

# [ Woodn aeternus ]

Technical brochure

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**WOODN**  
SPECIES UNICA

## [ Colours ]

01 Bianco Carrara



02 Lagorai



09 Cuba\*



13 Myanmar\*



14 Grigio Silverstone



28 Grigio Londra

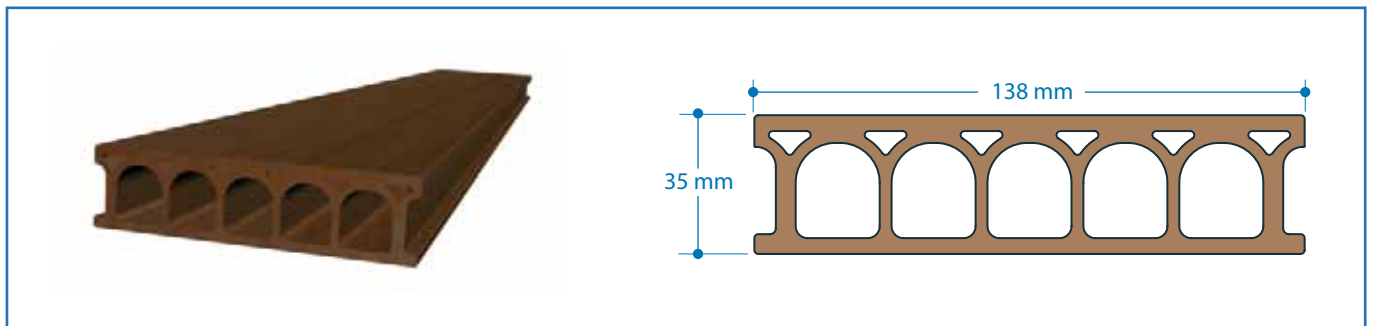


The images shown in this catalog are only indicative of the grain and colour of the product. As the product contains natural fibers, there may be slight variations in colour/appearance depending on the production lot. The sending and/or delivery of any samples constitute only general indications of the dimensions and the aesthetic appearance of Woodn products. For more precise and detailed information about their characteristics, please refer solely to the technical information by visiting our website [www.woodn.com](http://www.woodn.com).

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## [ Dimensions ]

Woodn aeternus



The external dimensions listed are nominal.

Refer to the technical drawings in our site [www.woodn.com](http://www.woodn.com) for the shape and internal dimensions of the profile and production tolerances.

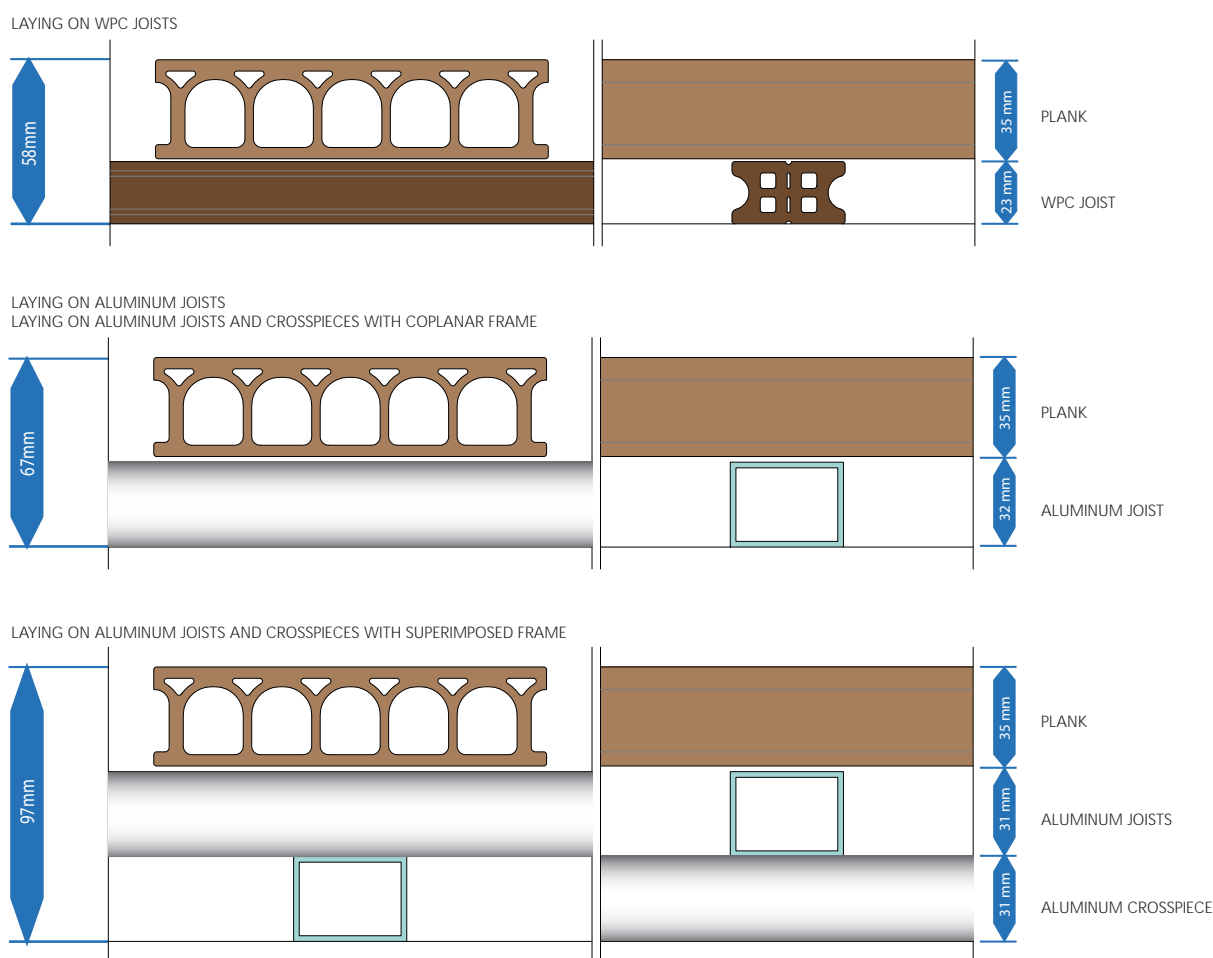
## Size of the joints

The size of the joints depends on the type of clip used, as follows:

Clip model	Joint size [mm]
Stainless steel clip (cod. KKDT13835_4024)	Approximately 1,5*
Nylon clip (cod. WADT13835_ST)	Approximately 4,5*

\*IMPORTANT: The dimensions shown are approximate and may vary depending on the installation method and skill of the installer. If absolute precision is required in the arrangement of the planks, the laying surface must be checked on site before beginning assembly.

## System height



## Packaging dimensions and logistics

Dimensions of the plank	138 x 35 x 2500 mm
Number of planks per box	3
Number of planks per m <sup>2</sup> (L=2500 mm)	~ 2,85
m <sup>2</sup> per box	~ 1,05
Weight of a plank	~ 5,8 kg
Dimensions of the box	~ 150 x 120 x 2515 mm
Weight of the box	~ 18,3 kg

## [ Tests ]

## Characteristics of the material

• *Mechanical tests* •

Elasticity (bending)	UNI EN ISO 178	@ 23°C	2130 Mpa
		@ 65°C	660 Mpa
Yield strength (flexural)	UNI EN ISO 178	@ 23°C	31,1 Mpa
		@ 65°C	6,8 Mpa
Resistance to indentation	EN 1534:2000		2,40 Kg/mm <sup>2</sup>
Residual indentation	UNI 4712/61		0,388 mm
Moisture content	EN 322:93		3,13 %
Screw extraction from the surface	EN 320:93		142 N/mm
Dynamic-mechanical analysis of transition temperature	ASTM D 4065/95		78,7°C
Resistance to temperature fluctuations (range -20°/+50°C)	UNI 9429:89		Level 5: there are no surface defects
Dimensional changes associated with changes in temperature	UNI 9429 modified	Dopo 24h a +50°C	Longitudinal 0,07% Transversal -0,15%
		Dopo 24h a -20°C	Longitudinal -0,03% Transversal -0,30%
Coefficient of linear thermal expansion (range -20°/+50°C)	TMA ASTM E 831:2006	Longitudinal	46,9 µm/(m°C)
		Transversal	48,9 µm/(m°C)
Dynamic friction coefficient	B.C.R.A. method	Wet	Direction A: 0,58 Direction B: 0,63
		Dry	Direction A: 0,62 Direction B: 0,66
Dimensional changes associated with changes in humidity (test at 20°C)	EN 318:2002	from 65% U.R. to 85% U.R.	Longitudinal 0,3 mm/m Thickness 0,1%
		from 65% U.R. to 30% U.R.	Longitudinal -0,2 mm/m Thickness 0,1%

• *Reaction to fire* •

Fire classification	UL 94	V-0 Class
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• *Chemical and biological features* •

Formaldehyde emission	EN 717-2:1994	0,1 mg/m <sup>2</sup> h
Evaluation of the action of microorganisms (scale from 0 to 5)	EN ISO 846:97	Result obtained: 1
Heavy metal content (Pb, Ge, Cr, Hg)	GB18584-2001 GB18580-2001	<0.5 ppm

## Profile characteristics

• *Mechanical tests* •

Threaded extraction load insert AVDEL 0VN21_02838 (test carried out at 30°C)	EN 310:1983	Breakage: 3266 N Deformation 2mm: 500 N
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• *Surface characteristics* •

Surface resistance to slippage while wearing footwear (brushed finish)	DIN 51130 (06/2004)	R12
Surface resistance to slipping while barefoot (brushed finish)	DIN 51097 (1992)	A+B+C

• *Chemical and biological features* •

Resistance to cold liquids (classification according to UNI)	EN 12720:1997	E Class (smooth and oiled finish)
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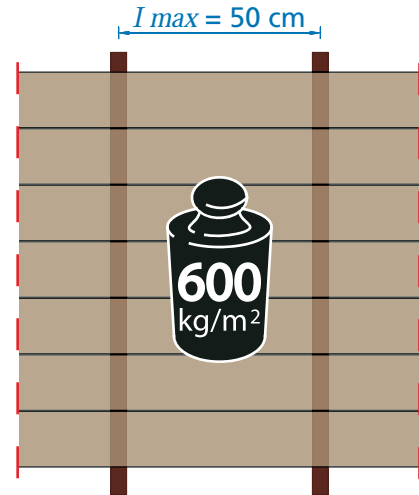
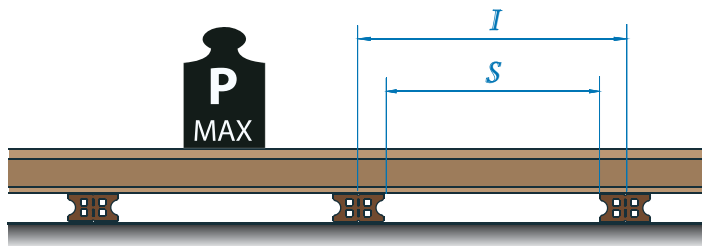
The values shown are indicative and not binding. We remain available to perform any tests on request.

The natural aging of the material and temperature variations with respect to the test temperature, may cause greater or lesser deviations of the effective characteristics of the profile regarding the values indicated

The product is protected by guarantee according to the terms and conditions of law: for more information [www.woodn.com](http://www.woodn.com)

## [ *Weight bearing* ]

	Distance between the joists [cm] $S$	Maximum load on a single plank [Kg] $P_{max}$
Woodn Aeternus	~ 25	180
	~ 40	120



Load distributed over  $1 \text{ m}^2$

*The aeternus floor can be walked on though not driven on.*

## [ *Installation instructions* ]

### General rules of assembly

The laying temperature should be greater than  $0^\circ$ .

Keep the material in stock at temperatures close to the installation temperature for at least 48 hours prior to installation. Store the planks on a flat surface avoiding direct exposure to sunlight. Please carefully check the material before you install it and notify us immediately of any deformities.

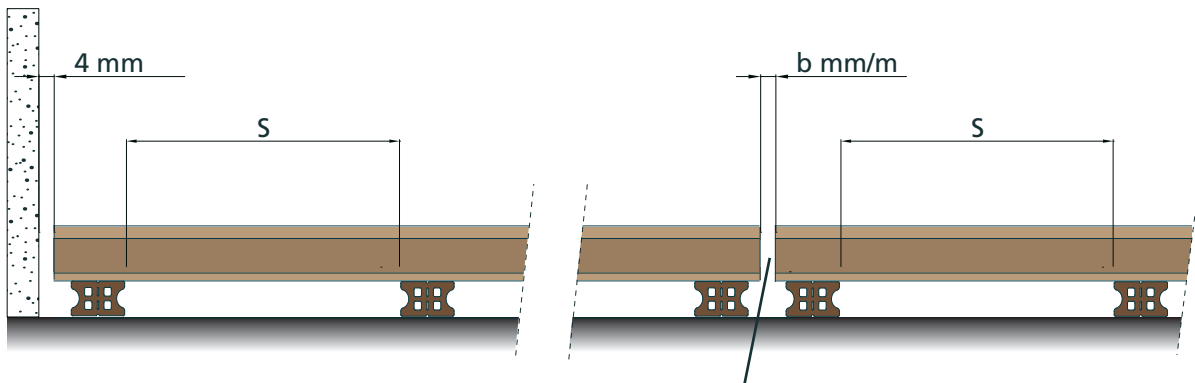
A complaint will not be accepted after the installation has been performed.

The distances shown should be evaluated with respect to the longest plank adjacent to the space to leave.

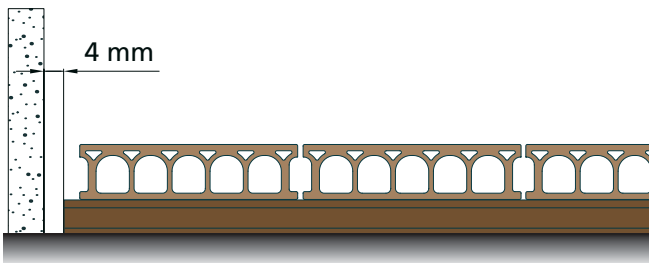
If it is not possible to keep the distances "a" and "b" due to the geometry of the laying areas, it is necessary to appropriately reduce the length of the planks.

Laying temperature	Distance b [mm/m]	Distance b [mm/m] for long plank 2,5 m
< 20°C	2,1	6
> 20°C	1,6	4

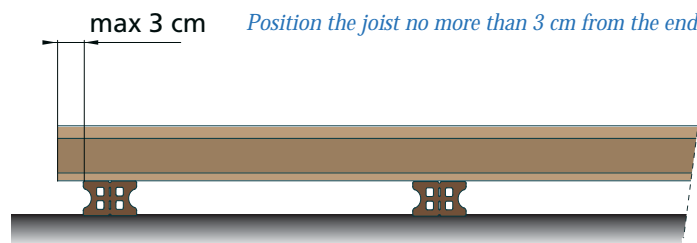
Maintain a minimum distance between the ends of the plank and the wall of at least 4 mm.



Maintain a minimum distance between the ends of two consecutive planks equal to "b" mm per meter of plank length, as indicated in the table.



The distance between joist and wall must be at least 4 mm regardless of the width of the surface.



Position the joist no more than 3 cm from the end of the plank.

## [ *Laying method 1* ]

### Laying on a flat and stable floor

The standard installation on WPC joists provides for the fixing of these to the ground; this system is suitable for installation on stable and drillable floors such as: concrete subfloors, existing floors of stone, industrial type flooring.

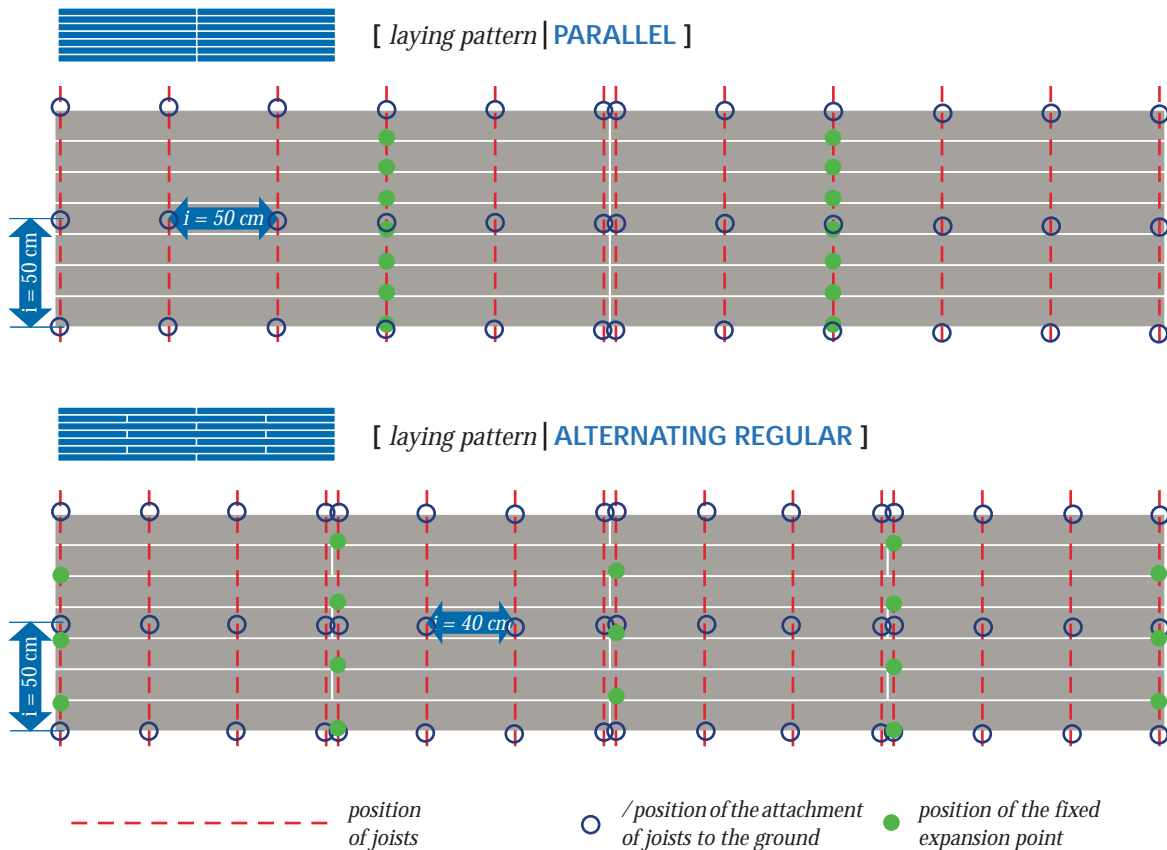
In the presence of concrete screeds laid to protect the underlying sheaths, make sure of the actual thickness available in order to choose the size of the anchor to be used for fixing the joists, so as not to puncture the underlying sheaths.

For installation in situations and on ground surfaces other than as described in these instructions, contact the Woodn technical department at the following email address: [ufficiotecnico@woodn.com](mailto:ufficiotecnico@woodn.com)

#### ■ *Tools required for installation*

- Impact drill
- Screwdriver
- Electric saw
- Rubber mallet
- Various materials for tracing

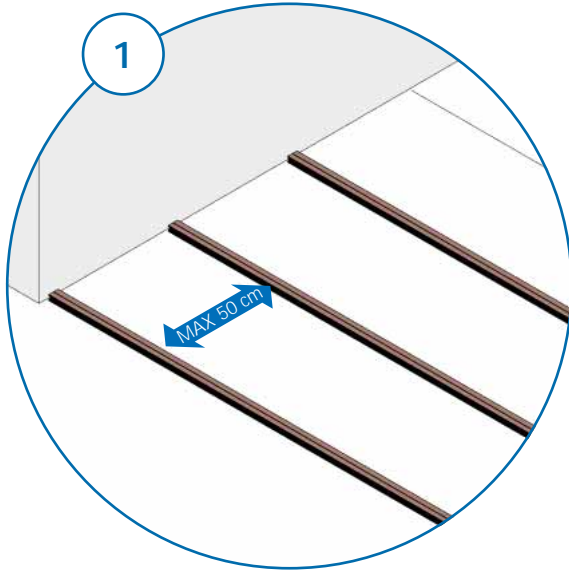
#### ■ *Laying pattern diagrams*



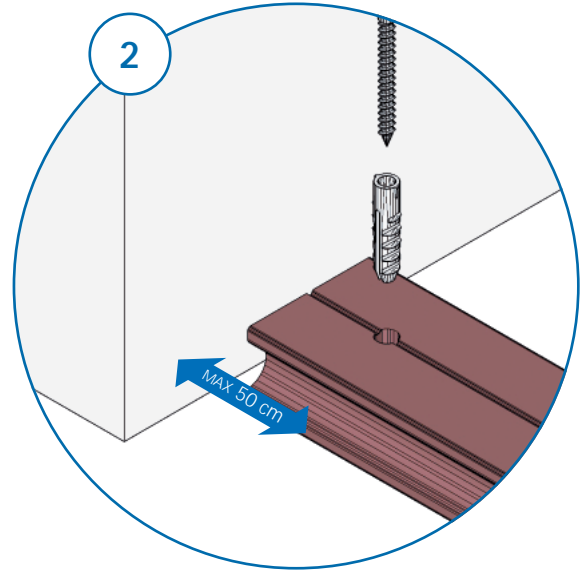


## ■ Laying and fixing of WPC joists

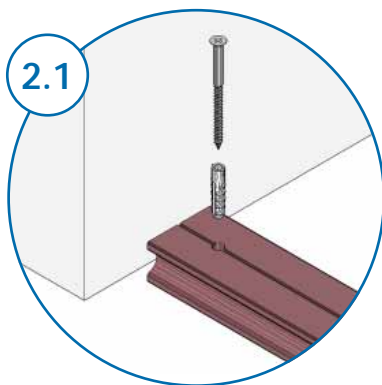
Arrange the joists on the ground in a position perpendicular to the plank laying direction, with a maximum center-to-center distance of 50 cm from each other. The positioning of these is closely linked to the laying surface of the planks. It is recommended to lay out the planks on the ground to locate the exact positions of the joists, the center-to-center distance of the same can vary depending on the laying surface and the cutting of the floor planks.



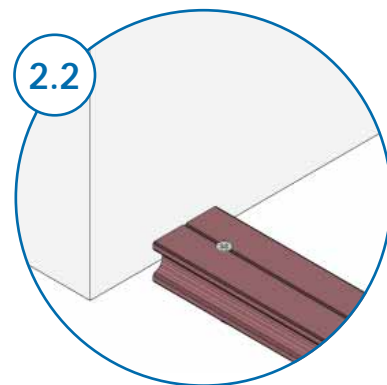
Arrange the joists on the ground with a maximum center-to-center distance of 50 cm, taking into account the floor laying pattern.



Attach the joists to the ground using nylon screws and plugs properly chosen according to the type and thickness of the ground at a maximum center-to-center distance of 50 cm.



Drill the joist and the ground at 50 cm intervals as shown in fig. 2.

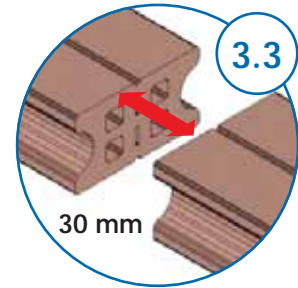
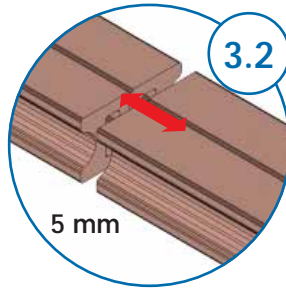
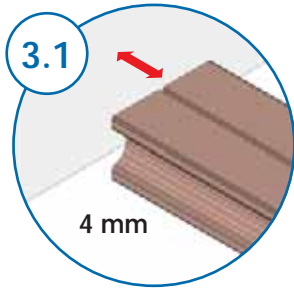


2 With the help of the rubber mallet tap the wall plug until it completely penetrates the ground.

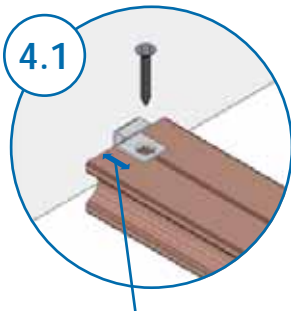
\* We recommend the use of self-drilling countersunk screws [Fischer Power-Fast](#)



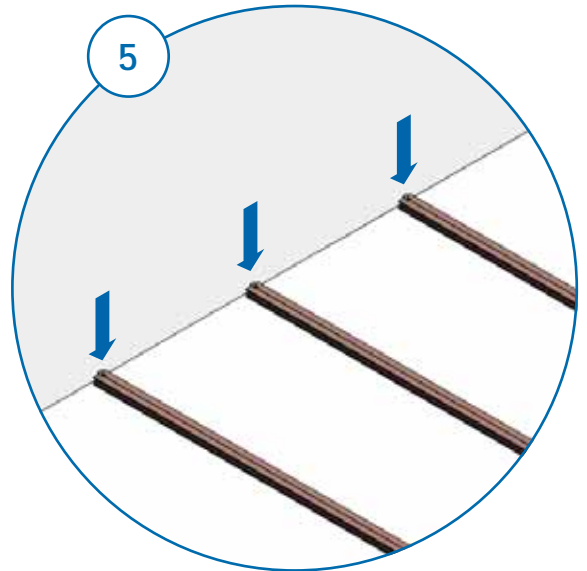
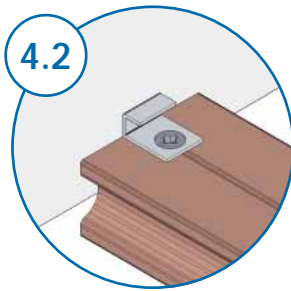
When installing the joists, respect the minimum distance between the head of the profile and the perpendicular edge of at least 4 mm (fig. 3.1). The distance between the heads of adjacent joists in the event of installation along the inclined side of the substrate must be at least 5 mm (fig. 3.2). In case of installation of the joists along the side perpendicular to the slope of the bottom, leave a space between the heads of at least 35 mm for the outflow of water collected on the bottom (fig. 3.3).



## ■ Installation of the planks

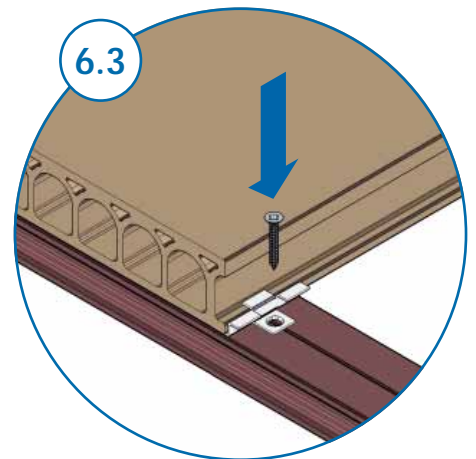
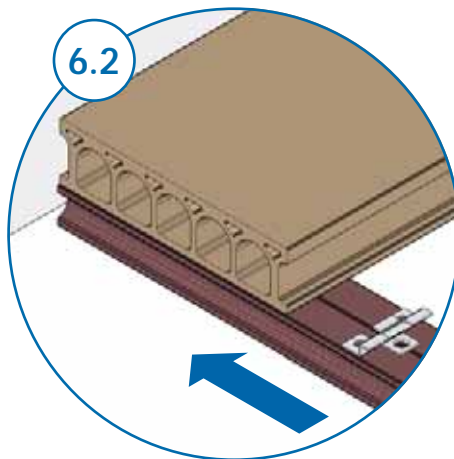
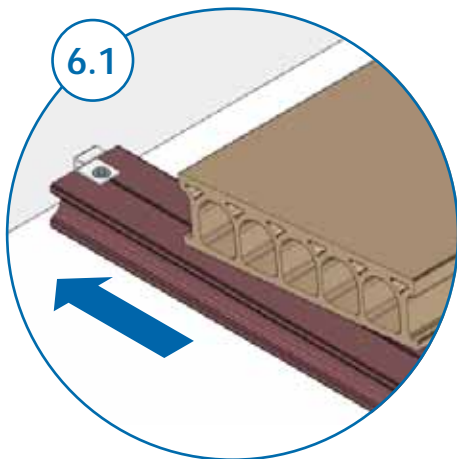


Fasten the starting clip at least 10 mm from the joist.



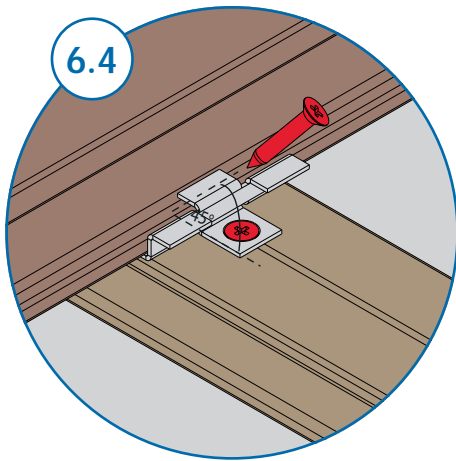
Using the screwdriver, install the starting clip KKDT13835-3314 by screwing it to the joist with self-tapping screws  $\varnothing$  3.5 x 20 mm, supplied.

Repeat the operations described in paragraphs 4.1 and 4.2 on all joists.



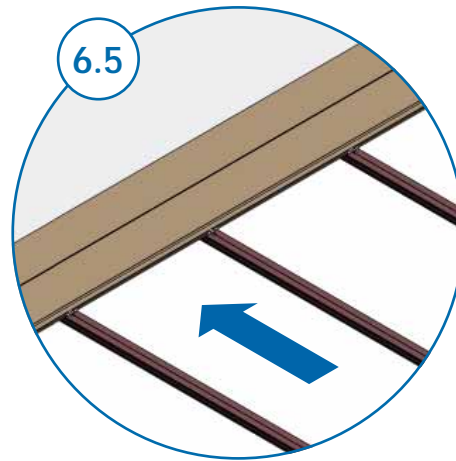
Insert the first plank by inserting the lower flap in the cavity of the clip.

With the use of clip KKDT13835-4024 and self-tapping screws lock the plank as shown in Figures 6.2 and 6.3.



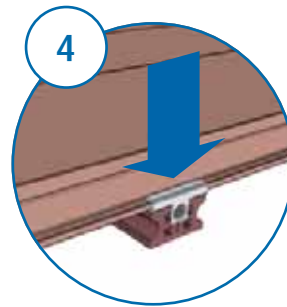
Install a screw inclined at 45° which blocks the plank to the joist to form the fixed point to control the expansion.

*See the position shown in the laying patterns.*

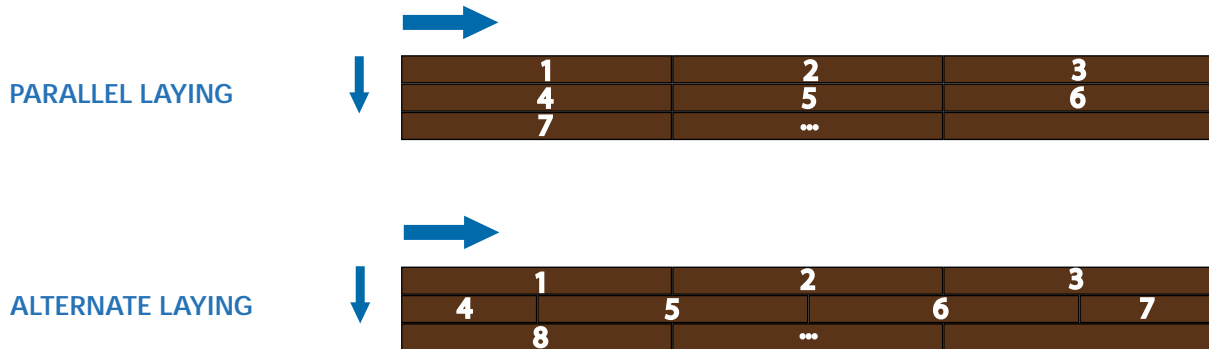


Following the above steps, continue the installation of the successive planks, following the correct order of installation.

Complete the installation of the planks using the closure clip KKDT13835\_4013 as shown in the figure.



### ■ Order of installation of the planks



## [ Laying method 2 ]

### Laying on a stable and uneven floor

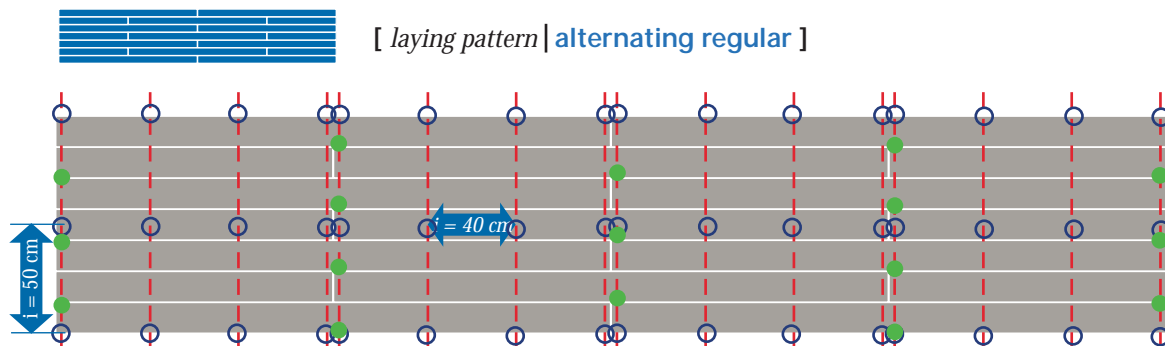
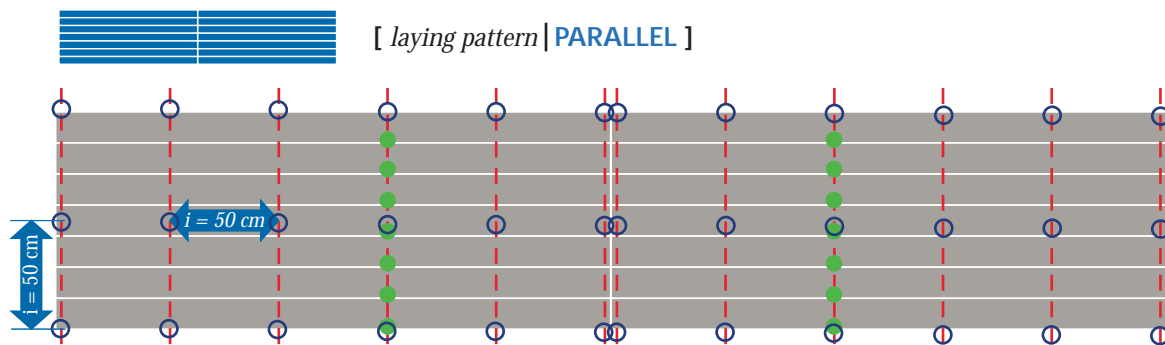
The laying method on aluminum joists provides for the fixing of these to the ground; this system is suitable for installation on stable and drillable floors such as: concrete subfloors, existing floors of stone, industrial type flooring. We recommend the use of aluminum joists where ground conditions are uneven and it is therefore necessary to use shims frequently. In the presence of concrete screeds laid to protect the waterproofing sheaths, make sure of the actual thickness available in order to choose the size of the anchor to be used for fixing the joists, so as not to puncture the underlying sheaths.

For installation in situations and on ground surfaces other than as described in these instructions, contact the Woodn technical department at the following email address: [ufficiotecnico@woodn.com](mailto:ufficiotecnico@woodn.com)

#### Tools required for installation

- Impact drill
- Screwdriver
- Electric saw
- Rubber mallet
- Various materials for tracing

#### Laying pattern diagrams



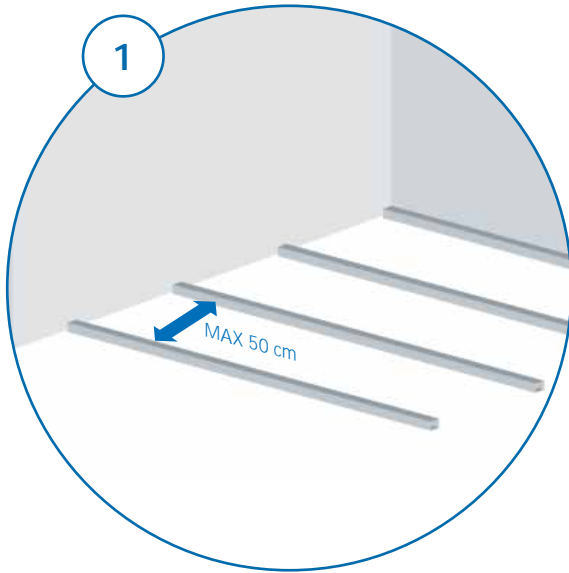
--- position of joists

○ position of the attachment of joists to the ground

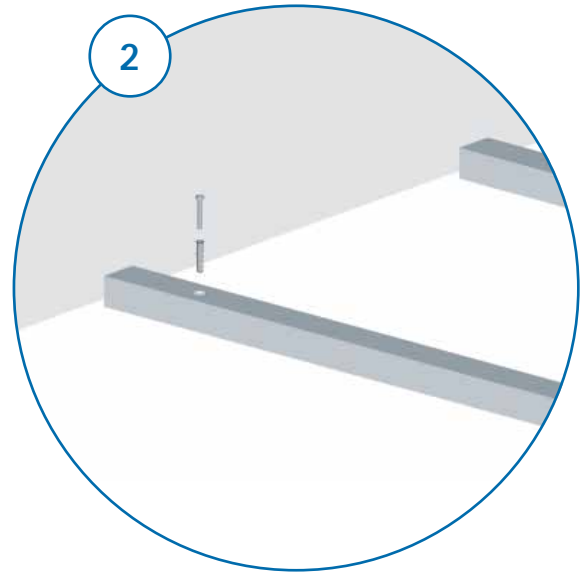
● position of the fixed expansion point

## ■ Laying and fixing of aluminum joists

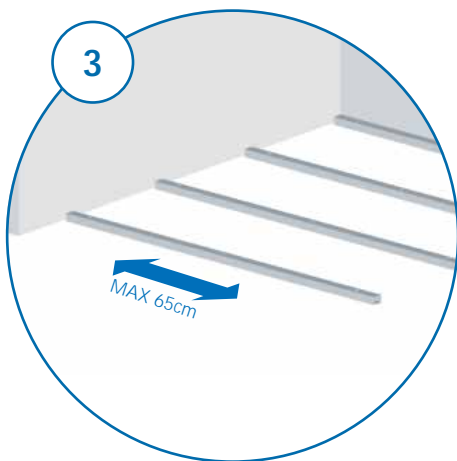
Arrange the joists on the ground in a position perpendicular to the plank laying direction, with a maximum center-to-center distance of 50 cm from each other. The positioning of these is closely linked to the laying surface of the planks. It is recommended to lay out the planks on the ground to locate the exact positions of the joists, the center-to-center distance of the same can vary depending on the laying surface and the cutting of the floor planks.



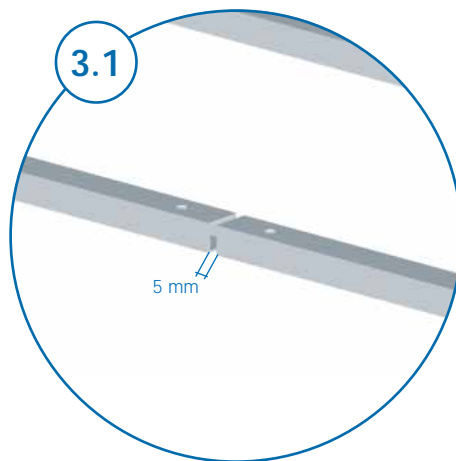
Arrange the joists on the ground with a maximum center-to-center distance of 50 cm, taking into account the floor laying pattern.



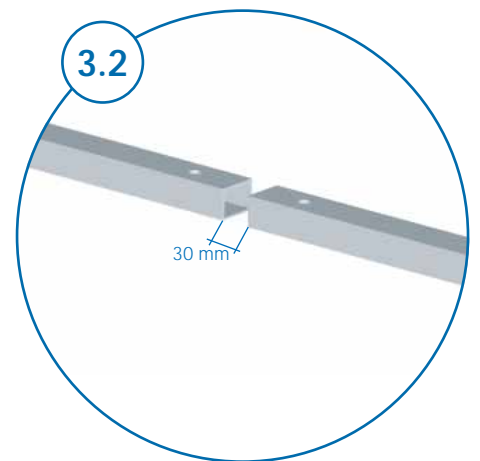
Drill a pilot hole of a diameter 1 to 2 mm greater than the diameter of the screw shank and another of a diameter greater than the diameter of the screw head in correspondence with the upper surface of the joist.



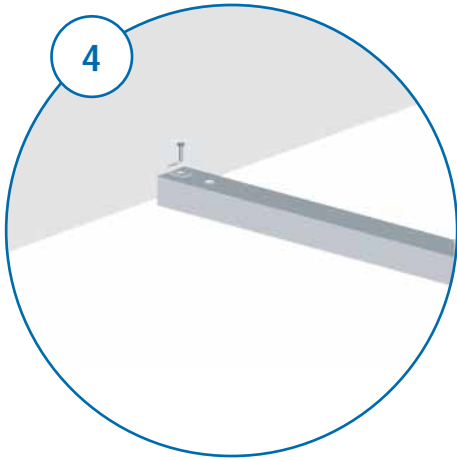
Attach the joists to the ground using the proper wall plugs; the center-to-center distance of the attachment points must not exceed 65 cm.



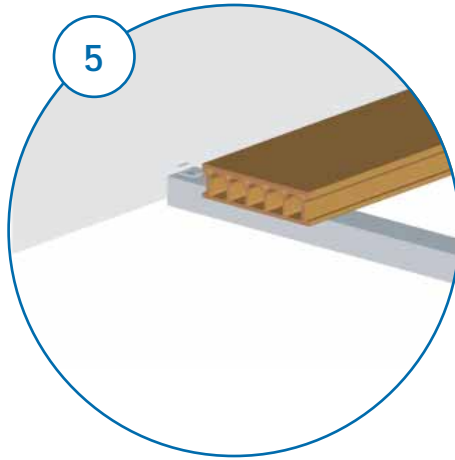
The distance between the heads of adjacent joists must be at least 5 mm in the case of installation of the joists along the inclined side of the pavement (fig. 1) and 30 mm in the case of installation perpendicular to the slope, to allow the outflow of rainwater (fig. 3.2).



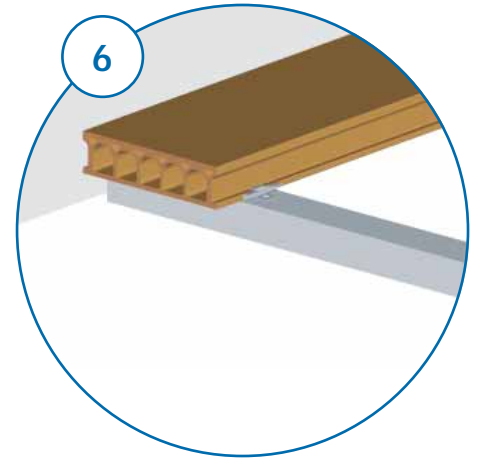
## ■ Installation of the planks



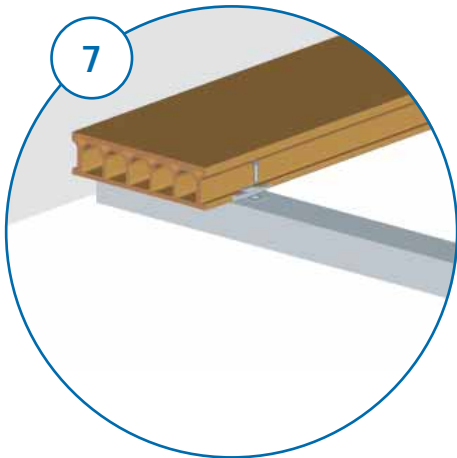
4  
Install the starting clip KKDT13835-2314 by screwing it to the joist with self-drilling screws D3.5x25mm. Making sure that the clips are all aligned, repeat the process as far as necessary.



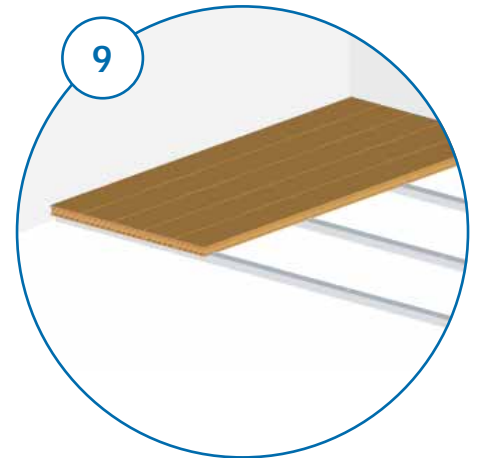
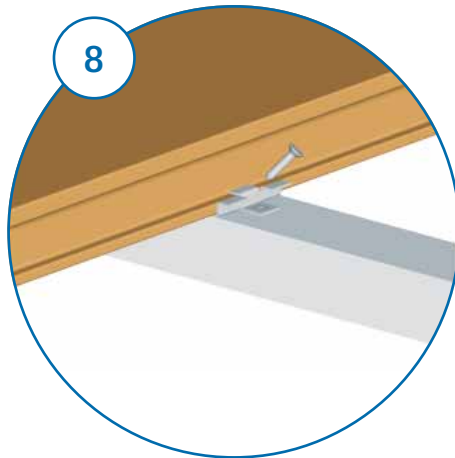
5  
Install the first plank by inserting the lower flap in the cavity of the clip.



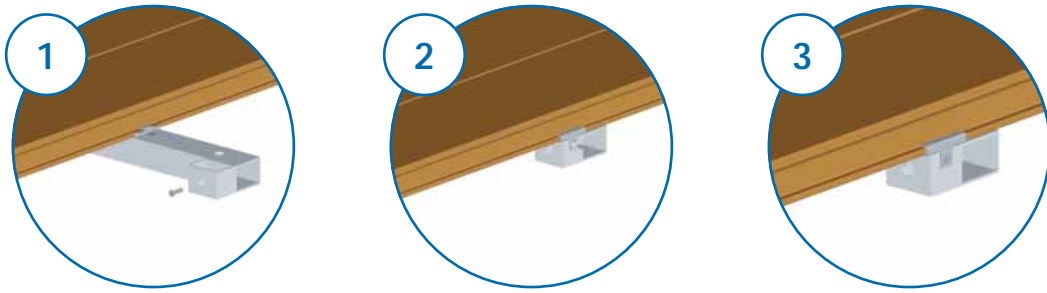
6  
Insert the clip KKDT13835-4024 and insert the screw to secure it to the joist.



7  
Install in each plank ONE screw as shown in the figure, so as to avoid the sliding of the plank in the direction of its length. For the location of this FIXED POINT, see the instructions in the diagrams of laying patterns.

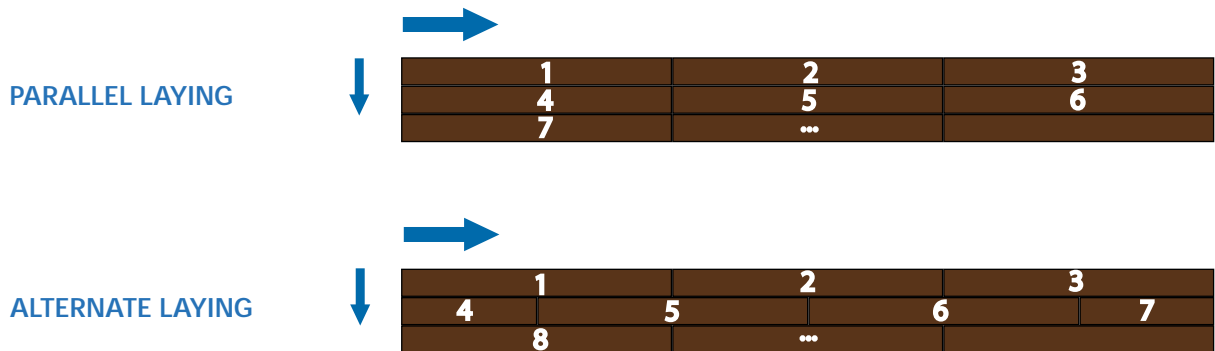


8  
9  
Repeat the above steps until completion of the pavement, in the order of installation indicated in the following paragraph.



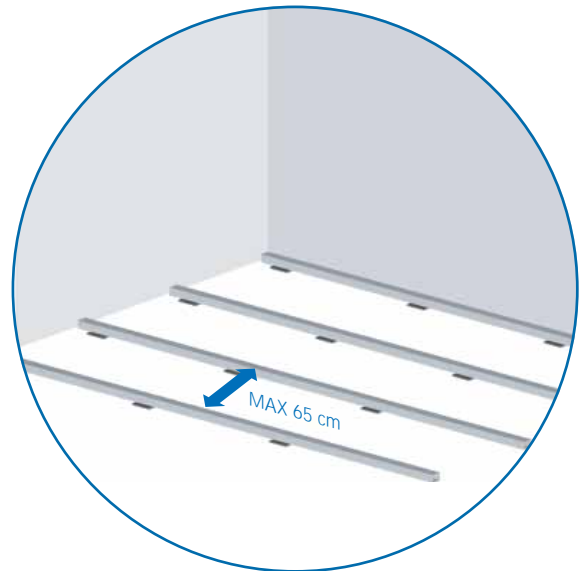
Complete the installation of the planks using the closure clip KKDT13835-4013 as shown in the figure.

### ■ *Order of installation of the planks*



### ■ *Shimming, if required*

If the ground is uneven, and it is therefore necessary to effect shimming, it is necessary to ensure support to the WPC joists at least every 65 cm. To this end you can use Woodn Ornans strips or other durable materials.



## [ Laying method 3 ]

### Laying on unstable or elevated ground

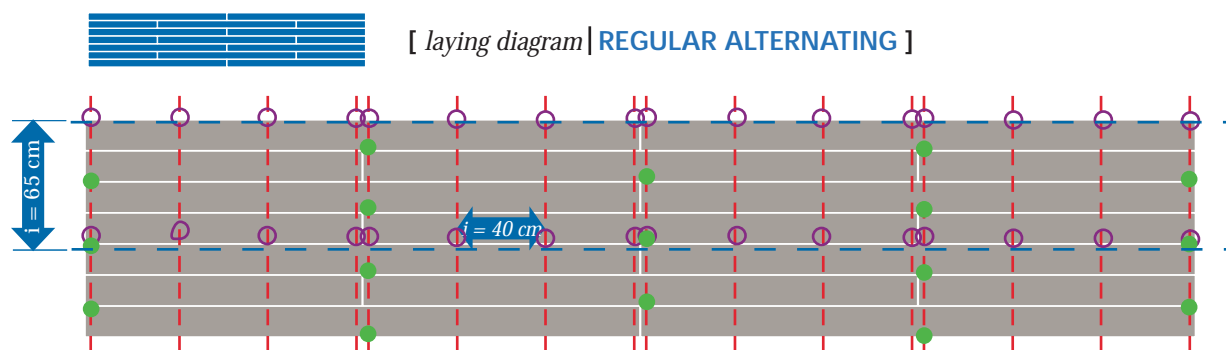
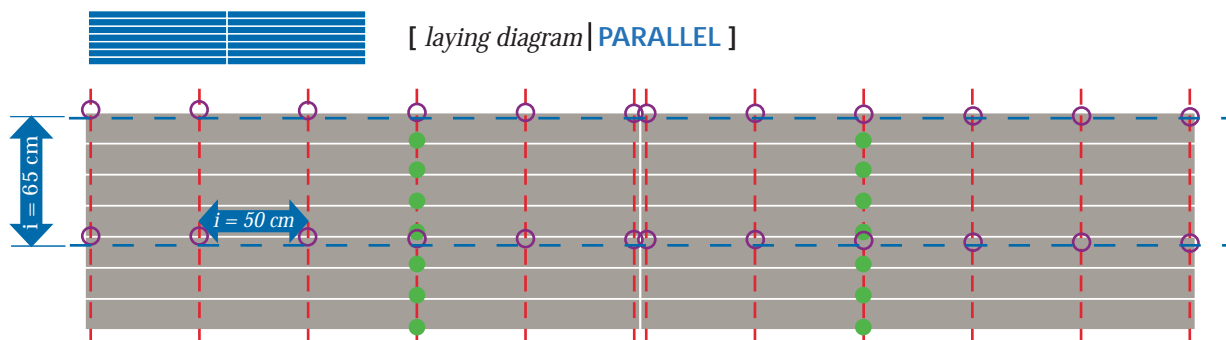
The laying system provides for the creation of a frame composed of aluminum joists and crosspieces and does not require fixing to the ground; this system is suitable for laying on unstable or not drillable grounds such as: terrain with vegetation, stabilized gravel or sand, waterproofed pavement with sheath or in general for raised floors.

For installation in situations and on ground surfaces other than as described in these instructions, contact the Woodn technical department at the following email address: [ufficiotecnico@woodn.com](mailto:ufficiotecnico@woodn.com)

#### ■ Equipment necessary for the installation

- Impact drill
- Screwdriver
- Electric saw
- Rubber mallet
- Various materials for tracing
- Straightedge, bubble or laser level.

#### ■ Laying pattern diagram

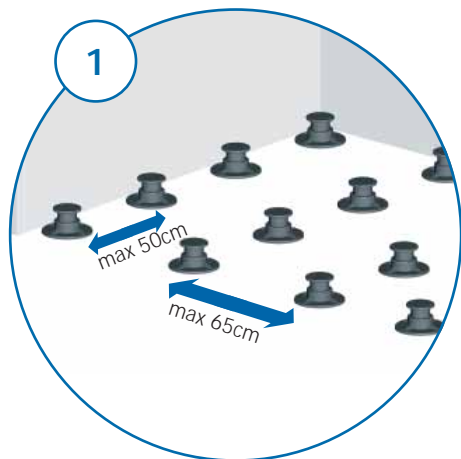


- position of joists
- position of crosspieces
- position of support in case of raised floor
- position of the fixed expansion point

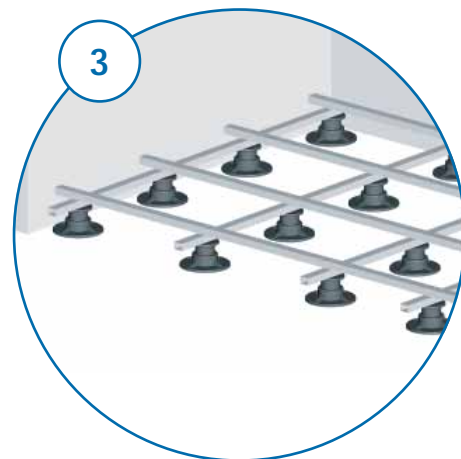
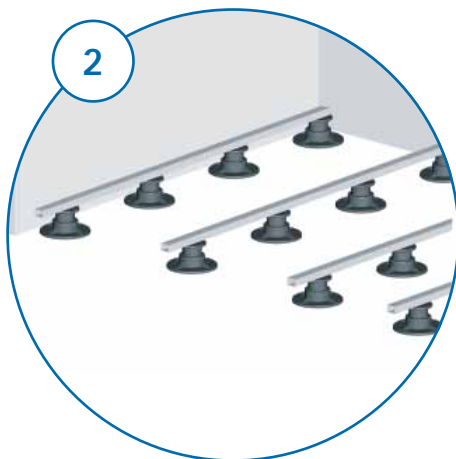


## ■ *Laying of supports for raising*

In the case of raised floor, place the supports in accordance with the laying pattern. In any case, the distance between the supports must be a maximum of 50 cm in the direction parallel to the length of the planks and 65 cm in the direction perpendicular to the length of the planks.



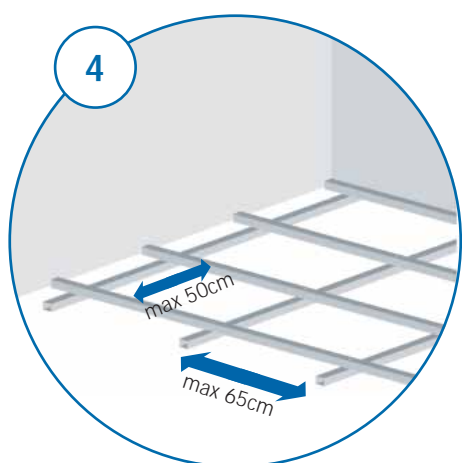
Place crosspieces and joists as shown in figure.



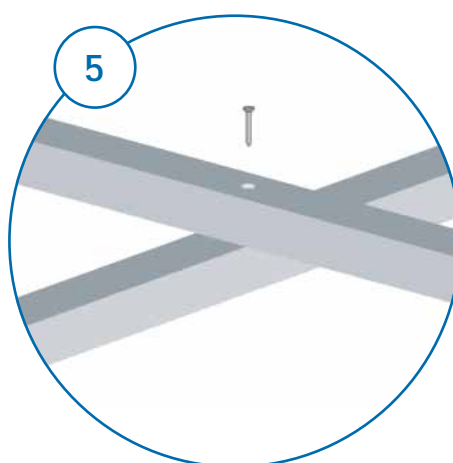
Then create the frame as indicated in the following paragraph.

## ■ *Creating the aluminium frame*

Place crosspieces and joists as necessary for the selected laying pattern, maintaining a maximum center-to-center distance of 50 cm between joists and 65 cm between the crosspieces.

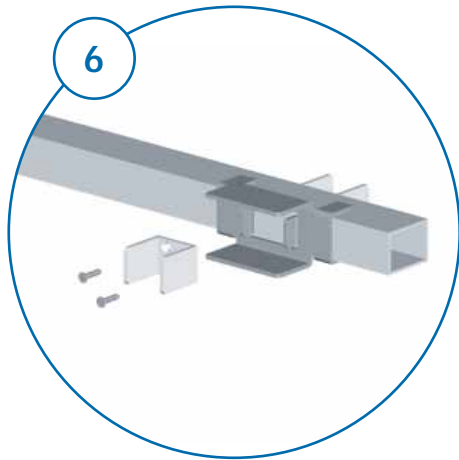


The joists must be fixed rigidly to the crosspieces.

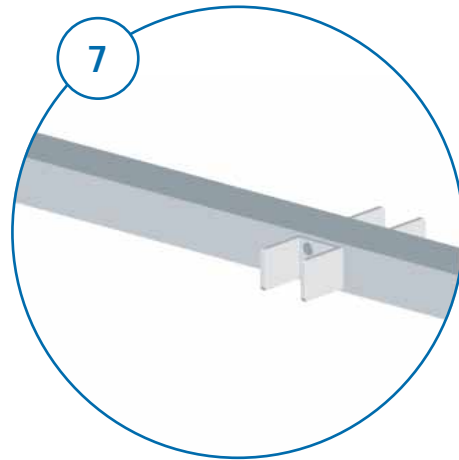


In the case of superimposed frame, drill 5 mm diameter passing holes on the joist and widen them to 12 mm at the upper surface. Then, fix it with the self-drilling screw.

In the case instead of a coplanar frame, use the aluminum joints supplied, code WADT13835\_U3525. Before affixing these, it is necessary to trace precisely the position of the individual joints, so as to ensure the alignment necessary for mounting.

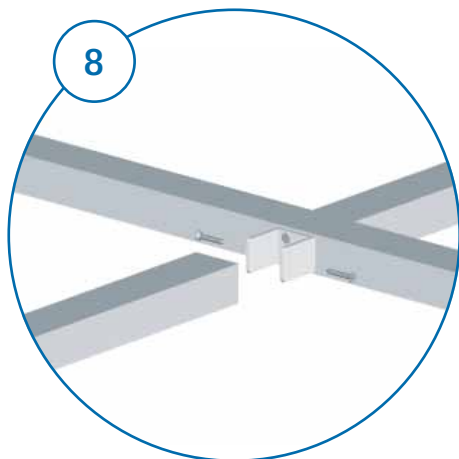


Place the joint on the side of the crosspiece, using the positioning mould code WADT13835\_10046, provided. Then tighten the screws to the joist.

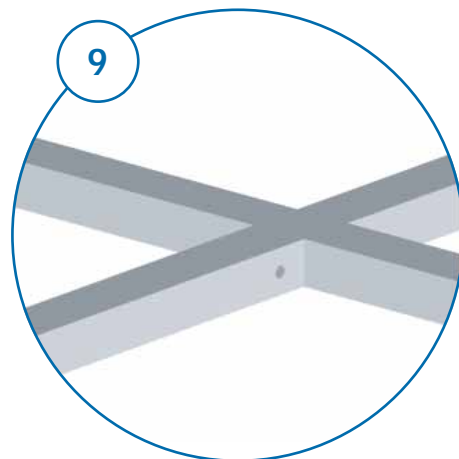


Remove the positioning mould and reuse it for other joints.

NOTE: to use this system, you must cut the crosspieces perfectly perpendicular to their length.



Complete the frame by inserting the joints inside the crosspieces. Make sure that the crosspieces are in good contact with the joints.



Finally block the crosspieces with self-drilling screws as in the figure. To quicken this operation, it is useful to make a pilot hole before inserting the screws.

## ■ Installation of the planks

Proceed with the installation of the planks as described in paragraph "Laying method 2".

## ■ Height of the elevated system

The total height of the flooring system is obtained by adding the height of selected laying method to the additional height given by the supports. In practice, the following combinations are possible:

	<i>Support height</i>	<i>Height of the finished surface Coplanar frame</i>	<i>Finished floor height Superimposed frame</i>
<b>MM022</b>	<i>22-30 mm</i>	<i>89-97 mm</i>	<i>119-127 mm</i>
<b>MM028</b>	<i>28-37 mm</i>	<i>95-104 mm</i>	<i>125-134 mm</i>
<b>MM035</b>	<i>35-50 mm</i>	<i>102-117 mm</i>	<i>132-147 mm</i>
<b>MM050</b>	<i>50-75 mm</i>	<i>117-142 mm</i>	<i>147-172 mm</i>
<b>MM075</b>	<i>75-120 mm</i>	<i>142-187 mm</i>	<i>172-217 mm</i>
<b>MM0115</b>	<i>115-220 mm</i>	<i>182-287 mm</i>	<i>212-317 mm</i>

Extensions code P-04 can be applied to the MM0115 support, up to a maximum of 4 extensions. Each extension applied increases the height of the system by 100 mm.

*For example:*

System composed of: MM0115 with superimposed frame + 2 extensions

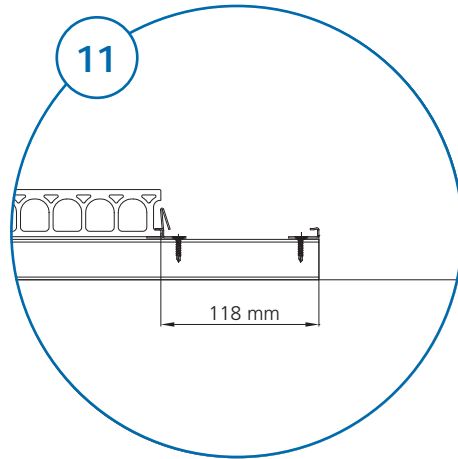
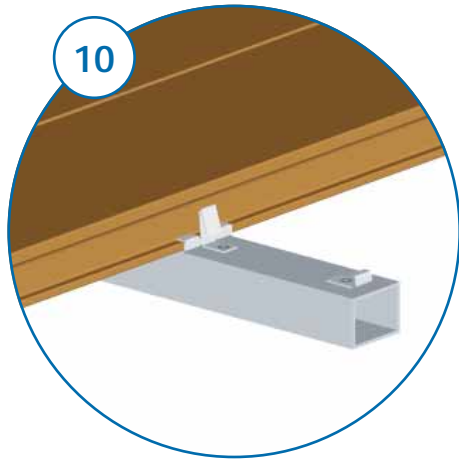
Finished floor height = (212-317 mm) + (2x100 mm) = 412-517 mm (minimum height 412 mm, maximum height 517 mm)

## [ Edges ]

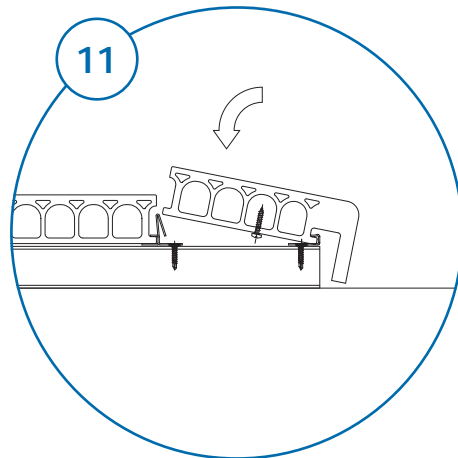
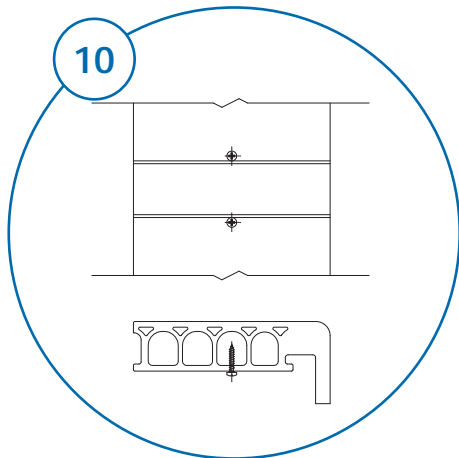
### Installing the finishing edge

#### ■ Installation with stainless steel clip

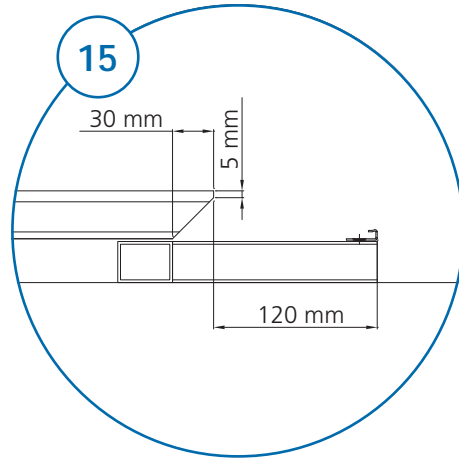
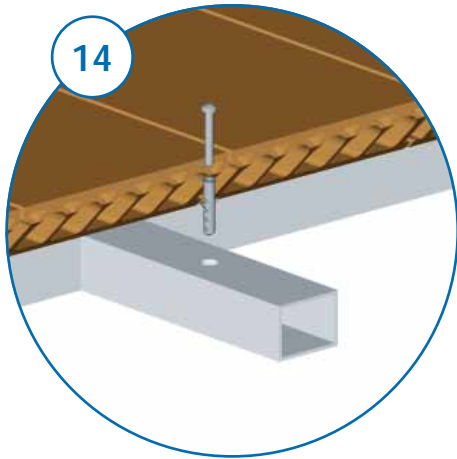
Install the angular profile DT13858 to make the side closures of the flooring.



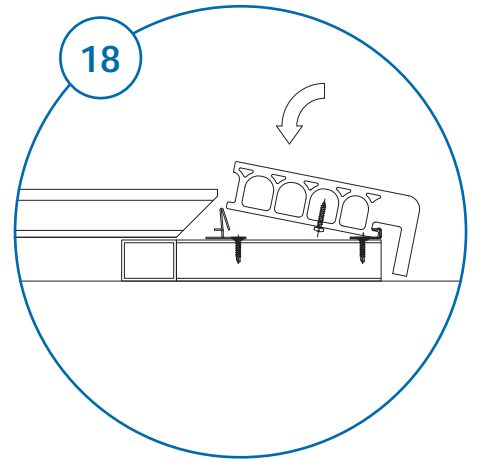
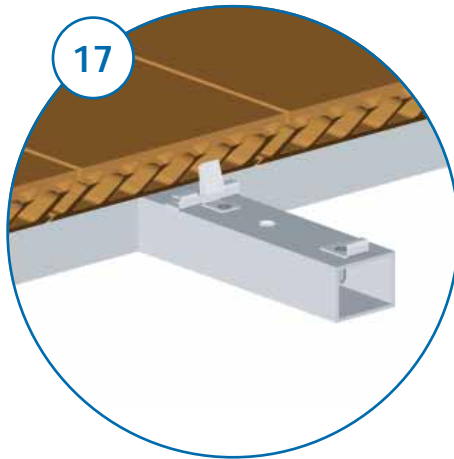
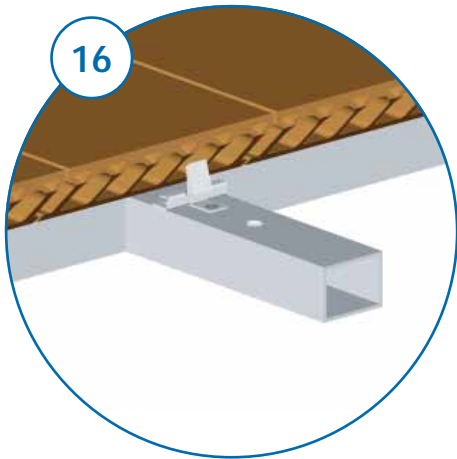
At the long end of the planks, install the clip KKDT13835\_4029 as shown in the figure.



Then create the FIXED POINT on the finishing profile by fixing two screws at the location of one of the support planks (the head of the screws should prevent horizontal movement of the profile). Then install the finishing profile by inserting the clip and turning it as shown.



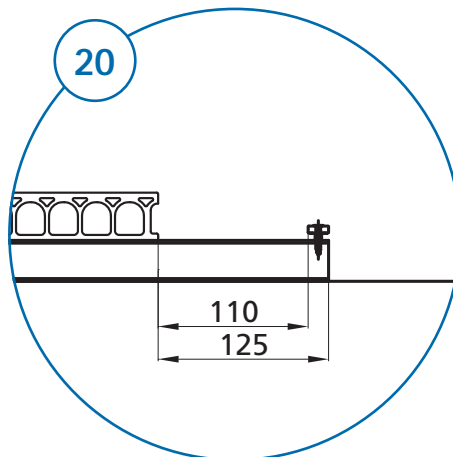
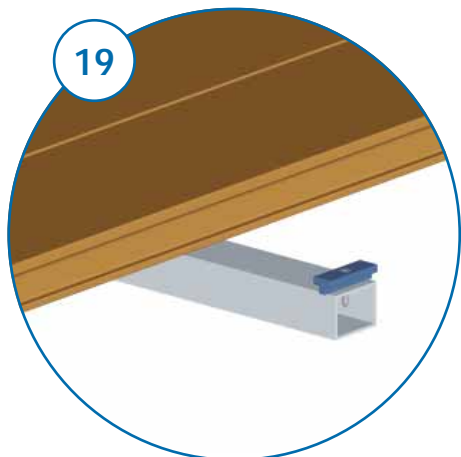
On the short side of the planks, create the substructure support for the finishing profile (in this case, the center-to-center distance between the support frame sections should be at most 65 cm). On this side, the planks must be cut as indicated in the figure to allow the application of the fixing clip.



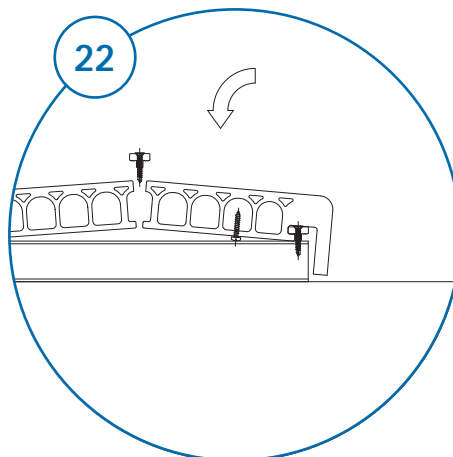
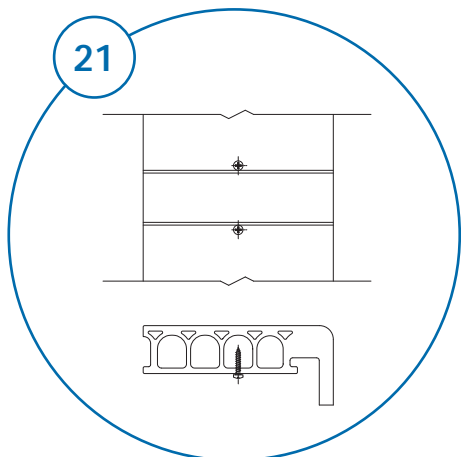
Then apply the finishing edges as on the long side of the planks, remembering to make the FIXED POINT on finishing profile.

## Installation with nylon clip

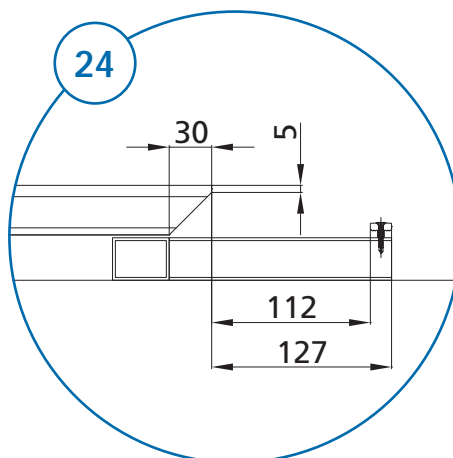
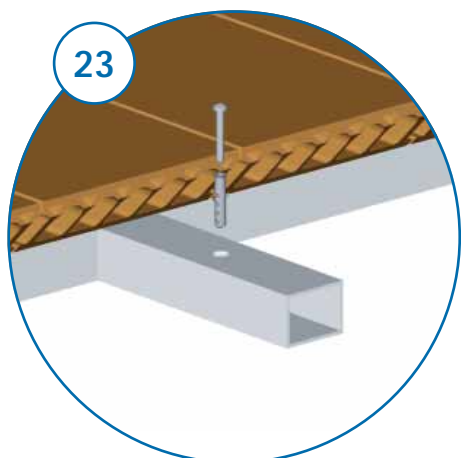
Install the angular profile DT13858 to make the side closures of the flooring.



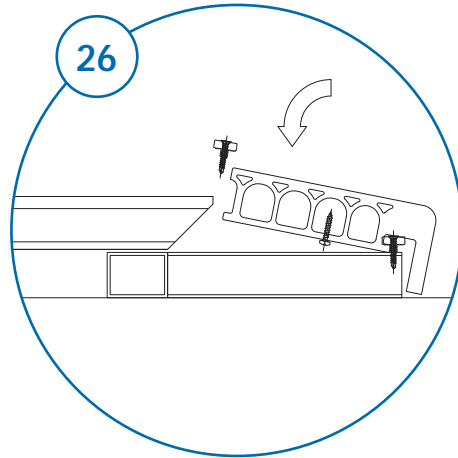
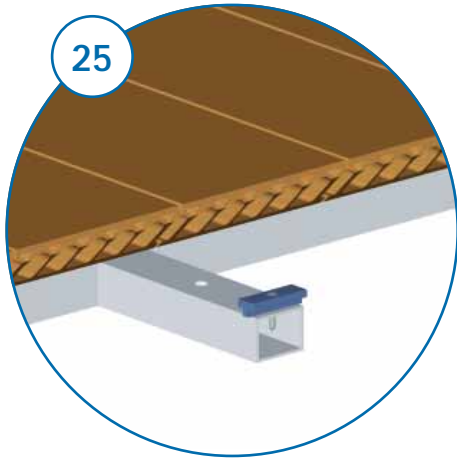
At the long end of the planks, install the clip DT13835\_ST as shown in the figure.



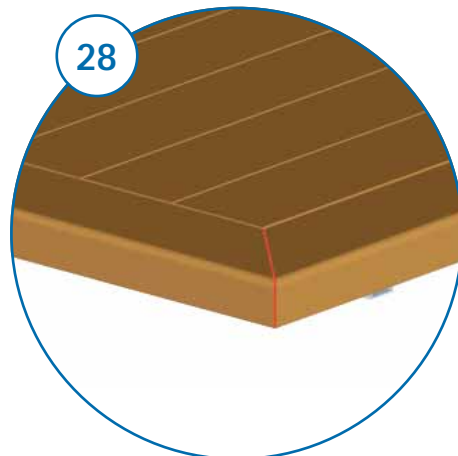
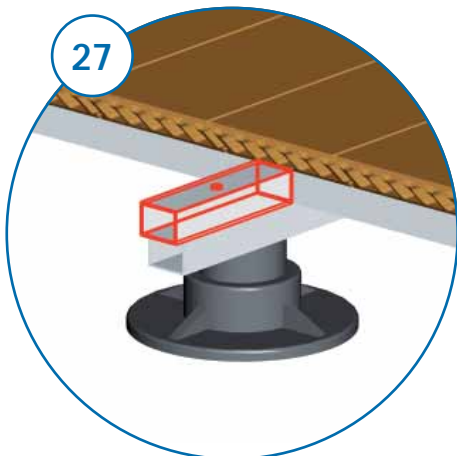
Then create the FIXED POINT on the finishing profile by fixing two screws at the location of one of the support planks (the head of the screws should prevent horizontal movement of the profile). Then install the finishing profile, turning it as shown and attaching it with the clip WADT13835\_ST.



On the short side of the planks, create the substructure support for the finishing profile (in this case, the center-to-center distance between the support frame sections should be at most 65 cm). On this side, the planks must be cut as indicated in the figure to allow the application of the fixing clip.



Then apply the finishing edges as on the long side of the planks, remembering to make the **FIXED POINT** on the finishing profile.



In the case of installation with an elevated frame, use the crosspieces as a support for the fitting structure of the finishing profile.

At the corners it is possible to miter cut the profile; in this case we recommend that you make the **FIXED POINT** as close as possible to the corner and to match the adjacent sides of the two frame sections.

## [ *Treatment and maintenance* ]

To keep the colouring of the profiles as unchanged as possible over time it is recommended to treat the surface with UV oiling and renew this treatment as needed (follow manufacturer's instructions).

Among the products on the market we suggest the following:

- **TOVER Oil 4 Sun**
- **SLC KERAKOLL Oildeck HPX**

## [ *Cleaning* ]

It is recommended to periodically clean as necessary with a vacuum cleaner or damp cloth and by washing with water or neutral detergent.

In the case of staining of the profile, we recommend that you remove the stain as soon as possible using water and a neutral detergent (avoid using abrasive cleaners or solvents, particularly acetone, alcohol, bleach).

Below is a table with the most common types of stain and their respective remedies:

<i>Type of stain</i>	<i>Solution to adopt</i>
Rust	<i>Rub the stain with neutral detergent. Rinse thoroughly.</i>
Grease - oil	<i>Rub the stain with neutral detergent. Rinse thoroughly.</i>
Coffee	<i>Rub the stain with neutral detergent. Rinse thoroughly.</i>
Tea	<i>Rub the stain with diluted bleach. Rinse thoroughly.</i>
Soft drinks (eg. Coca Cola)	<i>Rub the stain with neutral detergent. Rinse thoroughly.</i>



<i>Type of stain</i>	<i>Solution to adopt</i>
Alcoholic drinks	<i>Rub the stain with neutral detergent. Rinse thoroughly.</i>
Red wine	<i>Rub the stain with neutral detergent. Rinse thoroughly.</i>
Fruit juice	<i>Rub the stain with neutral detergent. Rinse thoroughly.</i>
Ink	<i>Rub the stain with diluted bleach. Rinse thoroughly.</i>
Burn (eg. cigarette)	<i>Scuff lightly with fine sandpaper (or with steel brush) in the direction of the brushing (*).</i>
Organic solvent	<i>Scuff lightly with fine sandpaper (or with steel brush) in the direction of the brushing (*).</i>
Paint	<i>Remove the excess paint with the blade of the cutter and then scuff lightly with fine sandpaper (or with steel brush) in the direction of the brushing (*).</i>
Silicone	<i>Remove the excess silicone with the blade of the cutter then scuff lightly with fine sandpaper (or with steel brush) in the direction of the brushing (*).</i>
Glue	<i>Remove the excess glue with the blade of the cutter then scuff lightly with fine sandpaper (or with steel brush) in the direction of the brushing (*).</i>
Candle wax	<i>Remove the excess wax with the blade of the cutter then scuff lightly with fine sandpaper (or with steel brush) in the direction of the brushing (*).</i>
Shoes smears	<i>Wipe with diluted bleach and rinse thoroughly. To remove any scratches you may scuff lightly with fine sandpaper (or with steel brush) in the direction of the brushing. To remove any residual rubber that have ended up inside the brushed surface, use a sharp knife (*).</i>
Mortar	<i>If the mortar has not yet taken hold, wash with water and rinse thoroughly.  If the mortar is dry, gently remove the excess mortar; then abrade with a steel brush in the direction of the brushing (*).</i>

(\* Only for sanded or brushed finishes.

*For optimum results we recommend attempting to remove the stain as soon as possible.  
After removing the stain it is advisable to restore the surface treatment not only on the treated part but over the entire plank so that the colour is uniform.*

[ *Individual elements* ]

• *Frame sections and accessories* •

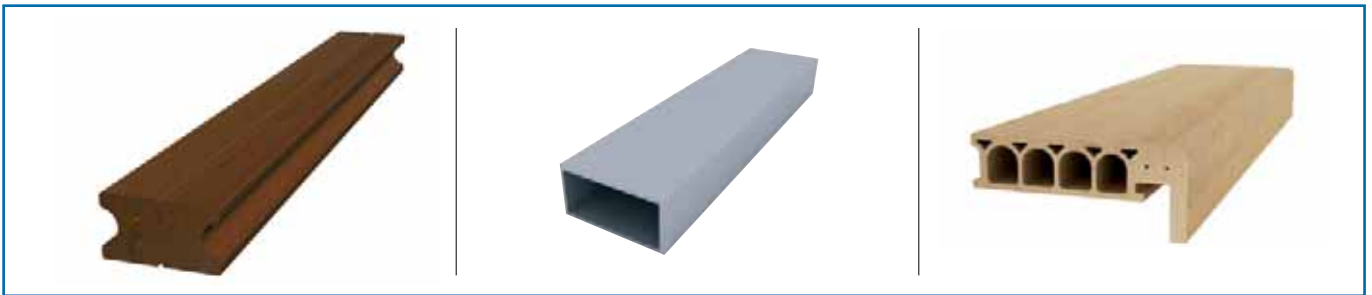
Woodn aeternus - DT13835



Joists- DT4022

Joists and crosspieces - WADT4030

Finishing profile - DT13858 and DT13858\_SB



Clip INOX  
KKDT13835\_4024

Clip INOX  
KKDT13835\_2314

Clip INOX  
KKDT13835\_4013

Clip  
WADT13835\_ST

Clip  
KKDT13835\_4029



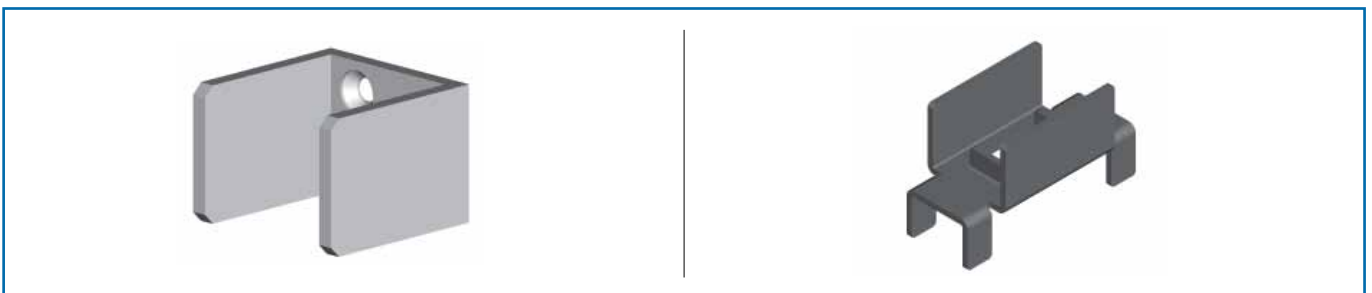
Stainless angle plate - WADT13835\_5030

Elevated supports - MM022/MM028/MM035/MM050/MM075/MM115



Coplanar frame coupling - WADT13835\_U3525

Mould for positioning joints - WADT13835\_10046



## [ *Technical specifications* | Woodn aeternus ]

*Profile in composite material for flooring, decking, pedestrian drain grating, horizontal and vertical coverings, can be used outdoors or indoors.  
Section with external dimensions 138x35mm and length 2.5m.*

*Made from natural and recycled plant materials and joined with thermoplastic polymer in a homogeneous extruded compound, through a technologically advanced production process, without the use of harmful volatile substances.  
Self-extinguishing material. Colouration and grain in pulp, available in different colours.*

*Highly resistant and durable, dimensions are stable in the presence of moisture, thermoformable, drillable, can be sawed, sanded and brushed, formaldehyde-free, contains no solvents and heavy metals; not affected by termites and pests, free from present or latent cracking and chipping.*



The product can contribute to satisfying LEED credits.

**MRc 4**  
*Recycled content*

**MRc 6**  
*Rapidly renewable materials*