Installation systems

A Installation with screws
B Installation with staples
C Installation with adhesive

Panel movement
Block Tek boards experience dimensional variations due to changes in temperature and humidity. This means that perimeter expansion joints of ≥4 mm must be left at the end and along the length of the panels* in order to permit them to move, prevent hindrance of their free expansion or contraction and facilitate the evacuation of water or snow.

* *In system **B Installation with staples**, the longitudinal expansion joint will be the separation provided by the staple itself.*

Choice of panel thickness
The panel thickness affects the distance between support battens: the greater the thickness, the greater the distance between battens. However, note must also be taken that the installation system may require the use of a particular thickness.

Preparation of the site
The installation surface must be firm, in addition to having suitable water drainage. The minimum required incline is 2 degrees.

Substructure
The substructure must be dimensioned to meet the static requirements of the zone. The site state of collapse, the fastening system and the thickness of the material to be installed must also be taken into account. To overcome the irregularities of vertical alignment, auxiliary adjustable elements must be used.

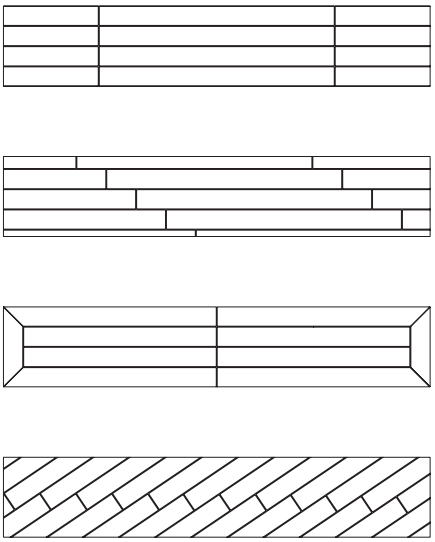
The minimum width of the substructure is 40 mm for intermediate points and 80 mm for the meeting points between 2 panels (except in the case of system **B Installation with staples**: minimum batten width 40 mm).

The substructure must be perfectly protected against corrosion and rotting, independently of the batten material used.

Wooden substructure:
If the substructure consists of wooden battens, they must be treated. It is advisable to fit PVC or closed cell polyethylene foam joints on the supporting surface to protect them and extend their useful life.

Metal substructure:
In rainy, humid areas it is advisable to use galvanised steel or aluminium battens.

Assembly options
The assembly pattern must be studied before starting the work since installation of the supporting substructure will depend on the pattern used.



A Installation with screws

Panels
The panels are supplied in a maximum width of 300 mm* and a total length of 2440 mm.

** For widths over 300 mm, please consult the Parklex Technical Department.*

Substructure
The battens must be installed perpendicular to the direction of the panel installation.

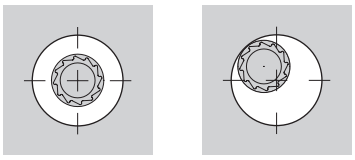
Panel thickness	Max. distance between battens
10 mm	300 mm
14 mm	400 mm

Screws
Correct screw selection will depend on the type of batten used.

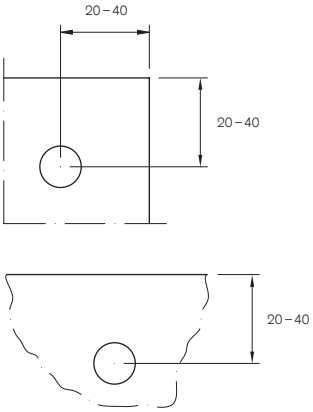
Metal batten: SX3-L12
Wooden batten: TWD-S-D12

Fastenings
To permit dimensional variations, all panel fastening points must be floating (predrilling diameter 3 mm greater than the screw shank diameter).

It is particularly important to ensure that the screw is exactly centred in all holes.

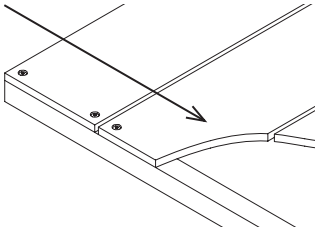


Screws must be fitted at a distance of 20-40 mm from the panel border.



Crosswise fastenings
The number of crosswise panel fastenings required will depend on the chosen panel width.

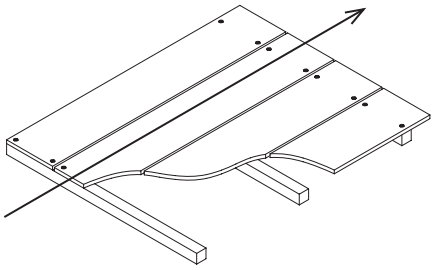
≤ 80 mm* → 1 fastening
> 80 mm* → 2 fastenings

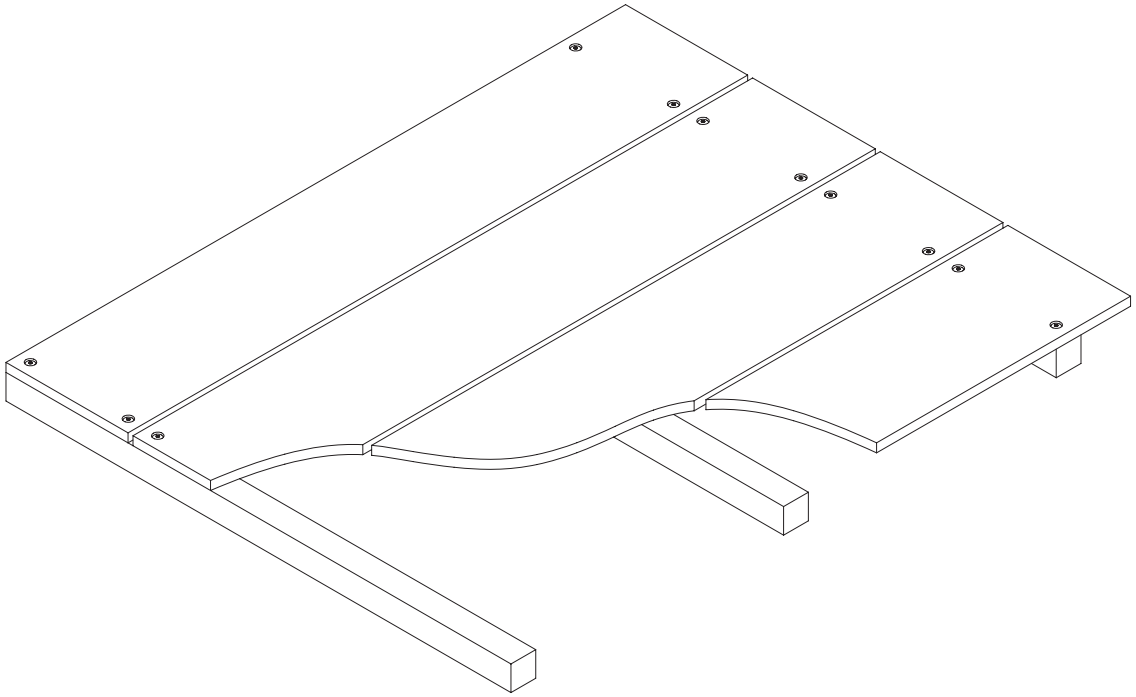


** General rule, given that the panels can be ordered with customised widths, apart from the 3 standard widths (130, 198, 300 mm).*

Lengthwise fastenings
The distance between lengthwise panel fastenings will depend on the panel thickness.

Panel Thickness	Max. distance between fastenings
10 mm	600 mm
14 mm	800 mm

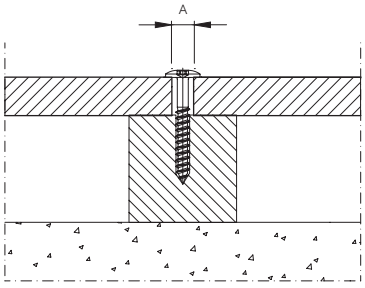


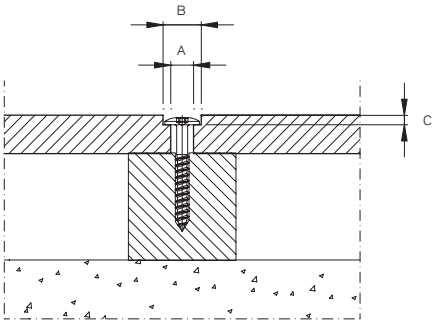


EXPOSED

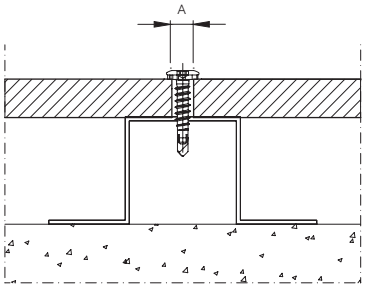
CONCEALED

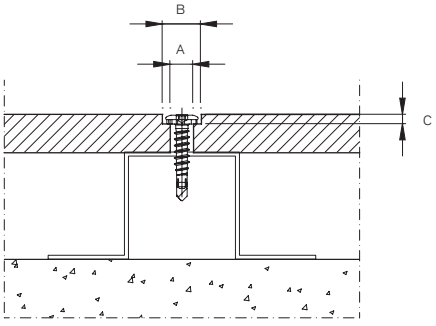
WOOD





METAL





A. Predrilling diameter (3 mm greater than screw shank diameter)
B. Concealing diameter (2 mm greater than screw head diameter)
C. Screw head height

B Installation with staples

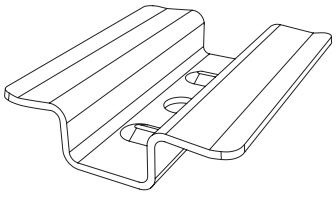
Panels
The panels are supplied with their lengthwise edge machined; they come in a total length of 2440 mm and a maximum width of 198 mm. The concealed fastening system is only valid for thicknesses of 14 mm.

Substructure
The battens must be installed perpendicular to the direction of the panel installation.

Panel thickness	**Max. distance between battens**
14 mm	400 mm

Screws
Parklex supplies screws for fixing staples to the profile depending on the material selected for the substructure (wood or metal).

Staples
HAT staples are used for joints between panels.



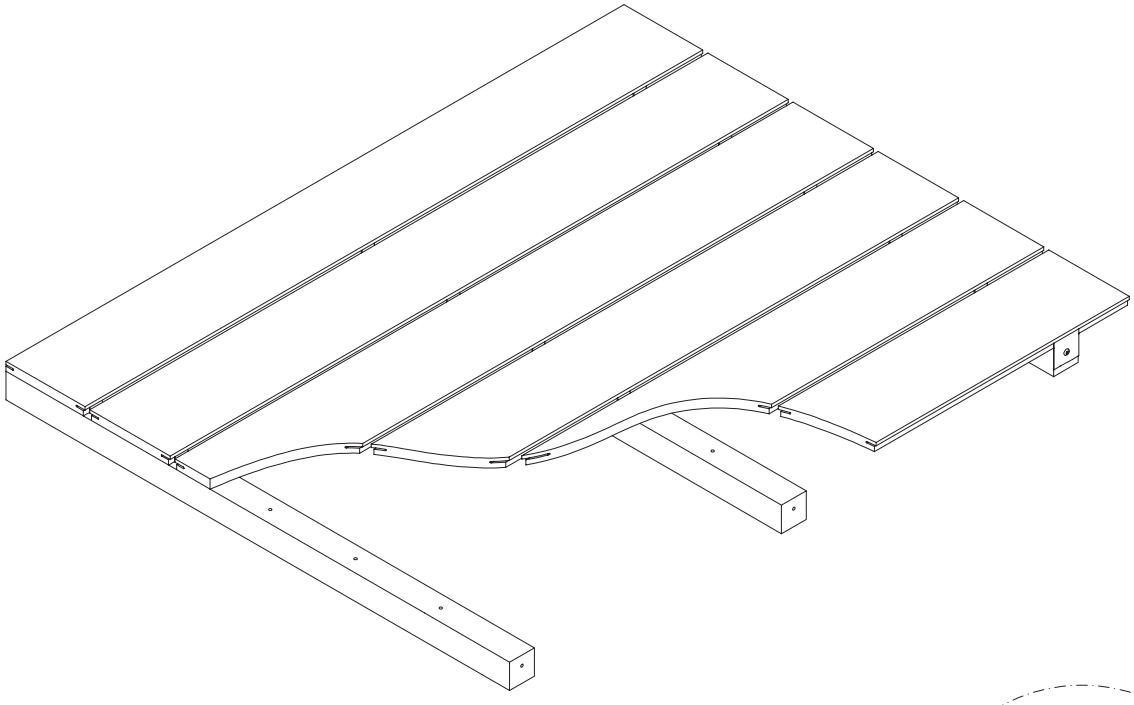
One of the staple grooves is slotted into to the longitudinal machined edge of the panel and the other is screwed into the batten.

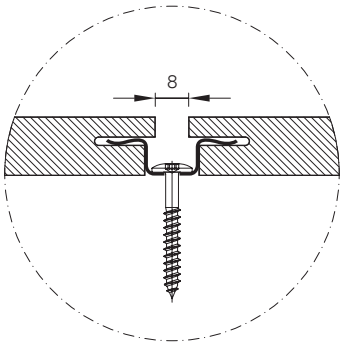
The groove in the next machined panel is then slotted into the free lug of the previous staple, and so on.

Panel thickness	**Max. distance between staples**
14 mm	400 mm

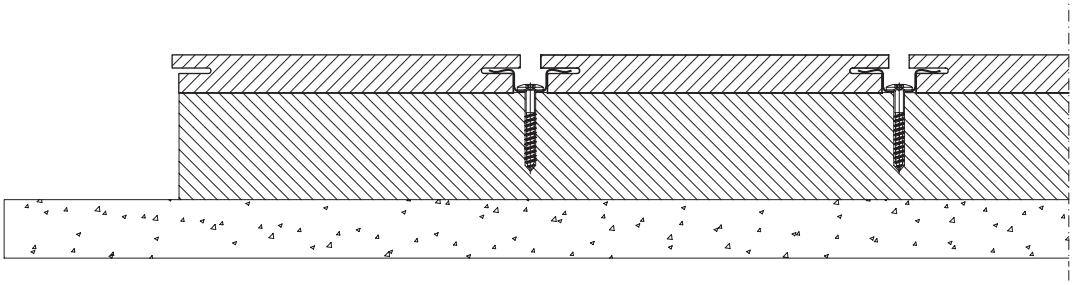
The longitudinal separation between panels will depend on the staple used (6-8 mm).

In the event that the last panel requires cutting, it must be fixed to the substructure using either system **A Installation with screws,** or **C Installation with adhesive**.

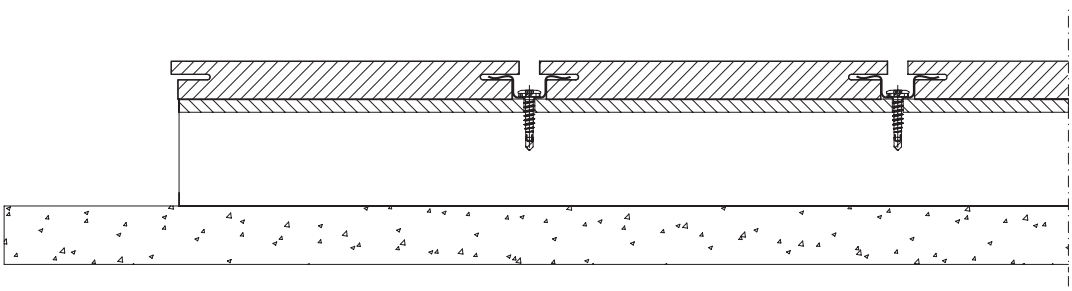




WOOD



METAL



C Installation with adhesive

Parklex has obtained from the adhesive manufacturer a strict and appropriate procedure for gluing Block Tek panels. Given the continuous variations in adhesive design and applications, we recommend that you consult us on the most recent application procedure if you want to use this system.

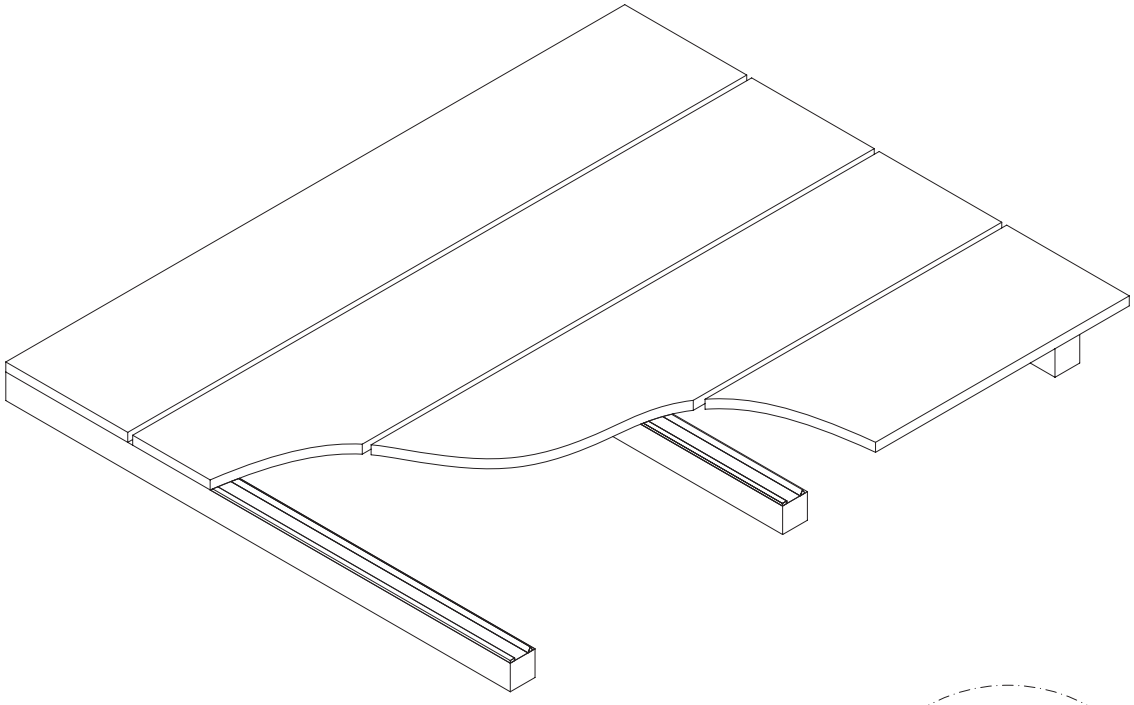
Panels
The panels are supplied in a maximum width of 300 mm* and a total length of 2440 mm.

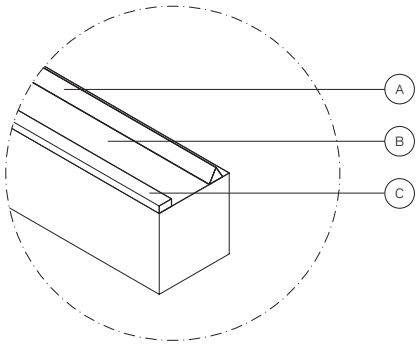
* *For widths over 300 mm, please consult the Parklex Technical Department.*

Substructure
The battens must be installed perpendicular to the direction of the panel installation.

Panel thickness	**Max. distance between battens**
10 mm	300 mm
14 mm	400 mm

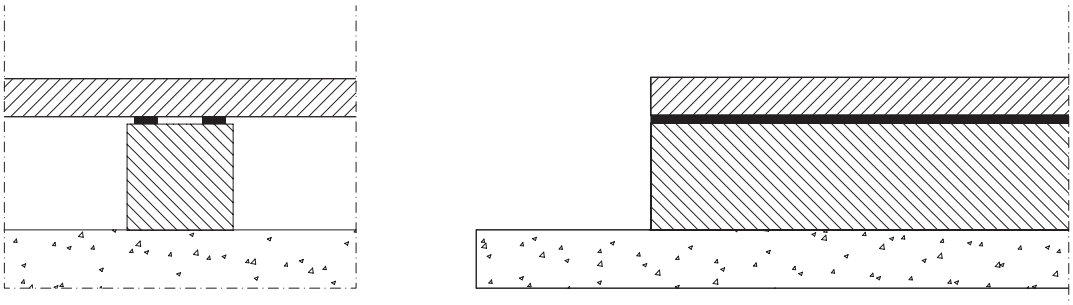
Clamps
It is essential, once the panels have been installed using this system and until the adhesive polymerises, to fit clamps round the perimeter of the pieces (every 200- 300 mm, taking particular care to fix the corners), ensuring that they do not apply pressure beyond the thickness of the double-sided tape.



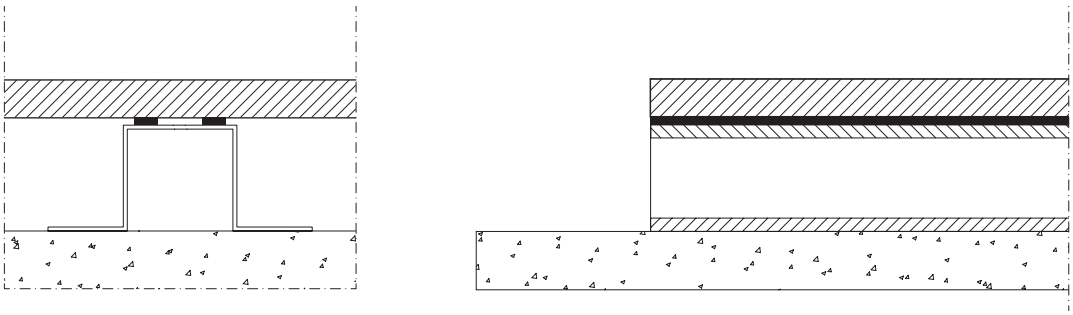


A. SikaTack®-Panel
permanently elastic glue
B. Primer
C. SikaTack®-Panel
mounting tape

WOOD



METAL



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