

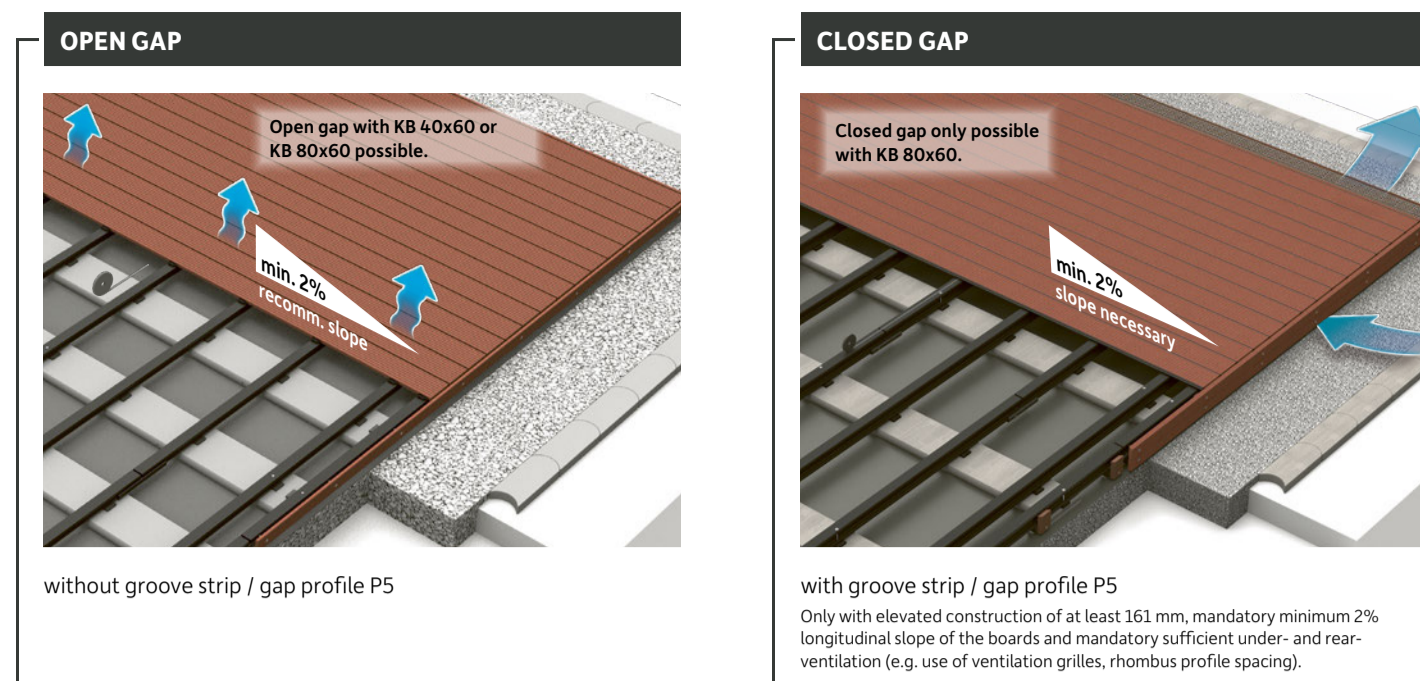
CONSTRUCTION PLAN

DECKING SYSTEM WITH CONCRETE KERBSTONE

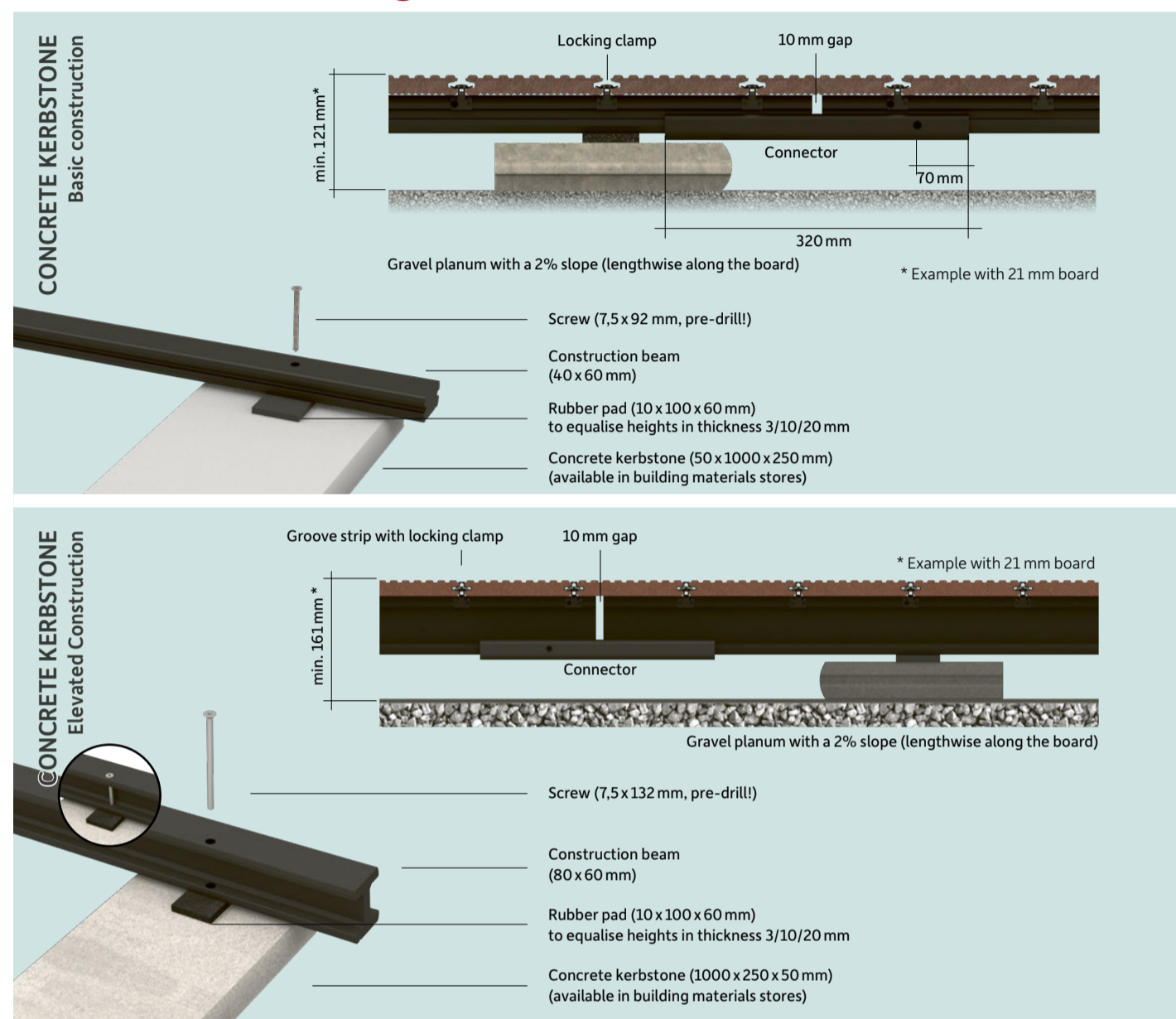
megaplaner^{3d}
PLANNING SOFTWARE
virtually as an app in your own garden
downloadable for tablet and smartphone



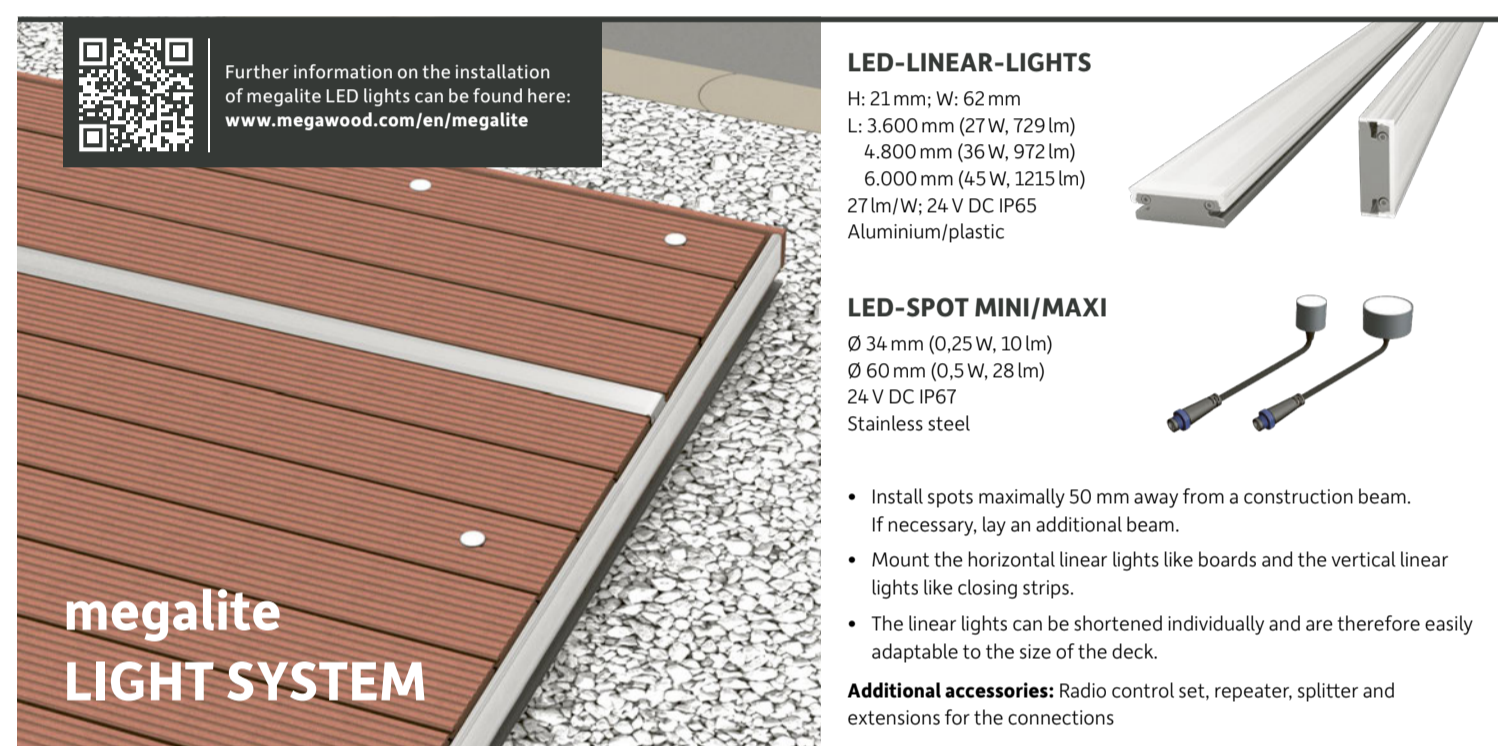
Construction variants I



Construction heights



Article overview



Planning principles

GENERAL INFORMATION

- The basis for all installation variants is the megawood® construction plan! No warranty in case of deviations from the construction plan when using non-original megawood® articles!
- In accordance with the principles of constructive wood protection, the decking boards should be laid lengthwise with a sufficient slope so that water is always directed away from the deck. If these instructions are followed, you will reduce the build-up of organic substances, water stains and waterlogging.
- For deck structures with an open gap, a minimum slope of 2% is recommended. For structures with a closed gap, a minimum slope of 2% is mandatory.
- The unique geometry of the DELTA decking board with cross-structuring makes it possible to lay the boards without any slope at all.
- Always ensure sufficient under- and rear-ventilation, e.g. with the megawood® ventilation grille.
- Use our PREMIUM 21 x 242 mm decking boards (with 40 cm centre distance) or DYNAM 25 x 293 mm decking boards (with 65 cm centre distance) for applications that require building approval (abZ Z-10.9-506).
- When building the terrace, wind load must be taken into account as a lifting load in the construction.
- For special constructions that deviate from this construction plan or from the online planner, it is necessary to consult with the manufacturer and obtain the appropriate approval in order to maintain a possible warranty claim.
- Ensure that the decking can expand without being constrained (boards must be at least 20 mm away from fixed components).
- Rod-shaped components that are attached to a rigid surface using screws always have the fixed point in the centre and are mounted so that they can shift outwards in order to compensate for thermal expansion and expansion due to water absorption.
- Predrill all holes before screwing.**
- When using metric screws, always pre-drill all holes so that the part to be fixed is 2 mm larger and the holding drill hole is exactly 0.5 mm smaller than the screw diameter!
- Select the material variants of punched parts, such as normal steel or stainless steel for staples and clips, to suit the structural conditions.
- All dimensions are to be checked on site!

PREPARATION AND SUBSTRUCTURE

- Create an **soil formation level** that is 500 mm larger all around than the decking, with a 4% slope.
- Avoid waterlogging by means of sufficiently dimensioned drainage! The formation of water-bearing layers is an integral part of the planning and execution. These are to be professionally designed by the respective planner and professionally implemented by the executing contractor.
- Create a stable and frost-resistant **gravel or crushed stone bed** with a 2% slope and level with fine grit (to even out any unevenness).
- Lay construction beams swivelled towards each other.
- Do not fill the cavities between the construction beams, concrete kerbstones or VARIO FIX!
- Avoid ground contact of megawood® decking boards and construction beams! (Exception: articles from the construction timber programme in free-standing vertical installation)
- The substructure with connector allows the construction of terraces larger than 12 x 12 m without the need for an expansion joint.

DECKING BOARD ASSEMBLY

- Colour, brush and planing differences in the boards are intentional and emphasise the natural wood look. To enhance this effect, mix the boards before laying them. If specified, the laying direction must be observed (see arrow in the board groove or on the label!)
- Rhombus profiles have a matt surface and therefore differ from the decking boards colours.
- Do not exceed a maximum of 50 mm plank overhang above the sub-structure!
- Take into account and check the assembly and production-related dimensional tolerances of length, width and thickness during assembly!
- Boards may warp due to high internal stresses if cut to width on the side. Use flooring and clamping tools during installation.
- The boards should be cut at right angles and all cut edges should be chamfered for constructive wood protection.
- Do not expose products made of rubber-containing materials (groove strip, gap profile P5) to higher thermal loads, and lay them at the same temperature level as the boards. Do not store in direct sunlight. Recommended laying temperature 5° - 25°C. Do not pull or stretch.

! You should provide shade for your terrace on hot summer days when the sun is at its strongest. This protects children's sensitive feet from overheating surfaces. It also prevents skin damage caused by excessive UV radiation. Being aware of how to protect yourself from strong sunlight guarantees a carefree experience.

Online Planner

This basic construction plan explains the standard installation options for rectangular decks with lengthwise installation. Special shapes, mitre cuts, bracing and diagonal installation are individually displayed in our megaplaner.



YOUR SPECIALIST RETAILER

IMPRINT

Publisher: NOVO-TECH Trading GmbH & Co. KG, Siemensstraße 31, 06449 Ascherleben, Germany
Subject to change. Colours and graphics may vary due to printing.

Version: 1st edition 02/2025 | EN



Deck covering I

CLASSIC
Combination board, finely corrugated surface on one side, grooved on the other side, brushed on both sides, 8 mm gap (closed gap with groove strip possible)

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

Colours	Rhombus profil
NUT BROWN	NUT BROWN
NATURAL BROWN	NATURAL BROWN
BASALT GREY	SEL GRIS
LAVA BROWN*	VARIA CHOCOLATE BLACK
SLATE GREY	VARIA GREY

* Colour Lava Brown only for CLASSIC 21 x 145 mm

PREMIUM | PREMIUM PLUS
oscillating planed top side, brushed underside
8 mm gap (closed gap with groove strip possible)

21 x 145 mm (STANDARD) | L: 420/480/600 cm
21 x 242 mm (JUMBO) | L: 420/480/600 cm

Colours	Rhombus profil
NATURAL BROWN	NATURAL BROWN
NUT BROWN*	NUT BROWN
BASALT GREY*	SEL GRIS
LAVA BROWN (PLUS)**	VARIA CHOCOLATE BLACK
SLATE GREY (PLUS)**	VARIA GREY

** The national technical approval (abZ) with 40 cm centre distance only for PREMIUM 21 x 242 (Jumbo) in Nut Brown and Basalt Grey
** Flame retardant cf-s1 only for PREMIUM PLUS 21 x 145 mm and 21 x 242 mm

SIGNUM
one-sided, oscillating planed and polished surface with a colour gradient,
5 mm gap (only open deck possible)

21 x 145 mm (STANDARD) | L: 360/420/480/540/600* cm
21 x 242 mm (JUMBO) | L: 360/420/480/540/600 cm

Colours	Rhombus profil
MUSKAT	VARIA BROWN
TONKA	VARIA GREY
ANISE***	ANISE
MALUI GREY***	SEL GRIS
MENTHA NIGRA***	MENTHA NIGRA
VARIA CHOCOLATE BLACK***	VARIA CHOCOLATE BLACK

* Colours Anise, Malui Grey, Mentha Nigra and Varia Chocolate Black only for SIGNUM 21 x 145 mm in the lengths 420/480/600 cm
** Flame retardant cf-s1 only for SIGNUM 21 x 145 mm in the colours Anise, Malui Grey, Mentha Nigra and Varia Chocolate Black

Color development

You can find details about our colours and the colour development of individual products at: www.megawood.com/en/colours

ccf HOLZart

Product	Color 1	Color 2	Color 3
NATURAL BROWN	A	B	C
NUT BROWN	A	B	C
LAVA BROWN	A	B	C
MUSKAT	A	B	C
BASALT GREY	A	B	C
SLATE GREY	A	B	C
TONKA	A	B	C
MALUI GREY	A	B	C
MENTHA NIGRA	A	B	C
VARIA CHOCOLATE BLACK	A	B	C
ANISE	A	B	C

ccf HARZart

Product	Color 1	Color 2	Color 3
CARDAMOM	A	B	C
NIGELLA	A	B	C
VARIA CHOCOLATE BLACK	A	B	C
VARIA GREY	A	B	C
LORBEER	A	B	C
SEL GRIS	A	B	C
INGWER	A	B	C

Color development timeline:
 A: AFTER LAYING
 B: AFTER 1-2 MONTHS
 C: AFTER 6-8 MONTHS

Deck covering II

CLASSIC
Combination board, finely corrugated surface on one side with colour gradient, grooved on the other side with colour gradient and medullary ray, 8 mm gap (closed gap with groove strip possible)

21 x 145 mm | L: 420/480/600 cm

Colours	Rhombus profil
VARIA GREY	VARIA GREY
VARIA CHOCOLATE BLACK	VARIA CHOCOLATE BLACK

CLASSIC VARIA
one-sided, partially grooved and matted surface with colour gradient,
5 mm gap (closed gap possible with gap profile P5)

21 x 195 mm | L: 420/480/600 cm

Colours	Rhombus profil
VARIA CHOCOLATE BLACK	VARIA CHOCOLATE BLACK
VARIA GREY	VARIA GREY

DELTA
one-sided, matted and textured surface, some colours with colour gradient,
5 mm gap (only open deck possible)

21 x 145 mm | L: 420/480/600 cm

Colours	Rhombus profil
INGWER	INGWER
SEL GRIS	SEL GRIS
LORBEER	LORBEER
VARIA GREY*	VARIA GREY
VARIA CHOCOLATE BLACK*	VARIA CHOCOLATE BLACK

* Colour gradient only for colours Varia Grey and Varia Chocolate Black

DYNAM
one-sided, textured and matted surface,
5 mm gap (only open deck possible)

21 x 242 mm (JUMBO) | L: 420/480/600 cm
25 x 293 mm (MAXI)** | L: 420/480/600 cm

Colours	Rhombus profil
NIGELLA**	VARIA GREY
CARDAMOM**	VARIA CHOCOLATE BLACK
INGWER*	INGWER
SEL GRIS*	SEL GRIS
LORBEER*	LORBEER

* Colours Ingwer, Sel Gris and Lorbeer only for DYNAM 21 x 242 mm
** The national technical approval (abZ) with 65 cm centre distance only for DYNAM 25 x 293 mm in Negella and Cardamom

OUR GCC WOOD-BASED MATERIAL IS CERTIFIED AS CRADLE TO CRADLE CERTIFIED® IN THESE CATEGORIES:

GCC
German Compact Composite
Material Health*
Product Circularity
Clean Air & Climate Protection
Water & Soil Stewardship
Social Fairness

BRONZE SILVER GOLD PLATINUM

cradle to cradle
GOLD

BREEM

*GCC HOLZart achieves PLATINUM, GCC HARZart achieves GOLD in material health. More information about the certification at www.megawood.com/en/c2c
Cradle to Cradle Certified® is a registered trademark of the Cradle to Cradle Products Innovation Institute

megawood® products fulfil the criteria for sustainable construction and green building.

MOUNTING ON CONCRETE KERBSTONE with construction beams 40x60mm and 80x60mm

Follow the planning principles during mounting! You can also find your individual construction drawing online in the terrace planner.

MOUNTING ON CONCRETE KERBSTONE with construction beams 40x60mm and 80x60mm

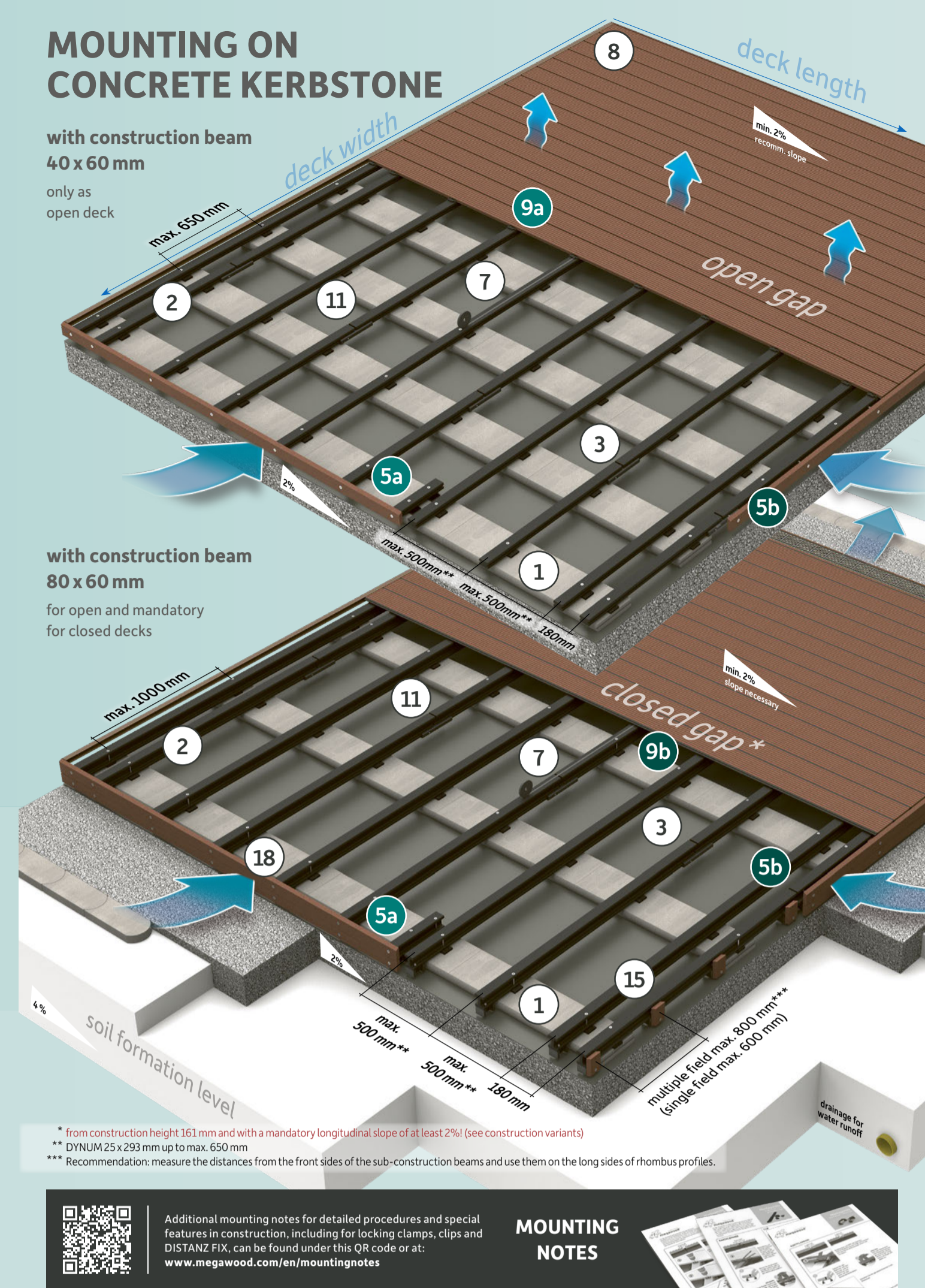
MOUNTING ON CONCRETE KERBSTONE

with construction beam 40 x 60 mm

only as open deck

with construction beam 80 x 60 mm

for open and mandatory for closed decks



* from construction height 161 mm and with a mandatory longitudinal slope of at least 2% (see construction variants)
 ** DYNUM 25 x 293 mm up to max. 650 mm
 *** Recommendation: measure the distances from the front sides of the sub-construction beams and use them on the long sides of rhombus profiles.



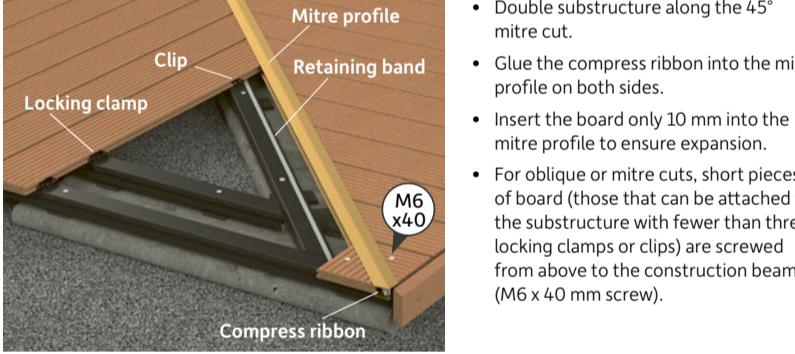
Additional mounting notes for detailed procedures and special features in construction, including for locking clamps, clips and DISTANZ FIX, can be found under this QR code or at: www.megawood.com/en/mountingnotes



- SUB-CONSTRUCTION**
- Lay concrete kerbstones (1000x250x50 mm) on a sloping gravel bed. **Observe maximum permissible centre distances!**
 - Place rows of two parallel construction beams (CB) as a double substructure at the beginning and end of the deck. The profiled side of the construction beam should face downwards. Centre distance 180 mm. **Note the overhang!**
 - Space individual CB rows parallel and evenly between the double rows. **Observe maximum permissible centre distances!**
 - Place 10 mm rubber pads under the CB, and use additional rubber pads to compensate for any differences in slope.
 - If the deck is wider than the length of the inserted CB, always arrange the joints of the CB so that they are swivelled towards each other. Connect the joints (10 mm spacing) with a connector. Drill a 12 mm hole in the centre of the connector for water drainage and screw it on to one CB on one side only. **Align the construction beams exactly with each other!**
 - Screw the CBs to the concrete kerbstones along the entire edge of the deck, including the CB to which the retaining band will be attached. **Ensure different screw lengths (see detail 2)!**
 - Tip:** In the case of a brick bond, the CBs laid under the start and end of the boards must also be screw-fixed.
 - PREPARATORY MOUNTING FOR CLOSING STRIP OF RHOMBUS PROFILES ALONG SIDE**
 - If it is necessary to place a joint in the rhombus profiles on the long side of the boards, this must be done with an 8 mm gap. To do this, place an additional CB piece (length 320 mm) in parallel. **Attention:** CB pieces must be attached to the boards above them using locking clamps. **Tip:** When the boards are laid in a brick bond, the substructure that is necessary and laid twice under the board joint is used to attach the joint of the rhombus profiles.
 - PREPARATORY MOUNTING FOR RHOMBIC PROFILES ON A CB JOINT**
 - Incorporate all joints in the substructure at the edges into the joint pattern of the rhombus profiles. Make vertical joints between the rhombus profiles with a spacing of 8 mm.
 - CB 40 x 60 mm: Leave a 20 mm wide and 10 mm deep recess in the connector where the rhombus profile is screwed in the edge area. The rhombus profiles are screwed directly into the CB 40 x 60 mm.
 - CB 80 x 60 mm: To fix the Rhombus profiles, make substrate elements (see step 15). Fix these flush at each connector in the edge area, then mount the connectors.
 - Saw the CB along the first row of boards 10 mm from the edge, 5 mm deep and at least 15 mm horizontally. Place the locking edge clamp in the groove and lock it with the CB.
 - Stick the retaining band on each of the CBs centred under each board. **Tip:** For brick bond with Distance Fix, stick on each CB retaining band (see installation in brick bond).
 - Insert the first board into the house connection profile (optional). **Never push in the compression band!**
 - Press the board into the positioned locking edge clamps.
 - OPEN GAP**
 - Insert the locking clamp into the Zammer (or tongs), place it on the CB, slide it into the board groove and lock it.
 - CLOSED GAP**
 - Only in the elevated construction from 161 mm and with at least 2% longitudinal slope of the decking boards!
 - Place the locking clamp on the CB and lock it with a Zammer or pliers.
 - Place the groove strip on the locking clamp and slide both together into the board groove. **Tip:** The gap profile P5 for 5 mm longitudinal joints in the CLASSIC Varia board can only be rolled in after the board has been mounted using a Zammer and Rolli attachment (see mounting notes).
 - Check that the first board is correctly seated and at the right angle.
 - Lay the next row of boards, using distance keepers (for 5/8 mm gaps) and flooring and clamping and tools if possible.
 - If necessary, use a groove bridge to securely fasten the locking clamp in the joint area of the CB as well.
 - After a maximum of 1 m of boards have been laid, check that the boards are running in parallel. Screw the locking clamps of the row of boards to the CB with only light pressure, so that the locking clamps remain horizontal and do not twist.
 - Repeat steps 9 - 12 until you reach the penultimate row of boards!
 - Cut and saw the CB to size with a 10 mm overhang to the last row of boards (see detail 6). Lay the last row of boards, place the locking edge clamp in the groove and lock it with the CB.
 - Cut the boards to length at the front edge. Allow a minimum overlap of 15 mm, or 34 mm if using rhombus profiles, but no more than 50 mm. Chamfer the cut edges.
 - Only for CB 80 x 60 mm:
 - Before mounting the rhombus profiles, prepare additional substructure elements and attach them to the entire edge area.
 - To do this, screw together sufficiently long CB pieces that are swivelled diagonally at the lower part of the CB.
 - On the long side of the deck, attach the rhombus profiles flush to each end face of the CB.
 - At the front edge of the deck, place the CB pieces 3 mm outward. In addition, place sufficiently long pieces of rhombus profiles past the locking clamps and attach them flush to the CB piece using screws. For longer pieces, screw on twice (see detail 18). Distribute further substructure elements evenly along the outermost CB.
 - Observe the maximum permissible centre distances!
 - Use an M8 x 80 mm screw with a washer and nut on the front side of the boards to fix and align the rhombus profile. Alongside the boards, place the rhombus profile flush against the CB (for CB 80 x 60 mm also flush against the CB pieces, see detail 18) and connect directly with an M8 x 40 mm screw. **Pay attention to distances, gap pattern (10 mm all around the boards) and different screw lengths!**
 - Make vertical joints between the rhombus profiles with a gap of 8 mm (see detail 4a).
 - Install corner connections of rhombus profiles as butt joints or with mitre cuts, each with a gap (see corner solution mounting options). In doing so, match the slope of the rhombus profiles. Chamfer the edges.
 - If several rhombus profiles are placed one below the other, create a horizontal gap of 15 mm. **Tip:** Horizontal gaps of 5 mm are also possible if sufficient under-ventilation is provided on site.
 - Leave a gap of at least 15 mm between the lowest rhombus profiles and the ground, if necessary cut the rhombus profile to size (cut off a max. of 1/3).
- LAYING BOARDS**
- MOUNTING RHOMBUS PROFILE**

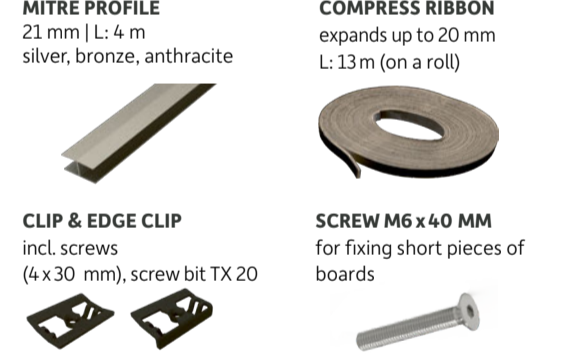
Specific features in construction

MITRED CONSTRUCTION FOR L-, U-, O- SHAPED DECKS



- Double substructure along the 45° mitre cut.
- Glue the compress ribbon into the mitre profile on both sides.
- Insert the board only 10 mm into the mitre profile to ensure expansion.
- For oblique or mitre cuts, short pieces of board (those that can be attached to the substructure with fewer than three locking clamps or clips) are screwed from above to the construction beam (M6 x 40 mm screw).

ADDITIONAL ITEMS



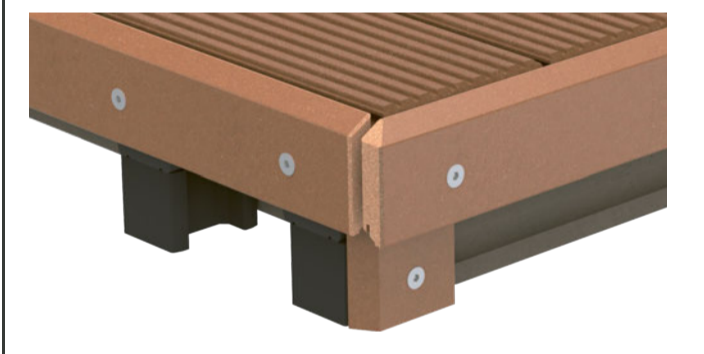
Construction variants II

EDGE SOLUTION MITRE CUT

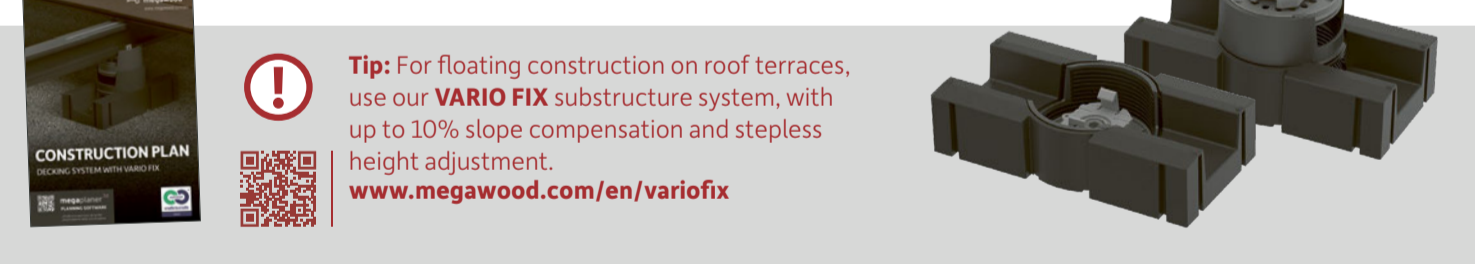


with rhombus profile as closing strip

EDGE SOLUTION BUTT JOINT



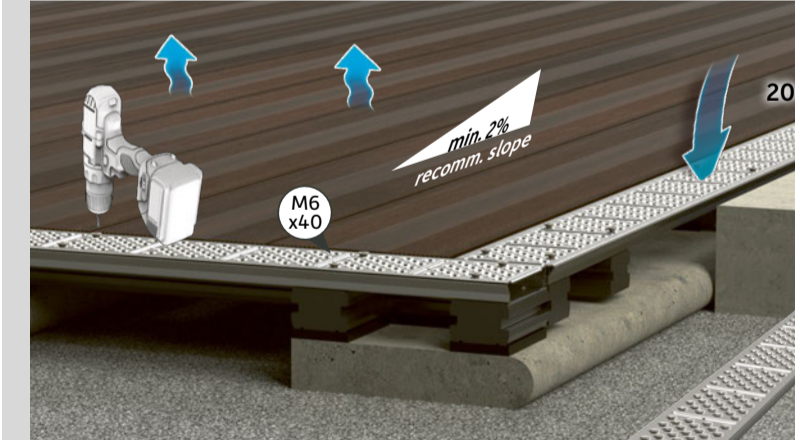
with rhombus profile as closing strip



Multi-family house 'Vor dem Wassertor' in Achersleben with megawood® facade, DELTA decking and LIMES Augusta privacy screen in Lorbeer



GROUND-LEVEL CONSTRUCTION AND VENTILATION GRILLE



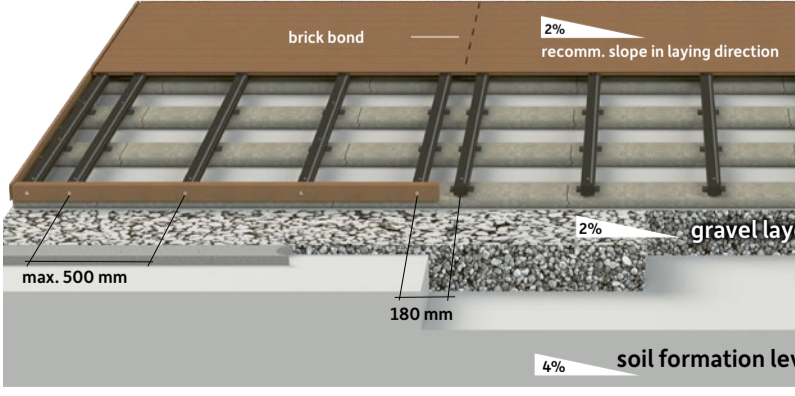
VENTILATION GRILLE
 H: 21 mm; W: 105 mm; L: 2.000 mm
 Brushed stainless steel VZA

SCREW M6 x 40 MM
 for mounting ventilation grilles

- Terrace decking is constructed at ground level and forms a level surface with the surrounding terrain edge.
- A distance of at least 20 mm must always be maintained between the boards and any fixed, upstanding components.
- The ground-level deck can be designed with a closed gap if the construction height of 161 mm or more, a minimum longitudinal slope of 2% and a circumferential ventilation grille or other structural measures for sufficient under- or rear-ventilation are strictly adhered to.
- For ground-level construction of boards with 5 mm gaps, always use ventilation grilles.
- Use of the ventilation grille (even in the raised deck or with closed gaps) to improve air circulation under the deck and achieve a longer lifespan for the entire deck.

You can find mounting notes and information about the ventilation grille at: www.megawood.com/en/ventilation

DECKING WITH BRICK BONDING PATTERNS



- A double substructure must be installed at each area of butt joints.
- The DISTANZ FIX is positioned between the double construction beams to form the distance of the butt joints and screwed to the outer boards.
- When using the DISTANZ FIX, each construction beam must be provided with a retaining band. The retaining band must be attached next to the DISTANZ FIX, which must not be placed on the band.

SUB-CONSTRUCTION WITH CROSS BRACING

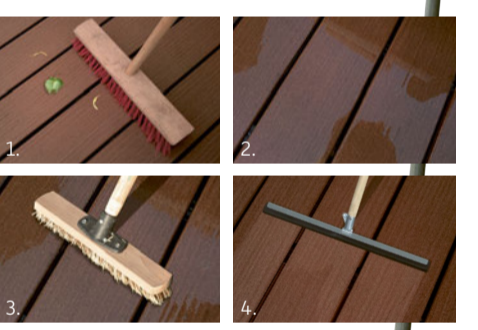


- A prerequisite for the cross bracing is a solid ground (concrete, concrete kerbstone). During installation, construction takes place on 20 mm high rubber pads, which are installed at the intersection points of the construction beams to ensure the minimum distance.
- The cross bracing must be force-locked to the ground.
- The general planning principles of the megawood® construction plan 'Decking system with concrete kerbstone' apply.

Care and Cleaning

CARE INSTRUCTIONS

- After the successful construction of your megawood® deck, you should do a basic cleaning to remove production dust. A slope of at least 2% during construction helps to improve water drainage and minimise deposits. For a well-kept appearance, we recommend a basic cleaning twice a year, or more often if necessary. Temperatures above 15°C are ideal to make cleaning easier. Please proceed as follows:
- Sweep dry, loose dirt from the decking.
 - Water the entire deck sufficiently and keep it damp for at least 15 minutes.
 - Clean the decking with water and a standard scrubbing brush or root brush. If it requires a great amount of cleaning, use a rotating surface cleaner as well.
 - Rinse the patio deck thoroughly with clear tap water, wipe off with a squeegee and allow to dry.
- Many stains will disappear over time with the help of sun and rain. For more stubborn stains, you can also use our liquid cleaner **GCC Pure Wash** for boards made of GCC HOLZart and GCC HARZart. For very stubborn stains, you can use only on boards made of GCC HOLZart our **scouring powder** with the GCC scrubbing brush (corundum scrubbing brush). Please note the usage instructions on the labels and in our terrace pass.



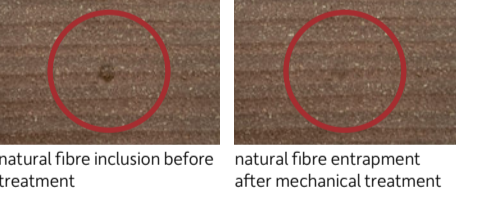
Further information and instructions for use of our cleaning products, as well as videos with cleaning tips, can be found on the terrace pass or at: www.megawood.com/en/cleaning



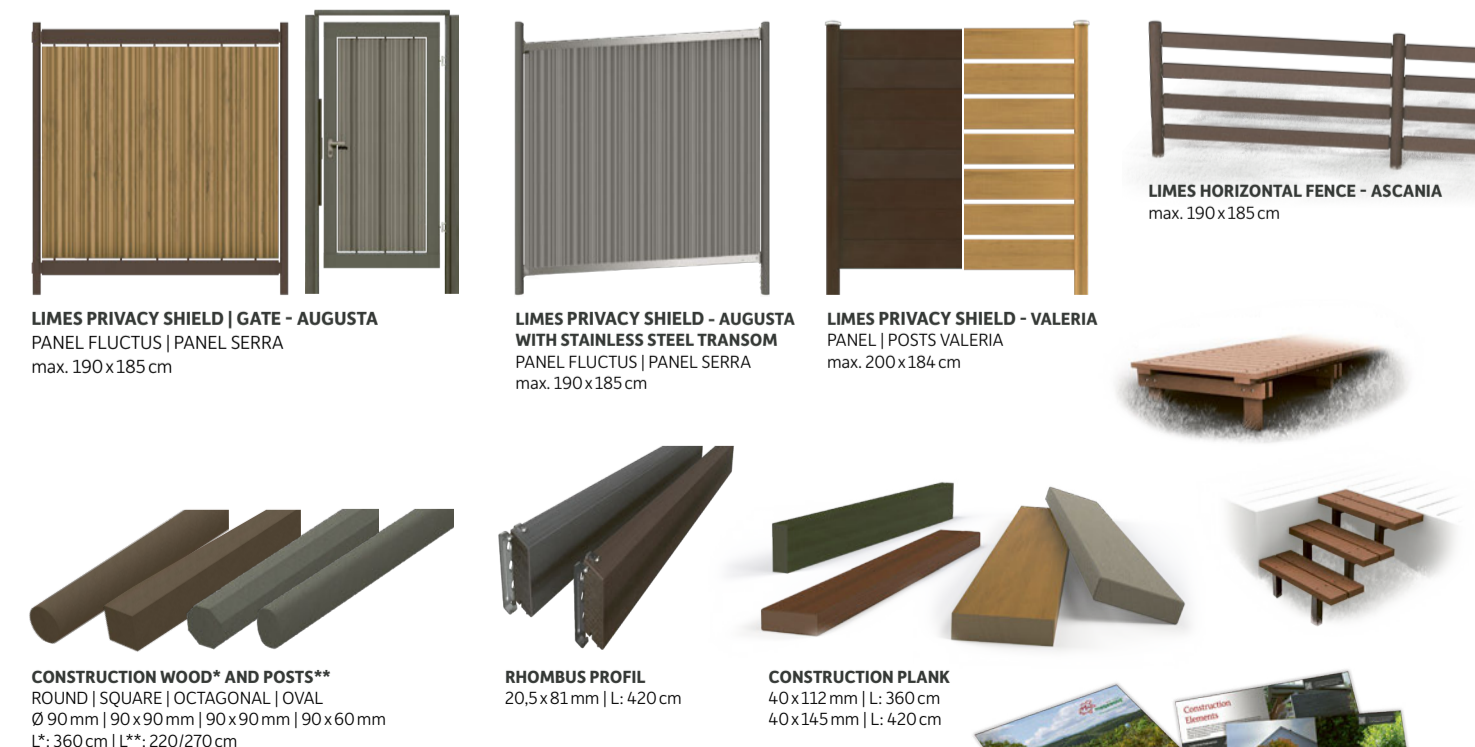
REAL NATURAL FIBRES

Due to the raw material, small inclusions* of bast and natural fibres may occur. These may appear on the surface after weathering due to water absorption. Through use of the terrace, the particles will largely disappear over time. If they are found to be disturbing, they can also be removed mechanically. This does not impair or damage the product.

*In accordance with the EPLF, the particles that are visible from standing eye level under vertical incidence of light are used for assessment. The particle size must not exceed 0.5 cm. A maximum of 0.03 % of the surface may be affected.



Related Products



Additional products for long-lasting outdoor use – harmoniously colour-matched with your megawood® decking – can be found in our magazine and at: www.megawood.com/en/product-world

