

**2014**

Life goes on outside  
megawood is outside.

# CON- STRUCTION MANUAL



# YOUR NEW TERRACE

Experiencing and learning from nature with megawood®. This way, a special material is created whose colours are inspired by nature.

## Welcome to megawood®

Thank you for choosing megawood®!  
We thank you for your trust and hope you will enjoy these high-quality and unique products. Please follow the instructions in this construction manual and use only original megawood® accessories for the barefoot boards as well as for the visual protection walls. All illustrations in this construction manual are exemplary representations for set-up. If you have further technical questions we recommend discussing them with a competent specialist near you.

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# COLOURS



SLATE GREY

Elegant – timeless. Our colour hue slate grey is a convincingly extravagant highlight for modern architecture.




BASALT GREY

Modern – variable. Our colour hue basalt grey is a classy supplement for many different styles in the exterior area of your home.



LAVA BROWN

Warm – attractive. Our colour hue lava brown conveys lively warmth for stylish design of your terrace.



NUT BROWN

Classical – sophisticated. Our colour hue nut brown emphasizes the harmonious design of your terrace and focuses on what is essential.



NATURE BROWN

Friendly – bright. Our colour hue nature brown blends in optimally and very naturally with the sun-blessed design of your garden.

The colours and surfaces shown may differ from the original products due to printing-related issues.

## COLOUR OVERVIEW

	NUT BROWN	NATURE BROWN	LAVA BROWN	BASALT GREY	SLATE GREY	NATURE BROWN NUT MARBLED
PRODUCT RANGE						
PREMIUM PLUS			●		●	
PREMIUM	●	●		●		
CLASSIC PLUS			●		●	
CLASSIC	●	●		●		
WAVE	●			●		
CONSTRUCTION PLANK	●	●	●	●	●	
STANDARD VISUAL PROTECTION	●	●				
COMPACT FIX VISUAL PROTECTION				●*		●*

\* Colours for the visual protection COMPACT FIX appear darker because the surface is not brushed.

# COLOUR MATURITY

## Colour variety and colour maturing

The varied colour programme of megawood® barefoot boards is oriented towards natural colour hues and therefore blends harmoniously into the individual conditions of your garden. Use your new terrace to emphasize the features of your environment and enjoy a megawood® product that becomes more beautiful over time. megawood® barefoot boards are made of up to 75% natural fibres. Minimal colour differences and hues are intentional and underscore the natural appearance of wood. The product will change in its colour effects and, depending on direct sunlight, will receive its permanent natural colouring after a few months. The process takes longer for terraces that are roofed.

NUT BROWN	NATURE BROWN	LAVA BROWN	BASALT GREY	SLATE GREY	
					After installation
					After 1 -2 months*
					After 4 -6 months*

\* Exemplary illustrations of natural colour maturing after installation.

## Protection from stains

The new megawood® indoor protect is the first product we have developed that allows true application of megawood® barefoot boards indoors (e.g. winter gardens). Dirt, e.g. fat, jam etc. are not a problem on an outdoor megawood® terrace, because natural weathering due to the change of sunlight (UV light) and watering (rain) breaks up organic compounds and stains will therefore disappear within a few days or weeks. Unfortunately, this natural weathering effect is not available inside buildings, so that other methods must be found.

Using this new impregnation, your terrace boards inside will be protected better against staining. We recommend impregnation before you use your terrace for the first time. Please note that impregnation must be renewed as required.



## General cleaning and care information

When installed with the recommended sloping, the wood-polymer material surfaces of the megawood® barefoot boards have the advantage of low maintenance. However, they should be cleaned from time to time because the environment and use always leave traces. With increased weathering, the tendency for visible absorption of dirt is reduced; a natural patina is created. As a rule, cleaning agents should not be used for normal cleaning. Always use a dry broom first to remove dirt. If this is not sufficient, use clear water (garden hose) for soaking and then wash off with a brush. If more thorough cleaning is necessary, use a high-pressure cleaner. Ensure that the pressure is low and that the distance between jet and terrace is sufficient; select a moderate temperature. Stains from particulate dust such as soot or metal dust, or paint and varnish stains should be absolutely avoided.



## Cleaning emulsion for megawood® barefoot boards

megaclean is a highly effective, biologically degradable concentrate with emulsifying effect. The water-soluble de-greasing product with very fast deep effect removes grease, oil, ink, coal, kerosene, soot and other stubborn dirt. Use megaclean only at a temperature of more than 15°C. If cleaning efforts with water and megaclean are not successful, stubborn stains may also be removed with a brass brush. Since the boards are solid-coloured, the treated spot may be somewhat lighter in the beginning. Within a few weeks its colour will blend in with the rest of the surface.

## Water stains

On partially roofed terraces, water stains may form in the transition area roofing / free surface. Rain water is washed over the surface up to the roofing and dries out later. This way, dust particles briefly get wet; when they dry they remain on the surface. On the free surface that is permanently exposed to sun and rain this effect is rather minimal and construction-related. This effect does not have a negative effect on quality and constitutes no reason for complaint. Generally, these water stains can be removed with water and generic cleaning tools. The effect is reduced over time, but cannot be completely avoided.

## Natural fibre inclusions (bast fibre)

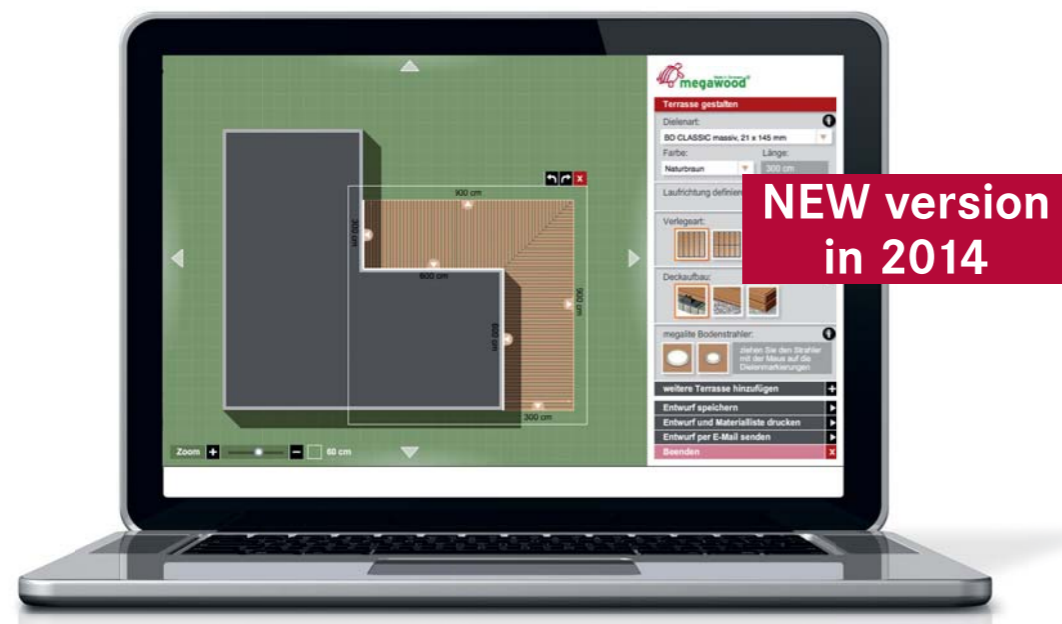
megawood® is made of up to 75% natural fibres. These are subjected to a special procedure, dried and added to the production process in a closed system. Due to the raw material, inclusions of other natural fibres, e.g. bast fibre (which is the transit layer between bark and wood) may occur. After weathering, these particles may appear on the surface due to water absorption.

At maximum, 0.03% of the surface should be affected. The particle size must not exceed 0.5 cm<sup>2</sup>. When the terrace is used (abrasion), these particles will for the most part disappear over time. They may also be mechanically removed. The product is not damaged this way.

Following the EPLF (European Producers of Laminate Flooring), the assessment is based on particles that are visible at the eye level of a standing person and with a vertical light source.

# TERRACE PLANNER

# PRINCIPLES FOR PLANNING



[www.megawood.com/en/terrace-planner](http://www.megawood.com/en/terrace-planner)

Using the megawood terrace planner, your dream terrace can be planned easily and fast online.

## The first good plan

A perfectly planned terrace requires extensive information. Using the megawood® terrace planner, you can save, print or email a precise plan of your terrace project and use this as a basis for detailed consultation from your specialized wood retailer.

### GOOD PLANNING

First realization of your terrace ideas for advice from an expert adviser

### GOOD ADVICE

Direct contact to an expert adviser near you

### GOOD INSTALLATION

Installation in a video, for optimal step-by-step installation of your terrace

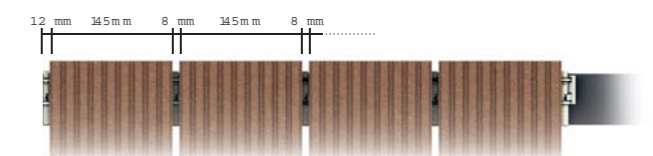
You start by representing the layout of your home and of other relevant structures. The second step is to place your megawood® dream terrace on your home and decide for the type of megawood® boards and the colour and specify the desired installation type and deck structure. This way, various ideas for your dream terrace can be visualized fast and easily. With only a few moves, you can now generate a complete material list for your new megawood® terrace. The drafts are the basis for further consultation with you specialized wood retailer and are used for cost calculation.

The integrated dealer search on our web site helps you to find a provider near you comfortably and easily. Enjoy successful planning!

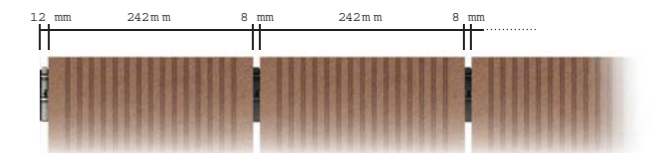
## Planning and processing of megawood®

- According to the principles of constructive wood protection we recommend that boards should always be installed with sufficient sloping so that water is moved safely away from the house. Observing this, you can avoid water stains and dammed-up water as well as further damage to the building.
- Ensure that the **surface below** is firm, solid and frost-safe. Caution! Avoid dammed-up water!
- Avoid **contact** of the megawood® barefoot boards and of the construction planks with the ground! The megawood® construction plank is an exception.
- Do not fill out **hollow spaces** between substructure and bed plates, so that exchange between warm and cold air is not prevented. Maintaining specified distances will ensure sufficient **ventilation from below** and water is not dammed-up.
- Ensure that **drainage is sufficiently dimensioned**. Avoid dammed-up water and ensure full drainage even in case of torrential rain.
- Keep a **minimum distance of 2 cm to fixed components** (e.g. house wall).
- Maintain the specified **distances of the construction planks**.
- Maintain the specified **minimum distances of the expansion joints** so that the structure may expand without resistance if necessary.
- As a rule, **pre-drill** all holes.
- Observe **installation direction** as indicated by the printed arrow on the packaging label and in the board joint.
- megawood® is a natural material. **Deviations in colour** and different hues are a natural result. In addition, they emphasize the natural appearance of wood. Therefore the boards should be mixed before they are installed.
- The **maximum board distance** above the substructure is 5 cm.
- All cutting edges of the barefoot boards should be bevelled (ca. 3 × 3 mm).
- Do **not twist, belt down** or force megawood® barefoot boards.
- All installation variants are based on the megawood® construction manual, because in case of deviations and defects caused as a result are not subject to **warranty**.
- Applications that require approval by the construction authorities must be set up on a sufficiently dimensioned, stable and fall-through proof construction plank as support for megawood® barefoot boards or on construction planks.
- Production-related measuring **tolerances** for length, width and thickness must be taken into account for installation.
- When **calculating the number of boards**, please use the following rule of thumb: From the edge of the construction plank you need 12 mm distance to the first board, then add 153 mm per board to account for the joints (for 145 mm boards) and 250 mm (for 242 mm boards).

Dimensioning of the terrace deck for a board width of 145 mm.



Dimensioning of the terrace deck for a board width of 242 mm (Jumbo).



When using a smooth-edged board, the width increases by 17 mm.

## Installation direction

To achieve a homogenous surface effect, install all boards in the same installation direction. This is indicated by an arrow in every board joint and on the packaging label. This way you will prevent the so-called "lawnmower effect".



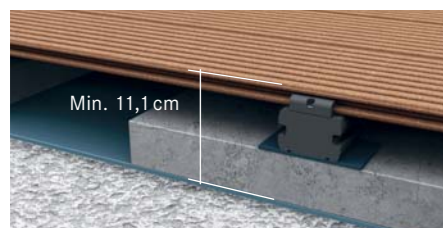
# INSTALLATION TYPES



## Installation onto an old terrace surface

Fastening of the substructure with old surface: Mount the construction plank onto levelling / bed plates or rubber pads (total structure at least 20 mm) and bolt it. Do not directly install on the old surface so as to ensure water drainage.

**IMPORTANT** *Set-up is only possible if the old surface is sufficiently drained with 2% sloping. Prevent dammed-up water. Ensure sufficient ventilation from below.*



## Installation on roof terraces

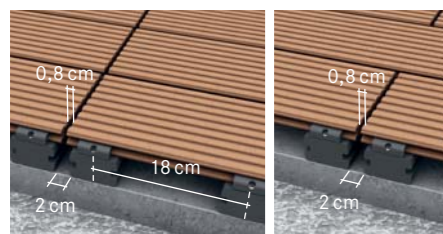
Install concrete plate on the existing building protection mat: Bolt construction planks to bed plates or rubber pads (at least 3 mm) onto concrete plate 400 × 400 × 50 mm. Ensure that drainage is sufficiently dimensioned so as to ensure complete water drainage.

**IMPORTANT** *Coordinate the type of the structure with an architect or a specialized company. Ensure sufficient ventilation from below. We recommended lining the roof terrace with a gravel bed (grain size 32 to 64 mm), which will ensure the required ventilation.*



### Hint:

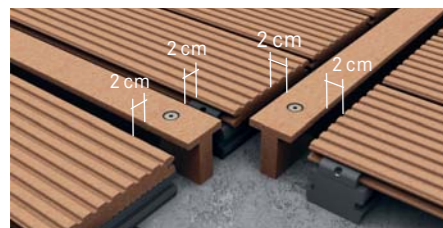
The megawood® range of boards is supplied in the lengths of 300 / 360 / 420 / 480 / 540 / 600 cm (exception WAVE board, cf. page 31). Terrace objects that are planned with larger lengths may be realized with installation in rows or in block strip.



## Installation in rows and block strip

Flush installation of the barefoot board (illustration on the left, in rows) and offset installation (illustration on the right, block strip) up to a terrace surface of 12 × 12 m. At the ends of the boards, a distance of 2 cm must be set between the construction planks! Bolt the construction planks to the concrete plate and install retaining bands. The ends of the boards must have a minimum distance of 8 mm.

**IMPORTANT** *For installation in rows, the construction planks must be installed double at a distance of 18 cm (between the axes).*



## Installation of surfaces larger than 12 × 12 m

Bolt construction joint profile to the concrete plate in longitudinal and lateral direction of the barefoot boards.

**IMPORTANT** *Keep a distance of at least 2 cm on both sides between barefoot boards, construction planks and construction joint profile!*



## INSTALLATION TYPES WITH SUBSTRUCTURE FIX STEP SYSTEM NEW

All the above installation types can also be realized with the new substructure system megawood® FIX STEP. For this, follow the instructions on pages 12 to 18.

# CONSTRUCTION PLANK

## Flexible in use

The CONSTRUCTION PLANK by megawood® has many talents. It can be used as sub-structure but it also suitable for stairs and benches. The megawood® CONSTRUCTION PLANK is even suitable as planking for smaller bridges. The extremely high bearing capacity of the megawood® CONSTRUCTION PLANK makes it a flexible feature and opens up new application areas where other products find their limits. The megawood® CONSTRUCTION PLANK is available in nature brown, nut brown, lava brown, basalt grey and slate grey.

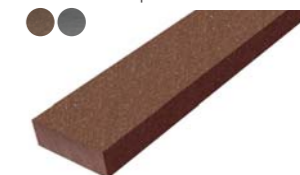
### CONSTRUCTION PLANK

40 × 112 mm | L: 360 cm

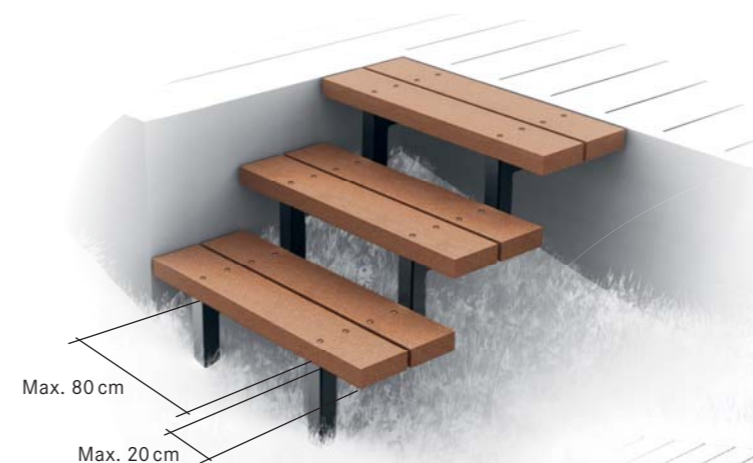


### CONSTRUCTION PLANK PREMIUM PLUS NEW

40 × 112 mm | L: 360 cm



**Small bridge** Even in a highly used area such as bridge construction, the megawood® CONSTRUCTION PLANK with a distance of up to 100 cm between axes and a projecting length of up to 20 cm can be used as bridge deck. Occasional contact with water is no problem for the megawood® CONSTRUCTION PLANK.



**Stairs** megawood® CONSTRUCTION PLANKS are the ideal cover for your terrace stairs. Due to the extremely high bearing capacity of the megawood® CONSTRUCTION PLANK, you can implement stair constructions with a distance of up to 80 cm between axes and a projecting length of up to 20 cm.



**Bench** The megawood® bench with continuous CONSTRUCTION PLANKS can be set up with a distance of up to 130 cm between axes and a projecting length of up to 25 cm. The seat and the rear support form an elegant unit that promises highest seating comfort. The bench is available as complete set in all five colour variants.

# FIX STEP SYSTEM

NEW

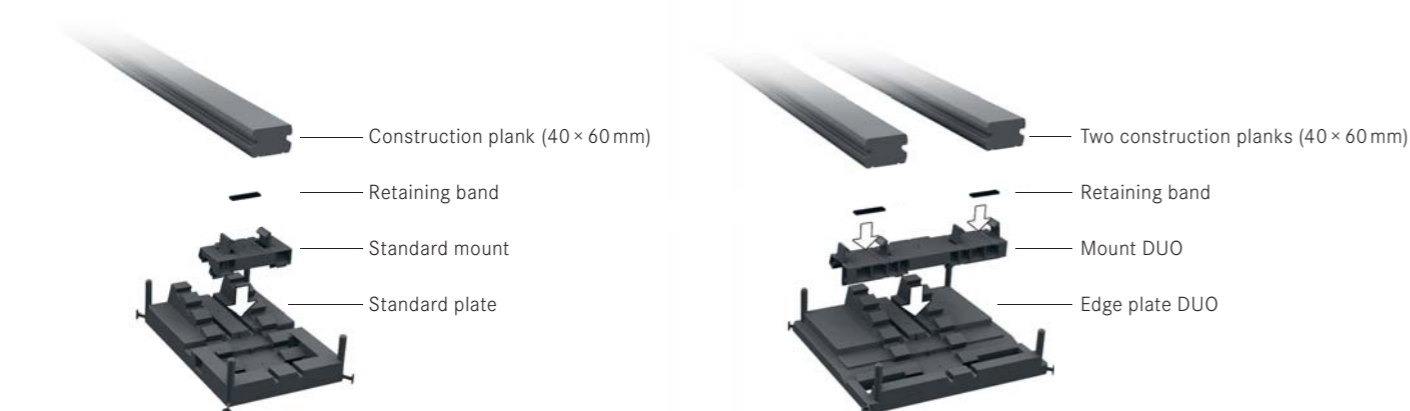
## FIX STEP system, – our flexible substructure

With the new FIX STEP system, we are the first manufacturer to offer you a continuous and elaborate system, from gravel bed to terrace board. The system stands out because of its simple handling and fast installation. Time-consuming work, e.g. pre-drilling into concrete, is a thing of the past. With the new megawood® FIX STEP system you are choosing fast and flexible

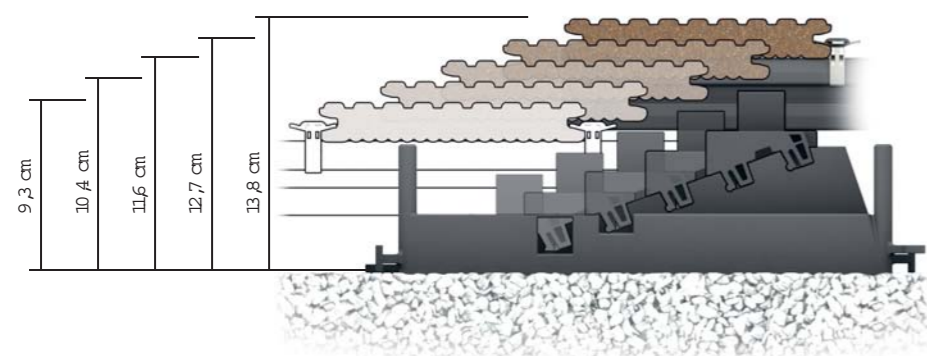
installation of your terrace surfaces. Special installation types, e.g. roof terraces can be very easily realized, due to the low weight of the system components and variable height adjustment. With this system, you can realize all installation types of your new terrace, from open deck to closed deck, and even special installation types such as roof terrace or installation on existing

terrace surfaces. For terrace projects that require a board length outside the length range offered by megawood® (more than 6 m), the installation type must be adjusted as necessary. The following installation types are available: Installation in rows and block strip.

## Regular installation FIX STEP system



## Total heights for regular installation



**Hint:**  
Regular installation of the FIX STEP system is to be used **only** for installation as open deck.

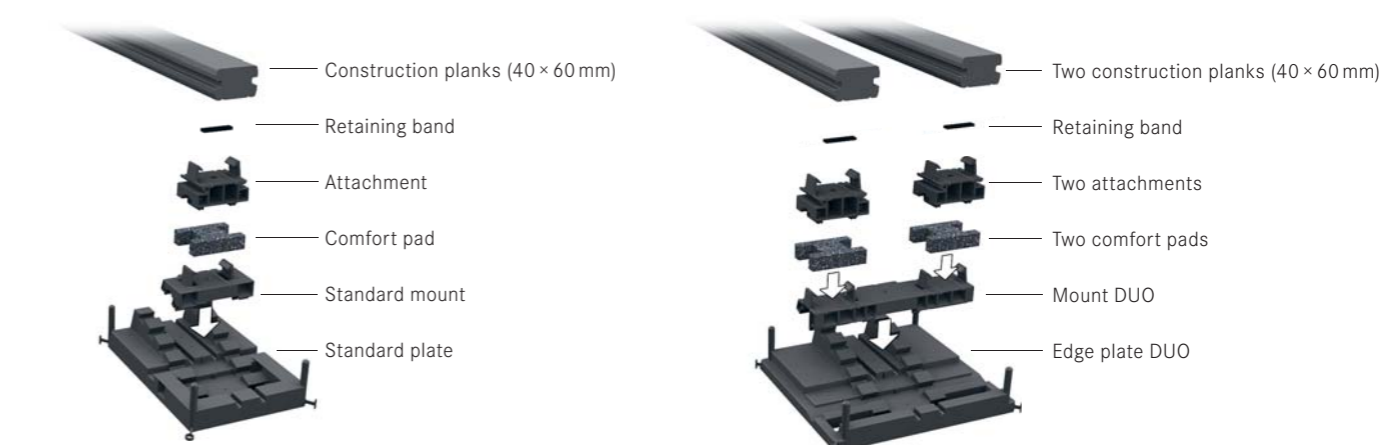
**Hint:**  
The boards can be fixed in place either with FIX STEP locking clamp or with standard locking clamps.

## Comfort deck – barefoot feeling in a new dimension!

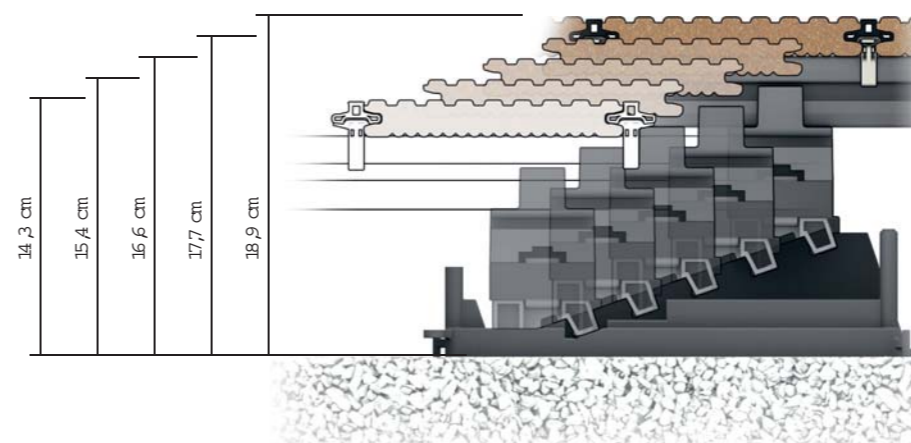
megawood® comfort deck is another innovation for the 2014 season. Using megawood® comfort pads, the megawood® FIX STEP system is the first megawood® comfort deck worldwide with step

dampening. This unique step comfort can only be achieved with elevated installation of the FIX STEP system.

## Elevated installation FIX STEP system



## Total heights for elevated installation



**Hint:**  
Elevated installation of the FIX STEP system is used for installation as open or closed deck.

# FIX STEP SYSTEM

## OPEN DECK

### Preliminary work

1. Prepare **base grade** exceeding the planned terrace surface by 50 cm on all sides with a sloping of 4% and install drainage in the ground.

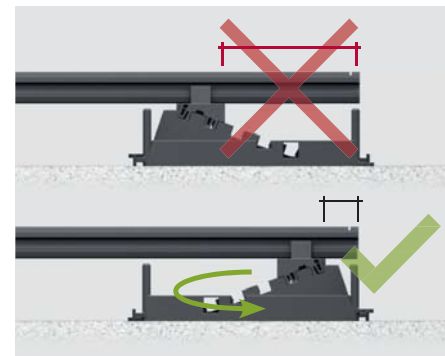
2. Make a stable **gravel or ballast bed** (frost-safe) with 2% sloping. Then cover with fine gravel to level uneven spots.

### Sub-structure

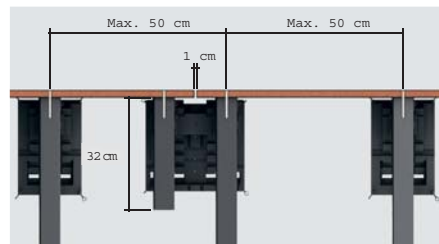
3. To begin, click the **FIX STEP mounts** at the **same height level** into all FIX STEP plates. Then stick a piece of retaining band onto the centre of each one.  
Optional: To increase the structure and to improve step dampening, click a **FIX STEP comfort pad** with the corresponding attachment into the mounts. Then stick a piece of retaining band onto the centre of the attachments.  
→ Cf. page 13

4. Place the **FIX STEP edge plates DUO** at a distance of 4 cm parallel to upright components and at an axis distance of max. 65 cm. Distribute **FIX STEP plates** parallel to these at an axis distance of 50 cm. At the end of the terrace, place **FIX STEP edge plates DUO** again.  
→ Cf. floor plan substructure

5. To minimize **protruding of the construction planks**, turn the FIX STEP plates.

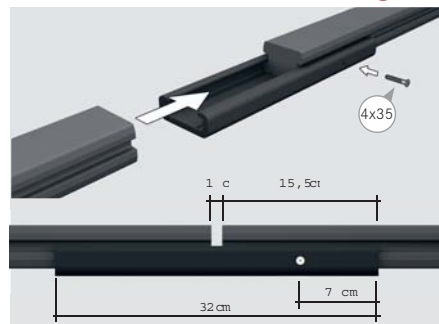


6. For a **terrace length of more than 360 cm**, a **FIX STEP edge plate** must be placed in the area of the end joint of the smooth-edged boards.

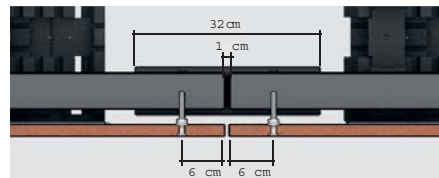


7. Click **construction plank (40 × 60 mm)** into the FIX STEP mounts with the **grooves** down.

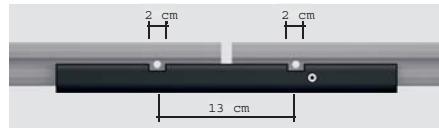
8. For a **terrace width of more than 360 cm**, the ends of the construction plank must always be offset to each other. To do so, connect the ends of the planks with a **FIX STEP connection clip** adjusted to 32 cm and screw on to one side. Maintain a distance of 1 cm between the construction planks. → Cf. floor plan substructure 8



9. For **free expansion**, the ends of the smooth-edged boards and of the construction planks must be positioned in the same place.



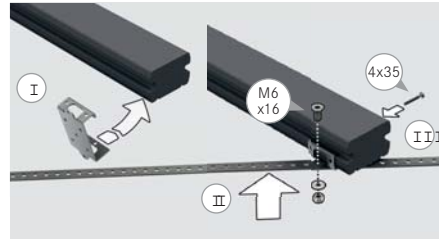
In addition, to ensure free expansion the **FIX STEP connection clip** must be left open 2 cm wide and 1 cm deep for subsequent installation of the smooth-edged board in the area of the screw connection.



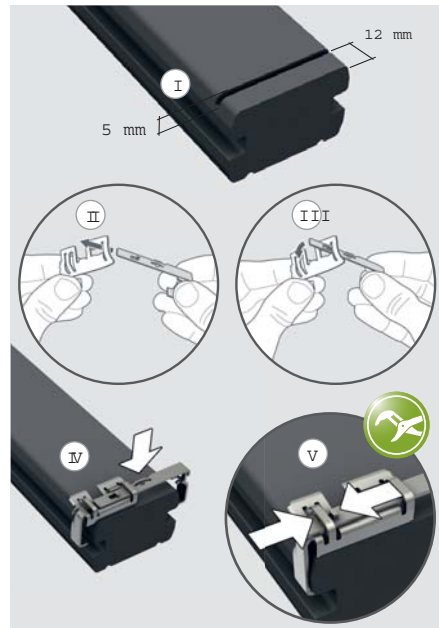
10. Then exactly **align** all construction planks on the side where installation of the boards begins.

11. After installing the construction planks, **check the position of the FIX STEP plates** and adjust them if necessary.

12. Place **perforated tape** below the construction planks and screw it onto all construction planks by means of the **FIX STEP connection clip**. The perforated tape is used for bracing the terrace. → Cf. 12



13. To attach the **FIX STEP edge clamps**, cut out the construction planks first only on the side from where the boards are to be installed, 12 cm away from the edge, 5 mm deep and 2 mm deep. → Cf. 13 After that, the two-part FIX STEP edge clamp is fitted into this groove and to the construction plank by means of pliers.



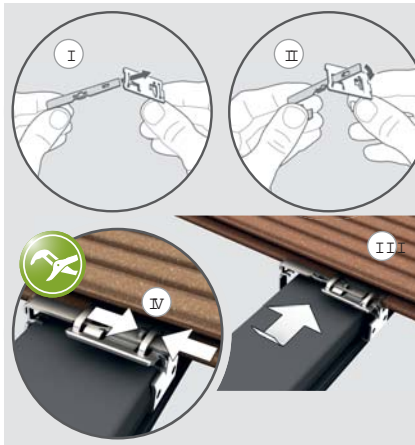
14. To prevent subsequent slipping of the boards, self-adhesive **retaining tape** must always be fastened to the construction plank that is closed to the centre of the boards. → Cf. 14

### Installation of the boards

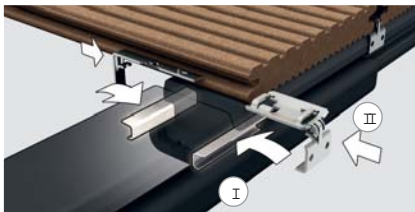
15. The first board is pressed into the positioned edge clamps. Keep a distance of 2 cm to upright, fixed components. When using the optional **house connection profile**, first insert the board, then position it. → Cf. 15



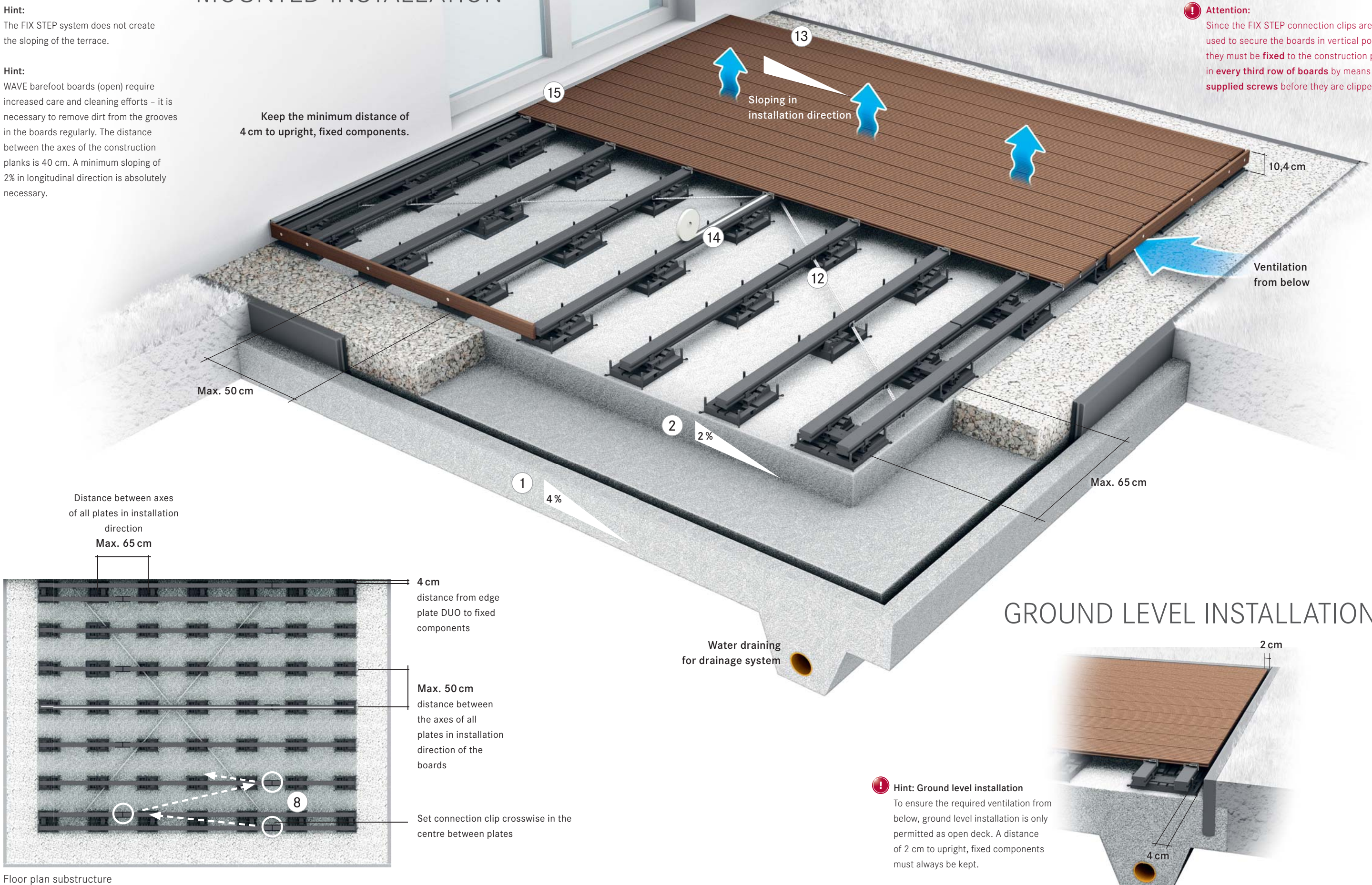
16. The connected **FIX STEP connection clips** are then set onto the each of the construction planks, pushed against the board and engaged by means of pliers.



17. If boards are to be fastened at a distance of about 10 mm to the ends of the construction planks, it is necessary to insert **groove bridges** before the connection clips are mounted.



## MOUNTED INSTALLATION

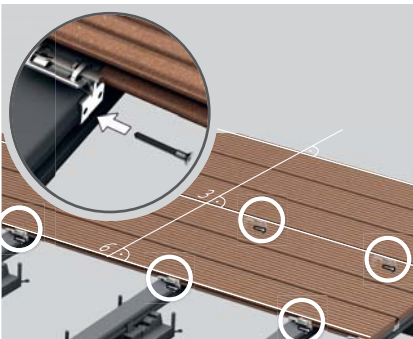


**Attention:** Since the **FIX STEP connection clips** are only used to secure the boards in vertical position, they must be **fixed** to the construction planks in **every third row of boards** by means of the **supplied screws** before they are clipped on.

18. For open decks, **cover caps** must be clipped onto edge and connection clips.



19. After installation of three rows of boards, the deck **should be measured** so that parallel installation is ensured.  
**Attention:** Since the **FIX STEP connection clips** are only used to secure the boards in vertical position, they must be **fixed** to the construction planks in **every third row of boards** by means of the **supplied screws** before they are clipped on. Repeat procedure until the last but one board is installed.

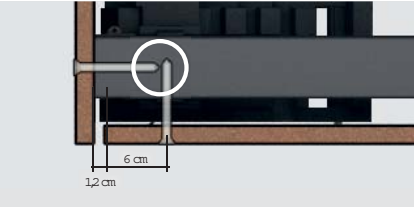


20. Then determine the length of the **construction planks** and saw them off to be flush.

21. Then **create the groove** for the edge clamp and finish installing the boards.  
→ Cf. installation step 13

22. Now **cut** the front end of the **boards** in the area of the **edge** to **length** with boards extending 1.5 cm over the construction planks and **bevel** the cutting edge.

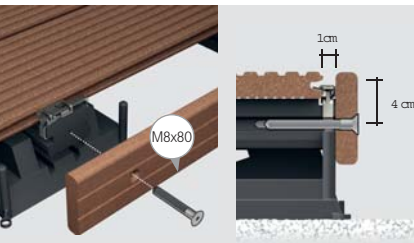
23. **Cut smooth-edged boards to length** parallel to the construction planks; the smooth-edged board on both ends of the terrace must be 1.2 cm shorter than the construction plank.



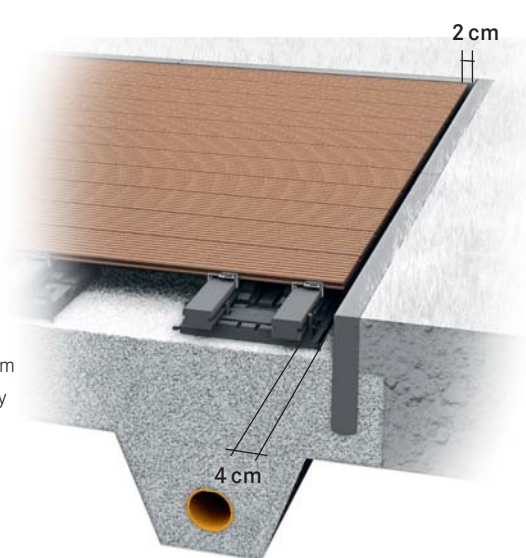
Hold on smooth-edged board and drill together with the construction plank using  $\varnothing 7$  mm drill holes. Keep the maximum distance of 6 cm to the ends and 50 cm between drill holes. Then re-drill smooth-edged boards with  $\varnothing 10$  mm, lower and attach by means of screw, washer and nut using a distancing groove of 1 cm to adjust to the terrace deck.



**Cut smooth-edged boards parallel to the substructure** and drill together with the construction plank with  $\varnothing 7$  mm. Re-drill smooth-edged boards with  $\varnothing 10$  mm and install them.



## GROUND LEVEL INSTALLATION



**Hint: Ground level installation**  
To ensure the required ventilation from below, ground level installation is only permitted as open deck. A distance of 2 cm to upright, fixed components must always be kept.

Floor plan substructure

# FIX STEP SYSTEM

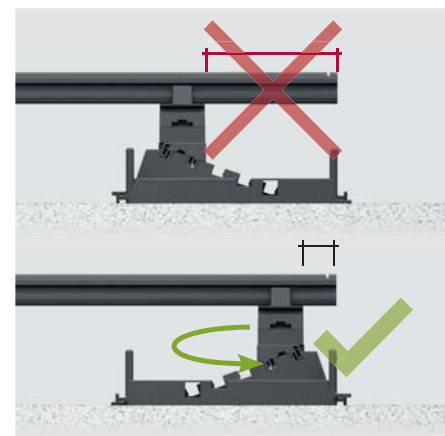
## CLOSED DECK

### Preliminary work

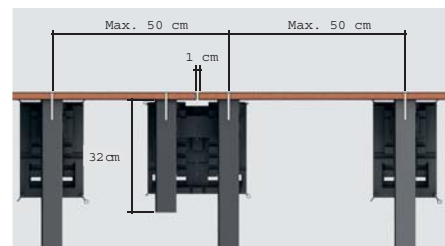
1. Prepare **base grade** exceeding the planned terrace surface by 50 cm on all sides with a sloping of 4% and install drainage in the ground.
2. Make a stable **gravel or ballast bed** (frost-safe) with 2% sloping. Then cover with fine gravel to level uneven spots.

### Sub-structure

3. To begin, click the **FIX STEP mounts** at the **same height level** into all FIX STEP plates. Then click the **FIX STEP comfort pads** with the matching attachment piece into them. Then stick a piece of retaining band onto the centre of the attachment pieces. → Cf. page 13
4. Place the **FIX STEP edge plates DUO** at a distance of 4 cm parallel to upright components and at an axis distance of max. 65 cm. Distribute **FIX STEP plates** parallel to these at an axis distance of 50 cm. At the end of the terrace, place **FIX STEP edge plates DUO** again. → Cf. floor plan substructure
5. To minimize **protruding of the construction planks**, turn the FIX STEP plates.

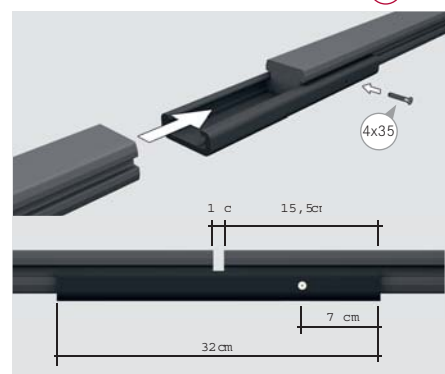


6. For a **terrace length of more than 360 cm**, a **FIX STEP edge plate** must be placed in the area of the end joint of the smooth-edged boards.

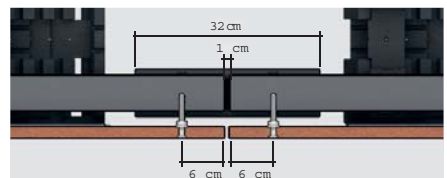


7. Click **construction plank (40 x 60 mm)** into the FIX STEP attachment pieces with the **grooves down**.

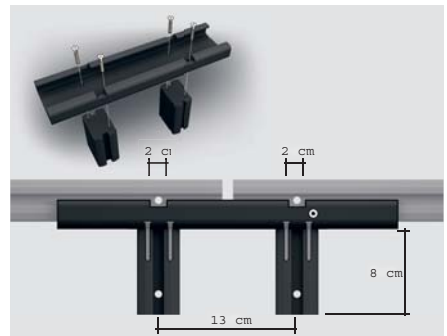
8. For a **terrace width of more than 360 cm**, the ends of the construction plank must always be offset to each other. To do so, connect the ends of the planks with a **FIX STEP connection clip** adjusted to 32 cm and screw on to one side. Maintain a distance of 1 cm between the construction planks. → Cf. floor plan substructure (8)



9. For **free expansion**, the ends of the smooth-edged boards and of the construction planks must be positioned in the same place.



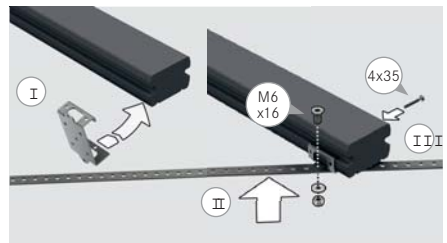
In addition, to ensure free expansion the FIX STEP connecting clip must be left open 2 cm wide and 1 cm deep for subsequent installation of the smooth-edged board in the area of the screw connection. For the two highest height settings of the FIX STEP mounts, a dual smooth-edged board can be used. To do so, mount construction plank pieces of 8 cm length to the connection clip with screws.



10. Then exactly **align** all construction planks on the side where installation of the boards begins.

11. After installing the construction planks, **check the position of the FIX STEP plates** and adjust them if necessary.

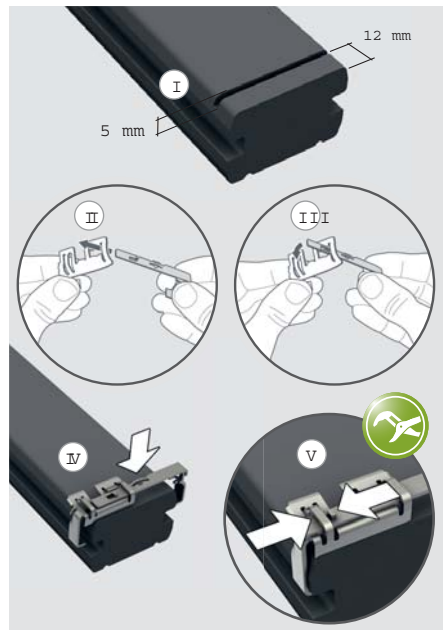
12. Place **perforated tape** below the construction planks and screw it onto all construction planks by means of the **FIX STEP connection clip**. The perforated tape is used for bracing the terrace. → Cf. (12)



13. To attach the **FIX STEP edge clamps**, cut out the construction planks first only on the side from where the boards are to be installed, 12 cm away from the edge, 5 mm deep and 2 mm deep.

After that, the two-part FIX STEP edge clamp is fitted into this groove and to the construction plank by means of pliers.

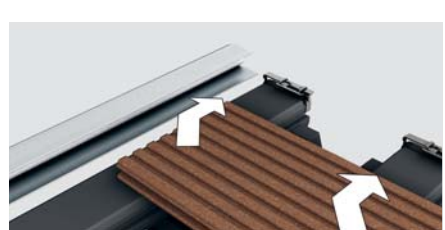
→ Cf. (13)



14. To prevent subsequent slipping of the boards, self-adhesive **retaining tape** must always be fastened to the construction plank that is closed to the centre of the boards. → Cf. (14)

### Installation of the boards

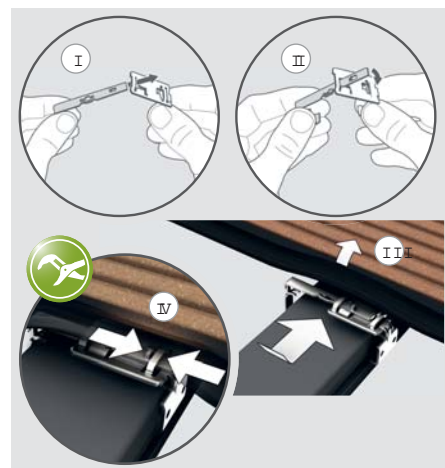
15. The first board is pressed into the positioned edge clamps. Keep a distance of 2 cm to upright, fixed components. When using the optional **house connection profile**, first insert the board, then position it. → Cf. (15)



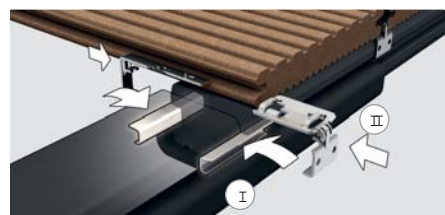
16. First, insert **groove strip** loosely into the board groove (do not stretch or tighten).



17. The connected **FIX STEP connection clips** are then set onto the each of the construction planks, pushed under the groove strip against the board and engaged by means of pliers.



18. If boards are to be fastened at a distance of about 10 mm to the ends of the construction planks, it is necessary to insert **groove bridges** before the connection clips are mounted.



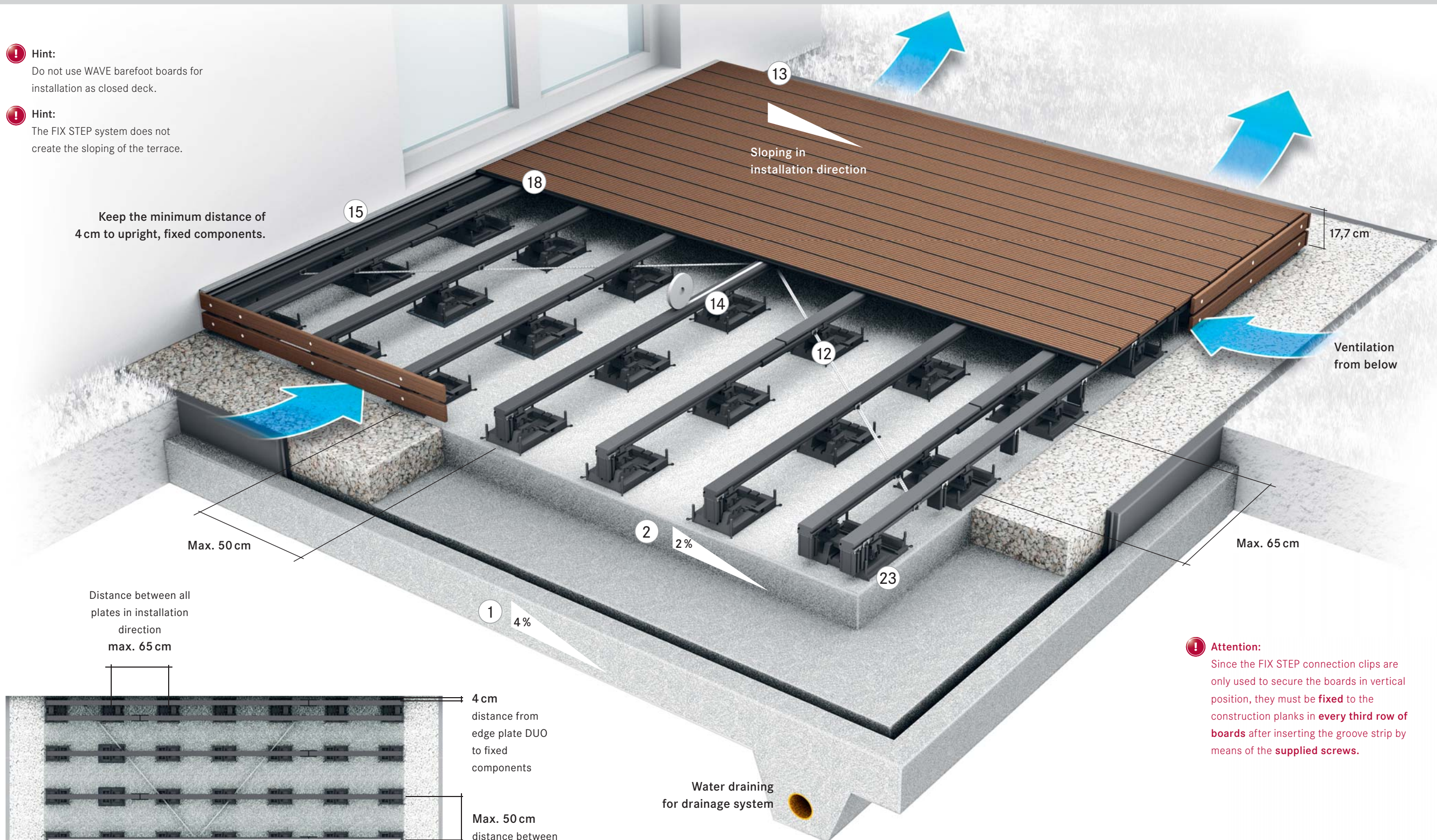
### Hint:

Do not use **WAVE** barefoot boards for installation as closed deck.

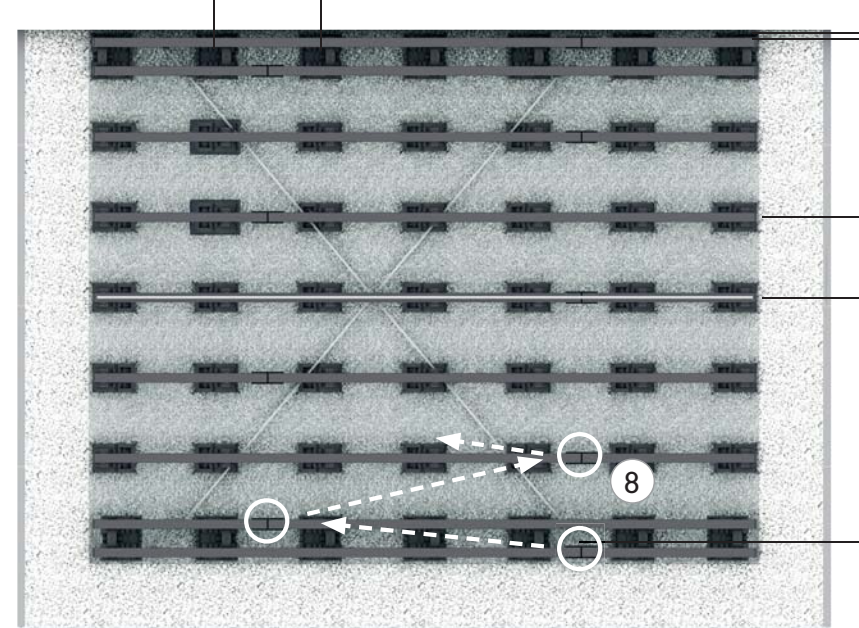
### Hint:

The FIX STEP system does not create the sloping of the terrace.

Keep the minimum distance of 4 cm to upright, fixed components.



Distance between all plates in installation direction **max. 65 cm**



Floor plan substructure

19. After installation of three rows of boards, the deck **should be measured** so that parallel installation is ensured. **Attention:** Since the FIX STEP connection clips are only used to secure the boards in vertical position, they must be **fixed** to the construction planks in **every third row of boards** after inserting the groove strip by means of the **supplied screws**. Repeat procedure until the last but one board is installed.

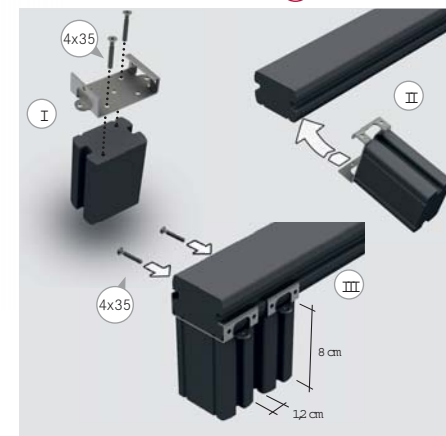


20. Then determine the length of the **construction planks** and saw them off to be flush.

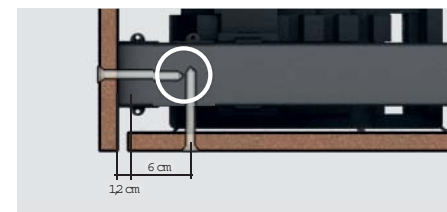
21. Then **create the groove** for the edge clamp and finish installing the boards. → Cf. installation step 13

22. Now cut the front end of the **boards** in the area of the edge **to length** with boards extending 1.5 cm over the construction planks and **bevel** the cutting edge.

23. When using a **dual smooth-edged board**, construction planks pieces of 8 cm must be screwed onto the construction plank with an assembly clip. In the corners of the terrace, dual assembly clips are required to install the smooth-edged plank to the longitudinal side and the front side. Also press in the FIX STEP smooth-edged edge plate DUO, so that the dual assembly clip can hang freely. → Cf. (23)

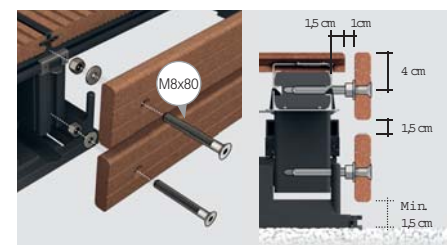


24. Keep the maximum distance of 6 cm to the ends and 50 cm between drill holes. Then re-drill **smooth-edged boards** with Ø 10 mm, lower and attach by means of screw, washer and nut using a distancing groove of 1 cm to adjust to the terrace deck.

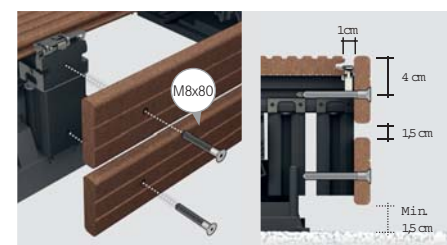


Hold on smooth-edged board and drill together with the construction plank using Ø 7 mm drill holes.

25. Cut smooth-edged boards **parallel to the substructure** and drill together with the construction plank with Ø 7 mm. Re-drill smooth-edged boards with Ø 10 mm and install them.



26. Cut smooth-edged boards **parallel to the substructure** and drill together with the construction plank with Ø 7 mm. Re-drill smooth-edged boards with Ø 10 mm and install them.



### Attention:

Since the FIX STEP connection clips are only used to secure the boards in vertical position, they must be **fixed** to the construction planks in **every third row of boards** after inserting the groove strip by means of the **supplied screws**.

# FIX STEP PRODUCT OVERVIEW



## Hint:

Our product range of board is shown on pages 30-31.

**FIX STEP edge plate DUO**  
280 × 260 × 71 mm



**FIX STEP standard plate**  
270 × 180 × 71 mm



**FIX STEP mount edge DUO**  
250 × 60 × 55 mm



**FIX STEP standard mount**  
116 × 60 × 55 mm



**FIX STEP attachment piece**  
79 × 58 × 63 mm



**FIX STEP comfort pad**  
79 × 58 × 20 mm



**FIX STEP groove bridge**  
55 × 8 × 10 mm



**FIX STEP assembly clip**  
78 × 40 × 20 mm, incl. screws



**FIX STEP edge clamp**  
2-pc



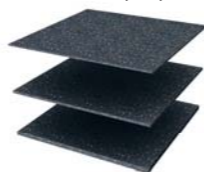
**FIX STEP locking clamp**  
incl. screw, 2-pc



**FIX STEP cover cap**  
73,5 × 15 × 6,7 mm



**FIX STEP rubber pad**  
300 × 300 mm  
thickness: 3 / 5 / 10 mm



**Construction plank**  
40 × 60 mm | L: 360 cm



**FIX STEP connecting clip**  
for construction plank  
28 × 76 mm | L: 360 cm



**FIX STEP groove strip**  
21 mm | L: 25 / 100 m  
(on roll)



**Fixing screw M8 × 80**  
for smooth-edged board,  
with nut and washer



**FIX STEP perforated tape**  
L: 10 m (on roll)



**Self-adhesive retaining band**  
L: 10 m (on roll)



**Set of screws**  
4 × 35 mm



**Bit set**  
Torx T20



**Fixing screw M6 × 16**  
for perforated tape,  
with nut and washer



# STANDARD SYSTEM

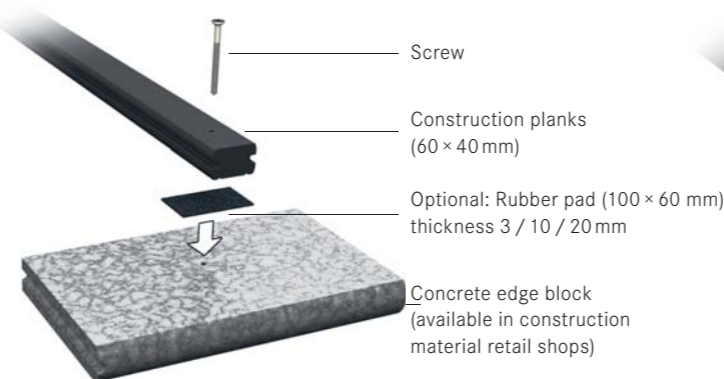
## STANDARD system – the proven substructure

Our megawood® STANDARD system provides the option for installation as open for closed deck. The installation variants generally differ because of the installation heights; these are realized with different

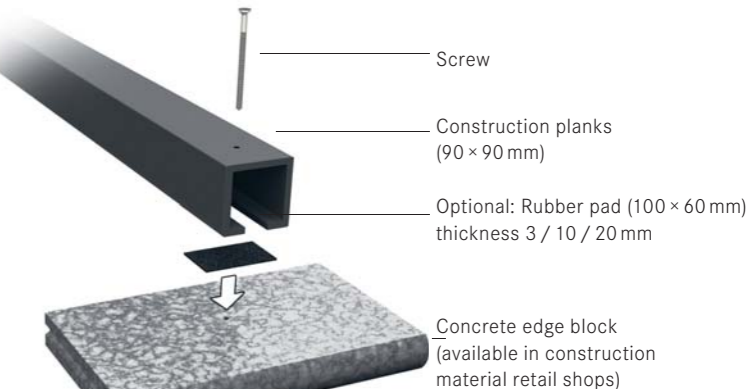
construction planks. For terrace projects that require a board length outside the length range offered by megawood® (more than 6 m), the installation type must be adjusted as necessary. The following

installation types are available: Installation in rows or block strip (please note the hints and illustrations on page 10).

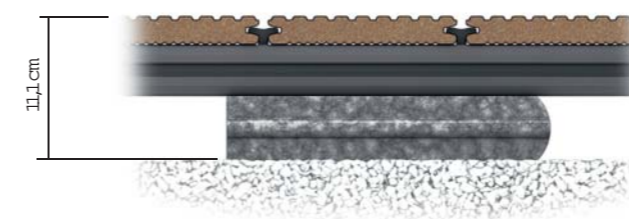
### Regular installation



### Elevated installation

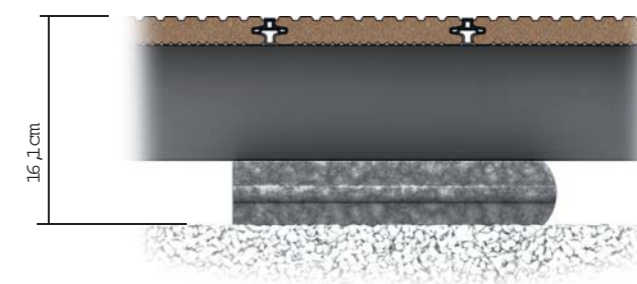


### Minimum heights total structure



## Hint:

Installation of the STANDARD system with construction planks (60 × 40 mm) is to be used only for installation as open deck.

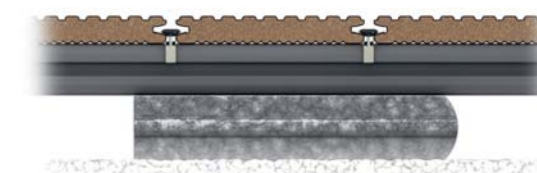


## Hint:

Installation of the STANDARD system with construction planks (90 × 90 mm) can be used only for installation as open and closed deck.

### Alternative board fixing

Optionally, it is possible to use the edge and locking clamps of the FIX STEP system for the open deck of the STANDARD system. Installation details are included in the descriptions on page 14.



# STANDARD SYSTEM

## OPEN DECK

### Installation procedure

#### Preliminary work

1. Prepare **base grade** exceeding the planned terrace surface by 50 cm on all sides with a sloping of 4% and install drainage in the ground.
  2. Make a stable gravel or ballast bed (frost-safe) with 2% sloping, then cover with fine gravel to level uneven spots.
  3. Install **concrete edge blocks** (100×25×5 cm) with a distance of 65 cm between axes on the entire surface as a basis for the construction planks on the gravel bed. On the front side of the construction planks they are offset back by 5 cm.
- #### Sub-structure
4. Distribute **construction planks (40×60 mm)** evenly and vertical to the concrete edge blocks at a distance of 50 cm between the axes (grooves down). At the beginning and at the end position two planks at a distance of 18 cm between the axes.
  5. **Align** planks and level sloping differences by means of rubber pads.

6. After aligning the construction planks, **screw** the substructure in the entire edge area and the two planks at the beginning and the end of the terrace and the centre construction plank together. To do so, drill through the planks with a 9 mm metal drill and countersink the holes. Then use the supplied 6.5 mm concrete drill to drill holes into the concrete edge blocks and screws substructure 40/60 for the connection.
7. To prevent the planks from slipping later on, fasten self-adhesive **retaining band** in the centre on the central construction plank.

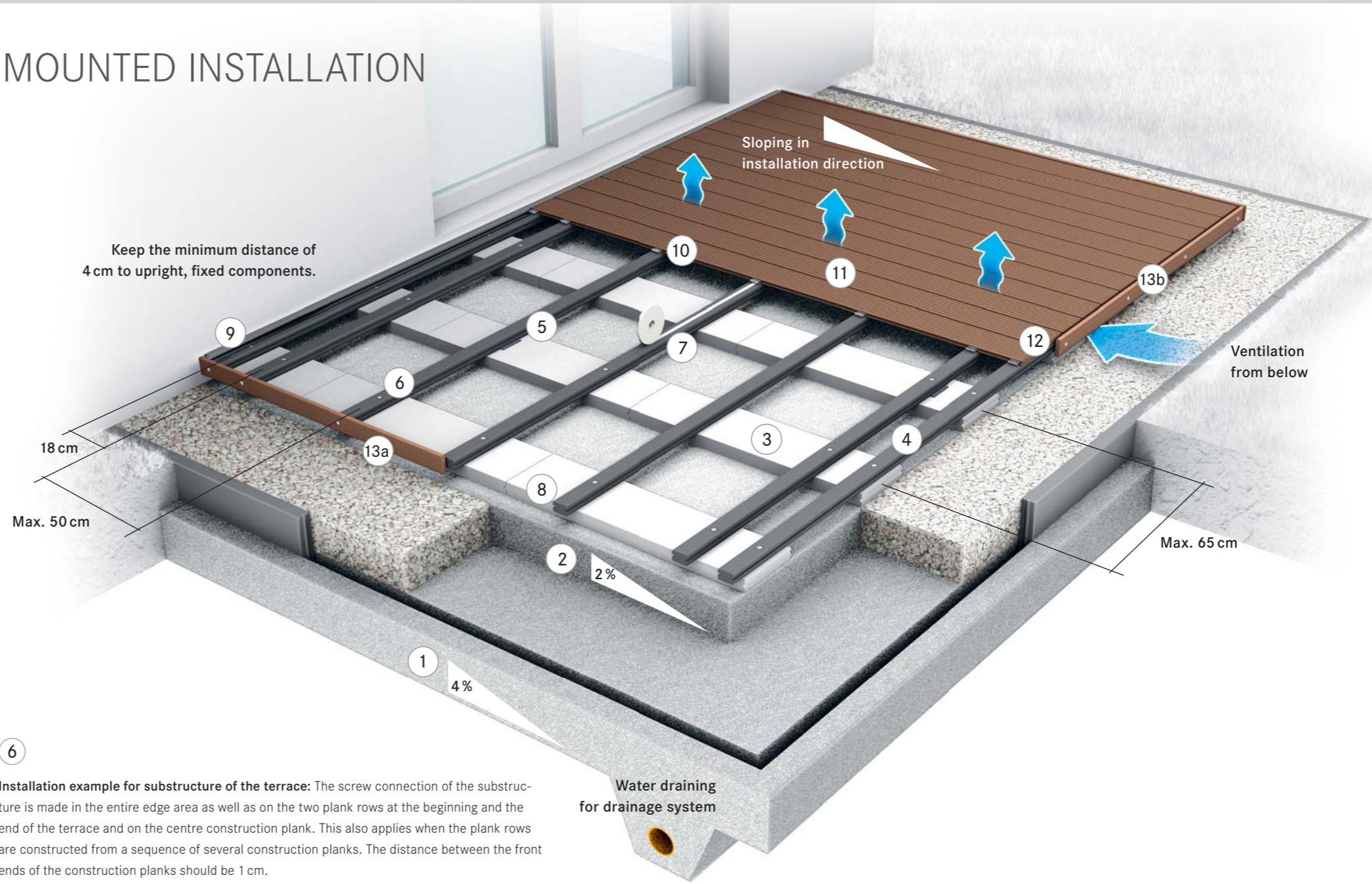
#### Installation of the boards

8. Screw **edge clamps** to fasten the planks flush onto the end of the construction planks. Use a 3 mm metal drill to pre-drill. Do not tighten the screw, so that the first board is easily installed.
9. After installing the first boards, push the **house connection profile** as end strip at the building side onto the end of the plank if necessary.
10. Fix the planks with **locking clamps**. To do so, use a 3 mm metal drill to pre-drill the construction planks. Do not tighten the screws of the locking clamps.

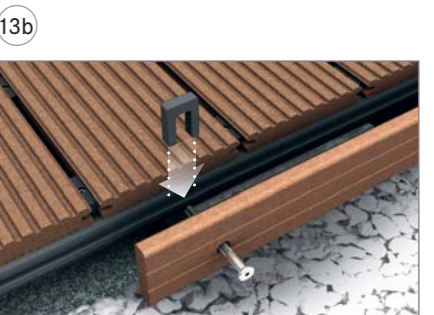
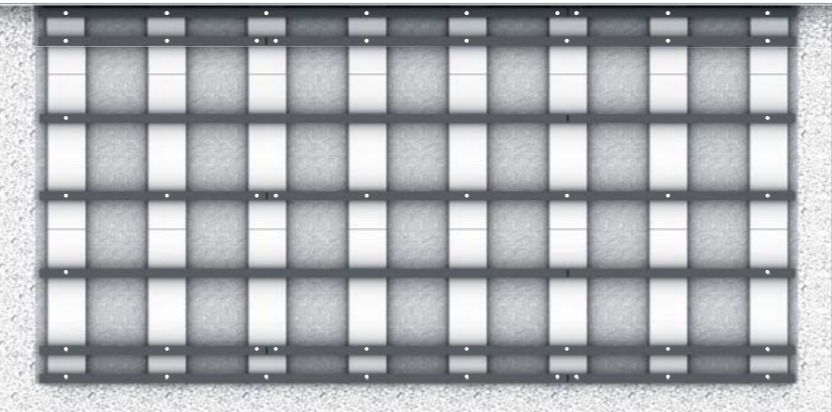
11. After installation of ca. 3 to 4 rows of boards, **tighten** the edge and locking clamps using a medium torque. Repeat procedure until the terrace is finally installed.
12. Now **cut** the boards in the area of the edge **to length** and bevel the cutting edge.
13. At the edge of the terrace, fasten **smooth-edged boards** on all sides of the substructure. Screw connection at least every 50 cm. Place **distance pieces** across from the boards between smooth-edged board and construction plank so that water drainage is ensured. To do so, drill through the smooth-edged boards with a 5 mm metal drill and countersink the holes. Pre-drill the substructure with a 3 mm metal drill and then screw on the smooth-edged boards. Installation smooth-edged board parallel to board direction. → Cf. (13a) Installation smooth-edged board on the front of board direction. → Cf. (13b)

**Hint:**  
WAVE barefoot boards (open) require increased care and cleaning efforts – it is necessary to remove dirt from the grooves in the boards regularly. The distance between the axes of the construction planks is 40 cm. A minimum sloping of 2% in longitudinal direction is absolutely necessary.

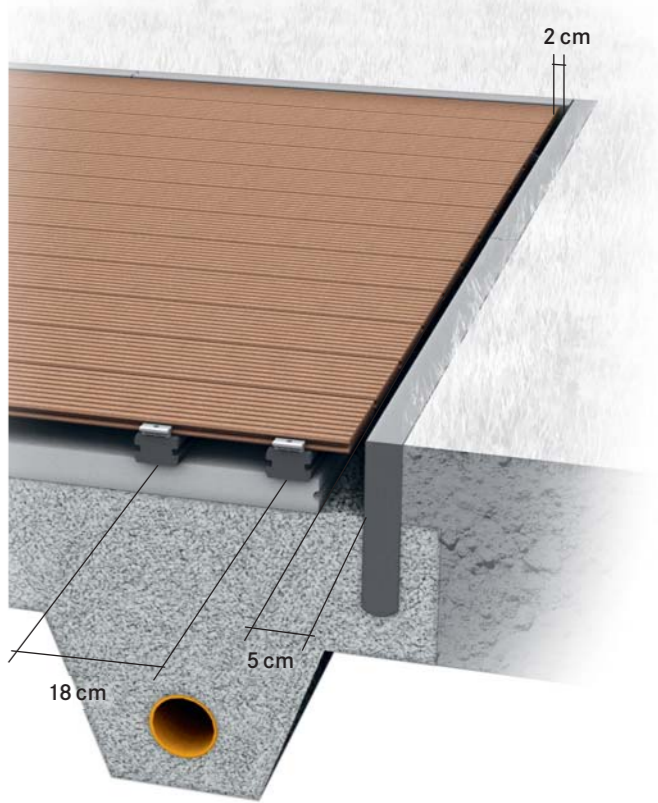
### MOUNTED INSTALLATION



**Installation example for substructure of the terrace:** The screw connection of the substructure is made in the entire edge area as well as on the two plank rows at the beginning and the end of the terrace and on the centre construction plank. This also applies when the plank rows are constructed from a sequence of several construction planks. The distance between the front ends of the construction planks should be 1 cm.



### GROUND LEVEL INSTALLATION



**Hint:**  
To ensure the required ventilation from below, ground level installation is only permitted as open deck. A distance of 2 cm to upright, fixed components must always be kept.



# STANDARD SYSTEM

## CLOSED DECK

### Installation procedure

#### Preliminary work

1. Prepare **base grade** exceeding the planned terrace surface by 50 cm on all sides with a sloping of 4% and install drainage in the ground.
2. Make a stable **gravel or ballast bed** (frost-safe) with 2% sloping, then cover with fine gravel to level uneven spots.
3. Install **concrete edge blocks** (100 × 25 × 5 cm) with a distance of 75 cm between axes on the entire surface as a basis for the construction planks on the gravel bed. On the front side of the construction planks they are offset back by 8 cm.

#### Sub-structure

4. Distribute **construction planks (90 × 90 mm)** evenly and vertical to the concrete edge blocks at an axis distance of 60 cm (grooves down). At the beginning and at the end position two planks at a distance of 21 cm between the axes.
5. **Align** planks and level sloping differences by means of rubber pads.
6. After aligning the construction planks, **screw** the substructure in the entire edge area and the two planks at the beginning and the end of the terrace and the centre construction plank together. To do so, drill through the planks with a 9 mm metal drill

and countersink the holes. Then use the supplied 6.5 mm concrete drill to drill holes into the concrete edge blocks and screws substructure 90/90 for the connection. To prevent the planks from slipping later on, fasten self-adhesive **retaining band** in the centre on the central construction plank.

7. On the sides at the ends of the construction planks, fasten **upright construction planks 60 × 40 of a length** of 12 cm on top left and right to fasten the smooth-edged board on the front side. To do so, drill through the construction planks with a 6.5 mm metal drill and countersink the holes. Pre-drill the substructure with a 3 mm metal drill and then screw on the construction planks.

#### Installation of the boards

8. Screw **edge clamps** to fasten the planks flush onto the end of the construction planks. Use a 3 mm metal drill to pre-drill. Do not tighten the screw, so that the first board is easily installed.

9. After installing the first boards, push the **house connection profile** as end strip at the building side onto the end of the plank if necessary.

10. Screw on the **stainless steel locking clamps** for fixing the boards using self-cutting screws (4 × 20 mm) and tighten with a medium torque.

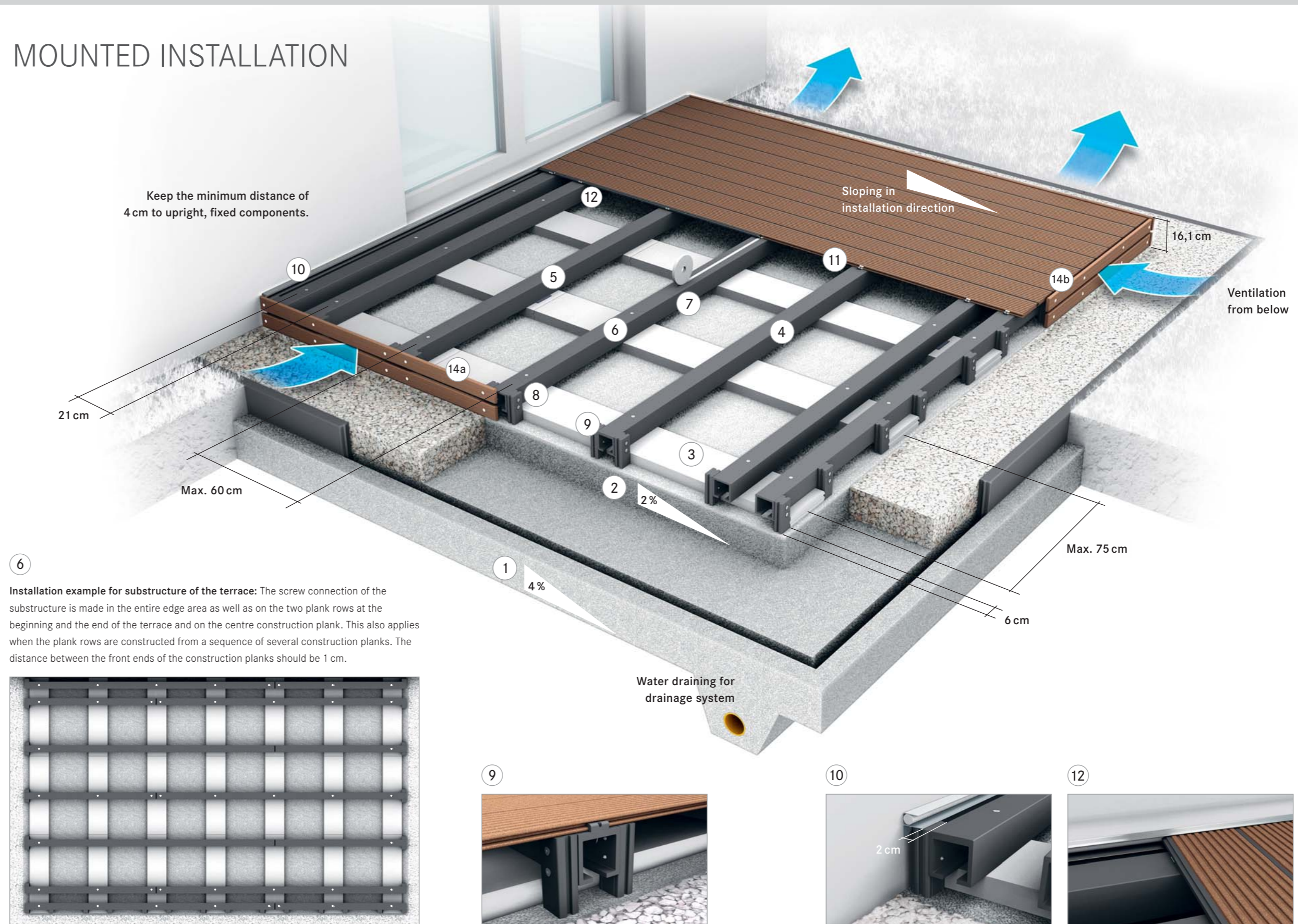
11. Insert **groove strip** loosely into the board groove (do not stretch or tighten).

12. Align the next board and push onto the groove strip. Then fix the board again with stainless steel locking clamps. Repeat procedure until the terrace is finally installed.

13. Now **cut** the boards in the area of the edge **to length** and **bevel** the cutting edge.

14. At the edge of the terrace, fasten **smooth-edged boards** all around to the short construction planks. Screw connection at least every 50 cm. Place **distance pieces** between smooth-edged board and construction planks. To do so, drill through the smooth-edged boards with a 5 mm metal drill and countersink the holes. Pre-drill the substructure with a 3 mm metal drill and then screw on the smooth-edged boards. For several smooth-edged boards on top of each other, keep a minimum distance of 15 mm, so as to ensure sufficient ventilation from below. Installation smooth-edged board parallel to board direction. → Cf. (14a)  
Installation smooth-edged board on the front of board direction. → Cf. (14b)

### MOUNTED INSTALLATION



**Installation example for substructure of the terrace:** The screw connection of the substructure is made in the entire edge area as well as on the two plank rows at the beginning and the end of the terrace and on the centre construction plank. This also applies when the plank rows are constructed from a sequence of several construction planks. The distance between the front ends of the construction planks should be 1 cm.

**Limitations:**  
Do not use WAVE barefoot boards for installation as closed deck.

Installation videos at  
[www.megawood.com/en/videos](http://www.megawood.com/en/videos)



# STANDARD SYSTEM PRODUCT OVERVIEW

# MEGALITE

**House connection profile**  
21 mm | L: 400 cm  
colours: Silver / bronze



**Groove strip**  
21 mm | L: 25 / 100 m  
(on roll)



**Construction plank**  
90 × 90 mm | L: 360 cm



**Construction plank**  
40 × 60 mm | L: 360 cm



**Distance piece**  
40 × 30 × 10 mm  
incl. screws



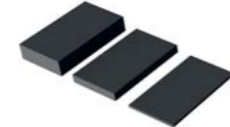
**Levelling / support plate**  
150 × 150 mm  
thickness: 3 / 5 / 15 mm



**Self-adhesive retaining band**  
L: 10 m (on roll)



**Rubber pad**  
60 × 100 mm  
thickness: 3 / 10 / 20 mm



**Locking clamp**  
incl. screws (4 × 35 mm)  
and bit TX 20



**Edge clamp**  
incl. screws (4 × 35 mm)  
and bit TX 20



**Stainless steel locking clamp**  
for groove strip, incl. screws (4 × 20 mm)  
and bit TX 20



**Screw substructure 90 / 90**  
7,5 × 132 mm, incl. bit TX 30  
and SDS drill (Ø 6,5 mm)



**Screw substructure 40 / 60**  
7,5 × 92 mm, incl. bit TX 30  
and SDS drill (Ø 6,5 mm)



## Optional:

**FIX STEP edge clamp**  
2-pc



**FIX STEP locking clamp**  
incl. screw, 2-pc



**Cover cap**  
73,5 × 15 × 6,7 mm



**FIX STEP groove bridge**  
55 × 8 × 10 mm



**Hint:**  
Our product range of board is  
shown on pages 30-31.

## Atmospheric highlights

MEGALITE LED outside floor spotlights in sizes “Mini” (Ø 34 mm) and “Maxi” (Ø 60 mm) are the complete your megawood® barefoot board visually. Both sizes are available in the light colours blue and warm white. At 0.4 watts (Mini) and 0.9 watts (Maxi) consumption, they are very economical. The LED light system is equipped with a twilight sensor and switches on and off automatically.



**Exception:**  
WAVE barefoot boards open cannot  
be fitted with MEGALITE.

## Product programme



**MEGALITE LED floor spotlights “Maxi”**  
Ø 60 mm; H: 30 mm; stainless steel V4A  
light colours: Warm white / blue  
capacity/voltage: 0,9 W/12 V DC  
lighting supply cable: ca. 15 cm  
with plug IP 68



**MEGALITE LED floor spotlights “Mini”**  
Ø 34 mm; H: 30 mm; stainless steel V4A  
light colours: Warm white / blue  
capacity/voltage: 0,4 W/12 V DC  
lighting supply cable: ca. 15 cm  
with plug IP 68



**MEGALITE mains adapter**  
20 Watts  
for maximally 20 floor spotlights “Maxi”  
or 40 floor spotlights “Mini”



**MEGALITE mains adapter IP 68**  
10 Watts, for installation below  
the deck for maximally 10 floor  
spotlights “Maxi” or 20 “Mini”



**MEGALITE connection cable**  
L: 1,5 m / 5 m / 10 m



**MEGALITE distributor**  
3-way/ 5-way

## Installation MEGALITE



**1.** Cut lamp opening with hole cutter  
Ø 37 mm (for “Mini”) / Ø 63 mm (for “Maxi”).

**2.** Install lamps at a distance of max.  
5 cm from a construction plank. If  
necessary, install an additional plank.

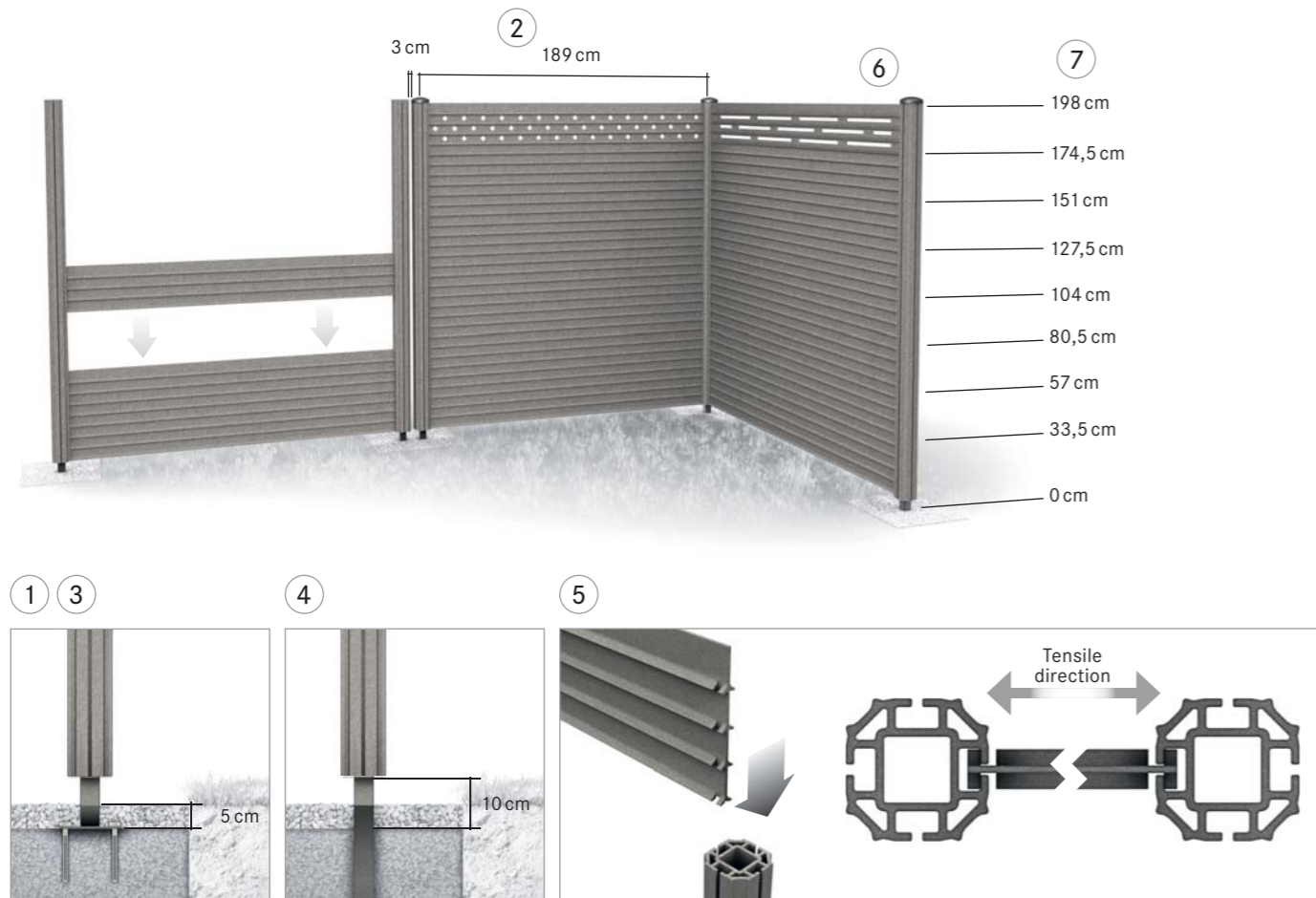
### IMPORTANT

*Install cable connections so that they are  
easily accessible. Use MEGALITE mains  
adapter IP 68 for installation below the deck.*

*For barefoot board WAVE use MEGALITE LED  
floor spotlights only when the surface  
“Standard” is installed. Due to the special  
surface, they cannot be used for WAVE open.*

# COMPACT FIX VISUAL PROTECTION

# PRODUCT OVERVIEW



## Installation procedure

### Sub-structure

1. Make the **foundation width and depth** following static requirements and install frost-free.
2. The distance between the axes of the post of a **fence field** is 189 cm. After each fifth fence field, set a post at a distance of 12 cm between axes; this will create an expansion joint of 3 cm. Please ensure at this point, that the elements of the visual protection will be installed with tension.
3. Position **screw-on** and **concrete-mounted anchors** in a way that the post mounting has at least 5 cm distance from the accumulated gravel (or ground) and 10 cm to the upper edge of the foundation. Avoid ground contact of the megawood® visual protection.

### Installation

4. Push **posts** onto the sleeve up to the attachment.
5. Push **visual protection boards** into the groove with the rib curving down. Install the visual protection boards with tension, so that the elements can freely expand.
6. Plug **post caps** onto the post, if necessary use silicone glue for fixing.
7. The **maximum visual protection height** with eight visual protection boards is 198 cm. The height can be adjusted in a grid of 23.5 cm.

Visual protection board  
COMPACT FIX  
25 × 242 mm | L: 183,5 cm



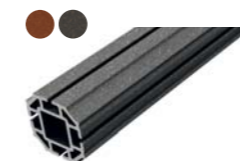
Diamond design board  
COMPACT FIX  
25 × 242 mm | L: 183,5 cm



Slit design board  
COMPACT FIX  
25 × 242 mm | L: 183,5 cm



Post COMPACT FIX  
90 × 90 mm | L: 191 cm



Screw-on anchor  
COMPACT FIX  
40 × 40 mm | L: 40 cm  
(120 × 120 mm base plate)  
Design: Hot-galvanized



Concrete-mounted anchor  
COMPACT FIX  
40 × 40 mm | L: 100 cm  
Design: Hot-galvanized



Post cap  
COMPACT FIX  
Ø 105 mm  
Design: Stainless steel

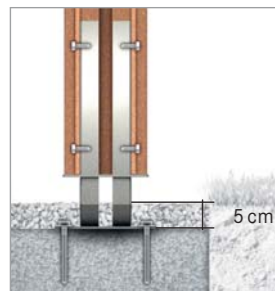


# STANDARD VISUAL PROTECTION

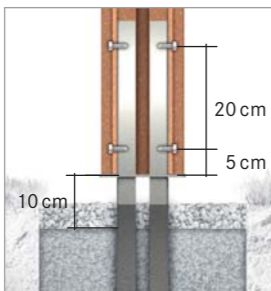
# PRODUCT OVERVIEW



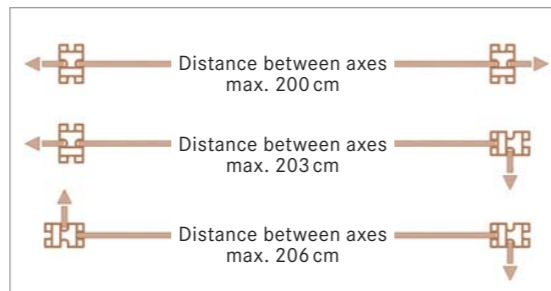
1 4



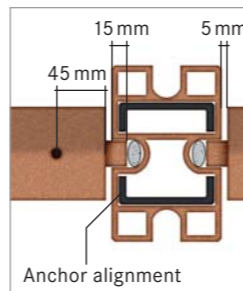
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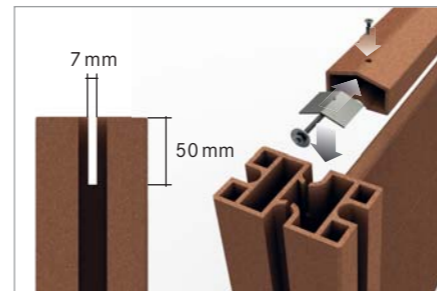
2



3



6 9



## Installation procedure

### Sub-structure

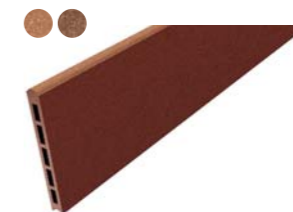
1. Make the **foundation width** and depth following static requirements and install frost-free. Recommended: 40 × 40 cm and 80 cm depth.
2. The maximum distance between the axes of the posts of a straight **fence field** is 200 cm. Covering a corner it may be up to 206 cm.
3. Observe the position of the posts for **alignment** of the screw-on/concrete-mounted anchors.
4. Position screw-on and concrete-mounted anchors in a way that the post mounting has at least 5 cm distance from the accumulated gravel (or ground) and 10 cm to the upper edge of the foundation. Avoid ground contact of the megawood® visual protection.

### Installation

5. For **fastening the posts**, take hole distances from the fastening anchor and transfer them to the posts. Then, drill through with a 12 mm metal drill and countersink the holes. Push posts onto the anchor and fix with non-corroding screws.
6. To fasten the wall cover afterwards, a **slit** must be sawed into the groove at the top of the post with a width of 7 mm and a depth of 50 mm.
7. Glue in **sealing tape** into the groove from below until it almost reaches the slit. Later, this will fill the post joint and fix the visual protection elements, so that the visual protection element can expand freely.
8. After that, immediately push in the **visual protection boards** from the top into the post groove. Ensure that the installation direction is consistent (printed arrow in the visual protection groove).

9. Shorten **wall cover** by 4 cm vis-à-vis the length of the visual protection boards. Then screw fastening plate and wall cover together. After that, it is inserted into the sawed-out groove and screwed on. For this, keep a distance of 20 mm between the upper edge of the wall cover and the upper edge of the post.
10. Plug **post caps** onto the post, if necessary use silicone glue for fixing.

STANDARD visual protection board  
25 × 232 mm | L: 193 cm



STANDARD post  
100 × 160 mm | L: 190 cm



STANDARD wall cover  
50 × 85 mm | L: 189 cm



STANDARD fastening plate  
for wall cover, incl. nuts  
Design: Stainless steel



STANDARD screw-on anchor  
85 × 93 mm | L: 40 cm  
(220 × 160 mm base plate)  
Design: Hot-galvanized



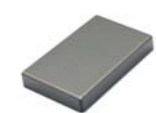
STANDARD concrete-mounted anchor  
85 × 93 mm | L: 80 cm  
Design: Hot-galvanized



STANDARD post cap  
Decorative cap with globe  
100 × 160 mm  
Designs: Stainless steel / zinc coated



STANDARD post cap  
Decorative cap without globe  
100 × 160 mm  
Designs: Stainless steel / zinc coated



STANDARD sealing tape  
Up to 20 mm expanding | L: 8 m  
(on roll)



# BAREFOOT BOARDS

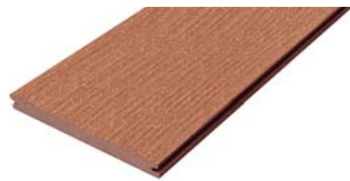
## PRODUCT OVERVIEW

Nature brown

**PREMIUM barefoot board**  
21 × 145 mm  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



**PREMIUM barefoot board**  
21 × 242 mm (Jumbo)  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



**CLASSIC barefoot board**  
21 × 145 mm  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



**CLASSIC barefoot board**  
21 × 242 mm (Jumbo)  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



**WAVE barefoot board**  
21 × 145 mm  
L: 300 / 360 / 420 / 480 cm



**Smooth edge board**  
17 × 72 mm  
L: 360 cm



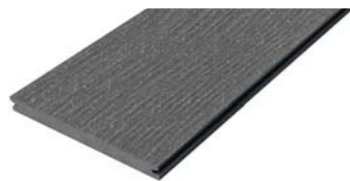
**CONSTRUCTION PLANK**  
40 × 112 mm  
L: 360 cm



Nut brown



Basalt grey



Lava brown

**PREMIUM PLUS barefoot board**  
21 × 145 mm  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



**PREMIUM PLUS barefoot board**  
21 × 242 mm (Jumbo)  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



**CLASSIC PLUS barefoot board**  
21 × 145 mm  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



**CLASSIC PLUS barefoot board**  
21 × 242 mm (Jumbo)  
L: 300 / 360 / 420 / 480 / 540 / 600 cm



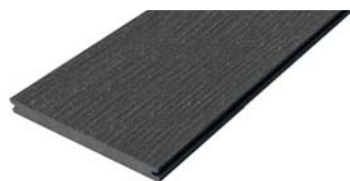
**Smooth edge board**  
**PREMIUM PLUS | CLASSIC PLUS**  
17 × 72 mm | L: 360 cm

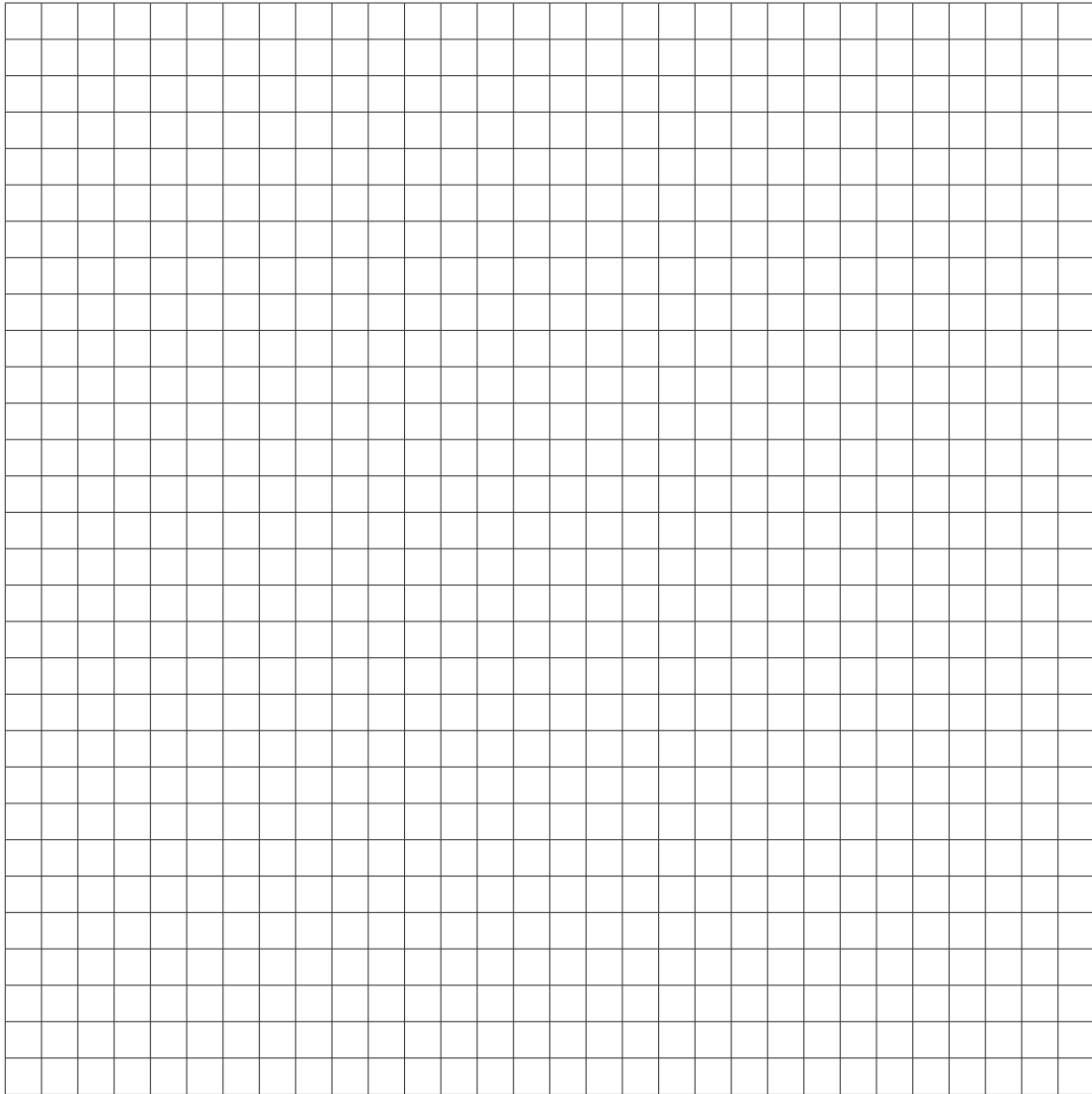


**CONSTRUCTION PLANK**  
**PREMIUM PLUS**  
40 × 112 mm | L: 360 cm



Slate grey





## Further information

Design examples and clear installation videos are available on the internet at unter [www.megawood.com/en](http://www.megawood.com/en)



Your specialized retailer

