The new torroTIMBER®
decking system

www.torrotimber.com

torro TIMBER®
MADE IN GERMANY

Copied from nature

Multi-coloured flow lines – the torroTIMBER® DOLOMIT

DOLOMIT 16 x 193 mm, structured, grey

DOLOMIT 16 x 193 mm, structured, brown

torroTIMBER® DOLOMIT

The torroTIMBER® DOLOMIT terrace deckboard manages to impress with its unparalleled interplay of colour. The dimensions of the 193 mm deckboards and the 5 mm gap ensure the entire deck becomes a harmonious unit. With a wood fibre percentage of up to 75%, the wood material is not only highlighted it can also be experienced. Available in brown and grey, the DOLOMIT is sure to fit seamlessly into your garden.

Soft sea waves

Oscillating structures on the torroTIMBER® GLACIER

GLACIER 16 x 193 mm, structured, graphite

GLACIER 16 x 193 mm, structured, terra brown

torroTIMBER® GLACIER

The torroTIMBER® GLACIER deckboard boasts a special surface with dynamically-oscillating structures. The soft waves give this deckboard its pronounced wooden character. Naturally, we provide structure with a random and natural aspect to ensure that no two boards look alike. The deckboard measuring 193 mm in width is available in terra brown and graphite.

Recommended by architects

Classical trend deckboard – the torroTIMBER® TREND

TREND 16 x 163 mm, finely-riffled, terra brown

TREND 16 x 163 mm, finely-riffled, graphite

torroTIMBER® TREND

Architects, designers and developers all agree: This deckboard goes with everything! Whether a cubist city dwelling, a modern balcony or a Mediterranean garden, this deckboard is always suitable! The grooved or riffled structure of the TREND deckboard ideally unites depth and width. Creative according to the rules of the golden ratio, it is both functional and impressive. Available in two widths and in two colours: Terra brown and graphite.

torroTIMBER® deckboards

// DOLOMIT

Deckboard 16 x 193 mm
Surface: Structured, polished
Colours: Brown and grey
Lengths: 300 cm and 400 cm
Gap width: 5 mm (±0.5 mm)

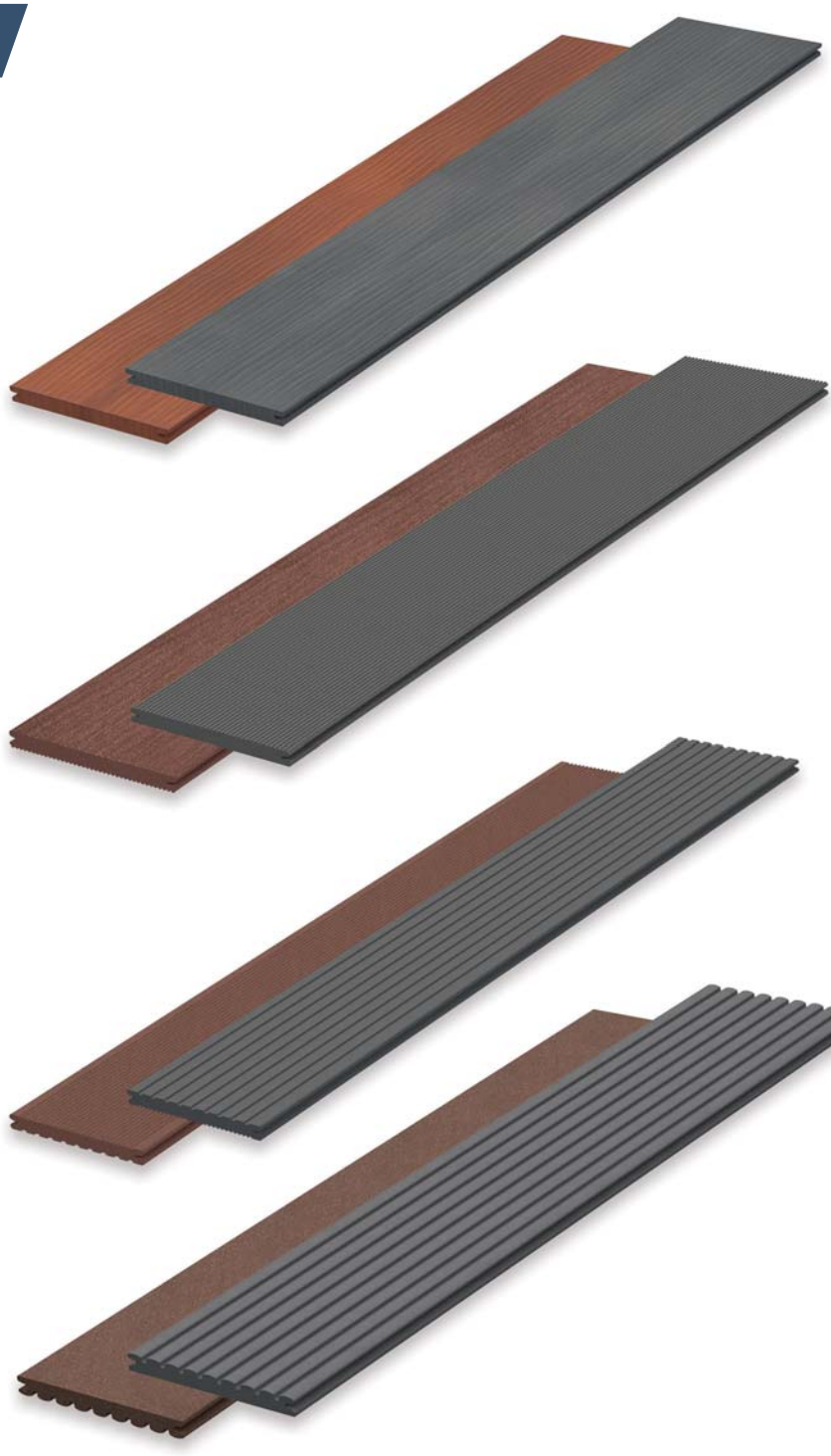
// GLACIER

Deckboard 16 x 193 mm
Surface: Structured and finely-riffled
Colours: Terra brown and graphite
Lengths: 300 cm and 400 cm
Gap width: 8 mm (±0.5 mm)

// TREND

Deckboard 16 x 163 mm
Surface: Finely-riffled and grooved
Colours: Terra brown and graphite
Lengths: 300 cm and 400 cm
Gap width: 8 mm (±0.5 mm)

Deckboard 19 x 193 mm
Surface: Smooth and grooved
Colours: Terra brown and graphite
Lengths: 400 cm
Gap width: 8 mm (±0.5 mm)



torroTIMBER® colours


Terra brown


Graphite


Brown


Grey

// All wood comes from sustainable forests PEFC certified
// No PVC
// Extremely resistant against fungi and insects
// High level of surface hardness
// Slipresistant — brushed surface
// No risk of injury caused by splinters
// Imbued
// Colour-resistant — no greying caused by UV-radiation
// Solid deckboard — no hollow sections
// Unbelievably thin — astoundingly resilient

The new torroTIMBER® range unites an attractive design, warm natural tones, the advantages of GCC with an intelligent sub-construction system to create a sustainable and durable deck. GCC-German Compact Composite is a PVC-free wood material manufactured in Germany. Environmentally-friendly binding agents and additives are combined with wood fibres in a patented production process. GCC is even approved for the manufacture of children's toys. Thanks to the high percentage of natural fibres (up to 75%), GCC manages to achieve a remarkable surface hardness and a low thermal expansion.

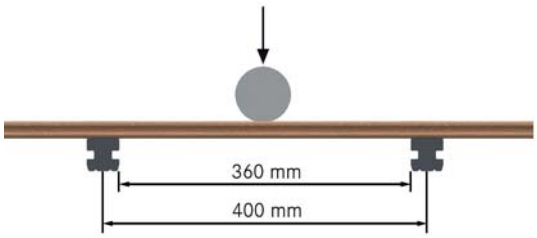
Laying direction

Lay all of the deckboards in the same direction in order to obtain a homogenous surface effect. This is shown by an arrow in each of the deckboard grooves. Mix the floorboards before laying them. This ensures that the slight colour deviations on the deckboards emphasise the wood look.

Technical information

Mechanical characteristics of the deckboards

Three-point bending
Support clearance: 360 mm
Test speed: 20 mm/min
Breaking load: 3,200N*



* 3,200 N corresponds to ≈ 320kg/board at a sub-construction centre to centre distance of 40 cm.

Production-related dimension tolerances of the torroTIMBER® deckboards.

	Specification	Tolerance field
Profile length	300 cm, 400 cm	± 0.0 / + 20.0 mm
Profile width	163 mm, 193 mm	– 2.0 / + 1.0 mm
Profile thickness	16 mm, 19 mm	– 1.0 / + 1.0 mm

Permitted dimensional changes following water absorption in the event of exposure to outdoor weathering and construction executed in accordance with the construction manual.

Dimension	Measuring point	Permitted dimension change Guaranteed values		Comment
Length	Maximum value	Board length 300 cm Board length 400 cm	≤ 9,0 mm ≤ 12,0 mm ≤ 3 mm/m	Minimum 2 cm distance to fixed components
Width	Centre board		≤ 2 mm	7.0 mm distance present via clamp
Thickness	Centre board		≤ 1,5 mm	

Colour development

* Example illustrations of the natural colour maturation

torroTIMBER® ConStep

We offer you simple handling and fast laying with the new torroTIMBER® ConStep system. Time-consuming preparation work tasks such as pre-drilling in concrete are now a thing of the past. Thanks to the low weight of the system components and the variable height adjustment, it is easy to implement special construction designs such as roof terraces. The connecting strip also offers the advantage of being able to lay terraces larger than 12 x 12 m without the need for an expansion joint.

Article overview

ConStep
mounting plate

ConStep
double mount

ConStep
single mount

ConStep
assembly clip

Perforated
tape

Construction
beams

Connecting
clip

Locking clamp
(two-part)

Edge clamp
(two-part)

Clip & and edge clip
incl. screws

Fastening screw
for connection profile
10 pcs. / pack

ConStep rubber pad
300 x 200 x 10 mm
x 5 mm
x 3 mm

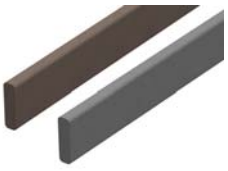
Rubber pad
100 x 60 x 20 mm
x 10 mm
x 3 mm

Fastening screw
for sub-construction
7.5 x 92 mm

Self-adhesive
retaining band

Groove bridge

Connection profile
planed, polished
brown, grey
17 x 60 mm

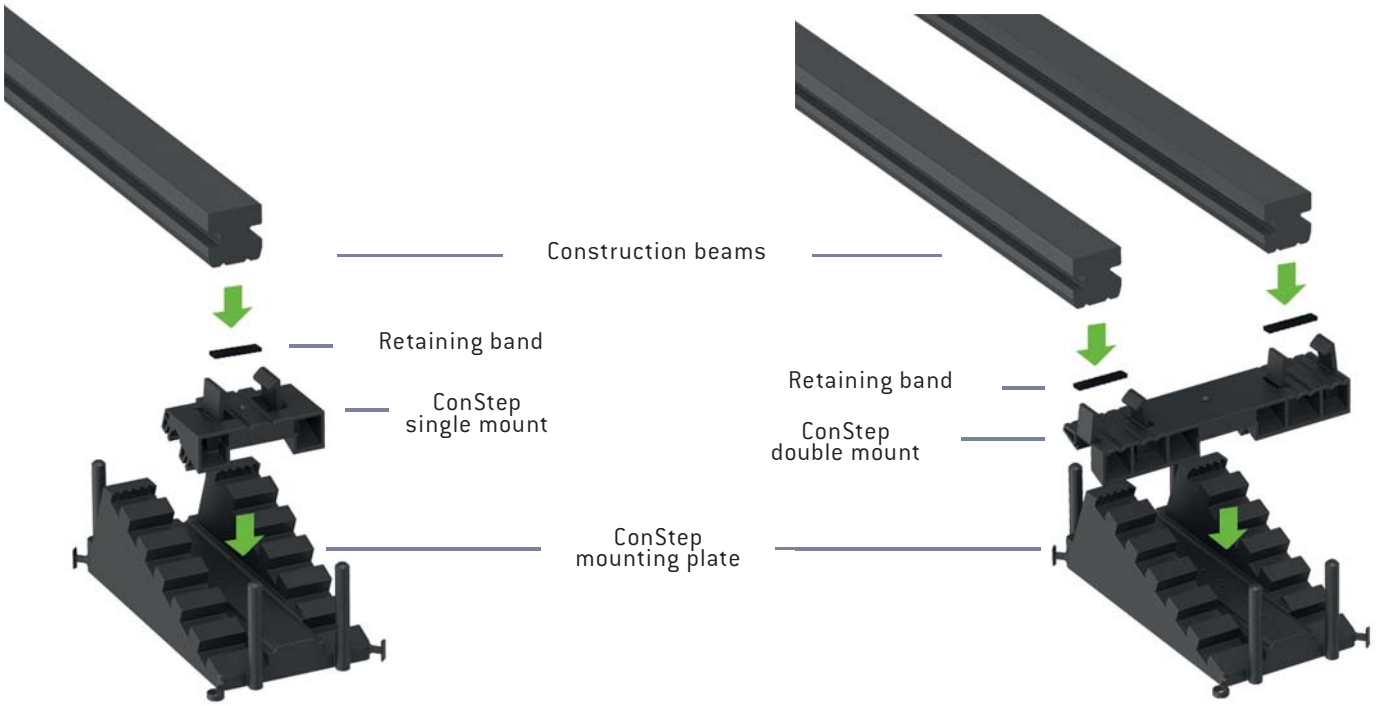


Connection profile
terra brown, graphite
17 x 60 mm

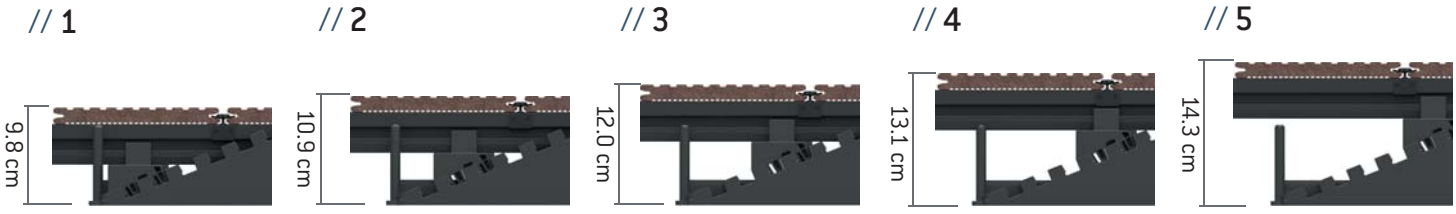
Planning principles for all construction designs

Avoid contact between the construction elements and the ground. Ensure that the subsoil is firm and has a good bearing capacity. Only use torroTIMBER® construction beams. In principle, pre-drill all holes in such a manner that the part to be fixed is 2 mm larger than the screw diameter and the retaining drill hole is 1 mm smaller than the screw diameter. Observe the minimum clearances of the expansion joints so that the construction can expand without force if necessary. Do not lash down or brace the terrace during construction. The distance between the deckboard and all fixed components must be 2 cm. Ensure a sufficient amount of ventilation from underneath by observing the gaps. Do not fill the cavities between the gravel formation and the sub-construction elements. The maximum deckboard protrusion over the last sub-construction may not exceed 5 cm. Production-related dimension tolerances regarding length, width and thickness are to be taken into account during assembly. All dimensions must be examined on the construction.

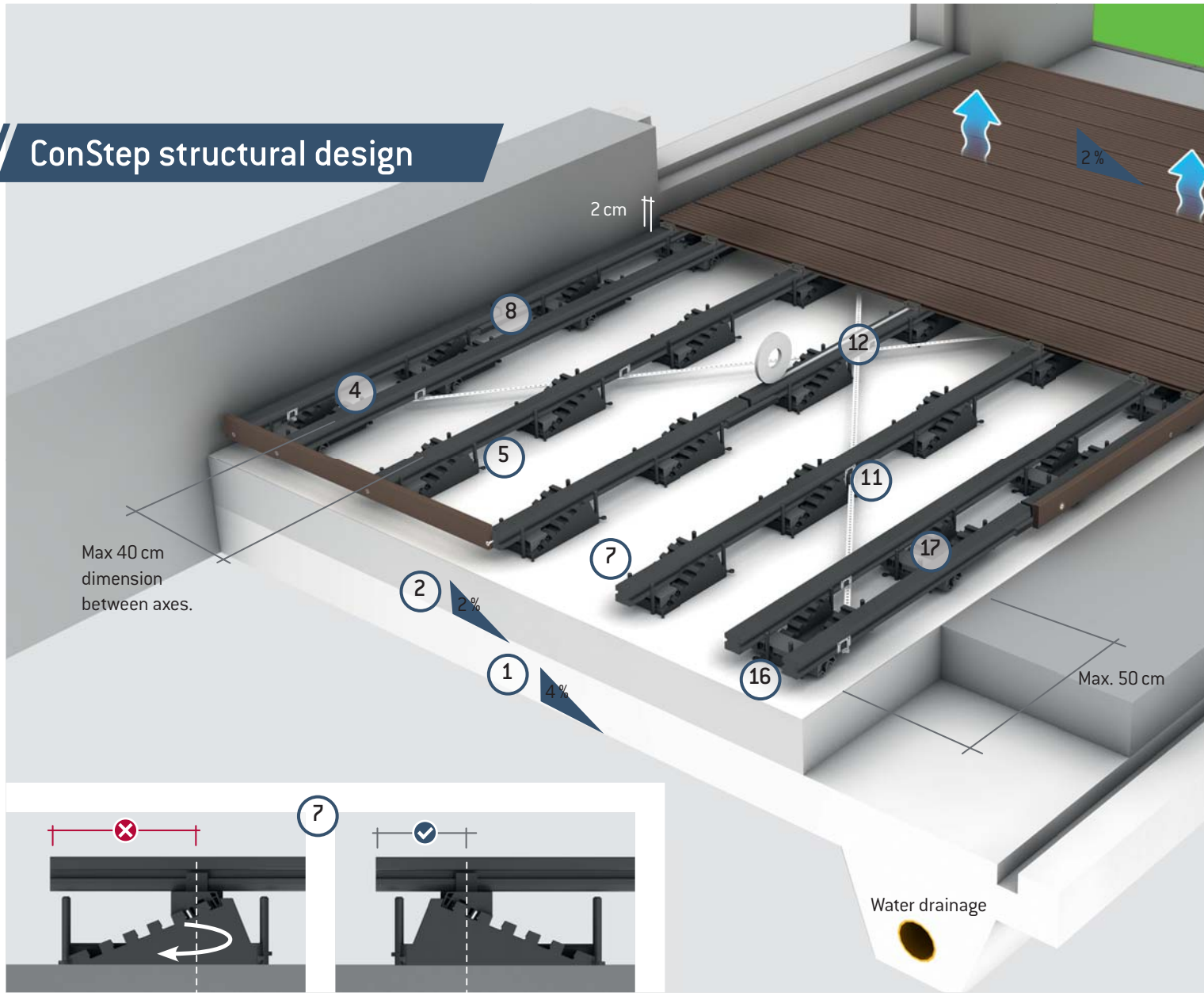
ConStep – Structural design

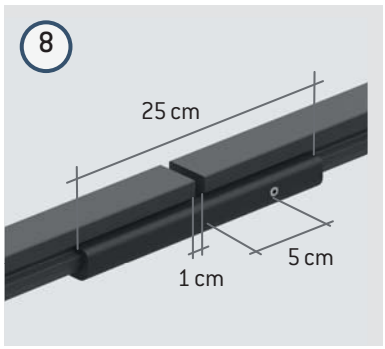


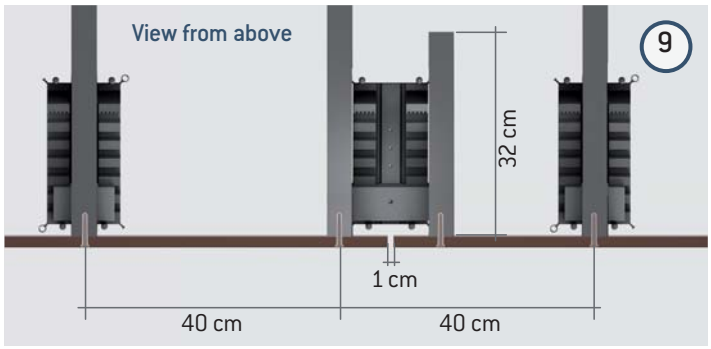
Min. installation heights

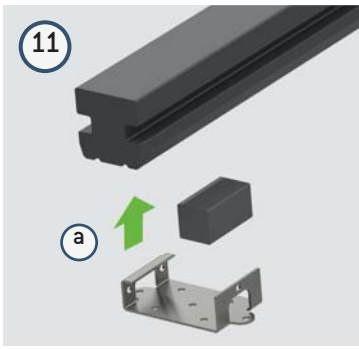


ConStep structural design



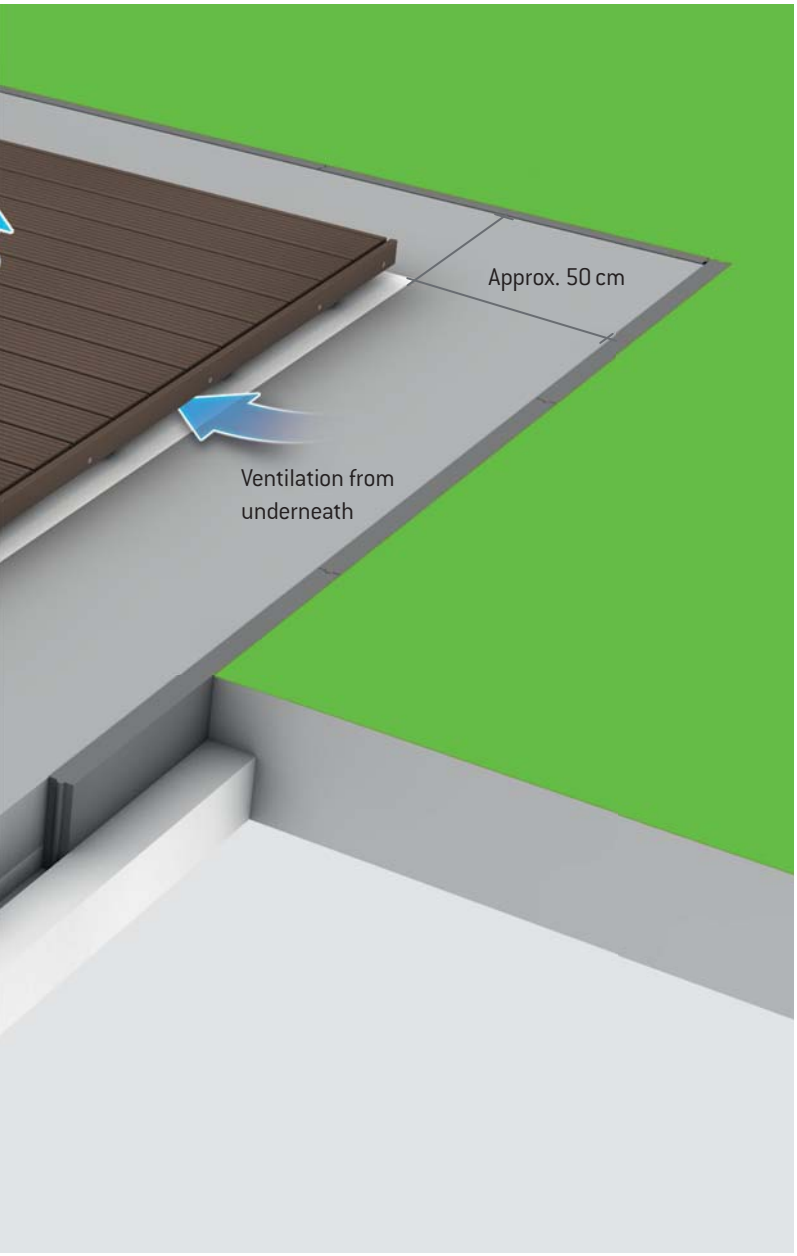


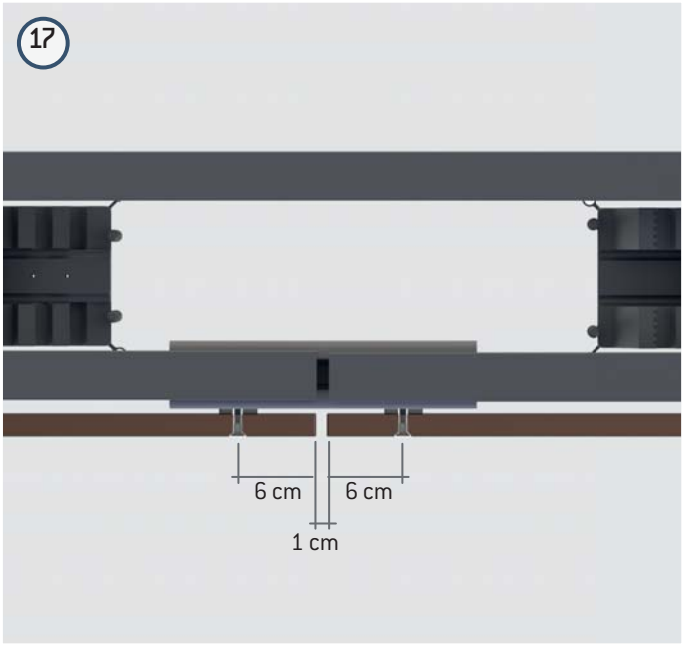


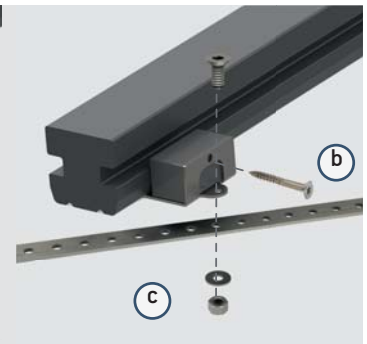


PREPARATION

1. Establish a ballast bed (including drainage) that is circumferentially larger than the terrace by 50 cm with a 4 % gradient.
2. Create a ballast bed using crushed stone with a 2 % gradient.
3. In all ConStep mounting plates, click all single and double mounts to the same height and centrally adhere into place using a piece of retaining band.
4. Position a ConStep panel with a double mount at a distance of 8 cm to the house wall and with a maximum 50 cm centre distance to the next ConStep panel with double mount.
5. Position the ConStep panel with single mount at a maximum 40 cm centre distance to the next row.
6. Conclude the end of the terrace with a ConStep double mount. Click the sub-construction into place.
7. Minimise protrusions. In order to do so, rotate the ConStep panel where necessary.
8. In the event of terrace sizes with a construction beam length > 3 m: Saw the ConStep connecting strip to a length of 25 cm, screw on one side and, in doing so, observe the beam expansion gap of 1 cm.
9. In the event of terrace sizes with a deckboard length > 3 m: The later assembly of the connection profile to the side butt joint of the ConStep double mount must be positioned as illustrated.
10. Check the distances of the entire sub-construction, compensate for unevenness and gradient inaccuracies using crushed stone.





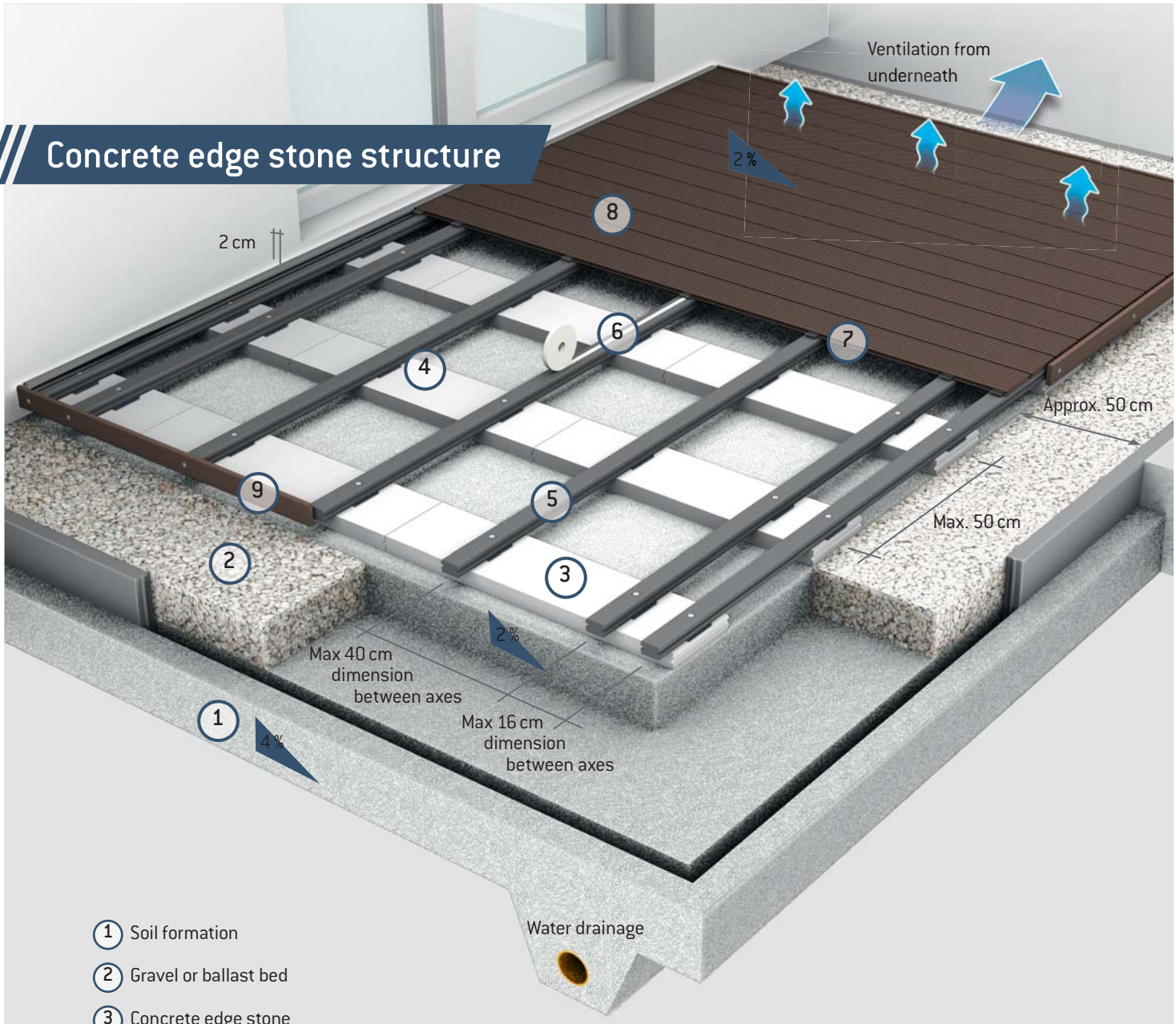


11. In a crosswise manner, reinforce the entire sub-construction with perforated tape via the ConStep assembly clip.
12. When laying the deckboard, equip the top of the central construction beam with retaining band to prevent slipping.

ASSEMBLY OF THE DECKBOARDS

13. At a distance of 12 mm from the edge, saw a 5 mm deep and 2 mm wide cut into the construction beams on the side on which the deckboards shall be laid. Position the edge clamp into this groove and, using pliers, fasten together with the construction beam and push the deckboard into the edge clamp.
14. Position the joined locking clamp on to the construction beam, push against the deckboard and lock using pliers. Using the supplied screw, lock the locking clamp on to the construction beam in every third row of deckboards.
15. After the penultimate deckboard, determine the required width for the last deckboard and saw the construction beams flush. In doing so, note that the deckboard protrusion should measure 1.5 cm.
16. On the frontal side, pre-drill the connection profile in the direction of the construction beam and screw into place. Proceed as illustrated in Step 9 when dealing with butt joints.
17. Assemble the connection profile parallel to the construction beam using a fastening screw. The screw connection must be located no further than 6 cm from the ends of the deckboards and at intervals no greater than 50 cm. The connection profile butt joint assumes the sub-construction connection profile.

Concrete edge stone structure



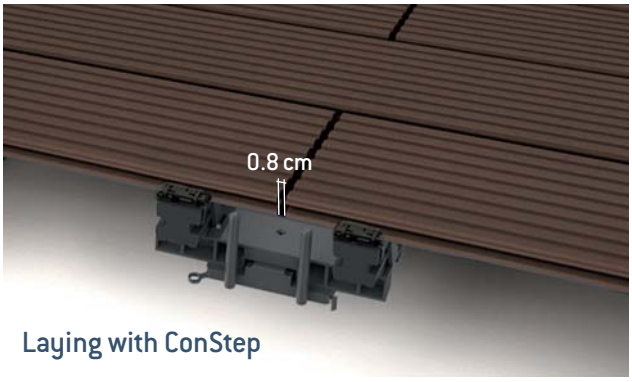
1. Soil formation
2. Gravel or ballast bed
3. Concrete edge stone
4. Rubber pad
5. Construction beams
6. Retaining band
7. Securing clamp
8. Deckboard
9. Connection profile

The sub-construction can also be constructed on concrete edge stone or borders provided that the construction beam centre distances as illustrated in the instructions are observed. In doing so, please note that the construction beams at the start, middle and end of the deckboard as well as the side support points of the construction beams must be anchored to the concrete slabs.

In accordance with constructive wood preservation principles, we recommend always laying with a gradient of at least 2 % in the direction of the deckboard in order to ensure that the water can be guided away from the house. Observing this recommendation prevents water stains and waterlogging as well as further damage to the building.

Herringbone pattern

Min. frontal side distance of the deckboards of 0.8 cm. Use a construction beam at the start and end of the deckboard respectively.



Laying with ConStep

TREND 16 x 163 mm, grooved, graphite

Online planner

The Deck planner is the tool before the tool. Create your new deck on the tablet or computer and generate material lists, laying plans for the sub-construction as well as for the deckboards.

Try it out: **www.torrotimber.com/planner**. You can discover where torroTIMBER® as well as the accessories can be purchased at **www.torrotimber.com/dealer.**

Imprint

Publisher: NOVO-TECH TRADING GmbH & Co. KG
Siemensstraße 31, 06449 Aschersleben, Germany
Conception/design/layout: toolboxx-media, Magdeburg
Picture credits: Christian Wolf
Version: 01.03.2016

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