

CONSTRUCTION PLAN

Thinking one step further

Outdoor living, outdoor is megawood.

megaplaner 3d
Planning software

Virtually create the terrace in your own garden via the app
Available as a download for tablets and smartphones

Planning principles

- The megawood® construction plan forms the basis for all of the laying variations! No warranty is provided in the event of deviations being made from the construction plan or should items be used other than original megawood® items!
- Lay the terrace floorboards in a longitudinal direction with an adequate gradient in order to ensure that water is always able to drain off from the deck, this being conform with the principles of structural wood preservation. An adherence to this results in you reducing deposits of organic substances, water stains and waterlogging.
- Applications that require building approval are to be provided with a statically sufficiently dimensioned, supporting and fall-through proof sub-structure as a support for megawood® barefoot-boards or substructures/construction planks.
- A min. gradient of 2% is recommended for deck superstructures with an open gap. A min. gradient of 2% is absolutely necessary for deck superstructures with a closed gap.
- Ensure adequate bottom and rear ventilation!
- Avoid waterlogging by using a drainage system that is adequately dimensioned!
- Ensure an unrestrained expansion of the terrace deck (min. distance of 2 cm between the floorboards and solid components)!
- Always pre-drill all holes so that the part that is to be fixed is 2 mm larger than the screw diameter and the retaining drill hole is 0.5 mm smaller than the screw diameter!
- All dimensions are to be checked on site!

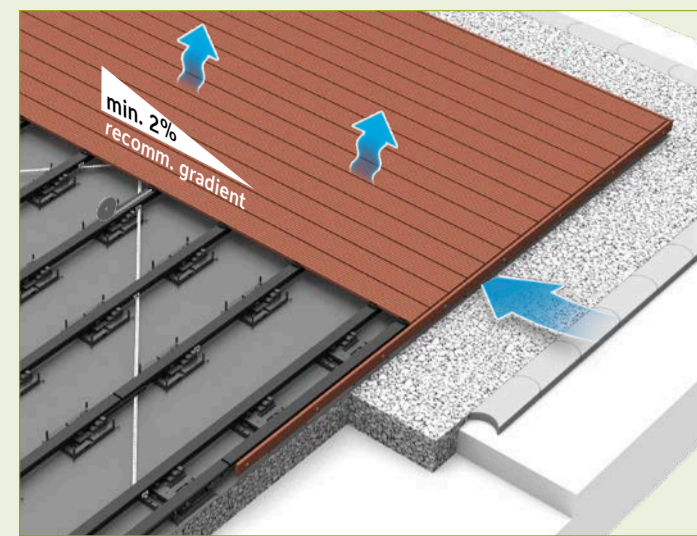
Preparation and sub-construction

- Prepare the circumferential soil formation 50 cm larger in size than the terrace deck and with a 4% gradient.
- Create a weight-bearing and frostproof gravel or crushed rock bed with a 2% incline and screed with fine gravel (level out any unevenness).
- Do not fill in any cavities between the construction beam, the concrete edge stone and the base of the Fix Step!
- Avoid soil contact! (Exception: items from the construction plank range!)
- Lay the substructure system in accordance with the construction plan!

Floorboard assembly

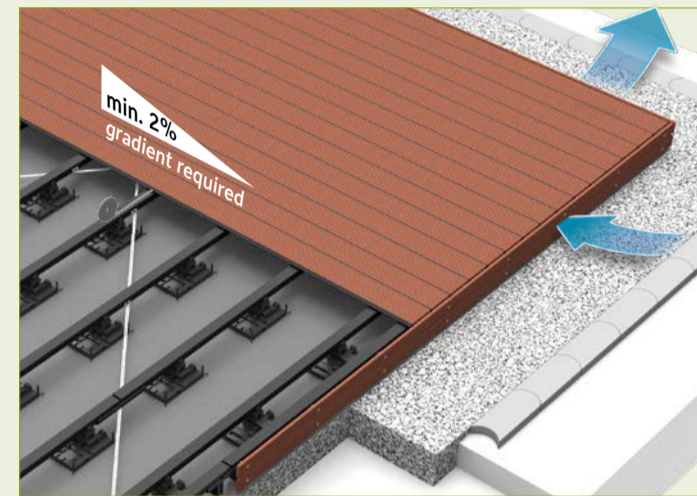
- Differences in the floorboards are intended and underline the natural wood look.
- Mix the floorboards before laying them in order to support the effect.
- Observe the laying direction (refer to the arrow in the floorboard groove or on the label)!
- Do not exceed the max. 5 cm floorboard protrusion over the sub-structure!
- Assembly and production-related dimension tolerances regarding the length, width and thickness are to be taken into account and checked!

FIX STEP basis sub-structure



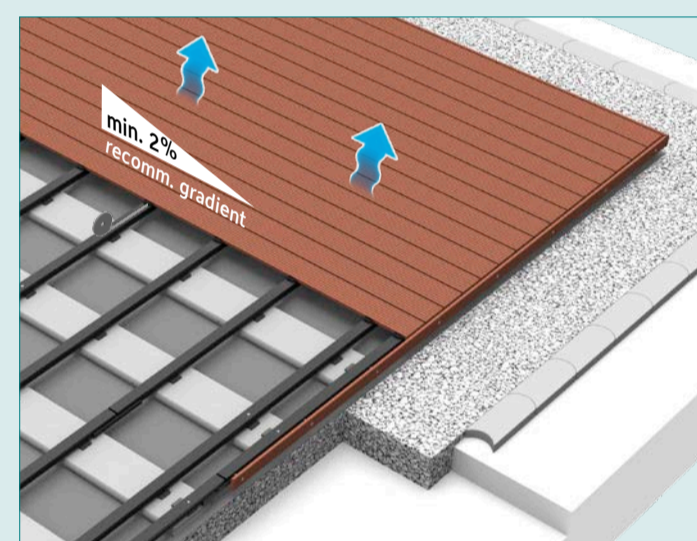
Open gap without groove strip

FIX STEP comfort sub-structure (raised)



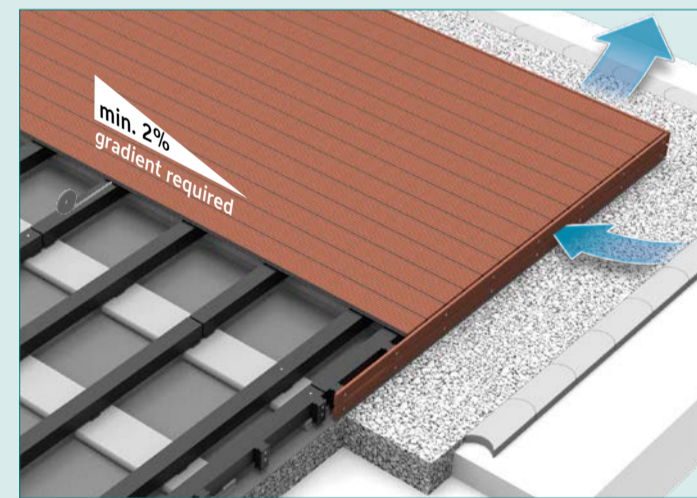
Closed gap with groove strip – raised construction ensures the required ventilation

Basis concrete edge stone sub-construction

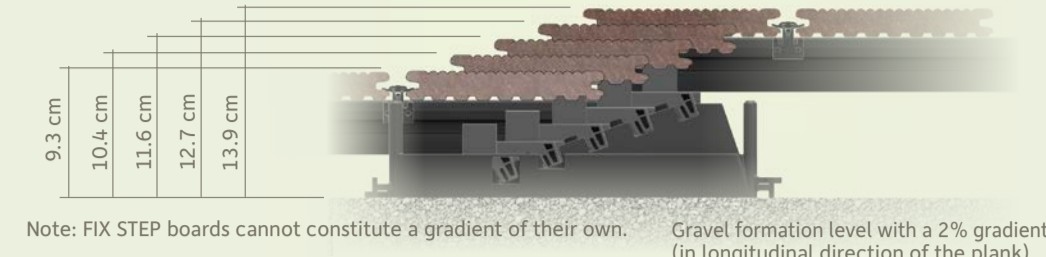


Open gap without groove strip

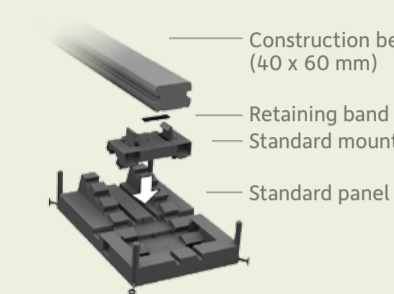
Raised concrete edge stone sub-construction



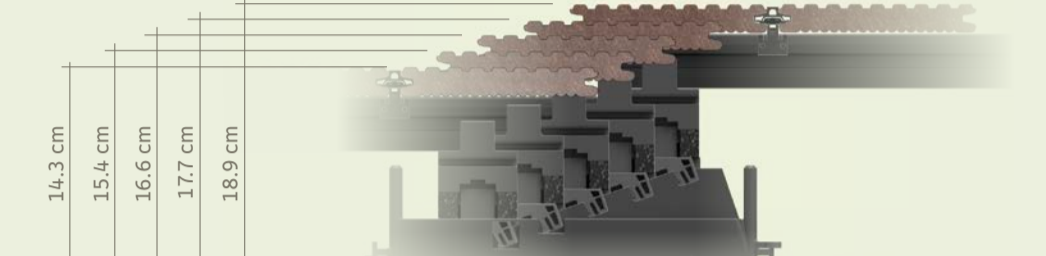
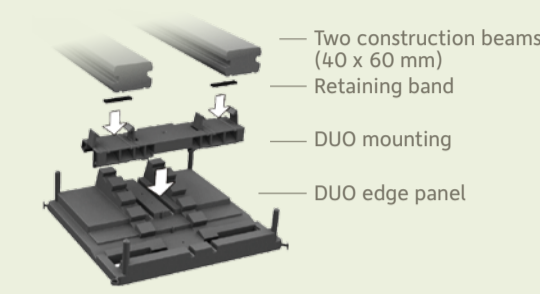
Closed gap with groove strip – raised construction ensures the required ventilation



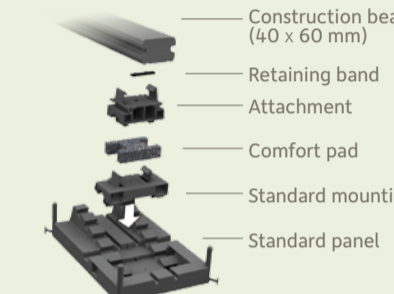
Standard panel



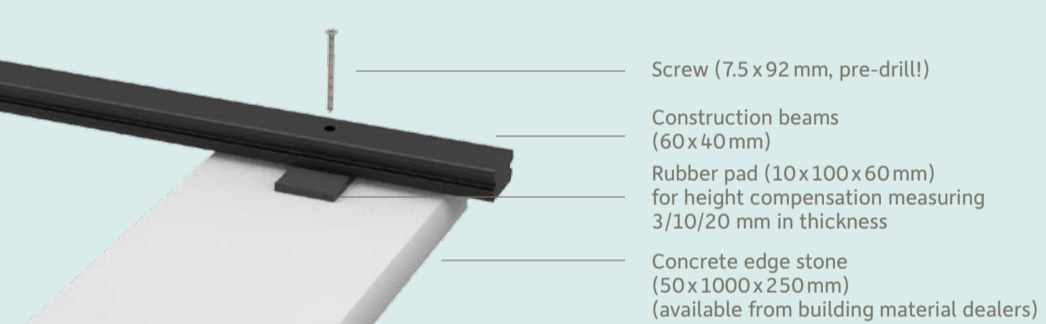
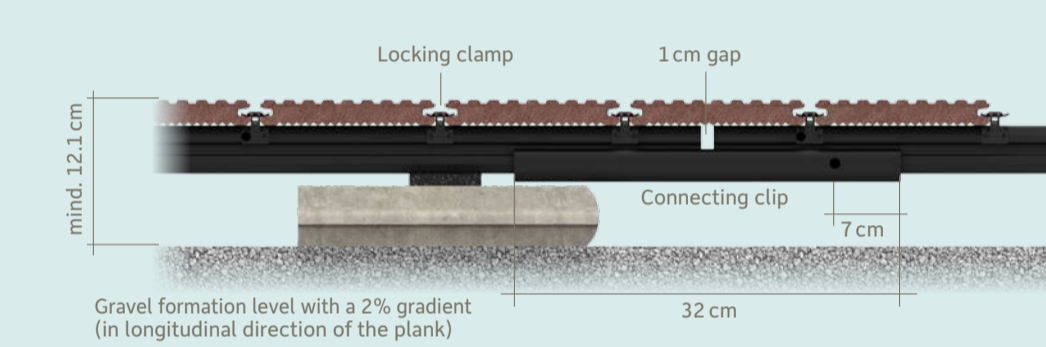
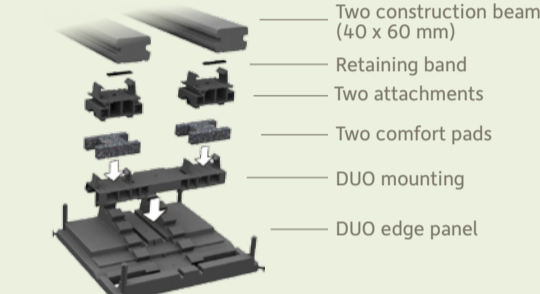
Edge panel



Standard panel



Edge panel



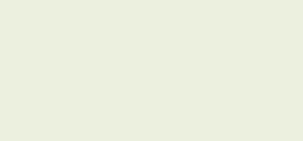
FIX STEP DUO EDGE PANEL 280x260x71 mm



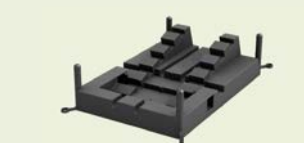
FIX STEP DUO EDGE MOUNTING 250x60x55 mm



FIX STEP ATTACHMENT 79x58x83 mm



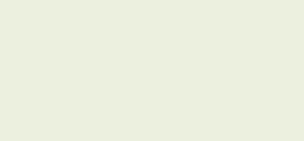
FIX STEP STANDARD PANEL 270x180x71 mm



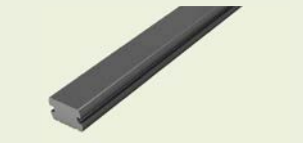
FIX STEP STANDARD MOUNTING 116x60x55 mm



FIX STEP COMFORT PAD for cushioning



CONSTRUCTION BEAMS 40x60 mm | L: 360 cm



CONNECTING CLIP for construction beams 28x76 mm | L: 360 cm



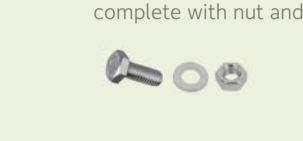
ASSEMBLY CLIP 78x40x20 mm, incl. screws



FIX STEP PERFORATED TAPE L: 10 m (on a roll)



M6 X 16 FASTENING SCREW for perforated tape, complete with nut and washer



GROOVE BRIDGE 55x8x10 mm, for fastening the locking clamp on a construction beam gap



RETAINING BAND L: 10 m (self-adhesive)



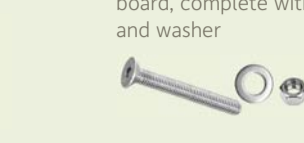
HOUSE CONNECTION PROFILE 21 mm | L: 400 cm silver/bronze/anthracite



FIX STEP RUBBER PAD 300x300 mm, thickness: 3/5/10 mm



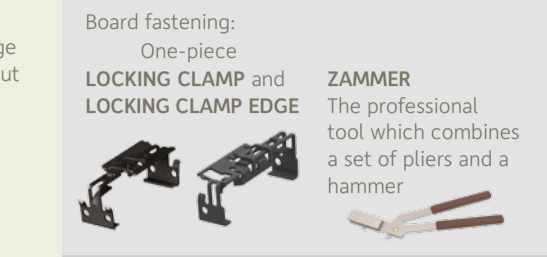
FASTENING SCREW M8 x 80 for smooth edge board, complete with nut and washer



SCREW SET 4 x 35 mm



SPACER assembly aid for setting the floorboard gaps (approx. 5 mm/ approx. 8 mm)



Board fastening: One-piece LOCKING CLAMP and LOCKING CLAMP EDGE

ZAMMER The professional tool which combines a set of pliers and a hammer

As an alternative to the locking clamp: SECURING CLAMP incl. screws (4 x 35 mm), Bit TX 20

EDGE CLAMP incl. screws (4 x 35 mm)

or: CLIP incl. screws (4 x 35 mm), Bit TX 20

EDGE CLIP incl. screws (4 x 35 mm)

GROOVE STRIP (on a roll) 21 mm | L: 25/100 m for closed gap

As an alternative to the locking clamp: CLIP incl. screws (4 x 35 mm), Bit TX 20

EDGE CLIP incl. screws (4 x 35 mm)

FIX STEP DUO EDGE PANEL 280x260x71 mm



FIX STEP DUO EDGE MOUNTING 250x60x55 mm



FIX STEP ATTACHMENT 79x58x83 mm



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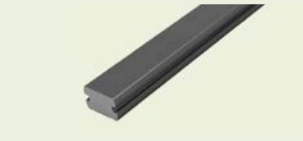
FIX STEP STANDARD MOUNTING 116x60x55 mm



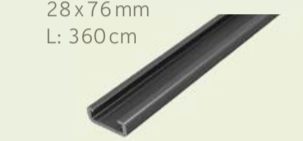
FIX STEP COMFORT PAD for cushioning



CONSTRUCTION BEAMS 40x60 mm | L: 360 cm



CONNECTING CLIP for construction beams 28x76 mm | L: 360 cm



ASSEMBLY CLIP 78x40x20 mm, incl. screws



FIX STEP PERFORATED TAPE L: 10 m (on a roll)



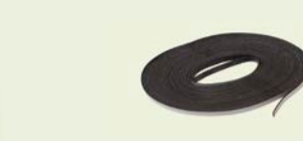
M6 X 16 FASTENING SCREW for perforated tape, complete with nut and washer



GROOVE BRIDGE 55x8x10 mm, for fastening the locking clamp on a construction beam gap



RETAINING BAND L: 10 m (self-adhesive)



HOUSE CONNECTION PROFILE 21 mm | L: 400 cm silver/bronze/anthracite



FIX STEP RUBBER PAD 300x300 mm, thickness: 3/5/10 mm



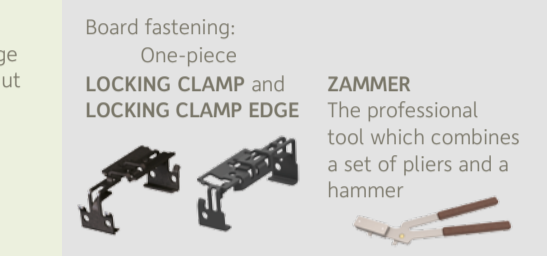
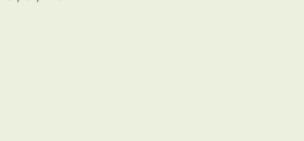
FASTENING SCREW M8 x 80 for smooth edge board, complete with nut and washer



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SPACER assembly aid for setting the floorboard gaps (approx. 5 mm/ approx. 8 mm)



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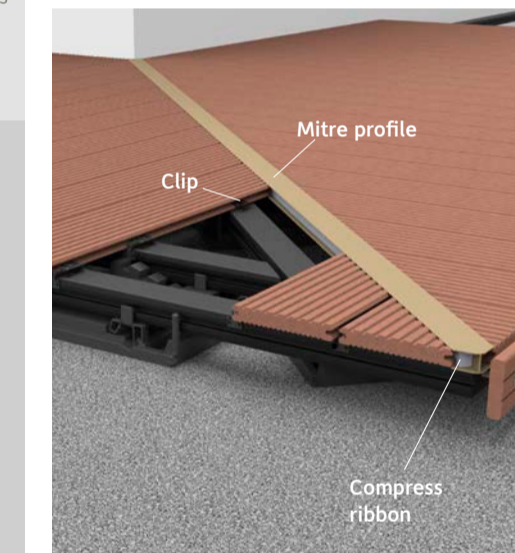
GROOVE STRIP (on a roll) 21 mm | L: 25/100 m for closed gap

As an alternative to the locking clamp: CLIP incl. screws (4 x 35 mm), Bit TX 20

EDGE CLIP incl. screws (4 x 35 mm)

Special features

Laying on mitres for L, U, O-shaped terraces



- Double sub-construction along the 45° section.
- Insert sealing tape into the mitre joint on both sides.
- Only push the floorboard into the mitre profile by 10 mm in order to ensure the expansion.

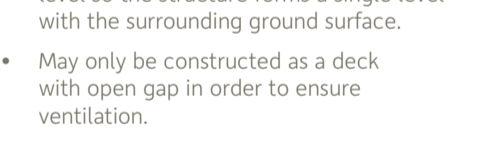
MITRE PROFILE Aluminium 21 mm | L: 400 cm



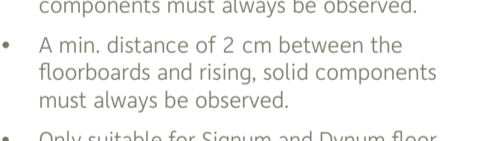
COMPRESS RIBBON expands up to 20 mm | L: 8 m (on a roll)



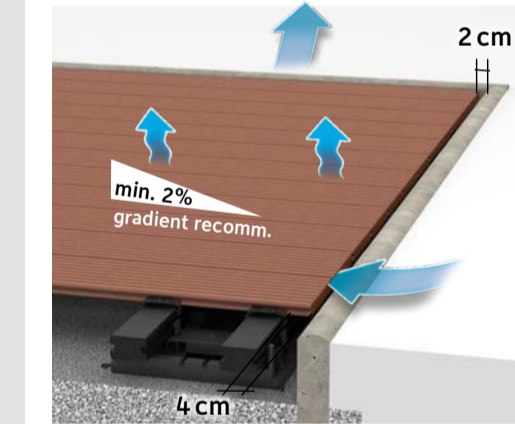
CLIP incl. screws (4 x 35 mm), Bit TX 20



EDGE CLIP incl. screws (4 x 35 mm)

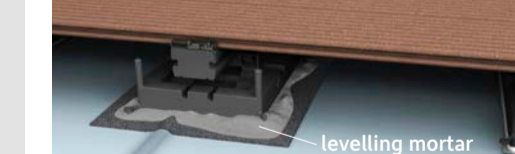


Construction at floor level



- The terrace deck is constructed at a deeper level so the structure forms a single level with the surrounding ground surface.
- May only be constructed as a deck with open gap in order to ensure ventilation.
- A min. distance of 4 cm between the construction beams and rising, solid components must always be observed.
- A min. distance of 2 cm between the floorboards and rising, solid components must always be observed.
- Only suitable for Signum and Dylum floor boards if an adequate bottom ventilation can be ensured.

Laying on roof terraces



- Height adjustment and the ensuring of a min. gradient of 2% by laying the FIX STEP boards in a bed of levelling mortar.

Deck covering



CLASSIC

Combination floorboard, reeded surface, grooved underside

BAREFOOTBOARD

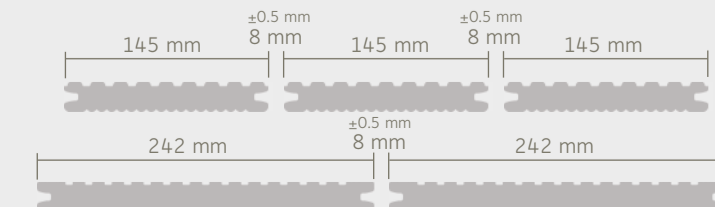
21 x 145 mm
L: 300/360/420/480/540/600 cm
21 x 242 mm (Jumbo)
L: 420/480/600 cm

SMOOTH EDGE BOARD

17 x 72 mm | L: 360 cm

COLOURS

NATURAL BROWN
NUT BROWN
BASALT GREY
LAVA BROWN
SLATE GREY



SIGNUM

Single-sided, textured, polished surface, 5 mm gap

BAREFOOTBOARD

21 x 145 mm
L: 300/360/420/480/540/600 cm
21 x 242 mm (Jumbo)
L: 300/360/420/480/540/600 cm

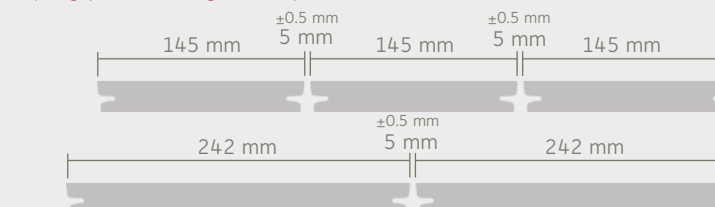
SMOOTH EDGE BOARD

17 x 72 mm | L: 360 cm

COLOURS

MUSKAT
TONKA

Due to its narrow 5 mm gap pattern, the Signum floorboard is exclusively laid as a deck with open gap and without groove strip.



PREMIUM

Textured-planed, surface, brushed underside

BAREFOOTBOARD

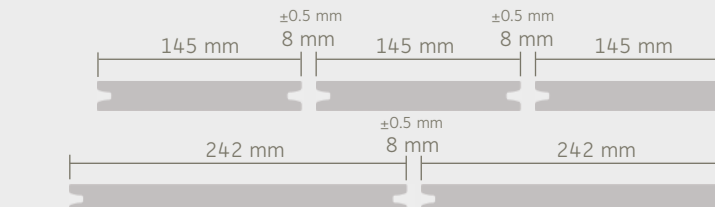
21 x 145 mm
L: 300/360/420/480/540/600 cm
21 x 242 mm (Jumbo)
L: 420/480/600 cm

SMOOTH EDGE BOARD

17 x 72 mm | L: 360 cm

COLOURS

NATURAL BROWN
NUT BROWN
BASALT GREY



PREMIUM PLUS

Textured-planed, surface, brushed underside

BAREFOOTBOARD

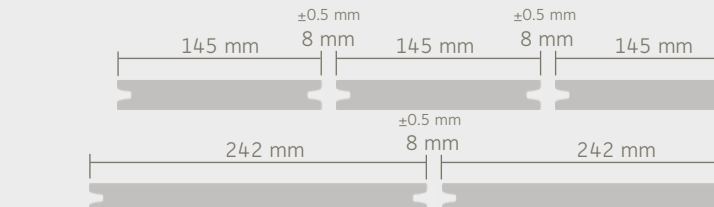
21 x 145 mm
L: 300/360/420/480/540/600 cm
21 x 242 mm (Jumbo)
L: 300/360/420/480/540/600 cm

SMOOTH EDGE BOARD

17 x 72 mm | L: 360 cm

COLOURS

LAVA BROWN
SLATE GREY



DYNUM

Textured on one side, oscillating brushed surface, 5 mm gap

BAREFOOTBOARD

21 x 242 mm (Jumbo)
L: 360/420/480/540/600 cm
25 x 293 mm
L: 360/420/480/540/600 cm

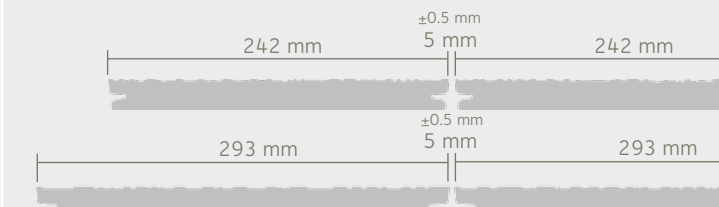
SMOOTH EDGE BOARD

17 x 72 mm | L: 360 cm

COLOURS

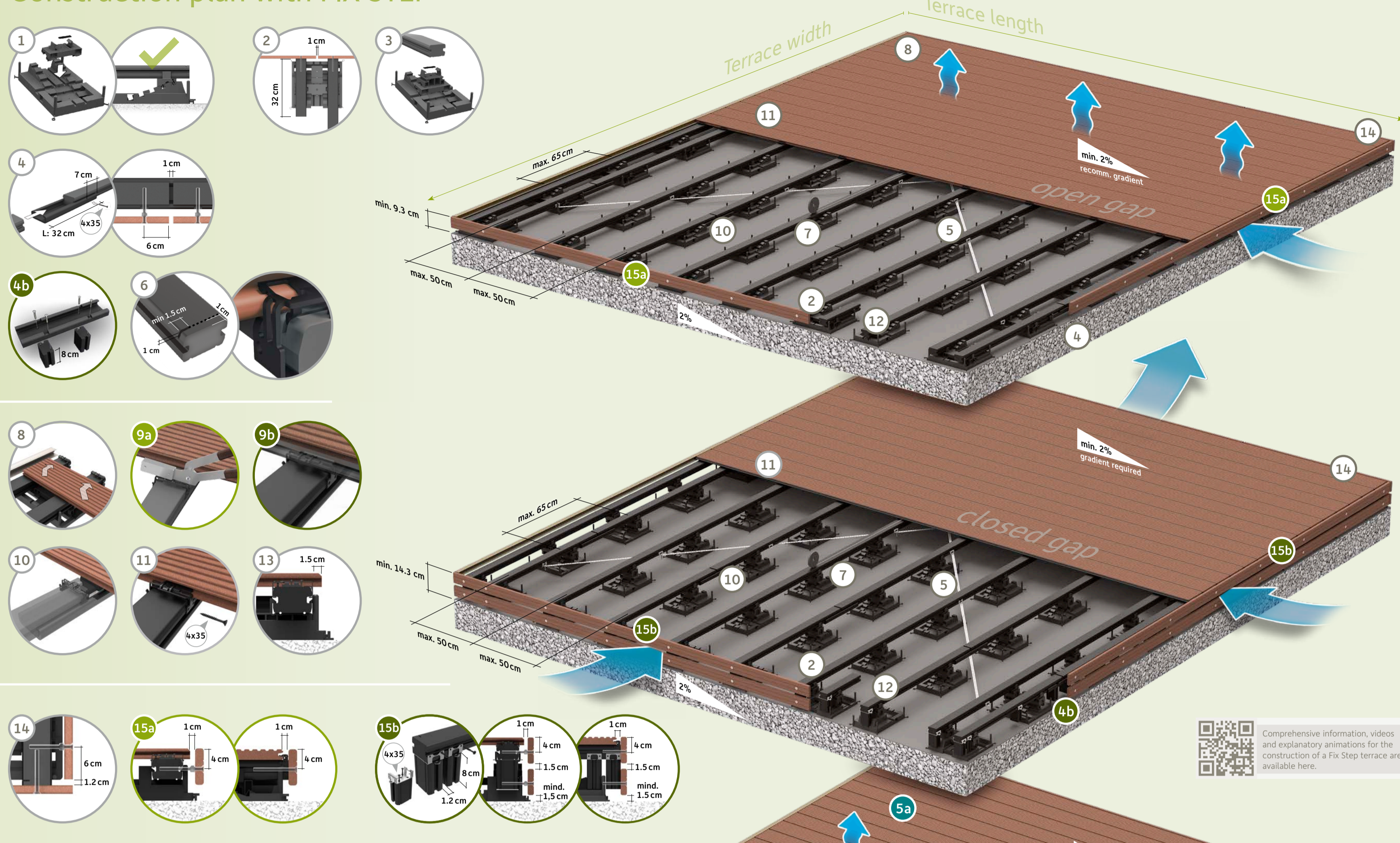
CARDAMOM
NIGELLA

Due to its narrow 5 mm gap pattern, the Dylum floorboard is exclusively laid as a deck with open gap and without groove strip.



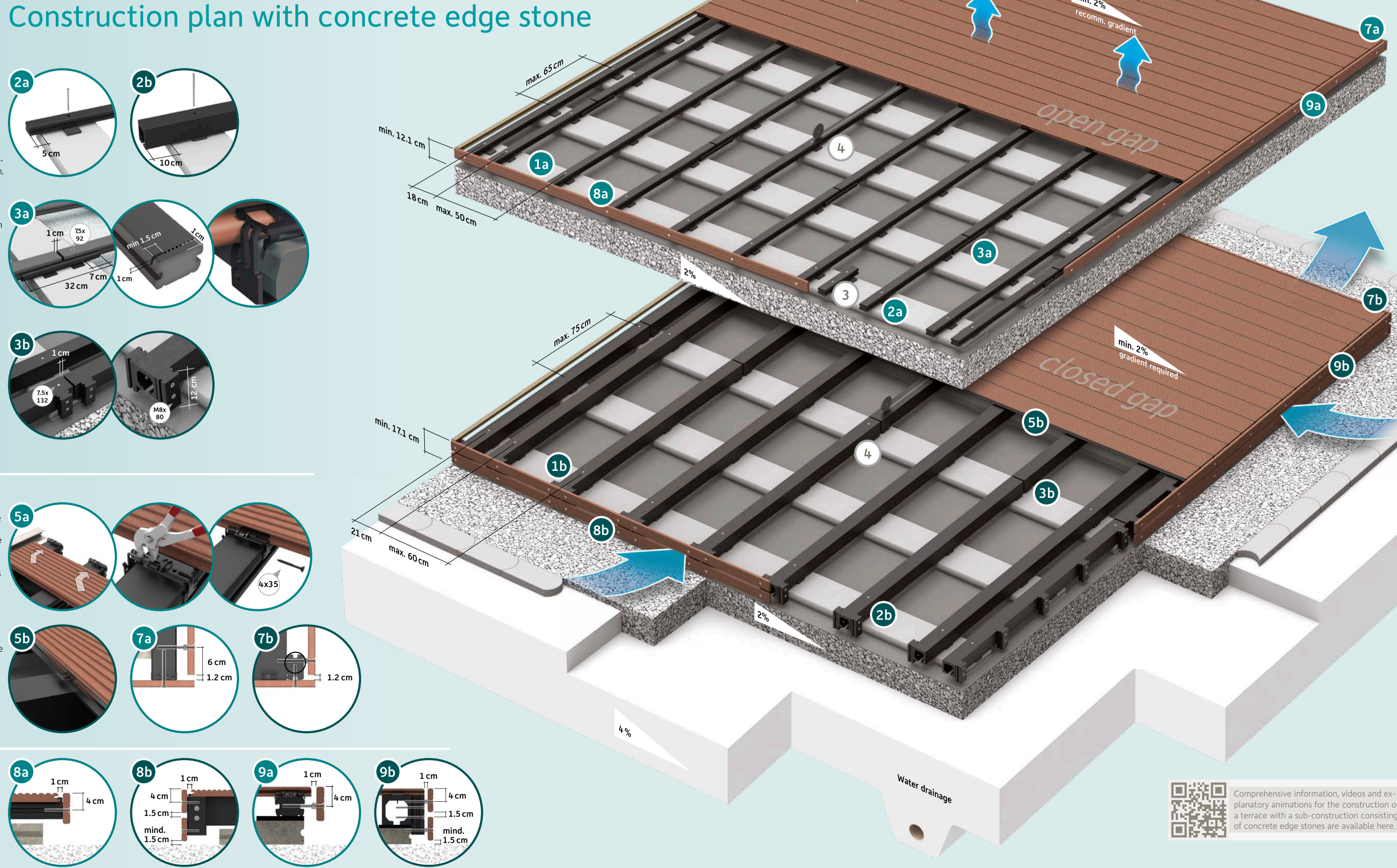
Construction plan with FIX STEP

- SUB-CONSTRUCTION**
- Attach the Fix Step fixtures centrally using a strip of retaining band, click into the panels and position, ensure the height adjustment is identical. Position the FIX STEP DUO edge panels at the start of the terrace, distribute the FIX STEP standard fixtures in a parallel manner – pay attention to distances. Position further FIX STEP DUO edge panels at the end of the terrace. If required, turn the external FIX STEP panels in order to prevent a protrusion of the construction beams.
 - In the event of terrace lengths above 360 cm, position FIX STEP DUO smooth edge boards in the area of the smooth edge board butt joint.
 - With the smooth side facing upwards, click the construction beams (40x60 mm) into the FIX STEP fixtures.
 - If the terrace width is greater than 360 cm, always arrange the construction beam joints in an offset manner. Cut the connecting clip to 32 cm, connect the beam joints with this clip and then tightly screw on one side. Position the smooth edge boards and construction beam joints in the same location. Recess the connecting clip measuring 2 cm in width and 1 cm in depth in order to assemble the smooth edge board in the area of the screw connection at a later date. **Align the construction beams exactly.**
- FLOORBOARD ASSEMBLY**
- CLOSED GAP**
In the event of a double smooth edge board, assemble construction beam units measuring 8 cm in length on to each connecting clip using screws.
 - Position perforated tape beneath the construction beams and screw on to all construction beams using an assembly clip.
 - Saw into the construction beam, lock the locking clamp edge in the groove.
 - Adhere the retaining band to the construction beam located centrally beneath the floorboards.
- SMOOTH EDGE BOARDS**
- Insert the first floorboard into the house connection profile (optional) and then push into the positioned edge clamps.
 - OPEN GAP**
Place the locking clamps on the construction beam, lock in place with the zammer/pliers. Place the groove strip on to the fully assembled locking clamp and, together, push into the floorboard groove. Apply the next floorboard, use a spacer if necessary.
 - CLOSED GAP**
Place the locking clamps on the construction beam and lock in place with the zammer/pliers. Place the groove strip on to the fully assembled locking clamp and, together, push into the floorboard groove.
 - If there is a groove in the construction beam, it may be necessary to use a groove bridge in order to also be able to securely fasten the locking clamp in the gap area.
 - Take intermediate measurements after max. 1 m of laid floorboard rows and screw the corresponding locking clamp row onto the construction beam.
 - Cut the construction beams to size and ensure they are flush – repeat Step 6.
 - Cut the frontal side of the floorboards to size with a 1.5 cm protrusion, chamfer the cutting edge.
 - The frontal side of the smooth edge boards must be 1.2 cm shorter than the construction beams at the end of the terrace – pay attention to distances.
 - OPEN GAP**
Frontal side and longitudinal side assembly of the smooth edge boards.
 - CLOSED GAP**
Assemble construction beam units measuring 8 cm in length complete with assembly clip at the start and end of each construction beam. Screw double pieces on to the terrace corners using two assembly clips, indent the DUO panel where necessary. Frontal side and longitudinal side assembly of the smooth edge boards.



Construction plan with concrete edge stone

- SUB-CONSTRUCTION**
- OPEN GAP**
Lay concrete edge stones (100x25x5 cm) at a centre distance of 65 cm on the gravel bed with gradient, turn the frontal side inwards by 5 cm in the direction of the construction beams.
 - CLOSED GAP**
Lay concrete edge stones (100x25x5 cm) at a centre distance of 75 cm on the gravel bed with gradient, turn the frontal side inwards by 10 cm in the direction of the construction beams.
- FLOORBOARD ASSEMBLY**
- OPEN GAP**
Evenly distribute the construction beams (40x60 mm) transversely to the concrete edge stones, pay attention to a 5 cm protrusion.
 - CLOSED GAP**
Evenly distribute the construction beams (90x90mm) transversely to the concrete edge stones (groove at the bottom), pay attention to a 10 cm protrusion. Arrange two beams respectively at the start and the end. Lay 10 mm rubber pads beneath the construction beams, compensate for possible gradient differences using further rubber pads.
 - In the event of a terrace width greater than 360 cm, always arrange the construction beam joints in an offset manner (distance of 1 cm). In the event of the terrace being longer than 360 cm, mount additional construction plank pieces in the butt joints of the smooth edge boards.
 - OPEN GAP**
Cut the connecting clip to 32 cm, connect the beam joints with this clip and then tightly screw on one side. Screw the ends of the construction beams throughout the entire edge area. Screw the two outer as well as the central construction beams with every second concrete edge stone. Cut the construction beams to size, ensuring they are flush. Saw into the construction beam, lock the locking clamp edge in the groove.
 - CLOSED GAP**
Align the construction beams, screw the sub-construction in the edge area as well as both start and end beams to the middle beam. Cut the construction beams to size, ensuring they are flush, 10 cm protrusion. The 12 cm long construction beams measuring 60x40 cm are placed upright and then fastened to the ends of the construction beams on the left and right hand sides. Adhere the retaining band to the construction beam located centrally beneath the floorboards.
- SMOOTH EDGE BOARDS**
- OPEN GAP**
Insert the first floorboard in the house connection profile (optional), then press it into the positioned edge clamps. Place the locking clamps on the construction beam, lock in place using the zammer/pliers, insert into the floorboard groove. If there is a groove in the construction beam, it may be necessary to use a groove bridge in order to also be able to securely fasten the locking-clamp in the gap area. Take intermediate measurements after max. 1 m of laid floorboard rows and screw the corresponding locking clamp row onto the construction beam. Repeat until you reach the last floorboard but one.
 - CLOSED GAP**
Screw the edge clip onto the end of the construction beam so that it is flush with it. Following assembly of the first floorboards, push the house connection profile as a border strip to the house facade to the end of the floorboard (optional). Fix the floorboards with a clip. Tighten the screw in such a manner that the clip is parallel to the sub-construction. Loosely insert the groove strip into the floorboard groove, apply the next floorboard, push on to the groove strip, fix the floorboard using the clip. Repeat the process until the terrace is fully laid. Cut the floorboards to size in the edge area facing the construction beams, chamfer the cutting edge. See Figures 8a and 8b.
 - The frontal side of the smooth edge boards must be 1.2 cm shorter than the construction beams at the end of the terrace – pay attention to distances.
 - Circumferentially fasten smooth edge boards to the sub-construction. On the frontal side, screw the smooth edge board to the sub-construction beams.
 - Screw every 50 cm in a parallel manner along the construction beams, apply spacer screws between the smooth edge board and the construction beam.



LIMES Fencing System and Construction Wood Range

LIMES FENCING SYSTEM

POSTS
ROUND | SQUARE | OCTAGONAL | OVAL
Ø 90 mm | 90 x 90 mm | 90 x 90 mm | 90 x 60 mm
L: 220 | 270 cm

WAVY PANEL
270 x 35 mm
L: 160.2 | 210 cm

SMOOTH PANEL
239 x 6 mm
L: 158.4 | 210 cm

CONNECTING SPACER
38 x 30 mm
L: 156.6 | 178.6 | 190 cm

TRANSOM
40 x 112 mm
90 x 60 mm
L: 178.6 cm

CONSTRUCTION WOOD
CONSTRUCTION WOOD
ROUND | SQUARE | OCTAGONAL | OVAL
Ø 90 mm | 90 x 90 mm | 90 x 90 mm | 90 x 60 mm
L: 360 cm

CONSTRUCTION PLANK
40x112 mm | L: 360 cm
40x145 mm | L: 420 cm

COLOURS: NUT BROWN, BASALT GREY, SLATE GREY, SEL GRIS, NATURAL BROWN, LAVA BROWN, GINGER, BAY LEAF

Comprehensive information, videos and explanatory animations for the construction of a Fix Step terrace are available here.

megalite LED floor spotlights

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

REQUIRED PRODUCTS

- „Maxi“ LED floor spotlight Ø 60 mm; H: 30 mm; V4x stainless steel
Light colour: Warm white
Output/voltage: 0.9 W/12 V DC
Power cable: Approx. 15 cm with IP 68 connector
- „Mini“ LED floor spotlight Ø 34 mm; H: 30 mm; V4x stainless steel
Light colour: Warm white
Output/voltage: 0.4 W/12 V DC
Power cable: Approx. 15 cm with IP 68 connector

Discover the diverse application opportunities of the construction plank here.

Colour maturation

NATURAL BROWN, NUT BROWN, BASALT GREY, LAVA BROWN, SLATE GREY, MUSKAT, TONKA, CARDAMOM, NIGELLA

Care and cleaning

Care instructions

A min. 2 % gradient makes care and cleaning easier. If the gradient is not observed, this may lead to the formation of water stains and organic substances are then able to settle and a higher degree of soiling is then probable. We recommend cleaning the terrace at least twice per year at temperatures of at least 15° C and to proceed as follows:

- Brush dry, loose dirt from the terrace deck.
- Sufficiently water the entire terrace deck.
- Allow the water to take effect for at least 15 minutes.
- Clean the terrace deck using water, a stiff brush or a scrubber and thoroughly rinse.

Stubborn stains such as soot, coal and grease can be removed using megaclean. Apply diluted megaclean to the pre-watered deck and rub in using a brush. Allow the megaclean to take effect until it foams, then scrub away and thoroughly rinse. The ideal megaclean effect occurs at outdoor temperatures of 20° C and above.

Water stains may form in the transitional area between covered and uncovered areas as a result of precipitation and environmentally-related dust particles. These stains can generally be removed using water and a scrubber and do not represent cause for complaint. The effect of the water stains lessens in time but cannot be entirely avoided.

You will find additional care instructions in the terrace pass in the download area of our website: www.megawood.com/service/downloads

Learn more about the care and cleaning of our products.

Terrace pass and megawood® coaster

Fibre inclusions

For raw material reasons, small inclusions of natural fibres may occur. After being subjected to weathering, they may rise to the surface as a result of water absorption. A maximum amount of 0.03% of the surface may be affected. The particle size may not exceed 0.5 cm².

The majority of the particles will disappear over time as a result of terrace use. They can also be mechanically removed. The product will not be damaged as a result. Based upon the EPLF (European Producers of Laminate Flooring), the particles that are visible from standing eye-level under vertical incidence of light are used for assessment purposes.

Natural fibre inclusion prior to treatment
Natural fibre inclusion following mechanical treatment