



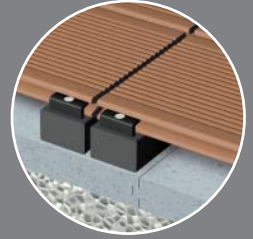
Made in Germany®

megawood

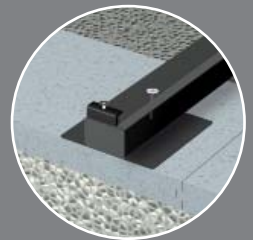


megawood® Decking

Installation Guide



Assembly and
installation videos
available online at:
www.megawood.de



Planning principles



Welcome to your new megawood® decking!

We would like to take this opportunity to congratulate you upon your purchase of the megawood® barefootboards and to thank you for placing your trust in us. In order to ensure that you will enjoy long use from your premium and innovative product, please observe all instructions contained within this construction manual. Please only use original megawood® accessories and observe the guidelines in order to achieve an ideal result as we can unfortunately accept no guarantee in the event of deviation from this instruction manual and the defects caused as a result.

The megawood® construction manual forms the basis for all types of laying, even if this is not explicitly stated in this construction manual. A sufficiently measured statically, bearing and walkable foundation that forms a support for megawood® barefootboards / sub construction or foundation is also required for all applications that require official technical approval.

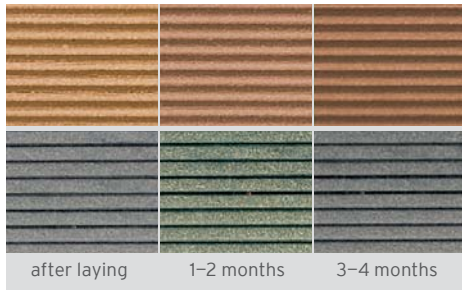
General planning principles for open and closed decks

- » The deck can either be placed on top or can be at ground level.
- » Avoid contact between the megawood® construction elements and the soil.
- » Ensure that the subsoil is firm, has a good bearing capacity and is frost-proof.
Caution: Avoid waterlogging.
- » Make sure that there are cavity spaces between the sub-construction and the bearing plates in order to ensure that an exchange of warm and cold air occurs.
Good ventilation prevents waterlogging.
- » The maximum floorboard protrusion over the last sub-construction may not exceed 5 cm
- » Always pre-drill all holes.
- » Observe the construction beam clearances.
- » Observe the 2 cm minimum clearance to fixed components.
- » Observe the minimum clearances of the expansion joints so that the construction can expand without force if necessary.
- » Always lay hollow section profiles in a longitudinal direction to the floorboard with a minimum gradient of 2% (2 cm per m) in order to prevent permanent damage to the hollow section being caused by penetrating water.
- » Observe the laying direction as shown by the arrow printed on the packaging label and in the floorboard groove.
- » Ensure a sufficient amount of ventilation from underneath by observing the clearances.
- » Production-related dimension tolerances concerning length, width and thickness are to be taken into account during assembly.
- » When dealing with hollow section floorboards, do not make any diagonal cuts at an angle exceeding 45°.
- » Chamfer all of the cutting edges of the barefootboards (approx. 2 x 2 mm).
- » Always use solid megawood® barefootboards for special applications (steps, curves, cut-outs for downpipes or pillars) as well as for superstructures, where the stipulated gradient cannot be observed.



Barefootboard CLASSIC solid
21 x 242 mm (Jumbo)
L: 300, 360, 420, 480, 540, 600 cm
Col.: basalt grey, natural brown, nut brown

General information



Colour effect:

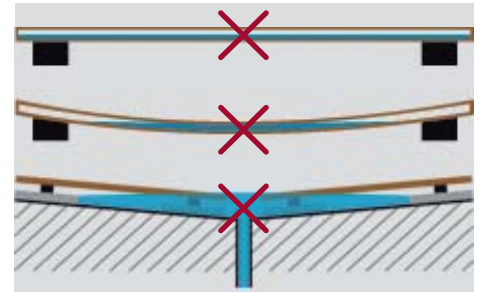
Up to 75% of the megawood® barefoot-boards is made up of wood fibres. Slight colour deviations and nuances are desired and underline the natural wood look. They are not deemed to be a cause for complaint. It should therefore be ensured that the floorboards are mixed prior to laying. The colour effect of the product will change slightly and will obtain its final natural colour after a few months depending upon exposure to direct sunlight.

This takes a little longer on partially roof-covered terraces.



Laying direction:

Lay all of the floorboards in the same direction in order to obtain a homogenous surface effect. This direction is shown by an arrow in each of the floorboard grooves as well as on the packaging label.



Gradients and drainage:

If the stipulated minimum gradient of 2% (2 cm per m) cannot be observed when laying, then only solid floorboards may be used due to the fact that waterlogging in the hollow section systems can cause permanent consequential damage (**dimension changes, deformations or frost cracking**). This applies to all types of laying.

Important

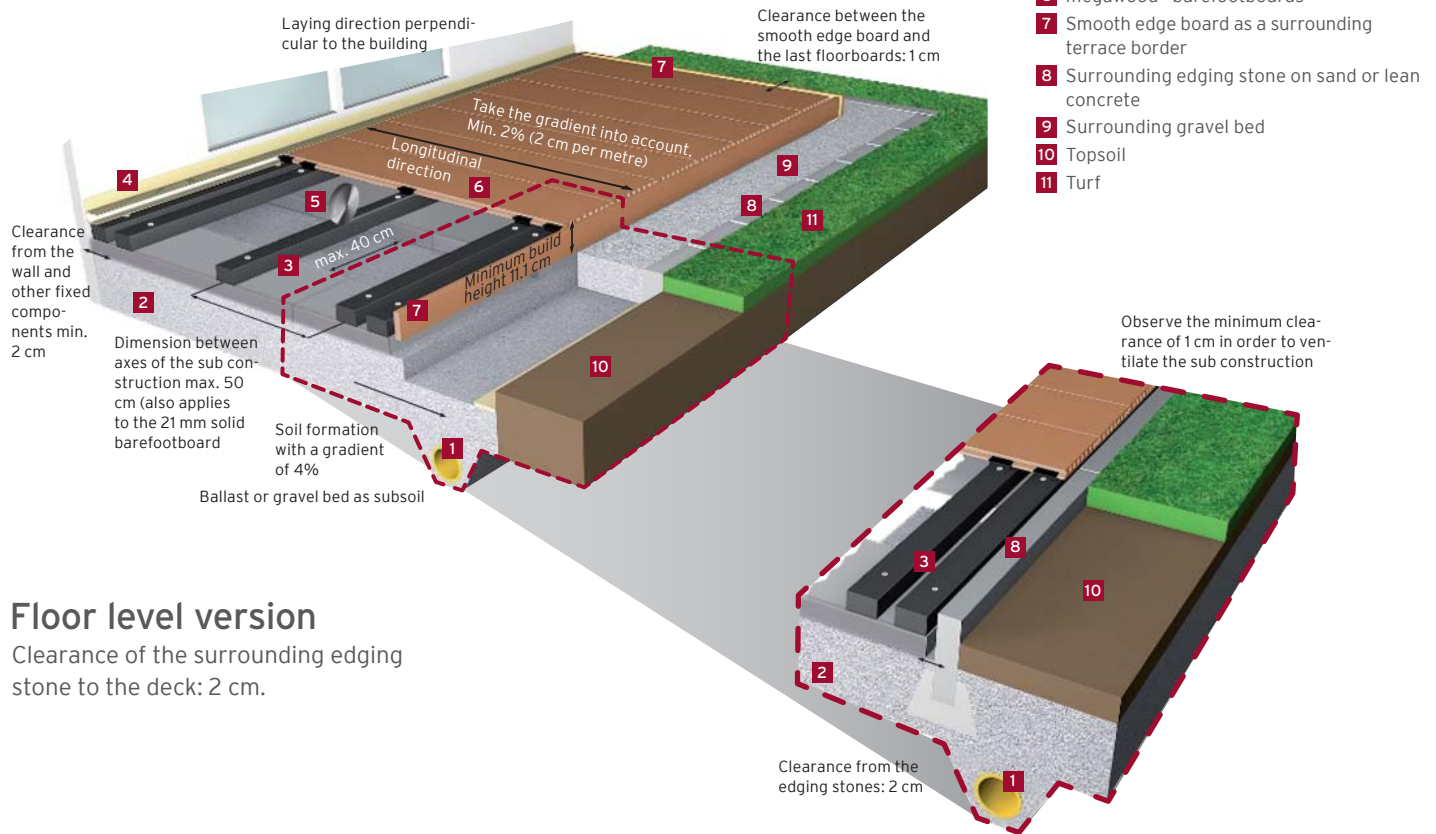
- » Sufficiently dimensioned drainage is to be ensured in all circumstances. Avoid backwater and ensure complete drainage, even during heavy rain.
- » When constructing terraces, a gradient of at least 2% must be observed in order to ensure that all water can flow away from the building. The path of the later floorboards should also follow the gradient in order to take advantage of the cleansing effect of the floorboards through rain water.

Open deck

If your megawood® terrace is to be implemented in the form of an open deck without megawood® groove strips, this can be optionally executed as a „placed on“ version with surrounding smooth edge board, e.g. for a stepless transition to an adjacent doorsill or as a floor level deck with surrounding edging stone. You can find comprehensive video demonstrations for all steps online at www.megawood.de.

„Placed on“ version

Clearance between the smooth edge board and the last floorboard: 1 cm.

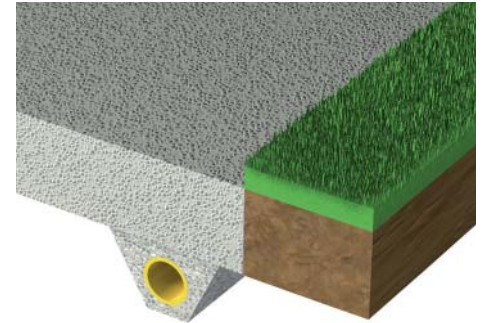


Floor level version

Clearance of the surrounding edging stone to the deck: 2 cm.

Open deck

Laying explained in 7 steps.

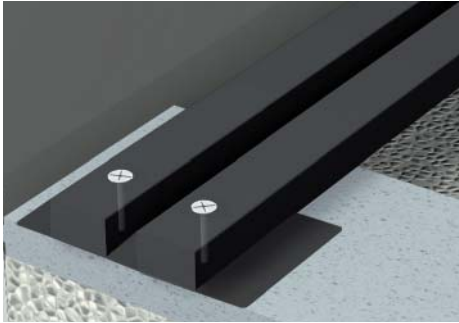


Step 1

- » Create the soil formation with a 4% gradient in the direction of the drainage. Ensure a secure drainage connection with a minimum diameter of 10 cm or ensure an adequate soakaway. If in doubt, consult a specialist company.
- » Create a foundation comprising of a load-bearing frost-proof and compacted gravel or ballast bed.

„Placed on“ deck: filling of the gravel trench using rolling gravel without fines content up to 2 cm below the smooth edge board.

„Floor level“ deck: Clearance of the surrounding edging stone to the deck: 2 cm.



Step 2

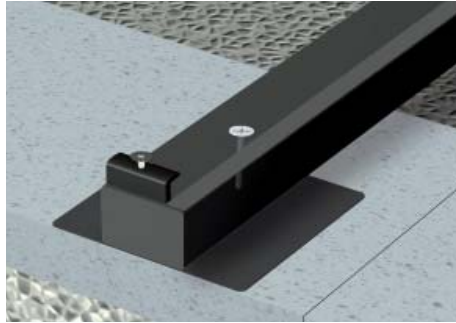
Construction beams are only laid perpendicular to the concrete slabs and are aligned at a uniform height. Lay double starting and end construction beams respectively.

Observe a minimum clearance of 2 cm between the sub construction beams.

- » Lay 100 x 25 x 5 cm concrete slabs for the foundation plate.
Observe minimum clearances and gradients.

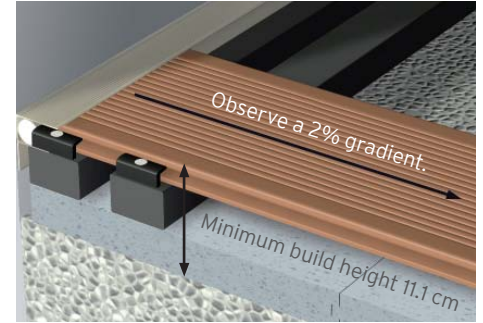
Important

- » Screw the first two as well as the last and the outer sub construction beams onto concrete slabs as the barefootboards otherwise may lift at the ends. Use 7.5 x 92 mm sub construction fastening screws and it is essential to pre-drill using a 6.5 mm drill.



Step 3

- » Pay attention to the bracing when laying the sub-construction (see step 5).
- » As a general rule of thumb, use compensation plates or rubber pads should there be differences of up to a maximum of 20 mm in height, otherwise adjust the foundation. Pay attention to the interconnection.
- » Do not butt-joint the sub-construction. Minimum clearance of the frontal side: 1 cm.
- » Do not fill the clearance between the concrete slabs.
- » The self-adhesive tape is to be applied in such a manner that it is attached to the construction beam in the centre of the barefoot floorboard length. This construction beam is to be screwed to the concrete slab. (See overall view) Plan for additional tape when executing herringbone pattern.



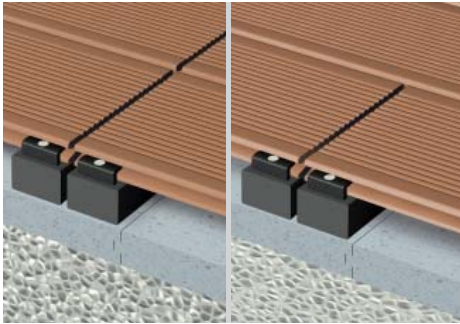
Step 4

- » Insert the barefootboard including foam profile into the aluminium profile.
- » Commence with the first floorboard, offsetting it at 1 cm from the construction beam to ensure sufficient assembly space for the edge clamp.
- » Use the black securing clamps for all of the remaining floorboard fastenings.
- » Always lay double sub construction beams at the beginning and end of the terrace, screw them together with the concrete slab in order to avoid an eccentric loading of the concrete slab.

Important

- » Lay the hollow section profiles longitudinal to the floorboard with a minimum gradient of 2 %.
- » Tighten the edge clamp firmly. Set the torque correctly in order to prevent shearing and over-tightening of the screw.

Open deck

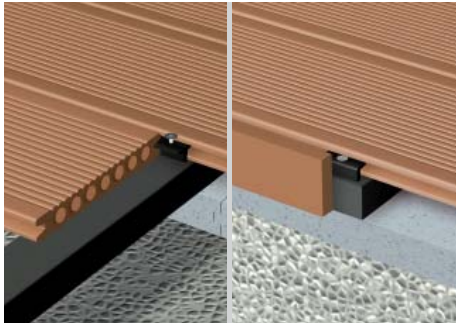


Step 5

Flush laying of the barefoot floorboards (see left image, row pattern) and offset laying (see right image, herringbone pattern) on a max. area of 12 x 12 m

Important

- » The construction beams are to be laid double at the joints and a minimum clearance of 2 cm is to be maintained between the sub construction beams. Screw both of the sub-construction beams to the concrete slab. The floorboard joints are to have a minimum clearance of 0.7 cm. Tighten the edge clamp firmly. Set the torque correctly in order to prevent shearing and over-tightening of the screw. Take production-related dimension tolerances into account.
- » A complete construction expansion joint of at least 4 cm must be observed when dealing with areas in excess of 12 x 12 m (e.g. gravel trench, flower beds or other suitable possibilities).

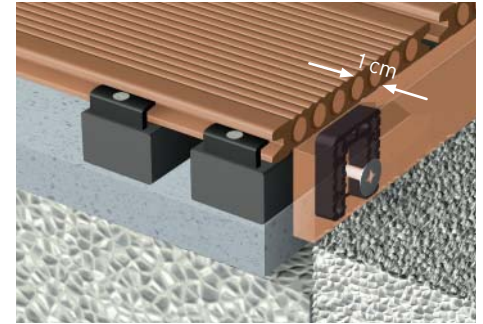


Step 6

- » Use the black securing clamps for the floorboard fastenings, do not forget to pre-drill and then loosely fix them onto the construction beam (see left image), as the following floorboard cannot be precisely inserted otherwise. Then push the next floorboard against this until the securing clamp is positioned horizontally. Then loosely tighten the screw once again. Do the same with the other floorboards.
- » Finally use the edge securing clamp and attach smooth edge boards at the ends of a construction beam (using the 4 x 50 VA* screw, see right image).

Important

- » Do not brace, lash down or clamp megawood® barefootboards.
- » Tighten the fixing clamps after completing the laying. Set the torque correctly in order to prevent shearing and over-tightening of the screw.



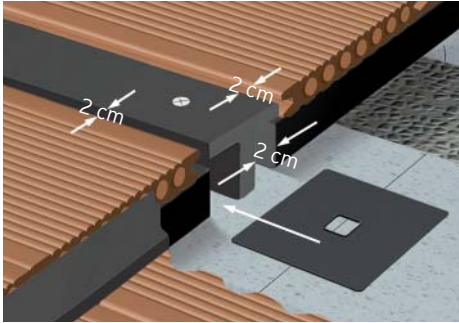
Step 7

Circumferential clearance from the joint to the smooth edge board: 1 cm.

Important

- » Secure a smooth edge board to the construction beam (with 4 x 50 VA* screws) on the frontal side of the floorboard using a spacer in order to ensure that the water can drain off.

Special versions



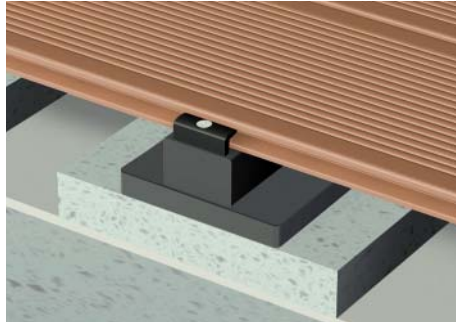
Special version A

Use the construction joint profile when dealing with terrace sizes in excess of 12 x 12 m

the construction joint profile to the concrete slab in a longitudinal or transverse direction to the barefootboards (using 5 x 90 VA* screws, drill hole \varnothing 8 mm). The base height of the construction joint profile is designed for the 21 mm solid floorboard. When using the 25 mm solid or hollow section floorboard for the open deck, compensation plates and bearing plates are to be used in order to compensate for the differences in height.

Important

- » Maintain a minimum clearance of 2 cm on both sides between the barefootboards, sub construction beams and the construction joint section!



Special version B

Roof terrace

Screw the construction beam on the existing building protection mat together with the 400 x 400 x 50 mm footpath slab, use 150 x 150 x 15-25 mm bearing plates in order to compensate for height differences and then mount the compensation plate. Fasten the sub construction to footpath slabs using sub construction fixing screws.

Only use solid floorboards when laying with no stipulated minimum gradient of 2%, in order to prevent waterlogging in the hollow section systems and the associated consequential damage (dimension changes, deformations or frost cracking). Ensure a sufficiently dimensioned drainage and do not allow any backwater. Ensure that all of the water drains off.

Important

- » Consult an architect or specialist company with regard to the type of construction.



Special version C

Renovation of existing terrace coverings

Important

- » Mount the construction beams with bearing plates and compensation plates or rubber pads and do not lay them directly on the old surface in order to ensure that water can drain off.
- » Fasten the sub construction with old covering.
- » Construction is only possible provided that there is a sufficient drainage of the old covering with a 2% gradient. Do not allow waterlogging.

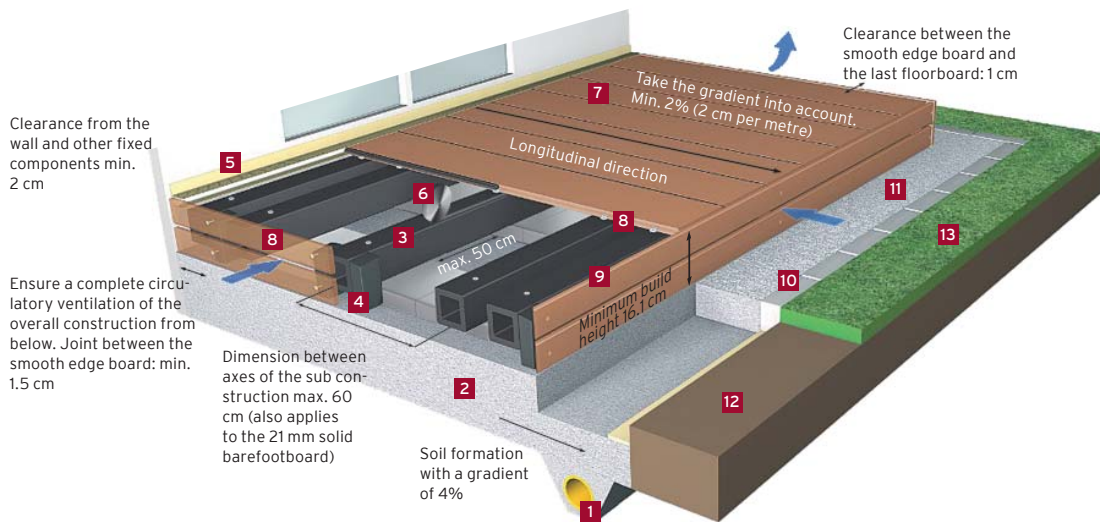
Closed deck

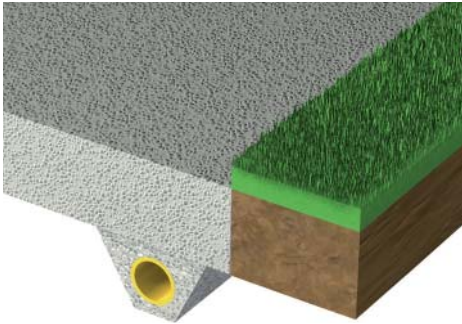
The closed deck differs from the open deck construction in some respects and these differences are described below. The prerequisite is a stilt-supported overall construction which possesses a complete circulatory ventilation from below. The megawood® groove strip fits perfectly into the joint located between your terrace boards and absorbs occurring forces in a flexible manner. You will place your warranty cover at a risk should you decide to choose your own type of sub construction (e.g. Bangkirai) due to the fact that we are unable to assume any liability for resulting damage. Should you nevertheless decide to use another sub construction, it is essential that the megawood® screws are replaced, by using appropriate wood screws for example. The foundation and special versions are the same as with the open deck. The general planning principles also apply.

Important

» Do not brace, lash down or clamp megawood® barefootboards.

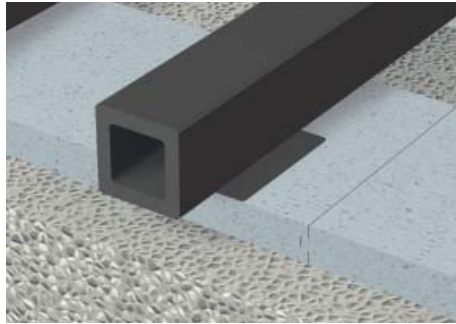
- 1 Drainage
- 2 Gravel or ballast bed (frost-proof) with a good bearing capacity
- 3 90 x 90 mm construction beam on concrete slabs (100 x 25 x 5 cm)
- 4 Securing block (60 x 40 mm construction beam)
- 5 Aluminium profile as a border strip to the house facade
- 6 Adhere self-adhesive retaining band to the centre of the construction beam
- 7 megawood® barefootboards with groove strip
- 8 Stainless steel clamp
- 9 Smooth edge board as a surrounding terrace border
- 10 Surrounding edging stone on sand or lean concrete
- 11 Surrounding gravel bed
- 12 Topsoil
- 13 Turf





Step 1

- » Create the soil formation with a 4% gradient in the direction of the drainage. Ensure a secure connection of the drainage with a min. diameter of 10 cm or ensure seepage. Consult a specialist company if necessary.
- » Create a foundation comprising of a load-bearing frost-proof and compacted gravel or ballast bed.

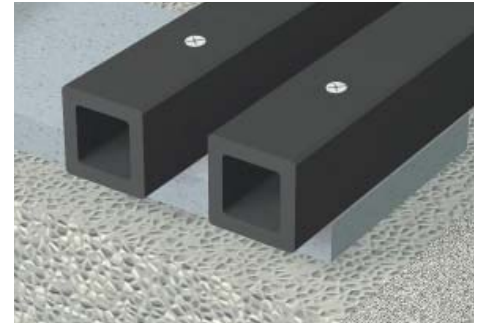


Step 2

- » Lay a 100 x 25 x 5 cm concrete slab as a foundation plate. Observe minimum clearances and gradients (min. 2 cm per metre).
- » Only use 9 x 9 cm construction beam in order to ensure sufficient ventilation from below.
- » As a general rule of thumb, use compensation plates or rubber pads in the event of differences in height. Observe a max. interconnection of 2 cm.

Important

- » Drill holes on the underside of the construction beam between the concrete slabs (20 mm diameter) in order to enable water to drain off.
- » Ensure that the construction amounts to a minimum of 16.1 cm (from the lower edge of the concrete slab to the upper edge of the board).
- » Do not fill the sub construction and the concrete slabs.



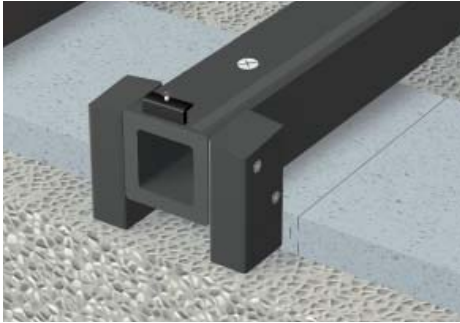
Step 3

- » Always lay double 9 x 9 cm sub construction beams at the beginning and end of the terrace in order to avoid an eccentric loading of the concrete slabs.
- » The construction beam should always be flush with the concrete slab at the outer edge.
- » The construction beam may protrude over the frontal side of the concrete slab by a max. of 5 cm.
- » Do not butt-joint the sub construction. Minimum clearance of the frontal side: 1 cm.

Important

- » Screw the first two as well as the last sub construction beams to the concrete slab.
- » Observe a minimum clearance of 2 cm between the construction beams.

Closed deck

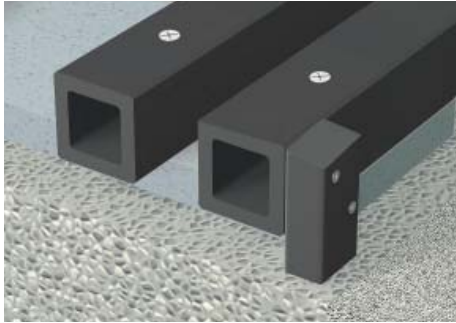


Step 4

- » Screw the securing block (manufacture on-site using 60 x 40 mm construction beam) to the 90 x 90 mm construction beam in a flush manner (5 x 60 VA* screws) in order to ensure the mounting of the smooth edge board (4 x 50 VA* screws).
- » Bevel the top side of the securing block in order to enable water to drain off.
- » The self-adhesive retaining band is to be applied in such a manner that it is applied on the construction beam in the centre of the barefootboard length. This construction beam is to be screwed to the concrete slab. (See overall view)

Important

- » 2 securing blocks are to be screwed on where the smooth edge boards join. Butt joint: min. 1 cm.



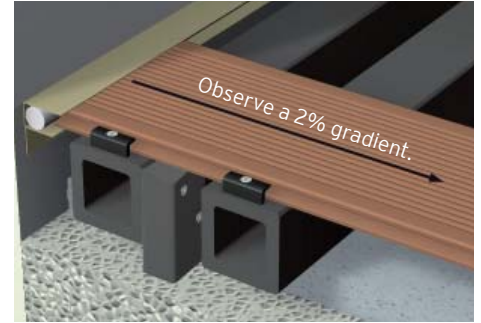
Step 5

Corner solution:

- » Only screw one securing block (60 x 40 mm construction beam) on the frontal sides.
- » Bevel the top side of the securing block in order to enable water to drain off.

Important

- » The clearance between the screwed on securing blocks on the frontal side and longitudinal side may not exceed 50 cm.



Step 6

- » Insert the barefootboard including foam profile into the aluminium profile.
- » Commence with the first board, offsetting it at 1 cm from the construction beam to ensure sufficient assembly space for the black edge clamp.

Important

- » Always observe a 2% gradient when dealing with closed decks in order to prevent puddles from forming on the surface.
- » A minimum clearance of 2 cm from fixed components must be observed if you do not use aluminium border profiles.



Step 7

- » Use stainless steel clamps for the board fastenings and screw these tightly to the construction beam using the supplied screws. Set the torque correctly in order to prevent shearing and over-tightening of the screw.
- » Insert a megawood® groove strip into each board groove without applying any tension (do not pull) and cut it off at each end of the floorboard with a protrusion of approx. 2 cm.
- » Flush or offset laying is possible (see step 5 entitled open deck).
- » Stainless steel clamps and expansion lead to technically-related swelling of the rubber groove strip.

Important

- » Do not brace, lash down or clamp megawood® barefootboards.
- » Do not expose the groove strip to direct sunlight when laying as this can result in increased thermal expansion. Avoid butt joints.

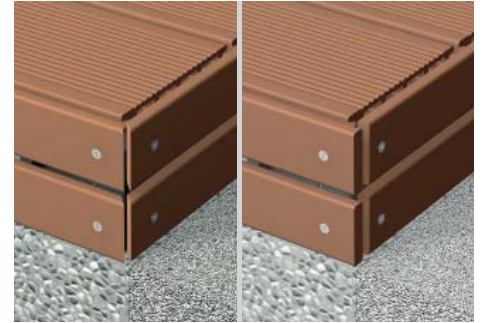


Step 8

- » Lay the last board with a 1 cm offset from the construction beam and fix in place using a black edge clamp.
- » Use two smooth edge boards as a surrounding terrace border and screw them onto the fixed securing block (60 x 40 mm construction beam) using 4 x 50 VA* screws.

Important

- » A fully ventilated sub construction from below requires a minimum clearance of 1.5 cm between the smooth edge boards and a circumferential clearance of 1 cm between the boards and the smooth edge board.



Step 9

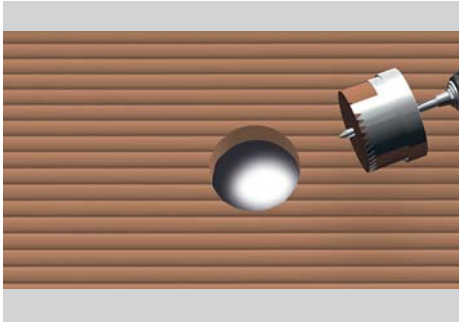
- » Smooth edge boards can either be mitre cut (see version in the left hand image) or can be butt-jointed (see version in the right hand image).
- » The butt joints between the smooth edge boards must have a minimum clearance of 1 cm.

Megalite LED floor spotlights

The megalite LED floor spotlights for outdoor use in „Mini“ (d=34 mm) and „Maxi“ (d=60 mm) sizes are the optical addition to the megawood® barefootboards. Both sizes are available in blue and warm white. The energy consumptions of 0.4 watts (Mini) and 0.9 watts (Maxi) are particularly economical. The LED lighting system is equipped with a dawn/dusk sensor and switches itself on and off automatically.



Step by step
construction video:
www.megawood.de

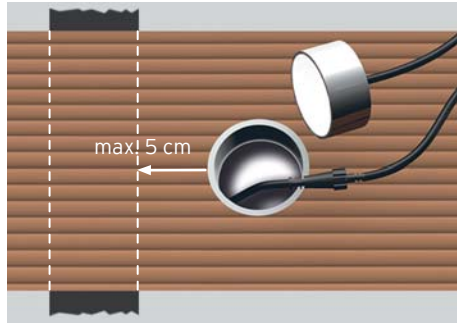


Step 1

- » Cut the lamp opening using a 37 mm hole cutter (Mini) / 64 mm hole cutter (Maxi).
- » Seal the securing ring using silicone suitable for outdoor use.

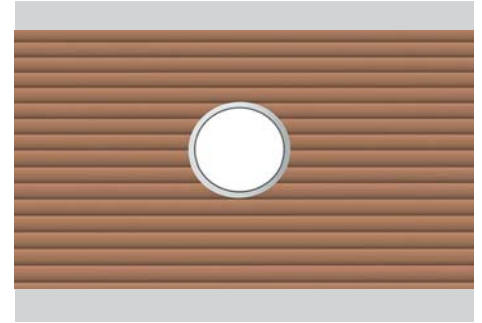
Important

- » Lay the cable connections so that they are easily accessible and stick into place using waterproof adhesive tape. Use a transformer (IP 68) when assembling underneath the deck.



Step 2

- » Install lamps at a max. distance of 5 cm from a construction beam. Lay an additional beam if necessary.



Technical Data

- » D: 34 mm (Mini)/60 mm (Maxi), H: 30 mm, V4A stainless steel
- » Output / voltage: 0,4 W (Mini) or 0,9 W (Maxi)/12 V DC
- » Illuminant / power cable: approx. 15 cm with IP 68 connector

Important

- » Observe the enclosed construction manual.

Care instructions

General cleaning and care instructions for megawood® barefootboards

The advantage of wood-polymer material surfaces is that they are low maintenance. However, the surfaces should still be cleaned occasionally as the environment and usage always leave their marks. The longer the boards are subjected to weathering, the greater the inclination to absorb visible stains as a natural patina is formed. No cleaning agents should be used for normal cleaning. Always remove the stain using a dry broom first. Should this be insufficient, wash the stains off using clear water (garden hose) and a brush. The same rule also applies here: first broom then water. You can use a high-pressure cleaner should thorough cleaning be necessary. When doing so, it is essential to select a low pressure, to keep an appropriate clearance between the nozzle and the terrace and that a moderate temperature is selected. Stains caused by fine dust such as soot and metal dust as well as paint and varnish stains should be avoided under all circumstances



Step by step
cleaning video:
www.megawood.de



Cleaning emulsion for megawood® barefootboards

megaclean is a highly effective, biologically degradable concentrate with an emulsion effect. The extremely fast deep acting water soluble degreasing product removes grease, oil, ink, coal, kerosene, soot and other stubborn stains. megaclean is only to be used at temperatures exceeding 15°C.

Alternatively:

Stains can also be removed with a wire brush. Due to the fact that the floorboards are completely coloured, the cleaned spot will be a little lighter to begin with but the colour will match the remaining surface once again within a few weeks.

Water stains

Water stains may form in the transitional area between the covered area and the uncovered area when dealing with partially roof-covered terraces. Rainwater is flushed over the terrace surface up to the point of the cover and dries off at a later point. Dust particles are briefly moistened, dry off at a later point and remain on the surface. This effect only slightly occurs on the uncovered area that is permanently exposed to sun and rain and is dependent upon the on-site conditions. This does not impair the quality and is therefore not deemed to be cause for complaint. The water stains can normally be removed using clear water and conventional cleaning devices. This effect lessens in time but cannot be entirely avoided.

Terrace System Product Range



Barefootboard PREMIUM solid

21 x 145 mm

L: 360, 420, 540 cm

Col.: basalt grey, natural brown, nut brown



Barefootboard PREMIUM solid

21 x 242 mm (Jumbo)

L: 360, 420, 540 cm

Col.: basalt grey, natural brown, nut brown



Barefootboard CLASSIC solid

21 x 145 mm

L: 300, 360, 420, 480, 540, 600 cm

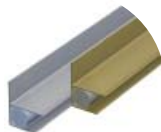
Col.: basalt grey, natural brown, nut brown



Smooth edge board

17 x 72 mm | L: 360 cm

Col.: basalt grey, natural brown, nut brown



Aluminium profile

21 / 25 mm | L: 400 cm

Col.: silver / bronze



Construction beam

40 x 60 mm | L: 360 cm



Sub construction fixing screw

7,5 x 92 mm incl. bit and 6.5mm SDS drill for construction beam 40 x 60 mm



Fixing clamp/edge clamp

incl. screws and bit



Groove strip

21 / 25 mm | L: 25, 100 m



Stainless steel clamp

for groove strip, incl. screws



Rubber pad

60 x 100 mm
thicknesses: 3, 10, 20 mm



megaclean cleaning emulsion

1 litre



megalite LED power plug

maxi/mini, 20 watts



megalite LED power plug safty Plus

for covered mounting IP 68, 10 watts



megalite LED floor spotlight mini

Colours: warm white / blue, Ø 34 mm



Barefootboard CLASSIC solid

25 x 145 mm

L: 300, 420, 540 cm

Col.: basalt grey, natural brown, nut brown



Barefootboard CLASSIC solid

21 x 242 mm (Jumbo)

L: 300, 360, 420, 480, 540, 600 cm

Col.: basalt grey, natural brown, nut brown



Barefootboard CLASSIC light

25 x 145 mm (hollow section)

L: 300, 360, 420, 480, 540, 600 cm

Col.: basalt grey, natural brown, nut brown



Construction beam

90 x 90 mm | L: 360 cm



Sub construction fixing screw

7,5 x 132 mm incl. bit and 6.5mm SDS
drill for construction beam 90 x 90 mm



Joining profile

61 x 50 mm | L: 300 cm

Col.: basalt grey, natural brown, nut brown



Compensation/bearing plate

150 x 150 mm

Thicknesses: 3, 5, 15 mm



Spacer

40 x 30 x 10 mm, incl. screws



Self-adhesive retaining band

L: 10 m (roll)



megalite LED floor spotlight maxi

Colours: warm white / blue, Ø 60 mm



megalite distributor

triple/5-fold



megalite connection cable

L: 1,5, 5, 10 m



Important

The manufacturer grants a 10 year warranty on the functionality of the megawood boards when used for the purpose intended in outdoor areas and provided that a professional carpentry company or tradesman has completely assembled the megawood barefootboards in accordance with the respectively valid megawood construction manual.

INFORMATION

All details refer to a construction executed in accordance with the construction manual and appropriate use in the event of exposure to outdoor weathering. Dimension tolerances are production-related. Articles marked with (*) are not included in delivery. Notification of obvious defects is to be provided prior to installation. This construction manual can be amended to take account of technical progress without prior notice.

The respective current version can be obtained from your specialist dealer as well as online at www.megawood.de.

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