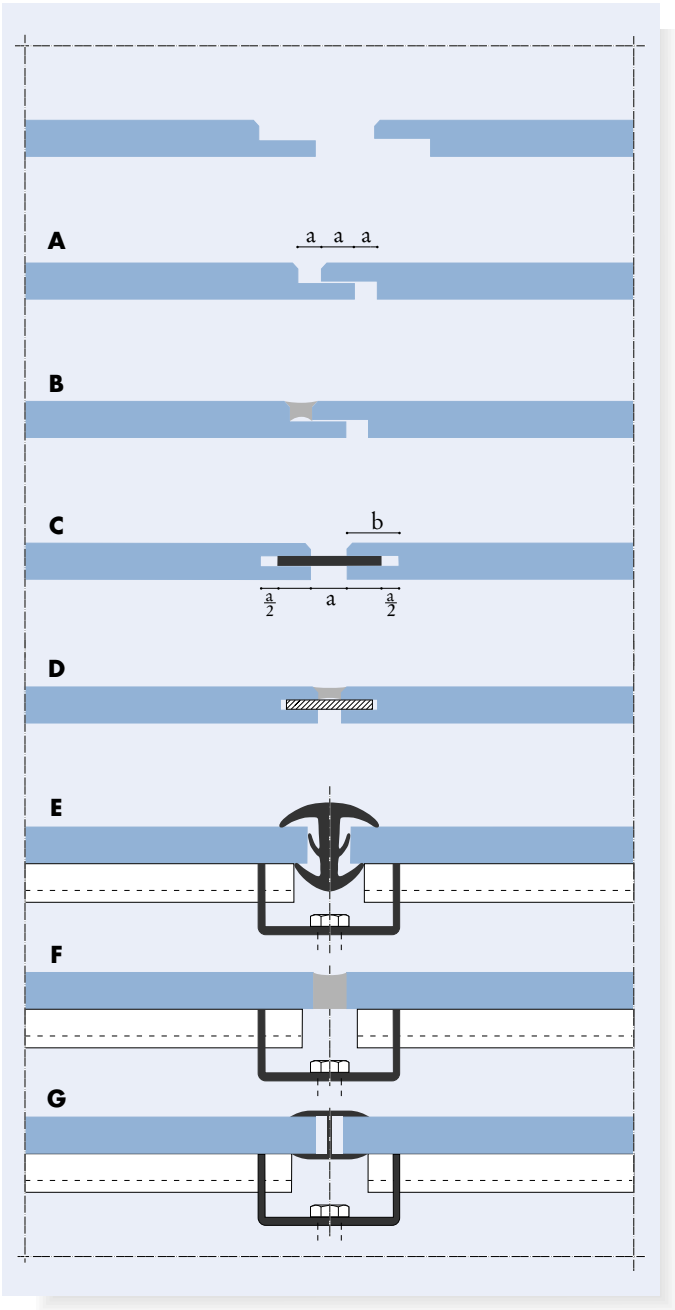
The tongue and groove connection can be used for vertical joints. The panel thickness left on each side of the groove must be at least 2.9 mm. If a Trespa Athlon groove is used, the panel thickness must be 10 mm. If an aluminium groove is used, a panel thickness of 8 mm is sufficient.

Joint sealing using mastic.

When Trespa Athlon is used for interior applications where high standards of hygiene and disinfection are required, wall constructions with airtight seals are often chosen. The joints are then sealed with an elastic mastic. This sealing material must be mould repellent (ISO 846) and resistant to disinfectants, if it is used in the aforementioned applications. What's more it is necessary for the adhesion between the sealing material and the panel to withstand draughts, damp, dust and dirt. It is recommended to use Trespa Athlon in combination with silicone mastic or polyurethane.

Important guidelines for applying elastic sealing material:
- The joint must be absolutely clean, dry and free of grease.
- If necessary, a primer must be used to facilitate adhesion.
- The sealing material must on no account adhere to the reverse side (adhesion on three sides) because this can cause cracking. It is advisable to use a separating film or polyethylene tongue.
- To ensure that the sealing material is not under excessive strain, the joint must be sufficiently wide and the depth of the joint should not be greater than the width of the joint.
- If the joints turn out to be too deep, then a backing which is appropiate for the sealing material must first be applied.

For specific processing instructions, see the guidelines provided by the relevant supplier.



a ≥ 8 mm
b ≥ 15 mm

A, C and G: For damp rooms
B, D, E and F: For clean rooms such as operating theatres.

Corner solutions.

Flat panel

When joining Trespa Athlon panels in a corner it is important to take account of the movement of the panel. To avoid tension in the joint it is advisable to keep the leg length of the corner element as small as possible (at most 400 mm).

From a panel thickness of 8 mm upwards, prefabricated corner elements are available.
Adhered connections must always be combined with a mechanical connection. A 2-component polyurethane glue can be used to adhere Trespa Athlon parts together. The parts to be adhered must have the same "grain direction" (both cut from the length or from the width of the panel).

The recommended solution for impact-absorbing applications such as bumper rails is an external corner as shown in detail **A**. If the solution shown in detail **F** is used, the outer corner must be well faceted.

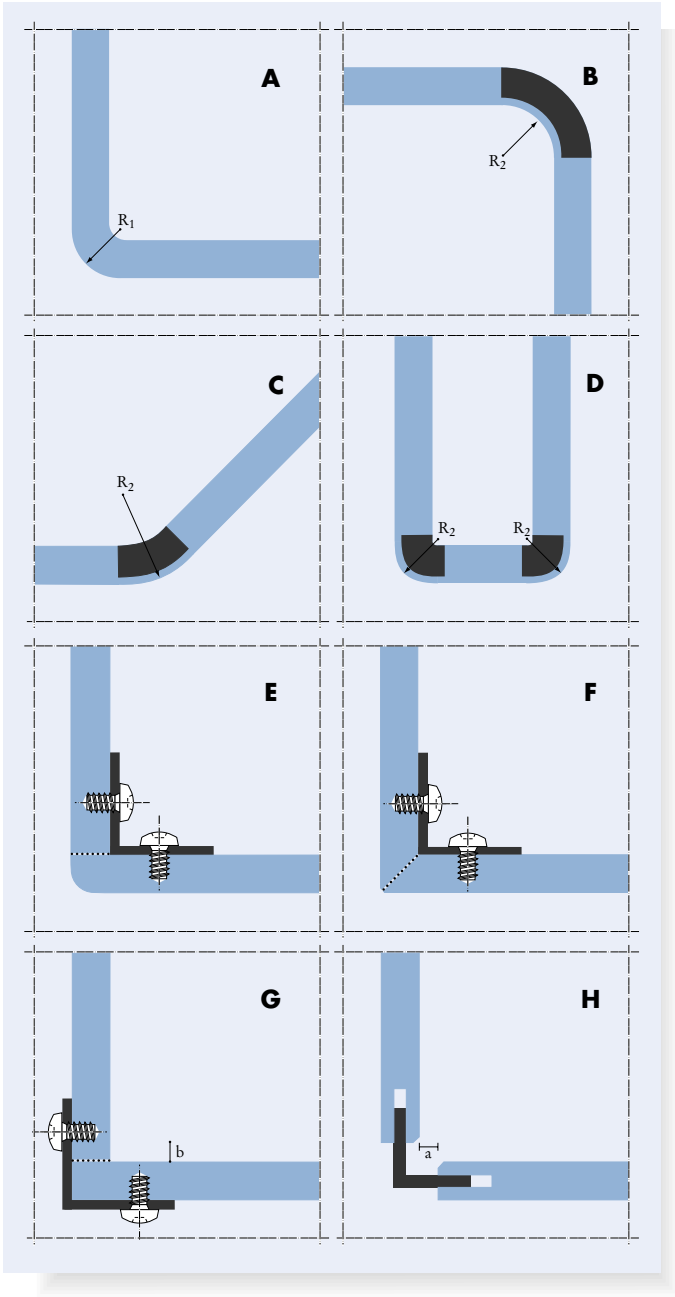
Postforming

Using the modified Trespa Athlon panel it is possible to make almost unlimited "individual" corner solutions in various sizes and radii (R>15 mm).

Trespa Athlon corner profiles

These are the ideal solution for particularly difficult applications or where a decorative effect is required on both sides. Corner elements are available in a length of 3050 mm and 1860 mm with an outer radius of 20 mm and a leglength of 300 mm.

Trespa Athlon panels can also be joined together in corners in various other ways:
- glued aluminium or plastic corner profile
- glued aluminium or plastic tongue
- tongue and groove joint with support



A. Trespa Athlon corner profile, inner and outer corner
B. Subsequently shaped inner corner
CD. Subsequently shaped outer corner

EF. Compound outer corner
GH. Compound inner corner

$a \geq 4$ mm
$b \geq 5$ mm
$R_1 = 20$ mm
$R_2 \geq 15$ mm

FIXING SYSTEMS

General guidelines

Trespa is fitted to a suitable subframe with corrosion resistants devices in such a way that the panels are not subjected to tension and cannot work loose as a result. It is important when determining the subframe to take account of the following points:

- the load-bearing requirements
- maximum fixing distances for the panels
- the necessary ventilation or moisture regulating provisions
- the unrestricted ability of the panels to move
- the available panel sizes
- the thickness of any insulating layer
- the anchoring options in the building (wall) construction
- legal requirements

Fixing

The following methods can be used for fixing Trespa panels. It is also possible to vary or combine the methods. The drawings in this brochure illustrate the principles of the fixing systems, but do not indicate particular brands.

- visible fixing with screws
- blind fixing with screws or inserts
- blind fixing with continuous integrated panel brackets
- blind fixing with adhesive
- semi-blind fixing with metal tongues or joint profiles

Visible fixing with screws.

Installation

Visible fixing can be used for panels with a thickness from 6 mm. Panels with a thickness of > 8 mm can be fixed invisibly.

It is extremely important when fixing panels to ensure that they can move freely and evenly. The diameter of pre-drilled holes must be at least 3 mm greater than the screw diameter. Screws with countersunk heads must not be used, as they restrict the ability of the panels to move. The screw must be properly centered in the drillholes.

From a panel thickness of 8 mm upwards, a recessed screw can be used, possibly covered with a plastic cap flush with the face of the panel (diagram A). It is also possible to use the quick assembly screws designed for Trespa. The drillhole diameter must then be 8 mm (diagram B). The screw must be perfectly centered.

General remarks

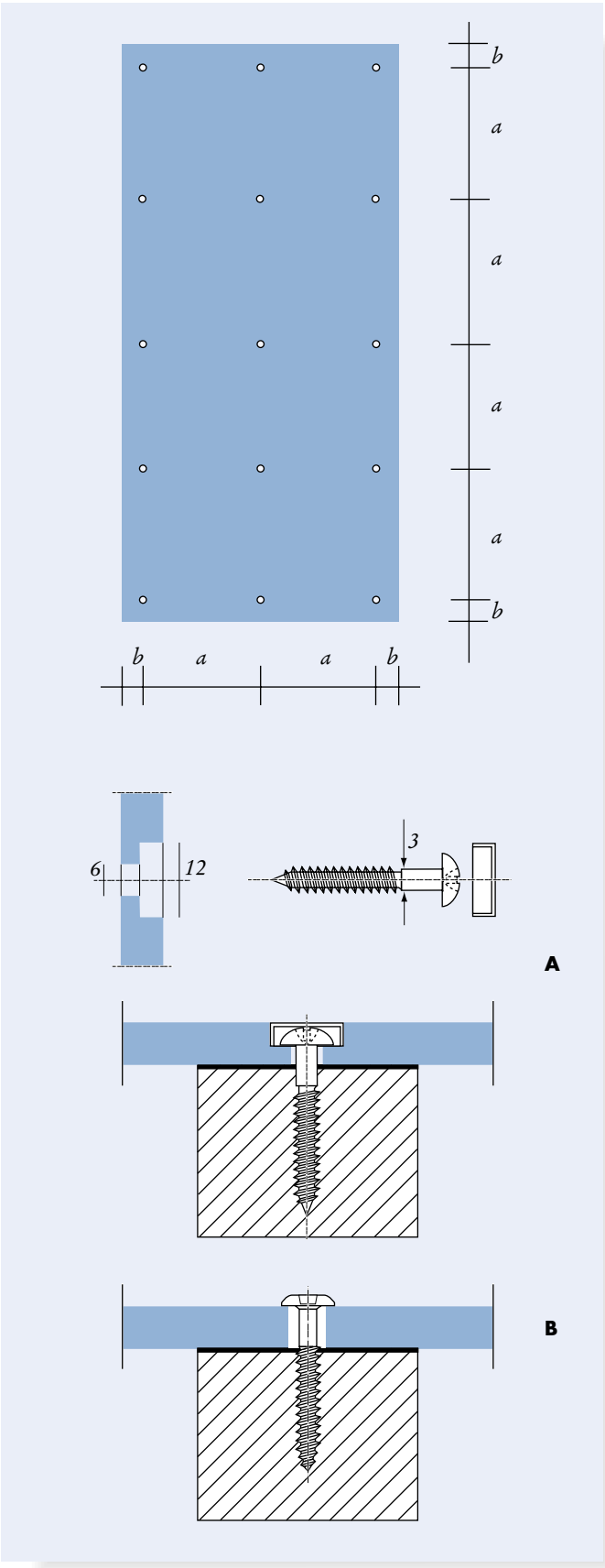
Joints: at least 8 mm
Panel thickness: from 6 mm upwards

Fixing and edge distances

a. horizontal and vertical fixing distance (see table)
b: edge distance
min. 20 mm
max. 10 x panel thickness

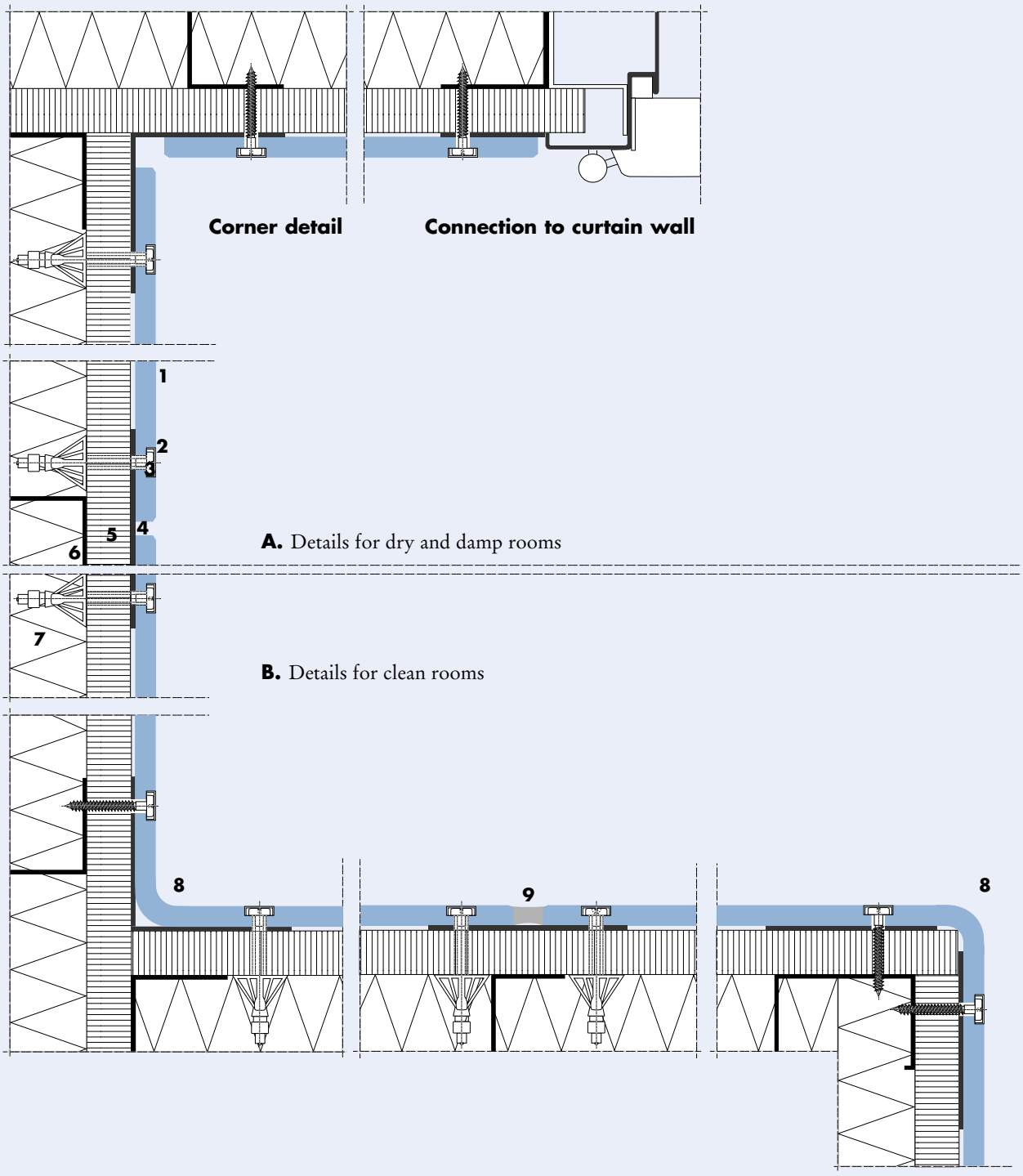
Maximum fixing distances:

Panel thickness	*2 fixing points in one direction*	*3 or more fixing points in one direction*
6 mm	*450 mm*	*550 mm*
8 mm	*550 mm*	*700 mm*
10 mm	*700 mm*	*850 mm*

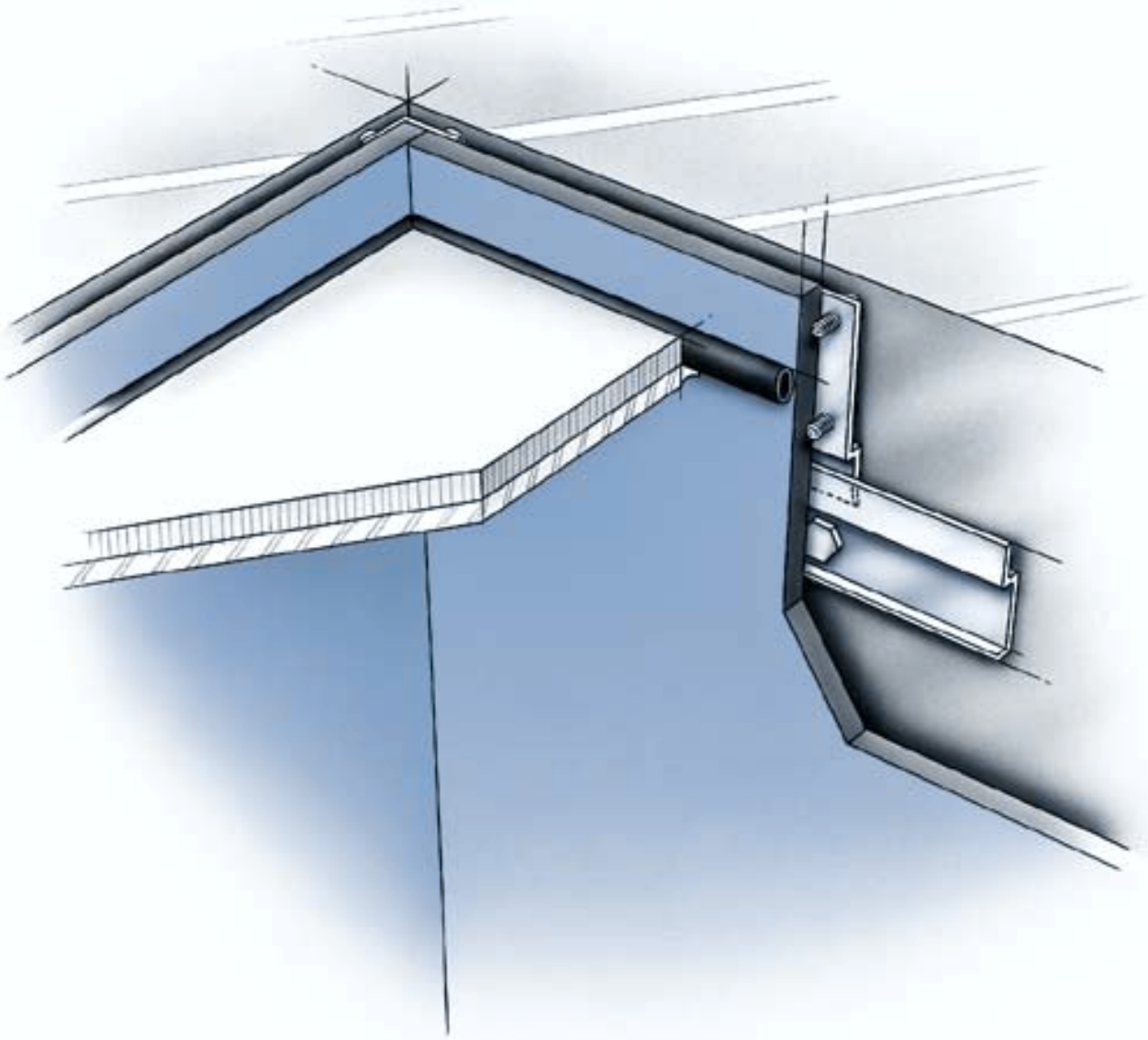


Visible fixing with screws.

Horizontal cross-section



1. Trespa Athlon
2. Plastic cap
3. Cavity wall fixing
4. Spacer ≥ 3 mm
5. Plasterboard
6. [-profile
7. Insulating material
8. Trespa curve
9. Mastic joint



Blind fixing with screws or inserts.

Installation

Trespa Athlon panels with a thickness of > 8 mm can be fixed invisibly. This is often done using thread-cutting screws, inserts and bolts in a pre-drilled hole. It is best to pre-drill using a depth stop so that a residual thickness of at least 2 mm remains on the visible side of the panel.

Installation using panel brackets and horizontal supports

There are various systems for invisibly fixing Trespa Athlon panels. Each one is based on the principle that the panel must be able to move in relation to the subframe. These systems consist of brackets or continuous profiles fixed to the reverse side of the panel which engage with horizontal battens mounted on the wall.
The advantage of these systems is that the panels can be quickly and easily dismounted, which is important, for example, when supply and wiring systems are extended/renewed.

General remarks

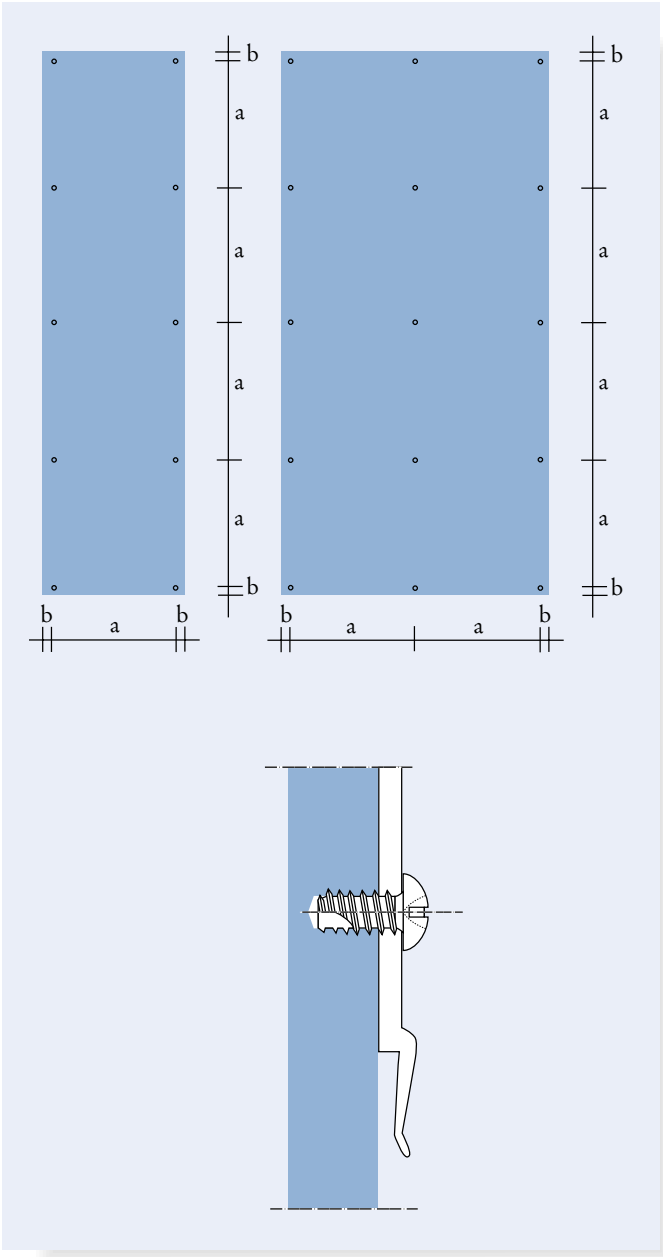
Joints at least 8 mm
Panel thickness from 8 mm upwards
Length of leg of corner panels maximum 300 mm, otherwise a fixing point must be provided near the corner of the element.

Fixing and edge distances

o = panel bracket fixing
a = horizontal fixing distance (see table)
b = edge distance:

Maximum fixing distances:

Panel thickness	*2 fixing points in one direction*	*3 or more fixing points in one direction*
8 mm	*550 mm*	*700 mm*
10 mm	*700 mm*	*850 mm*
13 mm	*850 mm*	*1000 mm*



Fixing details

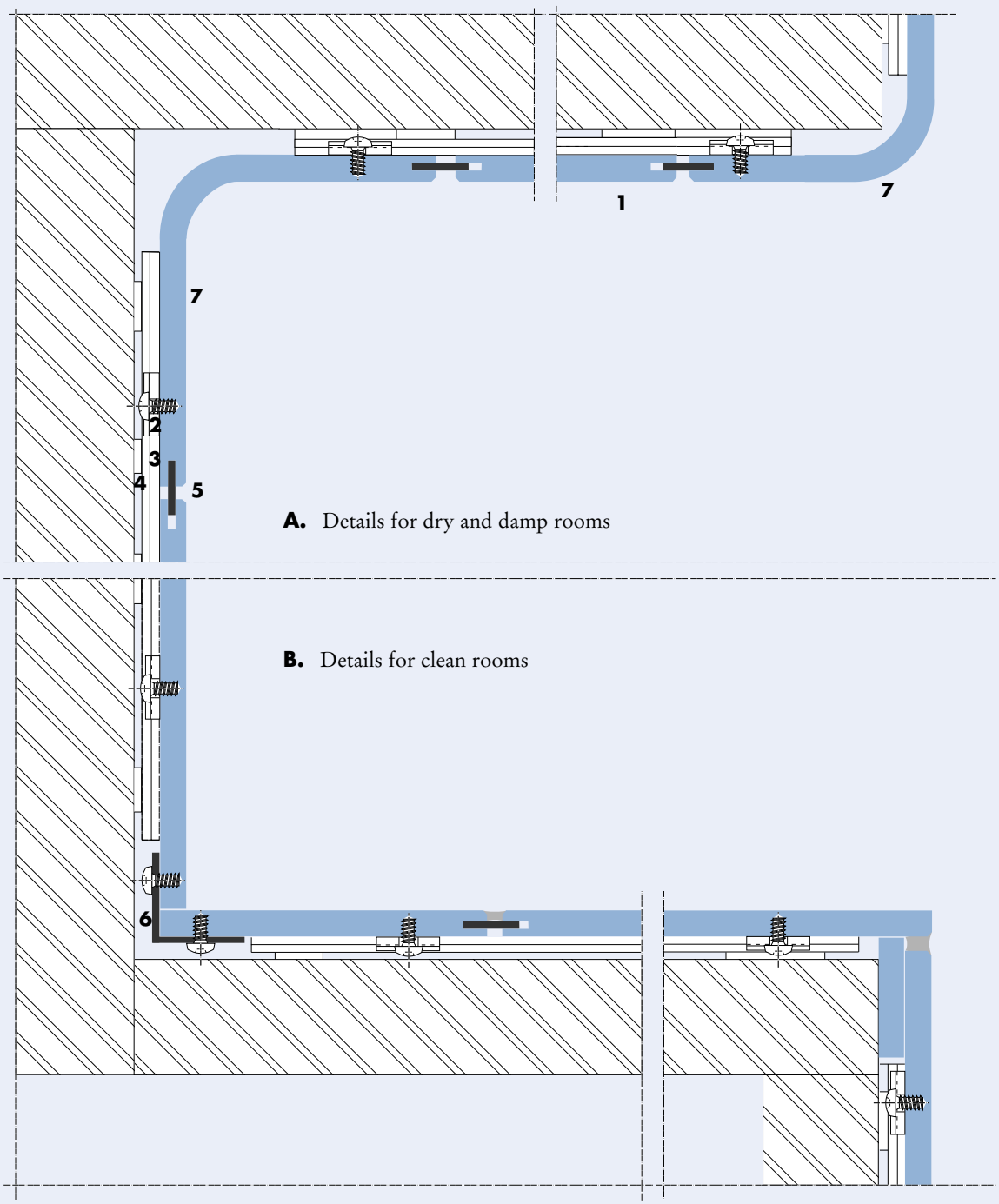
Fixing means*:
- insert
- thread-cutting screw
- tension-free insert

Anchoring depth: panel thickness - 3 mm
Remaining panel thickness: at least 2 mm

** See also chapter "Fixing means"*

Blind fixing with screws or inserts.

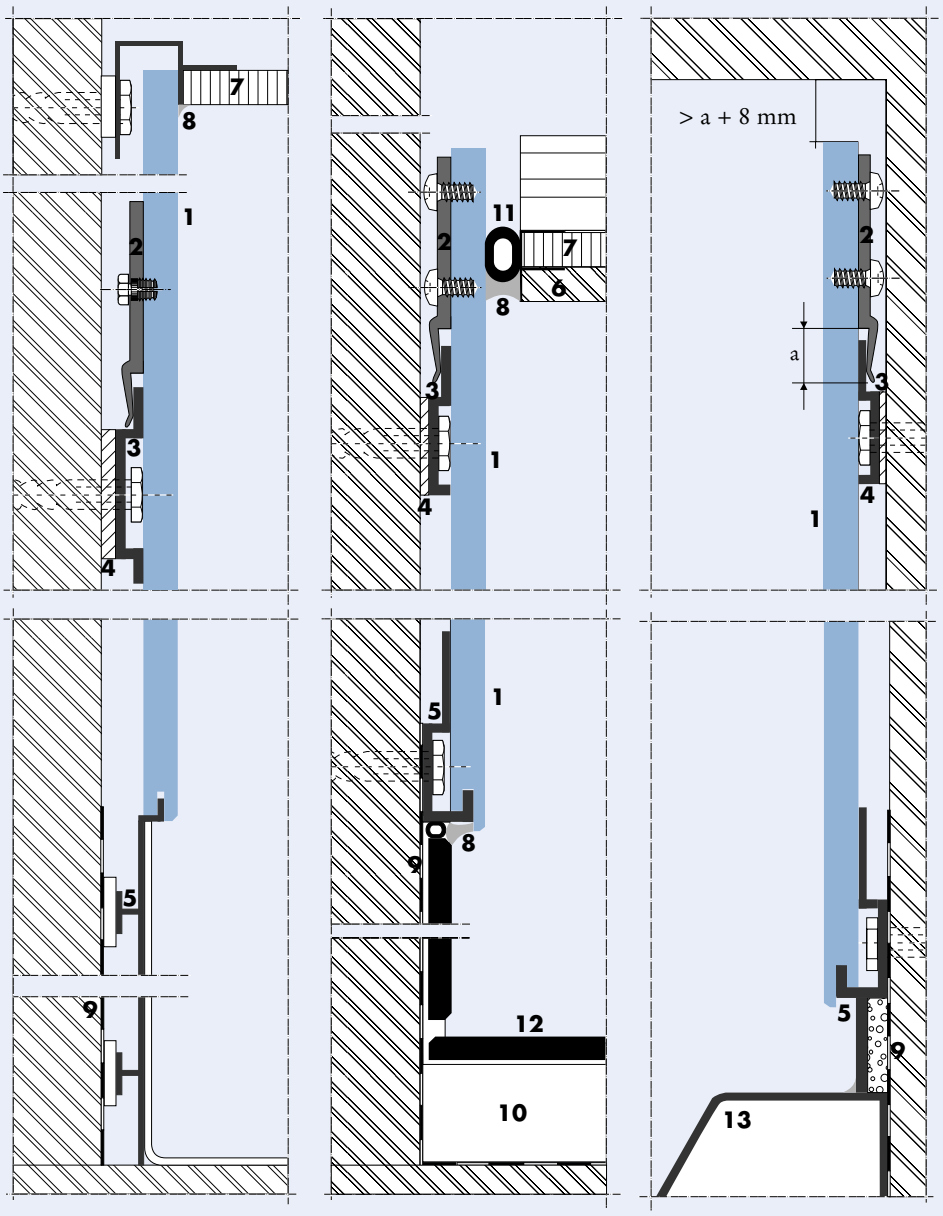
Horizontal cross-section



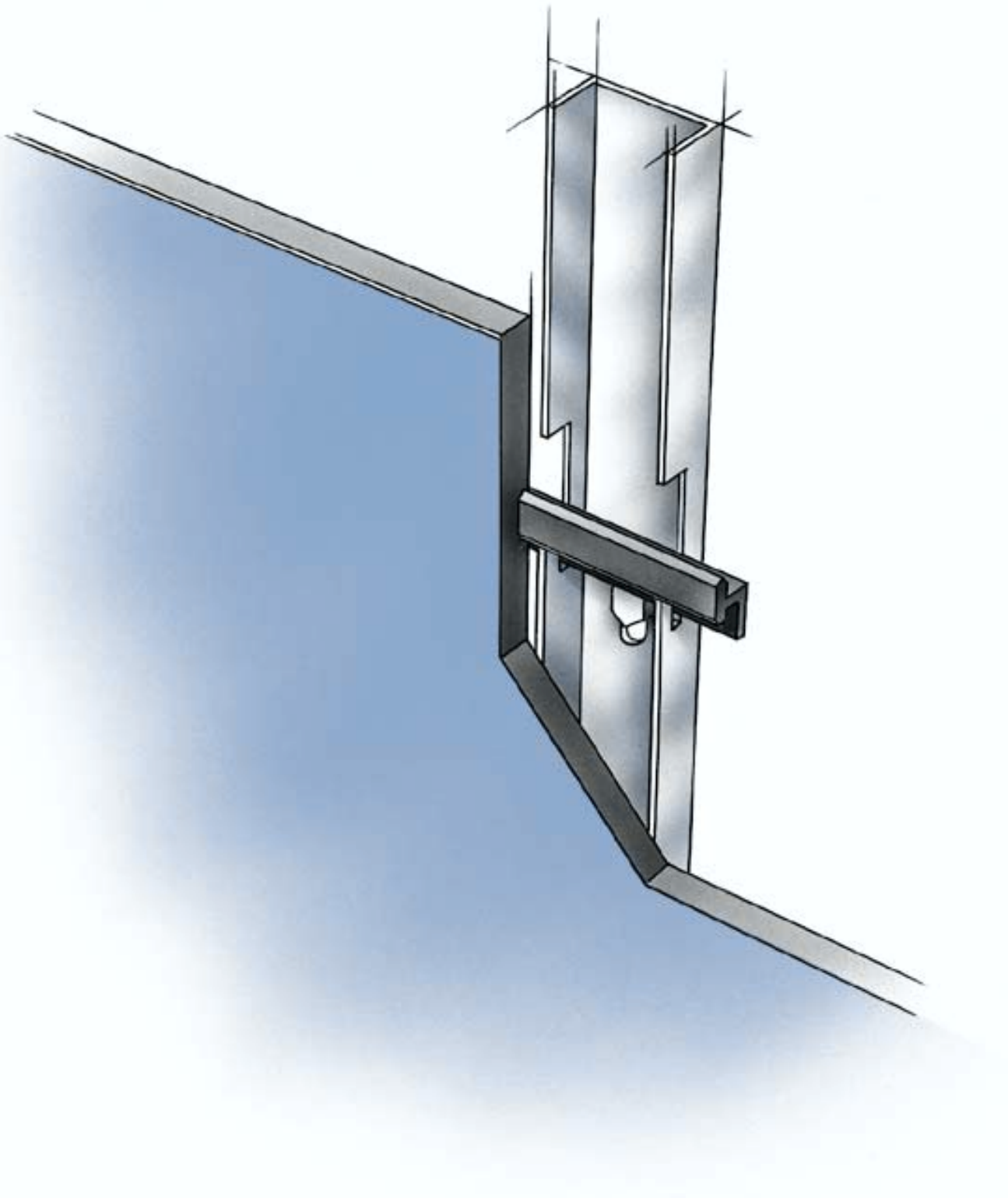
1. Trespa Athlon ≥ 8 mm
2. Panel bracket
3. Horizontal support profile
4. Spacer ≥ 3 mm
5. Joint ≥ 8 mm
6. Aluminium corner profile
7. Trespa Athlon corner profile ≥ 8 mm

Blind fixing with screws or inserts.

Vertical cross-section



1. Trespa Athlon panel ≥ 8 mm
2. Panel bracket
3. Horizontal support profile
4. Spacer next to the fixing of the horizontal support profile
5. Lower horizontal batten
6. Plaster layer
7. Plasterboard
8. Mastic joint
9. Moisture repellent layer
10. Floor finish
11. Rubber profile
12. Tiled floor
13. Edge of bath



Blind fixing with continuous integrated panel bracket.

The continuous panel bracket is integrated in the Trespa Athlon panel by means of milling. This results in an ideal mechanical connection which optimally preserves the panel properties.

The fixing system has a number of important advantages:
- very easy and quick to install
- the continuous panel bracket is integrated in the Trespa Athlon panel by means of milling
- light construction, so a thin panel is possible

Maximum fixing intervals a (in mm)	*Panel thickness (in mm)*		
	8	*10*	*13*
2 fixing points in one direction	*600*	*750*	*950*
3 or more fixing points in one direction	*750*	*900*	*1200*

General remarks

Joints: at least 8 mm
Panel thickness: from 8 mm upwards

Fixing and edge distances

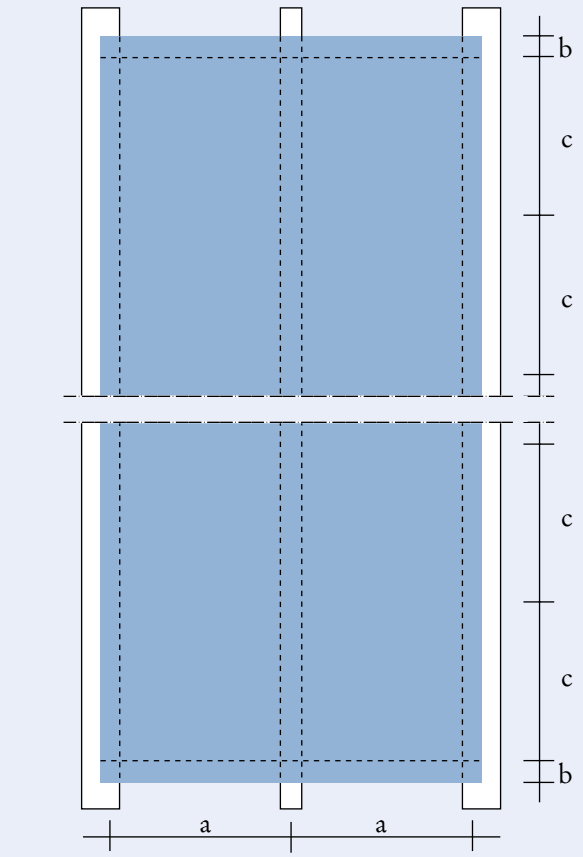
a = horizontal fixing distances
b = edge distance: 72 mm
c = vertical fixing distance: 600 mm

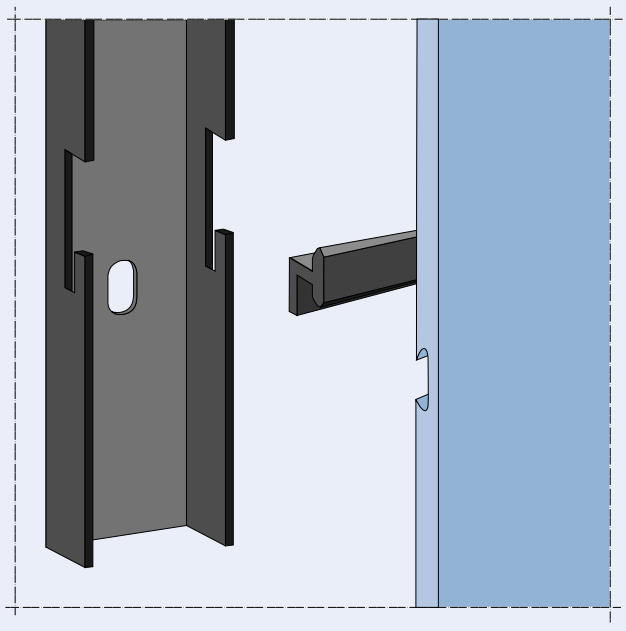
Milling

The milling in the rear side of the Trespa Athlon panel is made with a special milling tool.

Vertical support profiles must be positioned exactly.

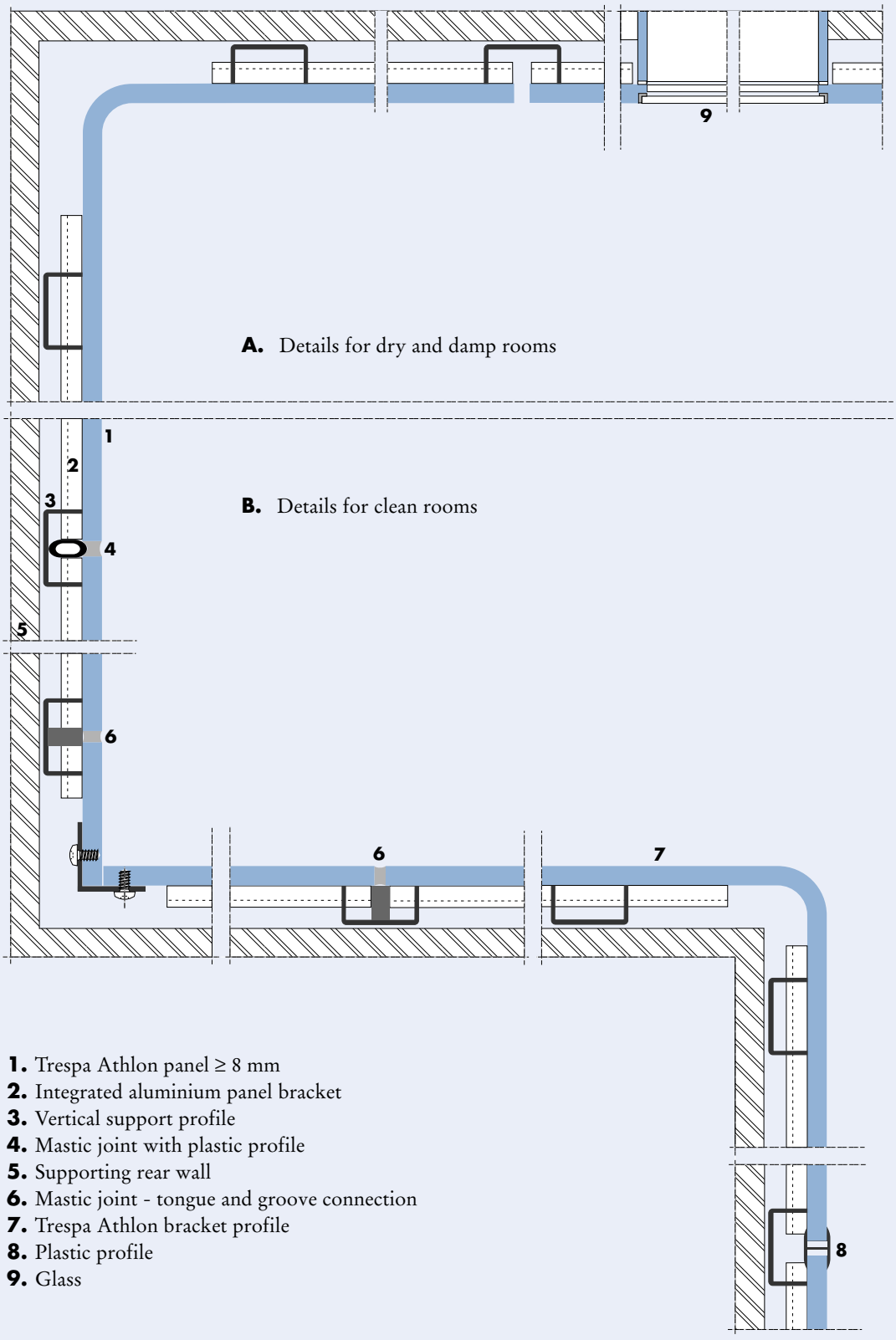
NOTE: the blind fixing with continuous integrated panel bracket is not suited for rooms with a constant high relative humidity (≥ 90%) or a wet application.





Blind fixing with continuous integrated panel bracket.

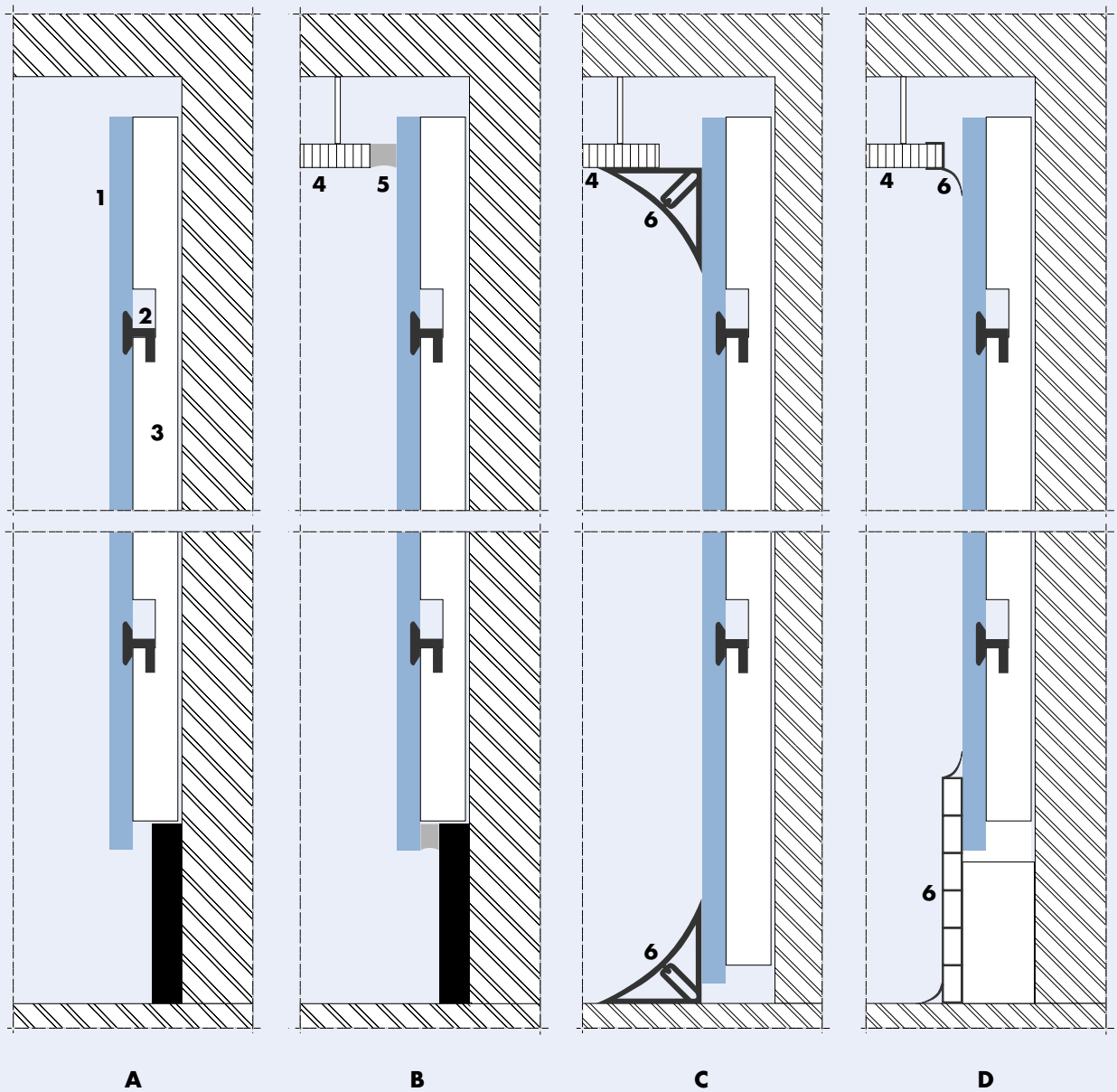
Horizontal cross-section



1. Trespa Athlon panel ≥ 8 mm
2. Integrated aluminium panel bracket
3. Vertical support profile
4. Mastic joint with plastic profile
5. Supporting rear wall
6. Mastic joint - tongue and groove connection
7. Trespa Athlon bracket profile
8. Plastic profile
9. Glass

Blind fixing with continuous integrated panel bracket.

Vertical cross-section

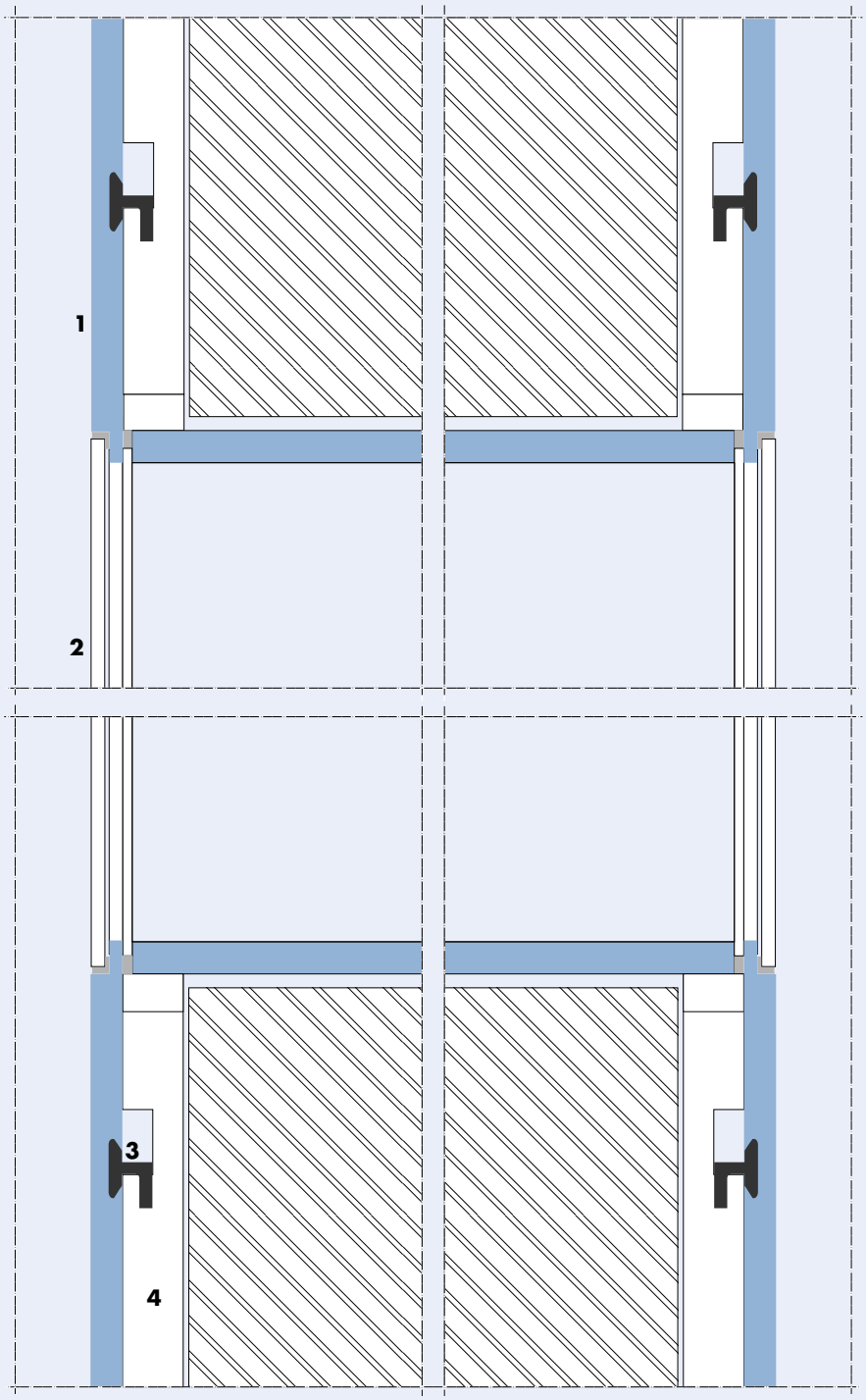


A. Details for dry and damp rooms
B. Details for operating theatres
C+D. Details for clean rooms

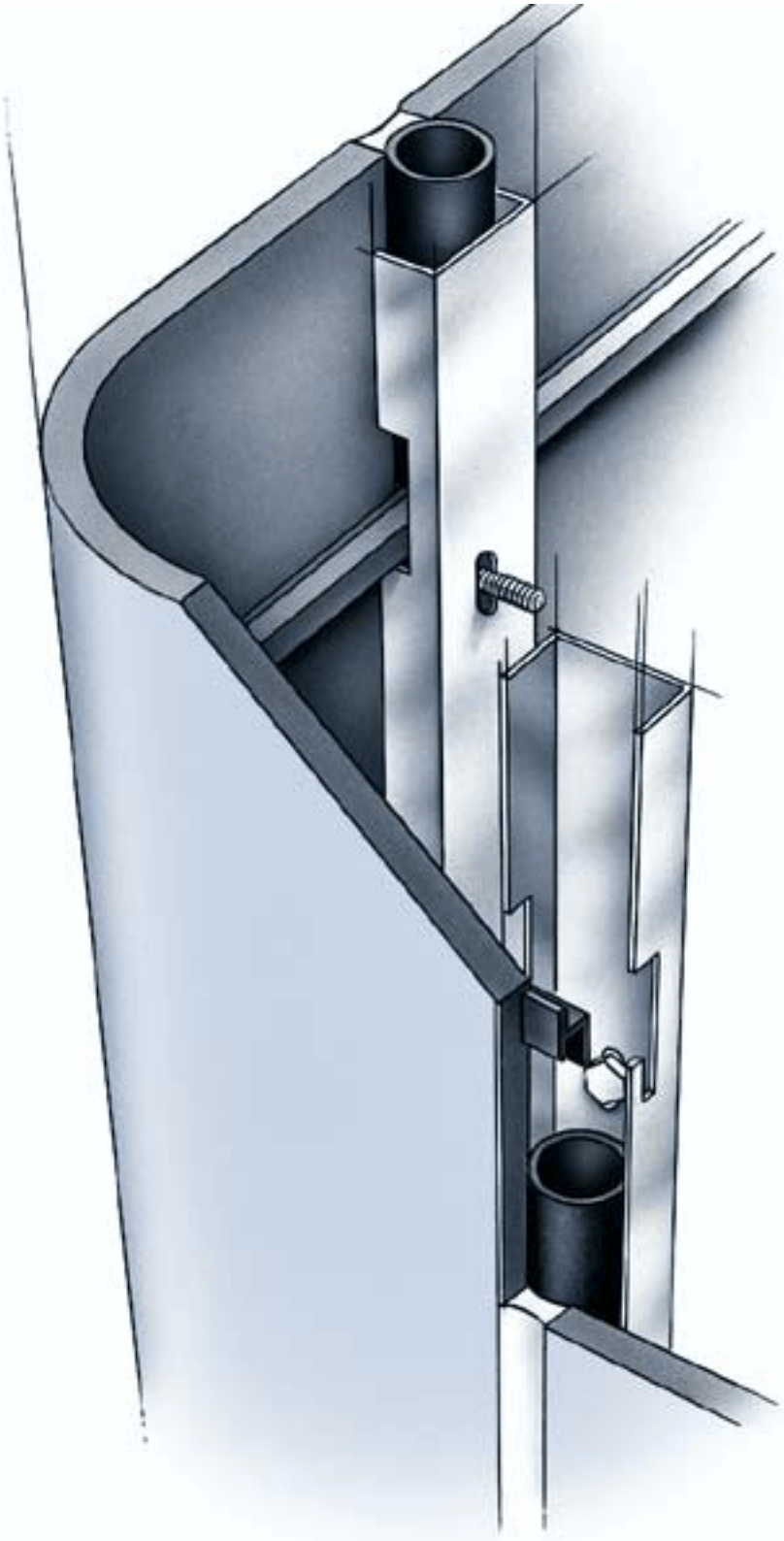
1. Trespa Athlon panel ≥ 8mm
2. Integrated panel bracket
3. Vertical support bracket
4. System ceiling
5. Mastic joint
6. Plastic profile

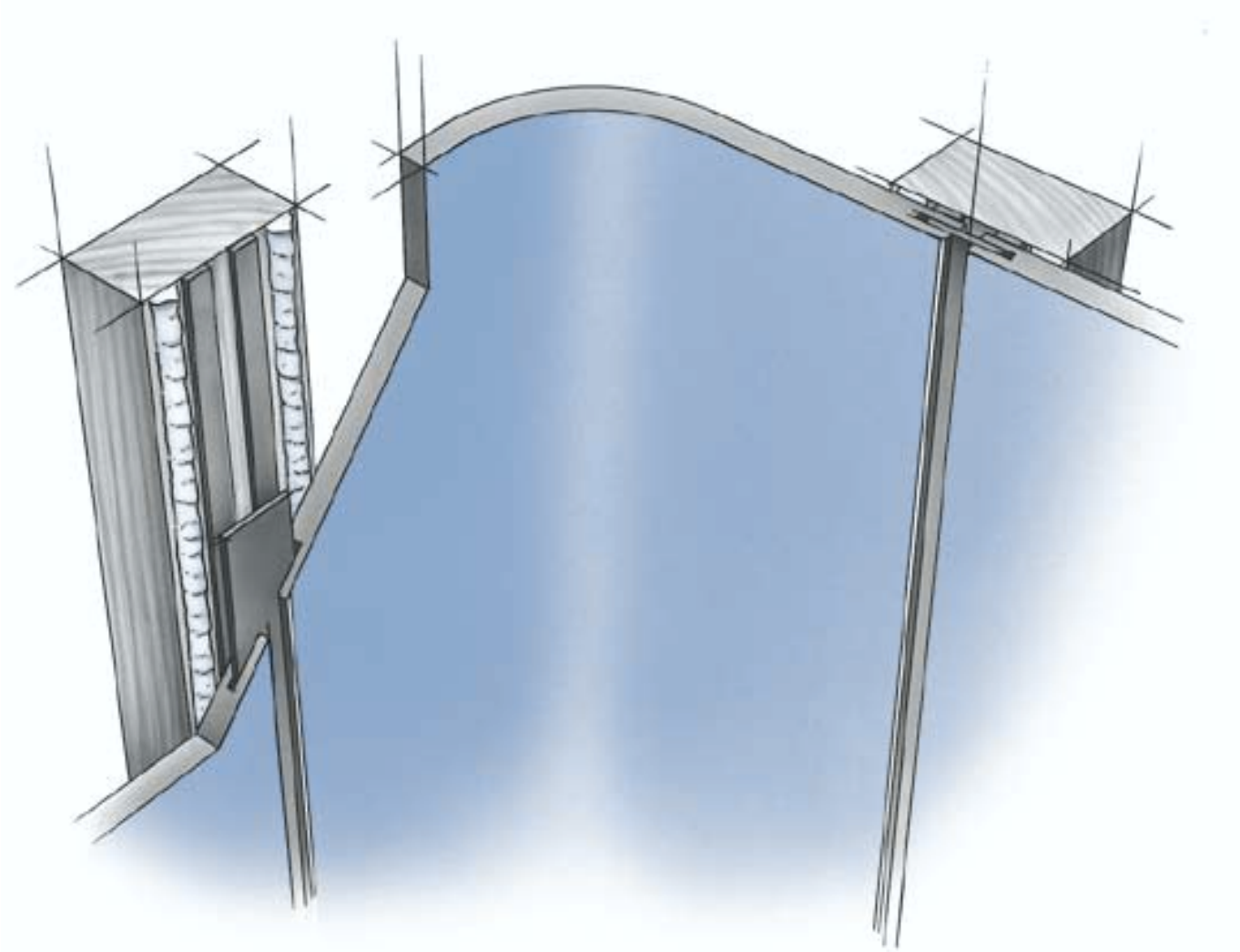
Blind fixing with continuous integrated panel bracket.

Vertical cross-section



1. Trespa Athlon panel ≥ 8 mm
2. Glass
3. Integrated panel bracket
4. Vertical support profile





Blind fixing with adhesive.

Principal details on fixing using glue

The quality of an adhesive connection is mainly determined by the circumstances under which it was made. Damp, cold and/or dusty conditions can have a negative effect on the quality. It is possible to adhere Trespa Athlon panels to a timber or metal subframe whereby.

- the maximum permitted panel sizes should not be exceeded so that the panels can move without restriction
- the adhesive beads are applied in a vertical direction
- the instructions for the Trespa-recommended adhesive systems must be followed.

General remarks

Joints at most 8 mm
Panel thickness from 6 mm upwards
Panel size:
max lenght 2550 mm

Fixing and edge distances

a = horizontal fixing distance (see table)
b = panel width
y = panel height

Maximum fixing distances:

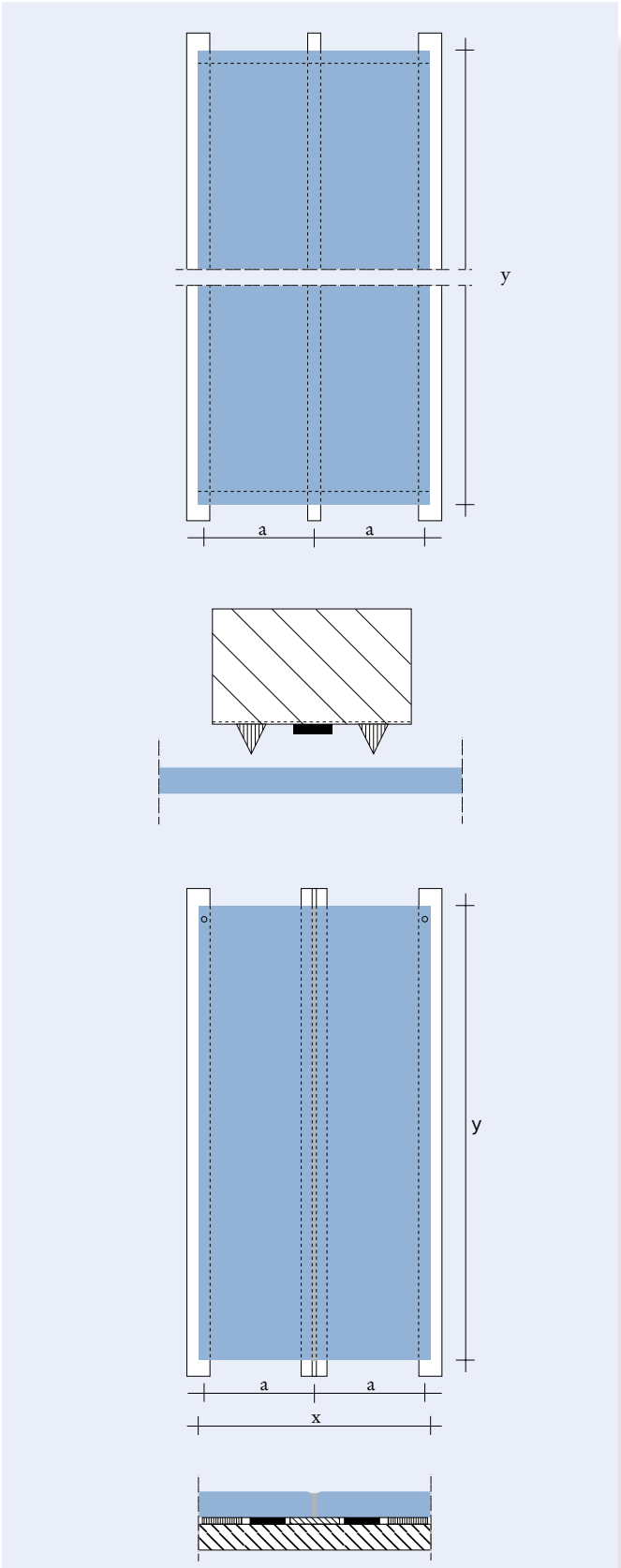
Panel thickness	*2 adhesive beads per panel*	*more than 2 adhesive beads per panel*
6 mm	*450 mm*	*550 mm*
8 mm	*600 mm*	*650 mm*
10mm	*650 mm*	*650 mm*

Timber vertical battens, always planed, minimum sizes:

- end battens: 45 x 28 mm
- centre battens: 55 x 28 mm
- centre battens next to joint: 85 x 28 mm

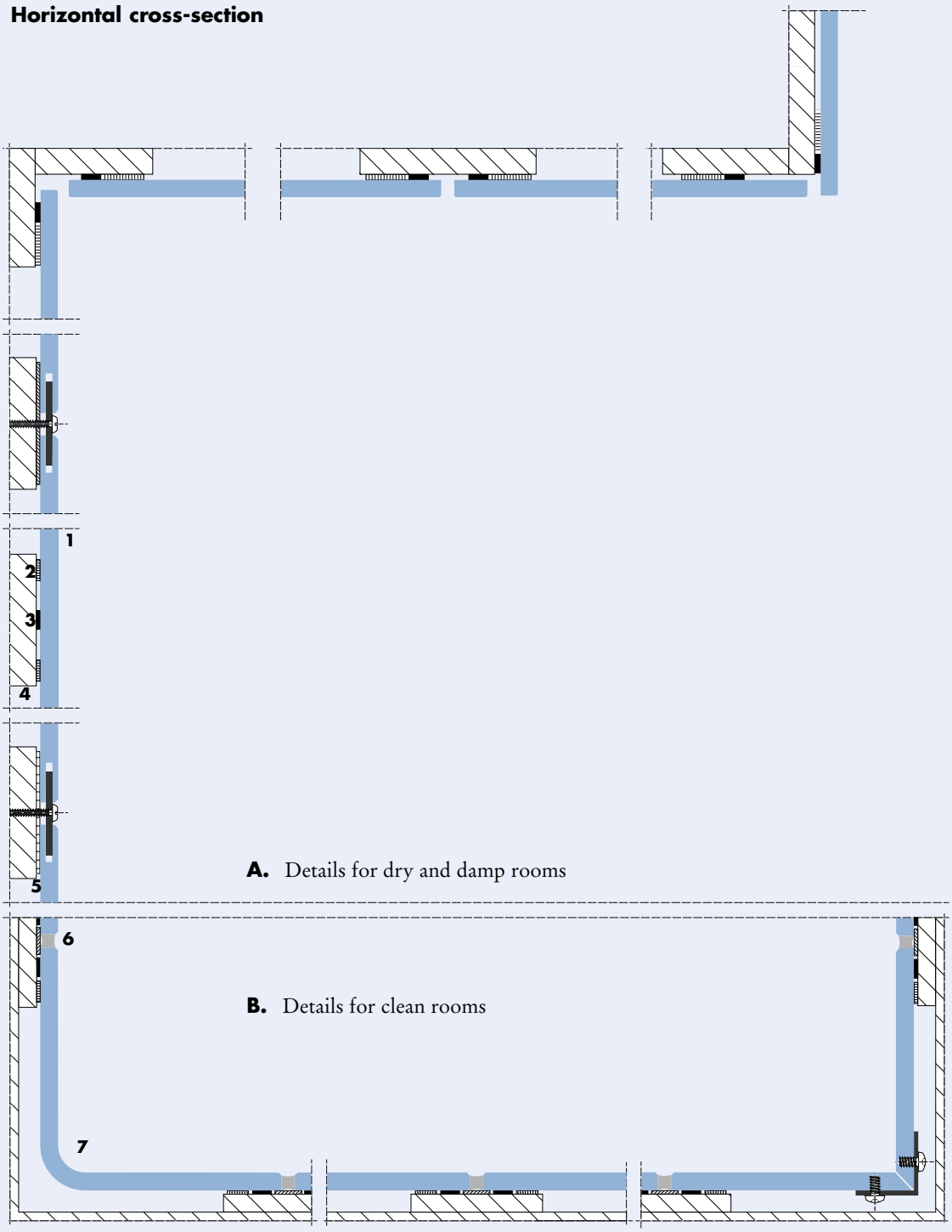
Metal strips, mimimum sizes:

- end strip: 45 x 2 mm
- centre strip: 55 x 2 mm
- centre strip next to joint: 85 x 2 mm



Blind fixing with adhesive.

Horizontal cross-section



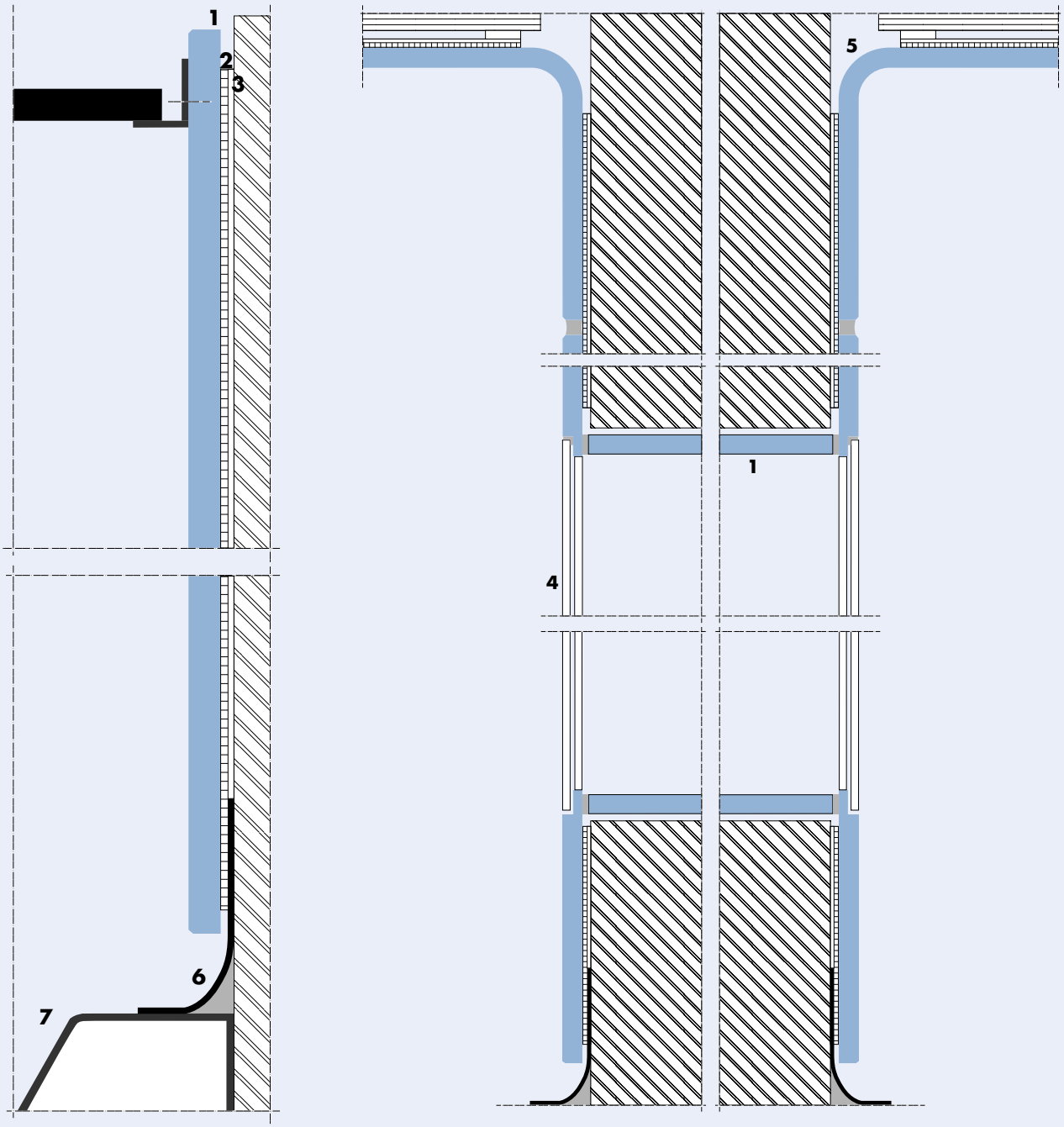
A. Details for dry and damp rooms

B. Details for clean rooms

1. Trespa Athlon
2. Elastic adhesive
3. Tape 3 mm
4. Vertical lath
5. Filling
6. Mastic
7. Trespa Athlon corner profile

Blind fixing with adhesive.

Vertical cross-section



1. Trespa Athlon
2. Glue
3. Vertical aluminium profile 3 mm
4. Glass
5. Suspension system for ceiling
6. Plastic profile
7. Edge of bath

Semi-blind fixing with joint profile or metal tongues.

Installation

Trespa Athlon, from a panel thickness of 8 mm upwards, can be fixed semi-blind with the help of an aluminium joint profile in combination with a profile on which the panel is placed and supported. The panel is fixed by screwing the joint profile onto the subframe. From a panel thickness of 13 mm, the joint profile can be covered by a Trespa Athlon tongue with a thickness of 3 mm. Other ways of sealing the joint profile are by using a rubber profile or a PVC profile.

General remarks

Joints: screw head diameter + 5 mm
Panel thickness from 8 mm

Fixing and edge distances

a = panel span (see table)
c = vertical fixing distance in tongue: maximum 500 mm

Maximum panel span (in mm)	*Panel thickness (in mm)*		
	8	*10*	*13*
Panel span	*600*	*750*	*950*

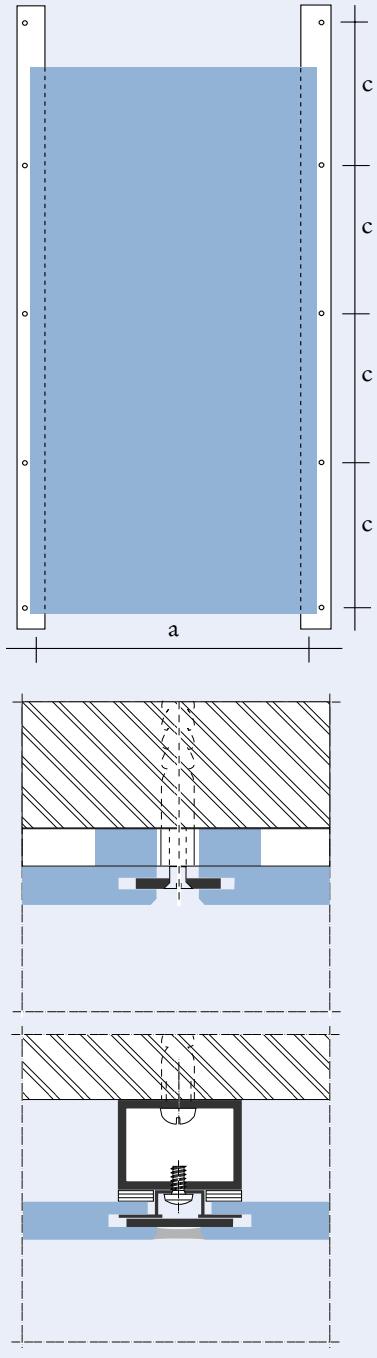
Fixing details

Groove: at least 2.2 x 15 mm, remaining panel edge thickness in each case 2.9 mm

Metal tongue: 2 x 30 mm x panel length.

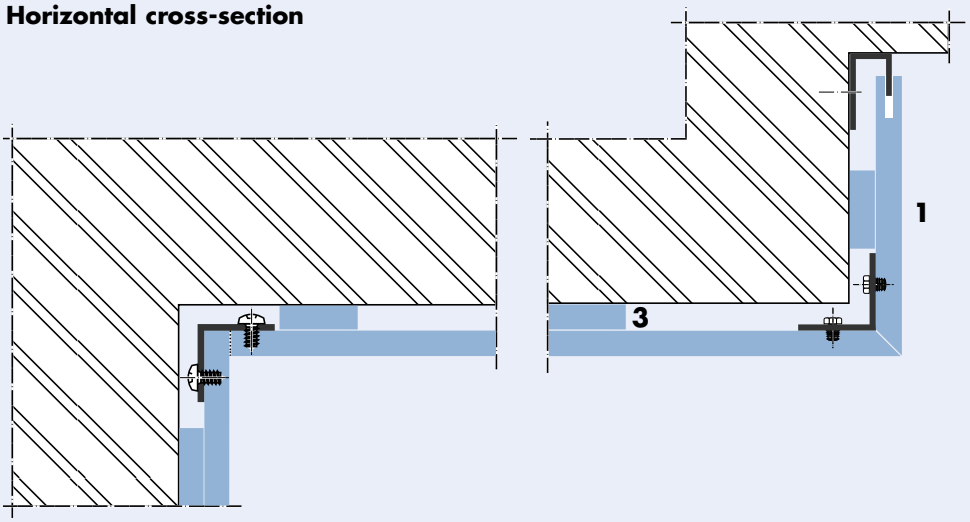
Timber batten: minimum 35 x 90 mm

Screws should be centered and not overtightened in order to avoid restricting the movement of the panel.

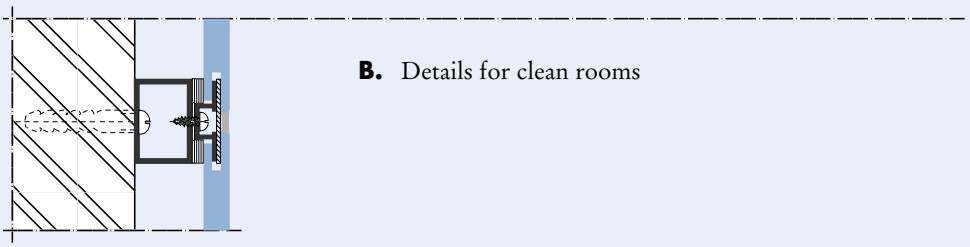


Semi-blind fixing with joint profile or metal tongues.

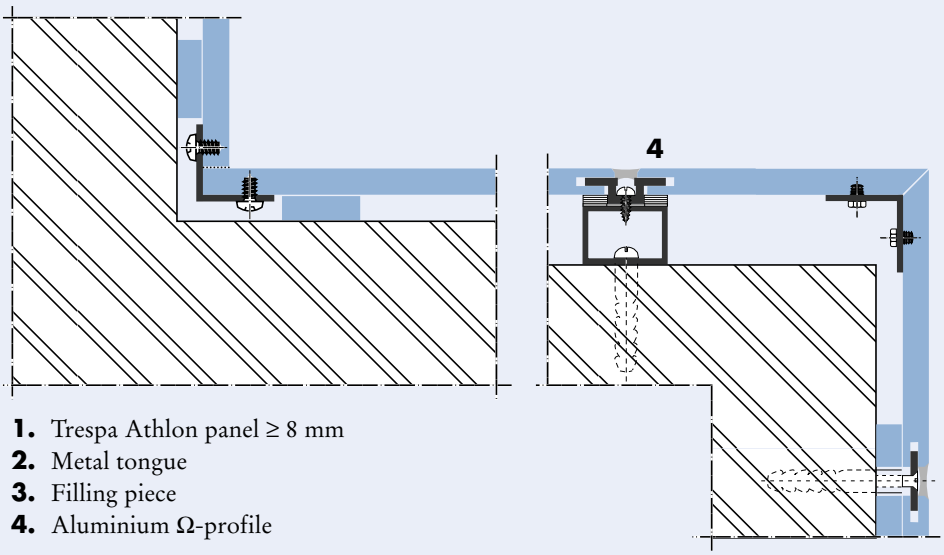
Horizontal cross-section



A. Details for dry and damp rooms



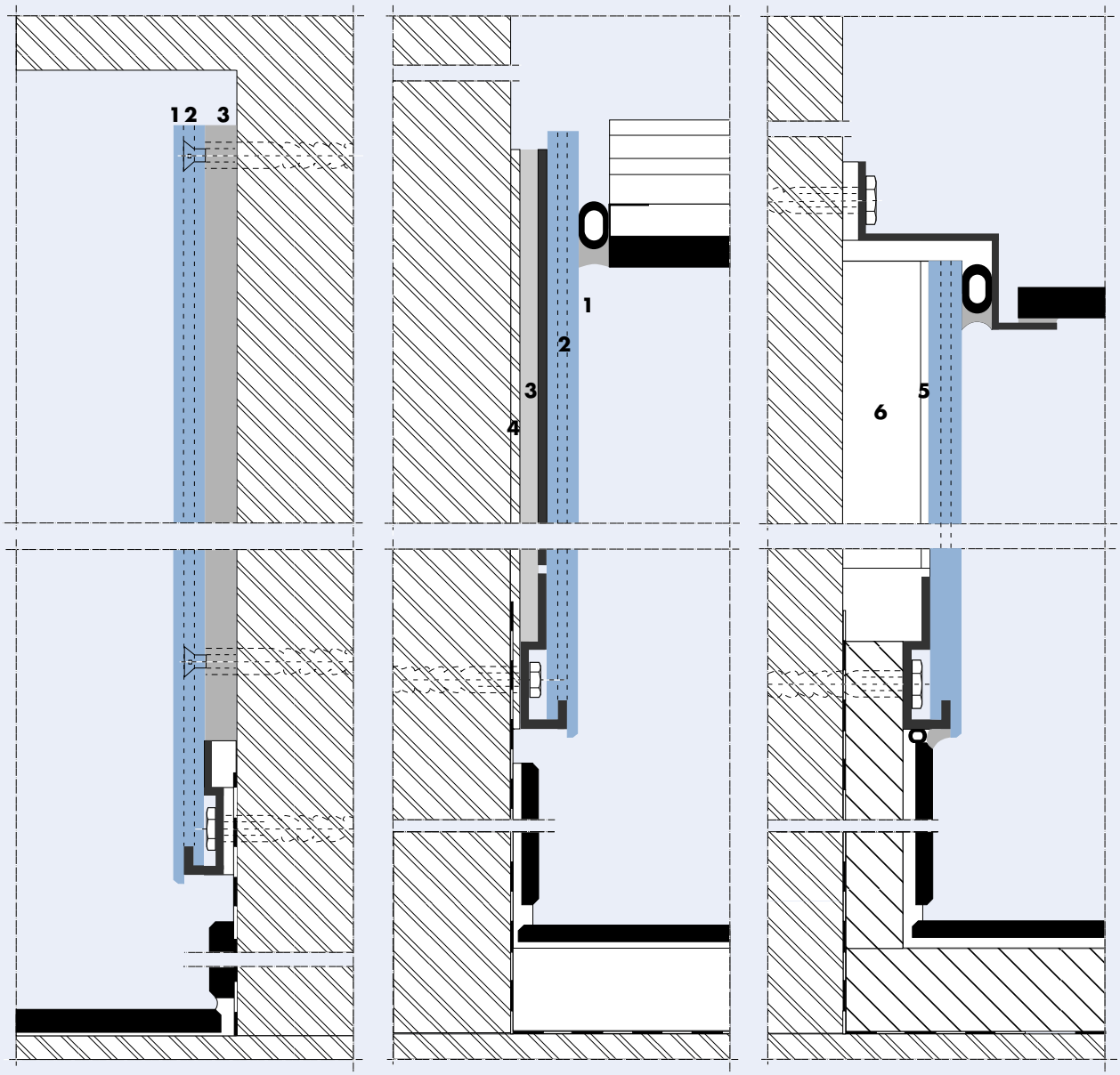
B. Details for clean rooms



1. Trespa Athlon panel ≥ 8 mm
2. Metal tongue
3. Filling piece
4. Aluminium Ω-profile

Semi-blind fixing with joint profile or metal tongues.

Vertical cross-section

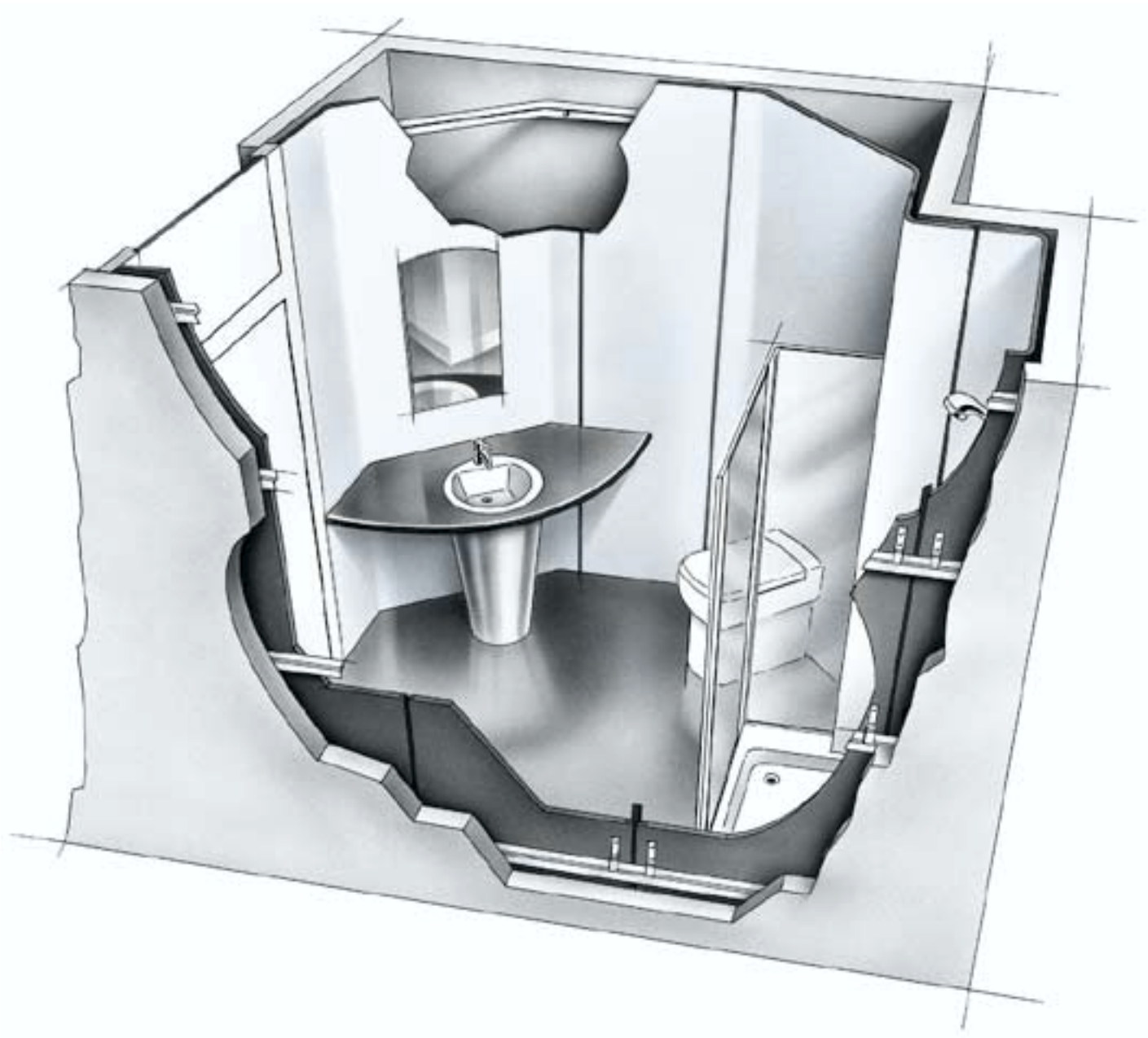


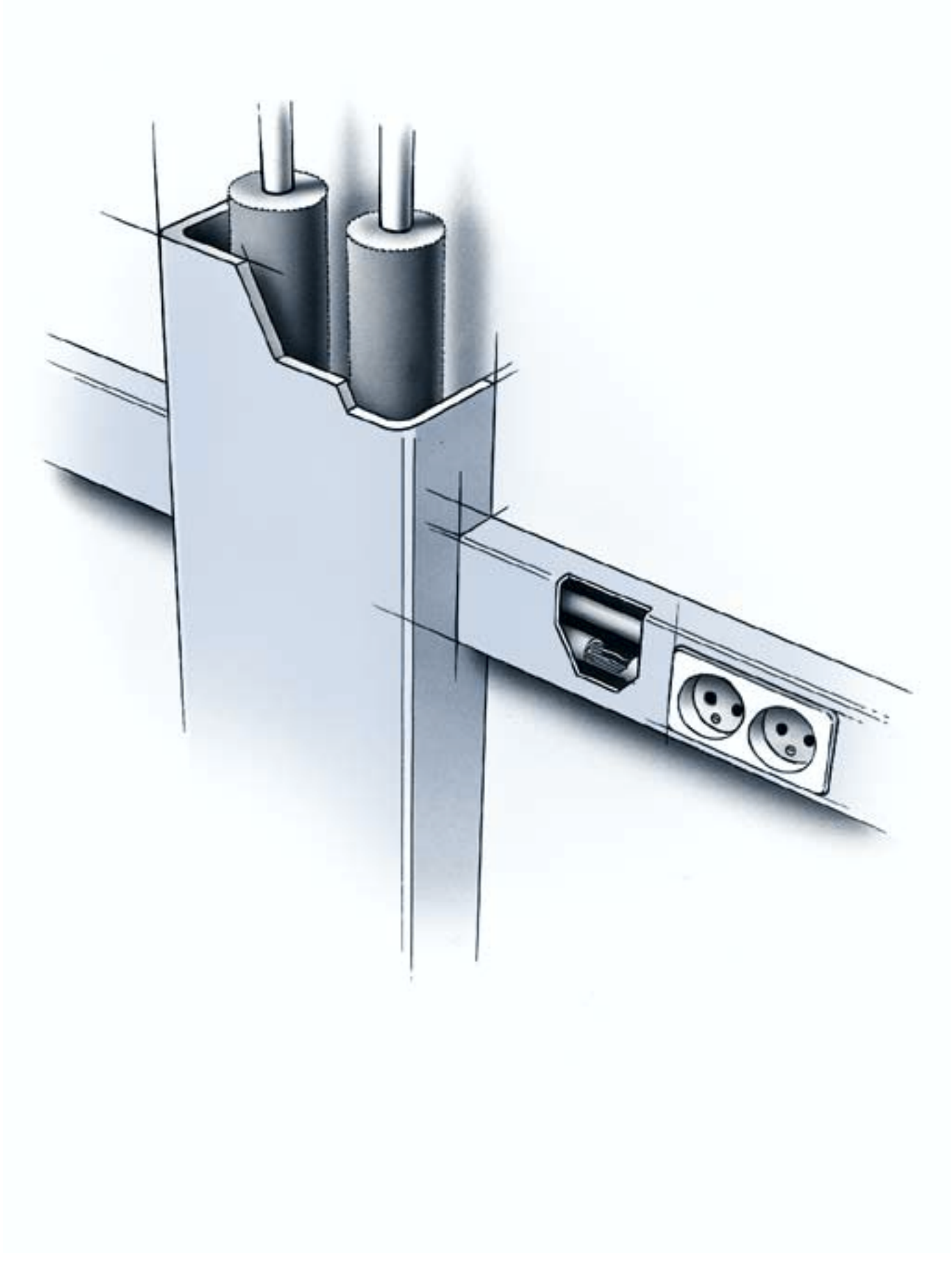
1. Trespa Athlon panel ≥ 8 mm
2. Metal tongue
3. Filling piece
4. U profile
5. Ω-profile
6. □-profile

Applications.

Bathrooms/sanitary units

Trespa Athlon is well suited to newly built and refurbished bathrooms and sanitary units. The easy processing and fixing of the panels mean that there is wide scope for different designs, uses and applications. Due to the high rigidity and impact resistance of the panel material, it is possible to work with relatively small wall thicknesses of 10 to 16 mm. Height of doors must be cut from length and not from width of panel. Doors must be hung with a min. of 3 hinges.
From a panel thickness of 8 mm upwards, Trespa Athlon can be fixed invisibly to achieve a completely smooth finish for an aesthetically pleasing wall cladding.





Bumper rails.

General

Bumper rails and panelling usually consist of narrow strips of wall cladding. The fixing of these and the guidelines that apply to this are no different from those described above for wall cladding.

Ventilation

The ideal situation is to leave open a space at the bottom, between the board and the wall. If this is not possible, we recommend waiting (for approximately a month) before sealing the upper and lower edge of the bumper rail. This is absolutely necessary if fixing is done onto a new structure; this has to dry first. After this period, the upper and lower edge can be sealed with a plastic profile or with mastic.

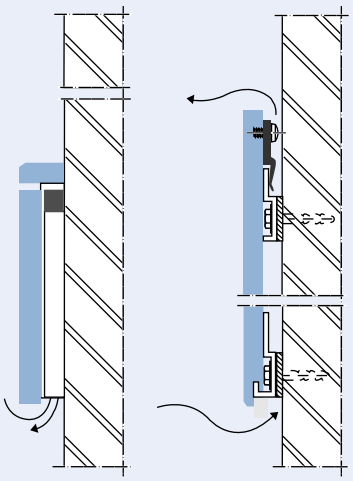
Corner solutions

Corner solutions can be implemented with post-forming elements, corner profiles or prefabricated elements.

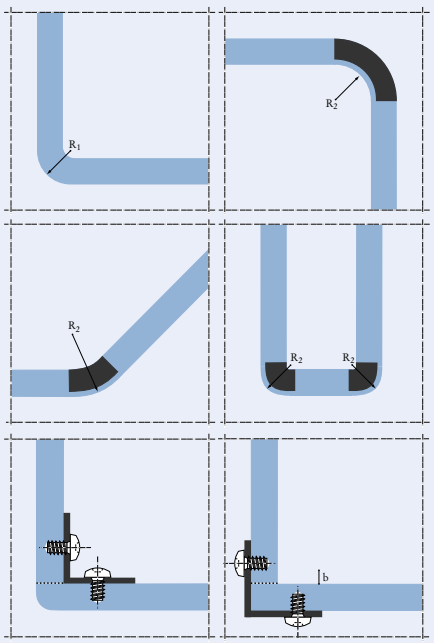
Joints

The solutions for joints can be implemented as shown in detailed diagrams A, B, C and D.

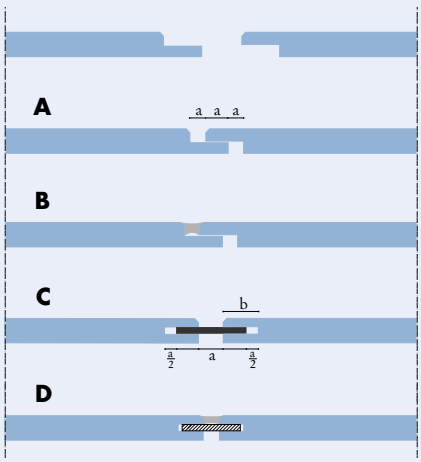
Ventilation



Corner solutions

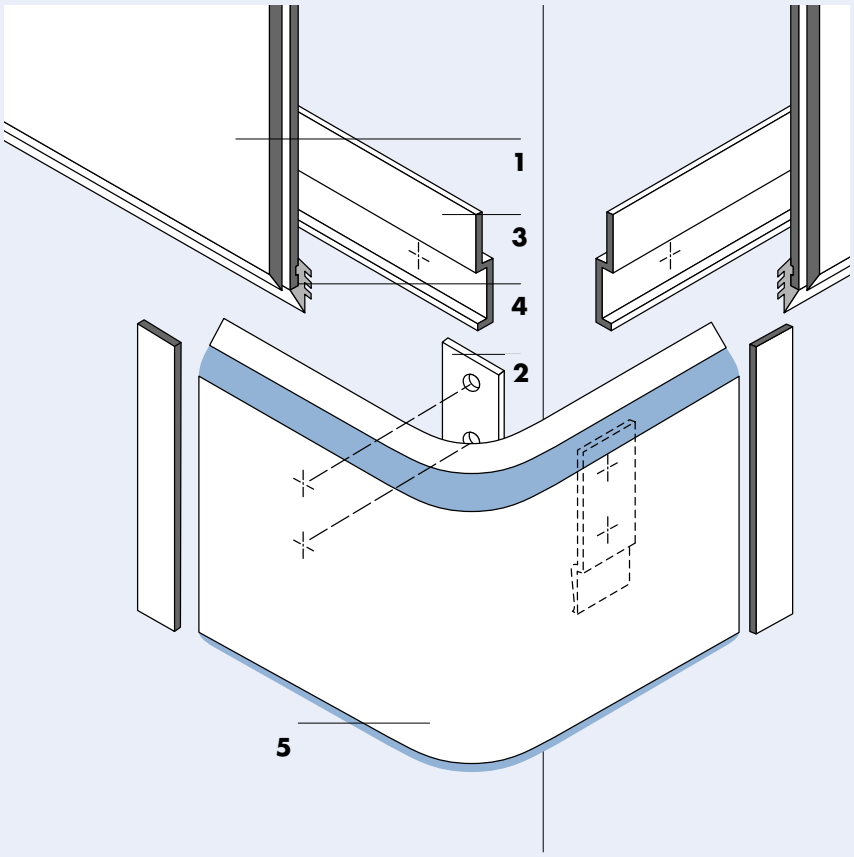


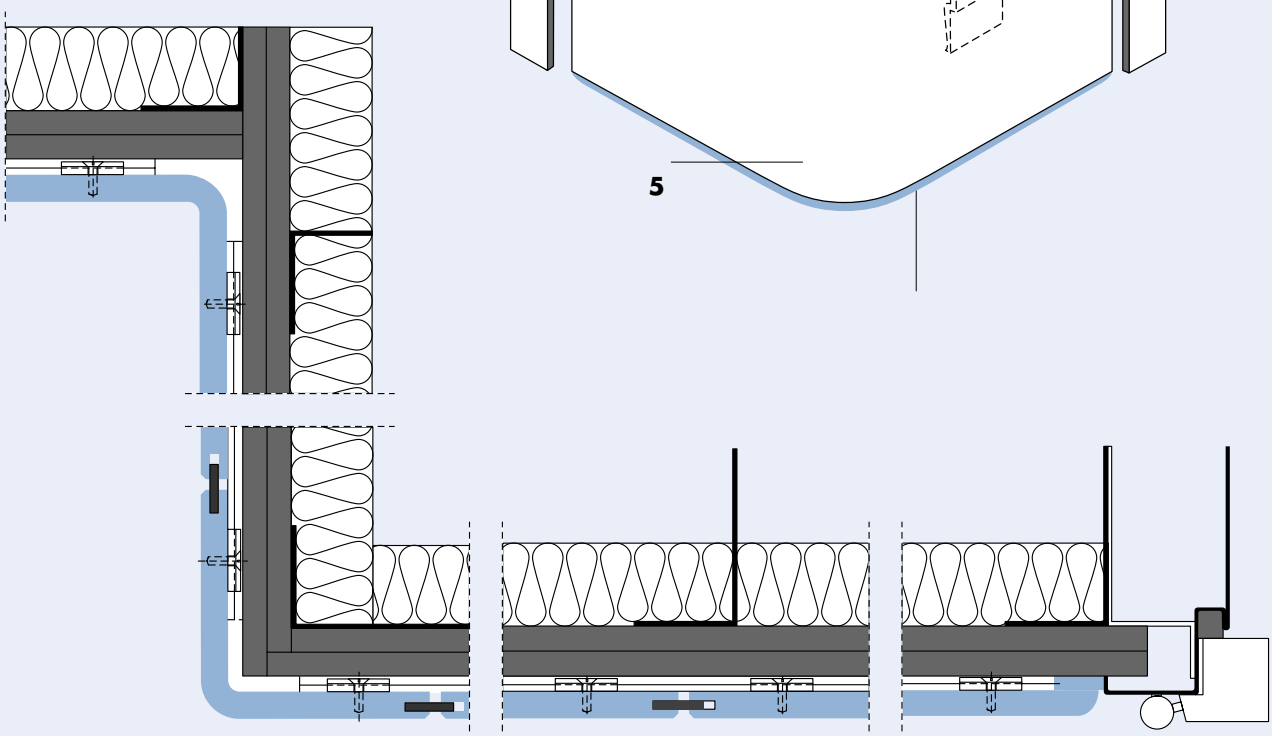
Joints



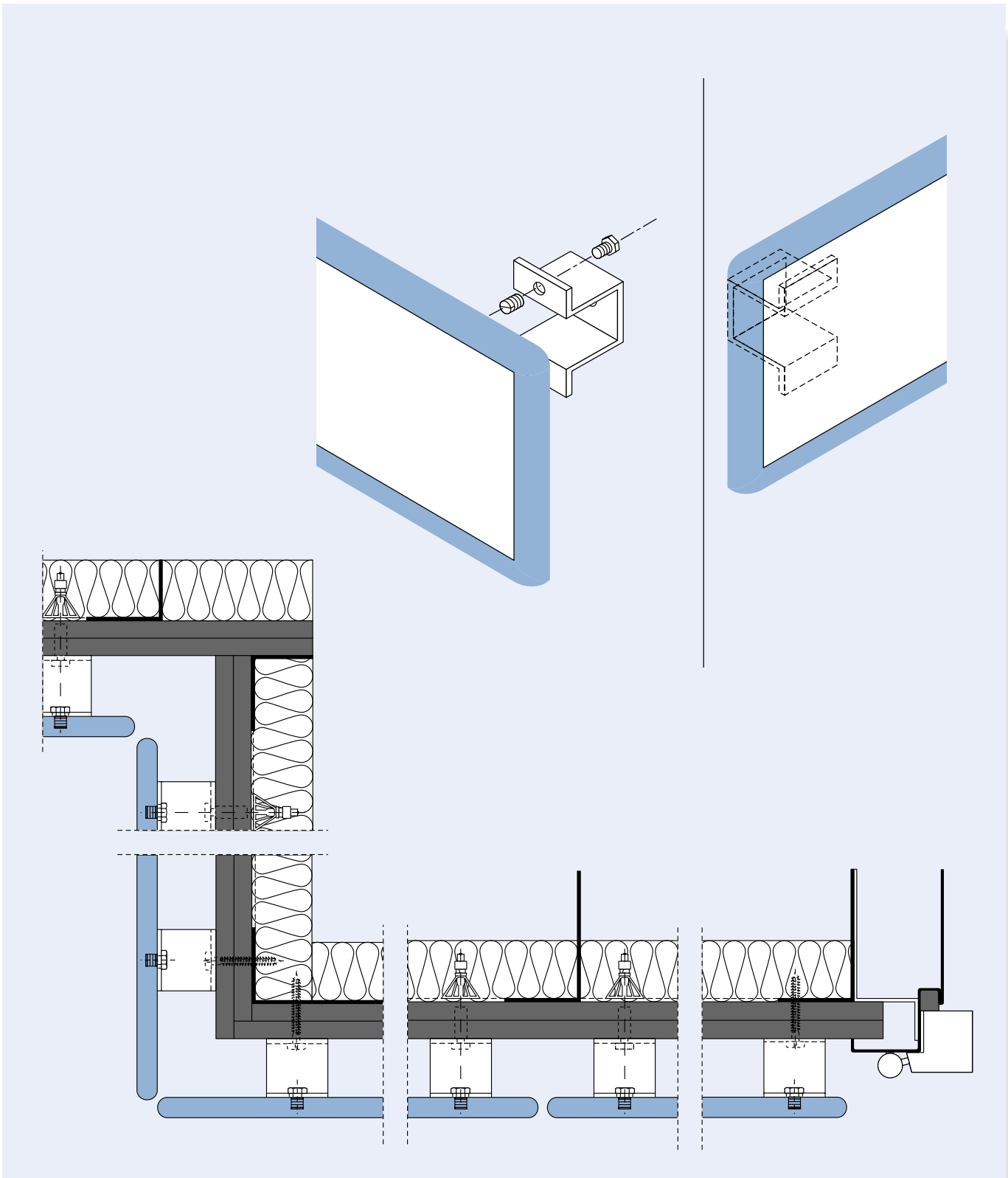
Bumper rails combined with Trespa Athlon round-cornered element.

1. Trespa Athlon ≥ 8 mm
2. Supporting plate
3. Horizontal support profile
4. Rubber profile
5. Trespa Athlon round-cornered element





Trespa Athlon bumper rails combined with banister.



Fixing methods.

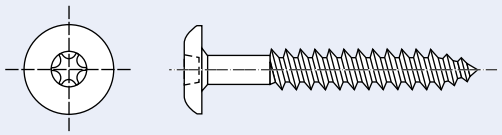
Visible fixing

1. Stainless steel quick assembly screw for Trespa for a panel thickness of 6 mm to 10 mm
- Material: stainless steel A2-1702 or stainless steel A4
- Diameter: 4.8 mm
- Length: at least 36 mm
- Head diameter: 12 mm
- Head height: 2.5 mm
- Hole diameter: 8 mm
- In all Trespa Meteon colours

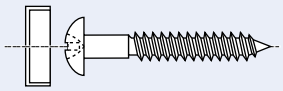
If other screws are used, a minimum diameter of 4 mm and a length of 35 mm are required.

2. Skiffy Cap for Trespa from 8 mm upwards
- Material: nylon
- Colour: various colours for combination with Trespa colours
- Diameter: 12 mm (inner diameter 10 mm)
- Height: 5 mm

Quick assembly screw for Trespa



Skiffy Cap



Fixing methods.

Blind fixing:

1. Fischer PA 4 M6 insert for a panel thickness of 8 mm and upwards
- Material:
  insert: brass
  screw: stainless steel AZ-1702 or stainless steel A4
- Diameter:
  insert: 8 mm
  screw: M6
- Length:
  panel thickness 8: 5.5 mm
  panel thickness 10: 7.5 mm
  panel thickness 13: 10.5 mm
- Hole diameter: 8 mm
- Hole depth: special drill with depth stop

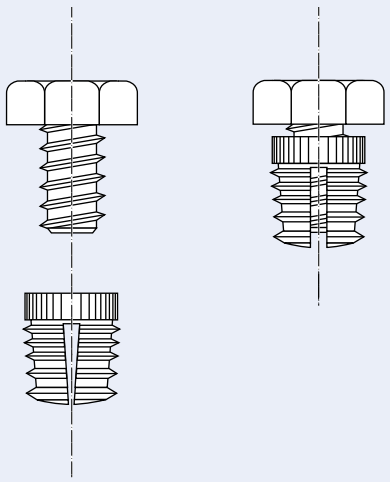
2. Thread cutting screw for a panel thickness of 8 mm upwards
- Type: EJOT-PT-S60
- Material: stainless steel AZ-17092 or stainless steel A4
- Diameter: 6 mm
- Hole depth: special drill with depth guide
- Ejot screw length:

Panel thickness	*Thickness Bracket*	*Washer*	*Ejot type DURO-PT-S60 stainless steel A4*	*Screw-in-drilled depth*	*depth*	*ø*
8	*3*	*+ 2**	*S60 x 9,5*	*4.5*	*5.5*	*5.3*
8	*5*	*+ 0*	*S60 x 9,5*	*4.5*	*5.5*	*5.3*
10	*3*	*+ 0*	*S60 x 9,5*	*6.5*	*7.5*	*5.3*
10	*5*	*+ 0*	*S60 x 11,5*	*6.5*	*7.5*	*5.3*
13	*3*	*+ 0*	*S60 x 11,5*	*8.5*	*9.5***	*5.3*
13	*5*	*+ 0*	*S60 x 14,5*	*9.5*	*10.5*	*5.3*

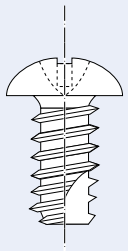
** 2 mm washer*
*** no standard special drill available*

3. Stainless steel tension free insert for panel thickness of 8 mm upwards
- Type: Keil Hinterschnittdübel M6
- Material: stainless steel A4
- Hole depth.
  panel thickness 8: 5 mm
  panel thickness 10: 7 mm
  panel thickness 13: 10 mm
- Hole diameter: 7 mm / 9 mm
  To be fitted with a special drill which is supplied with this type of anchoring device.

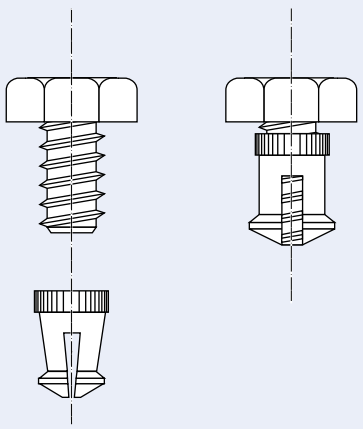
Insert



Thread cutting screw



Tension free insert



Notes.

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Quality.

Typically Trespa.

Trespa International BV

Trespa International BV specializes 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.

Four perfect product lines

Production of the façade cladding material Trespa Meteon is based on unique, patented techniques, which guarantee excellent weather resistance and colourfastness. Trespa Athlon, which offers you outstanding moisture resistance along with scratch and wear resistance, is particularly suitable for interior use. Trespa Virtuon is aesthetically pleasing and the perfect product for interior applications where durability, hygiene, cleanability are required. And Trespa TopLab *PLUS*, highly resistant to chemicals and designed for use as laboratory worktops, completes the product programme.

ISO 9001

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 certificate.

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

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