



made in Germany

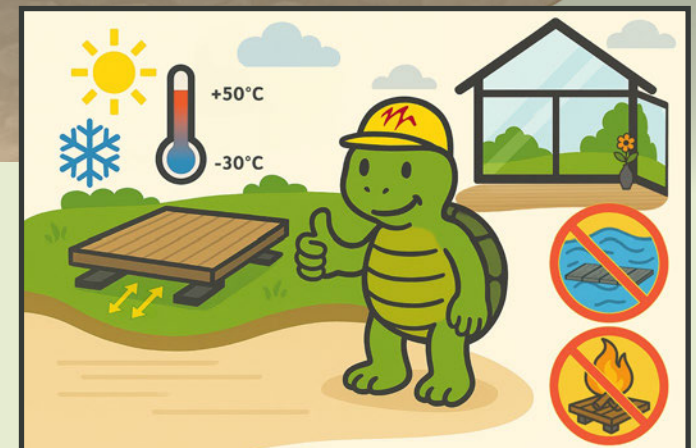
www.megawood.com/en





CONSTRUCTION PLAN

DECKING SYSTEM WITH VARIO FIX

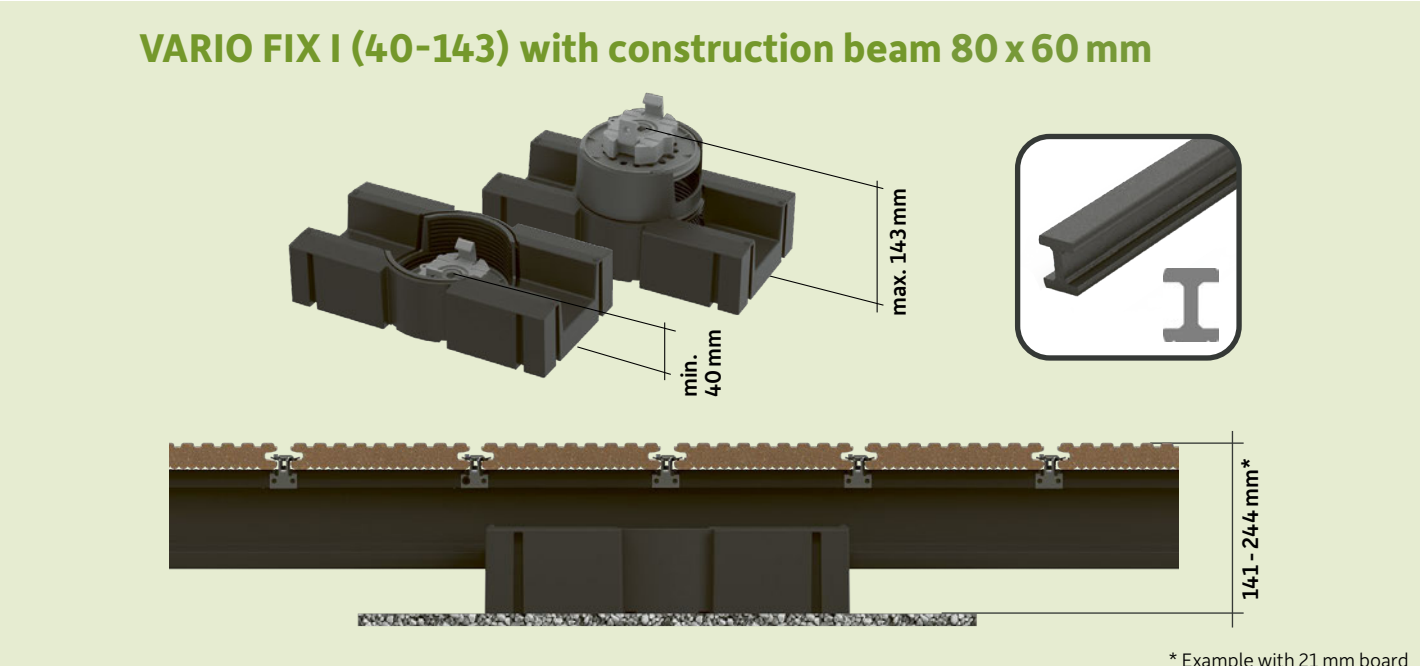




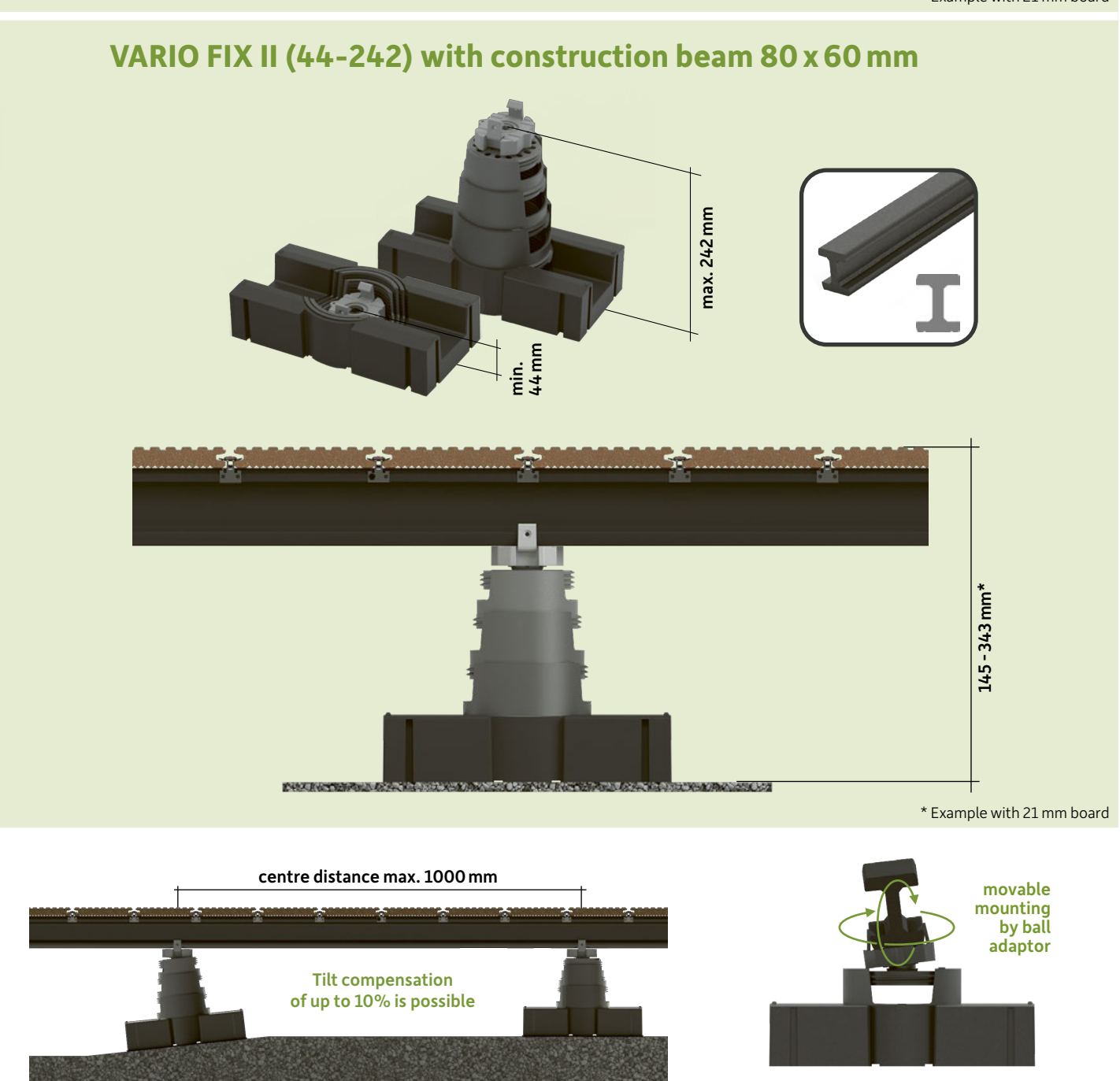
Further information on safety instructions can be found at www.megawood.com/en/safety/

Construction heights

VARIO FIX I (40-143) with construction beam 80 x 60 mm



VARIO FIX II (44-242) with construction beam 80 x 60 mm

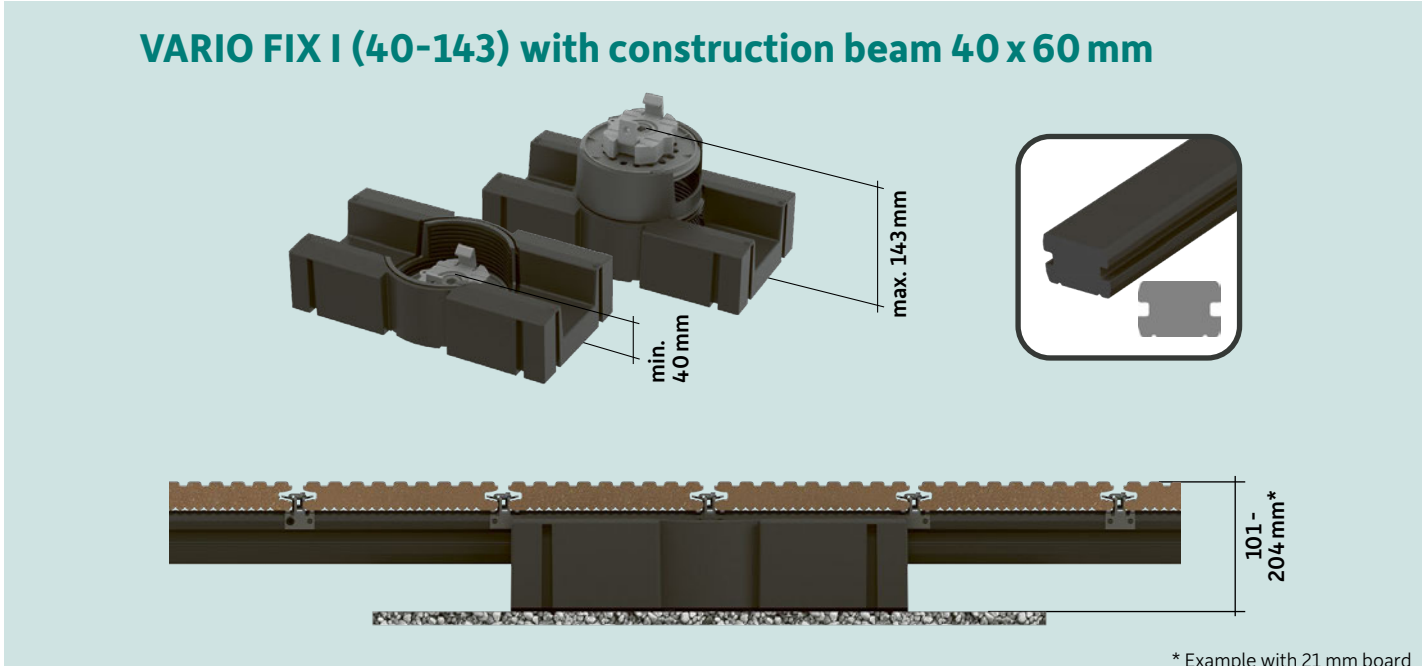


centre distance max. 1000 mm

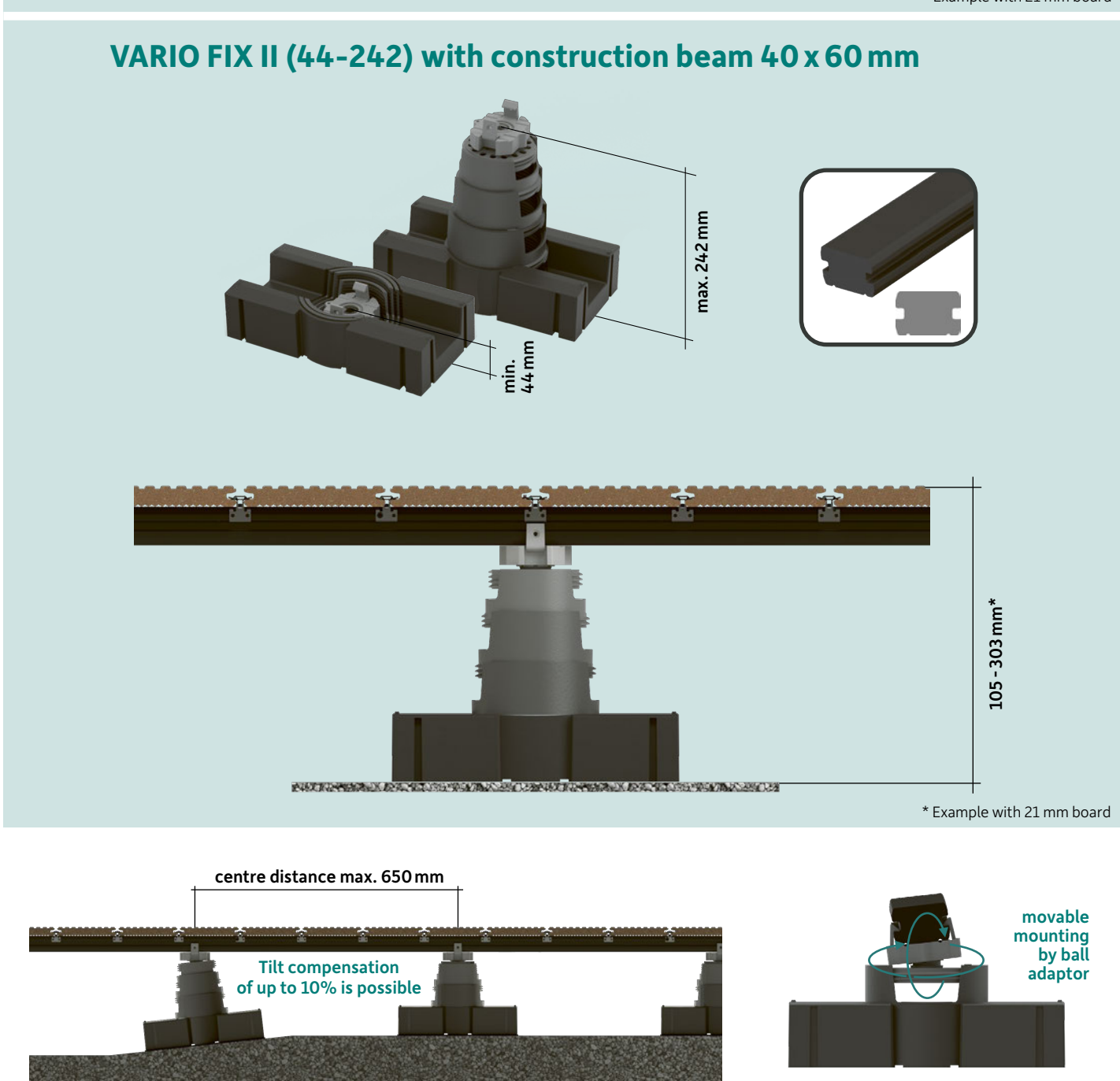
Tilt compensation of up to 10% is possible

movable mounting by ball adaptor

VARIO FIX I (40-143) with construction beam 40 x 60 mm



VARIO FIX II (44-242) with construction beam 40 x 60 mm



centre distance max. 650 mm

Tilt compensation of up to 10% is possible

movable mounting by ball adaptor

Article overview






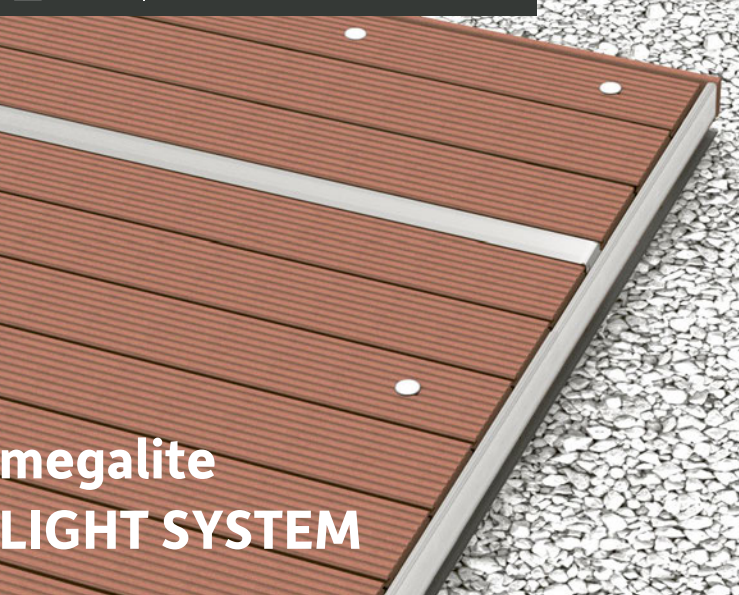








Further information on the installation of megalite LED lights can be found here: www.megawood.com/en/megalite



LED-LINEAR-LIGHTS

H: 21 mm; W: 62 mm
L: 3.600 mm (27W, T29 lm)
4.800 mm (36W, 972 lm)
6.000 mm (45W, 1215 lm)
27 lm/W; 24 V DC IP65
Aluminium/plastic

LED-SPOT MINI/MAXI

Ø 34 mm (0.25 W, 10 lm)
Ø 60 mm (0.5 W, 28 lm)
24 V DC IP67
Stainless steel

- Install spots maximally 50 mm away from a construction beam. If necessary, lay an additional beam.
- Mount the horizontal linear lights like boards and the vertical linear lights like closing strips.
- The linear lights can be shortened individually and are therefore easily adaptable to the size of the deck.

Additional accessories: Radio control set, repeater, splitter and extensions for the connections

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 or 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 or DYNUM 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 plan! No warranty in case of deviations from the construction plan or when using non-original megawood® articles!
- 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 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 kerb-stones 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.

megaplaner 3d

THE SMART ONLINE PLANNING SOFTWARE

This basic construction plan explains the standard construction variants for rectangular decks with longitudinal construction. Special shapes, mitre cuts, joints and diagonal construction are shown individually in our **megaplaner 3d**. www.megawood.com/en/megaplaner

...as a virtual app in your own garden
...online and downloadable for tablets and smartphones

GET IT ON Google Play

Download on the App Store

YOUR SPECIALIST RETAILER

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

Version: 2nd edition 07/2025 | EN



4 048533 045156

Deck covering I

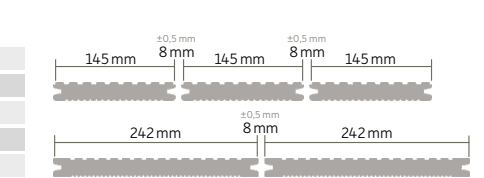
CLASSIC

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 profile
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



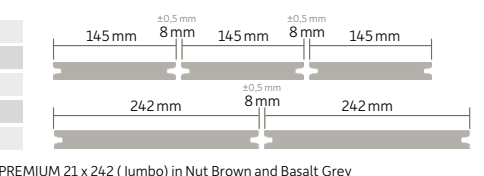
PREMIUM | PREMIUM PLUS

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 profile
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 CE-L1 only for PREMIUM PLUS 21 x 145 mm and 21 x 242 mm



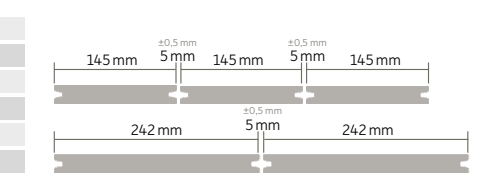
SIGNUM


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 profile
MUSKAT	VARIA BROWN
TONKA	VARIA GREY
ANISE**	ANISE
MALUJI GREY***	SEL GRIS
MENTHA NIGRA***	MENTHA NIGRA
VARIA CHOCOLATE BLACK***	VARIA CHOCOLATE BLACK

* Colours Anise, Maluji Grey, Mentha Nigra and Varia Chocolate Black only for SIGNUM 21 x 145 mm in the lengths 420/480/600 cm
** Flame retardant CE-L1 only for SIGNUM 21 x 145 mm in the colours Anise, Maluji Grey, Mentha Nigra and Varia Chocolate Black

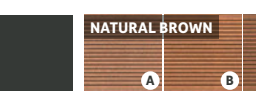






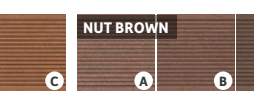


Color development



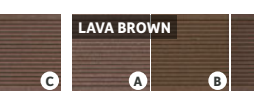
NATURAL BROWN

for CLASSIC and PREMIUM



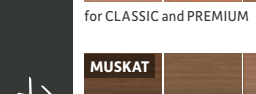
NUT BROWN

for CLASSIC and PREMIUM




LAVA BROWN

for CLASSIC and PREMIUM PLUS



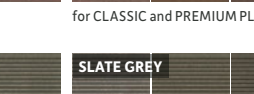
MUSKAT

for SIGNUM



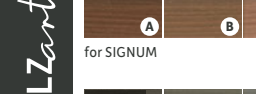
BASALT GREY

for CLASSIC and PREMIUM



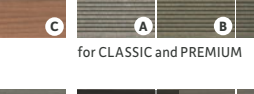
SLATE GREY

for CLASSIC and PREMIUM PLUS



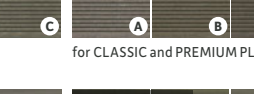
TONKA

for SIGNUM




MALUJI GREY

for SIGNUM




MENTHA NIGRA

for SIGNUM



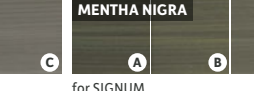
VARIA CHOCOLATE BLACK

for SIGNUM



ANISE

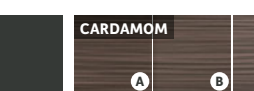
for SIGNUM



AFTER LAYING


AFTER 1-2 MONTHS

AFTER 6-8 MONTHS



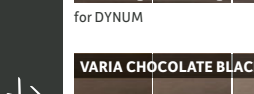
CARDAMOM

for DYNUM



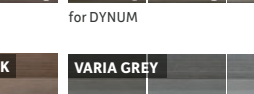
NIGELLA

for DYNUM



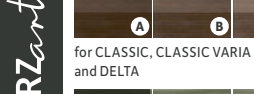
VARIA CHOCOLATE BLACK

for CLASSIC, CLASSIC VARIA and DELTA



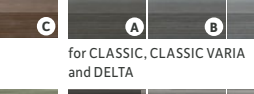
VARIA GREY

for CLASSIC, CLASSIC VARIA and DELTA



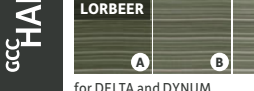
INGWER

for DELTA and DYNUM



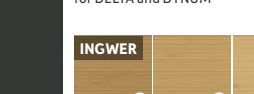
SEL GRIS

for DELTA and DYNUM



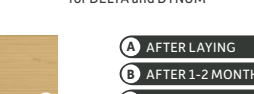
LOBREER

for DELTA and DYNUM



INGWER


for DELTA and DYNUM



AFTER LAYING

AFTER 1-2 MONTHS

AFTER 6-8 MONTHS



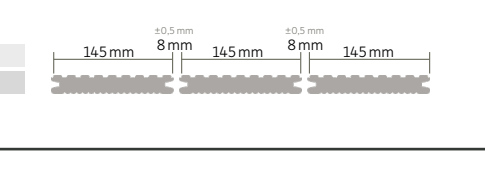
Deck covering II

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 profile
VARIA GREY	VARIA GREY
VARIA CHOCOLATE BLACK	VARIA CHOCOLATE BLACK

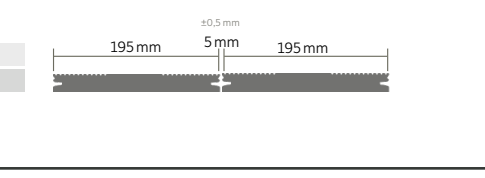


CLASSIC VARIA

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 profile
VARIA CHOCOLATE BLACK	VARIA CHOCOLATE BLACK
VARIA GREY	VARIA GREY



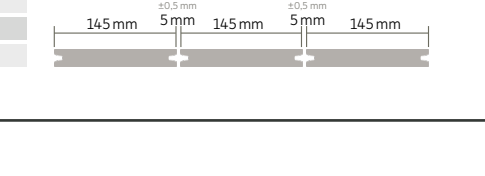
DELTA

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 profile
INGWER	SEL GRIS
SEL GRIS	SEL GRIS
LOBREER	LOBREER
VARIA GREY*	VARIA GREY
VARIA CHOCOLATE BLACK*	VARIA CHOCOLATE BLACK

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



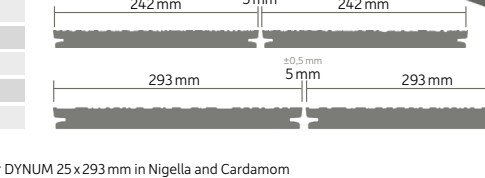
DYNUM


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 profile
NIGELLA**	VARIA GREY
CARDAMOM**	VARIA CHOCOLATE BLACK
INGWER	INGWER
SEL GRIS*	SEL GRIS
LOBREER*	LOBREER

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










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

GCC

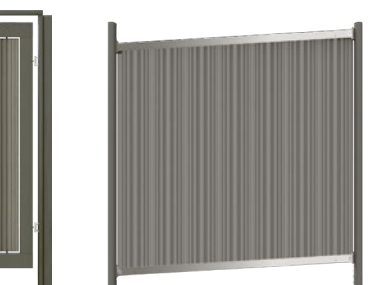
German Compact Composite	BRONZE	SILVER	GOLD	PLATINUM
Material Health*			✓	✓
Product Circularity			✓	✓
Clean Air & Climate Protection			✓	✓
Water & Soil Stewardship			✓	✓
Social Fairness			✓	✓

*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


Related Products




LIMES PRIVACY SHIELD® GATE - AUGUSTA
PANEL FLUCTUS | PANEL SERRA
max. 190 x 185 cm



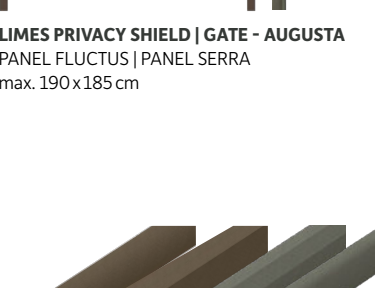
LIMES PRIVACY SHIELD® - AUGUSTA
WITH STAINLESS STEEL TRANSCOM
PANEL FLUCTUS | PANEL SERRA
max. 190 x 185 cm



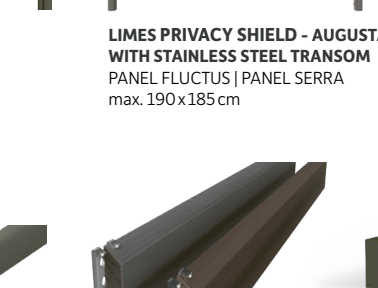
LIMES PRIVACY SHIELD® - VALERIA
PANEL POSTS VALERIA
max. 200 x 184 cm




LIMES HORIZONTAL FENCE - ASCANIA
max. 190 x 185 cm




CONSTRUCTION WOOD® AND POSTS**
ROUND | SQUARE | OCTAGONAL | OVAL
Ø 90 mm | 90 x 90 mm | 90 x 90 mm | 90 x 60 mm
L*: 360 cm | L*: 220/270 cm




RHOMBUS PROFILE
20.5 x 81 mm | L: 420 cm



CONSTRUCTION PLANK
40 x 112 mm | L: 360 cm
40 x 145 mm | L: 420 cm



MAGAZINE



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

MOUNTING WITH VARIO FIX

and construction beam 80x60 mm

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

- SUB-CONSTRUCTION

1

2

3

4
- 5

6

7

8

9
- 10

11

12

13

14

15

16

17

18
- LAYING BOARDS

10

11

12

13

14

15

16

17

18
- MOUNTING RHOMBUS PROFILE

15

16

17

18

• Adjust the height of the VARIO FIX mounts to the structural conditions by turning the threaded rings. The mount with ball adapter can be moved in all directions and allows a tilt compensation of up to 10%.

• **Optional:** For improved stepping comfort, simply click the comfort pad and attachment piece at the end of the VARIO FIX mount (plus 50 mm construction height).

• Place rows of two parallel VARIO FIX at each end of the deck. Used to hold two construction beams (CB) as a double substructure.

• Centre distance 180 mm (see detail 4a).

• Place single VARIO FIX evenly and parallel between the double rows to carry the substructure. **Observe maximum permissible centre distances!** If more space is required: VARIO FIX can be positioned at an angle to the CB as soon as the CB overlaps the VARIO FIX base plate.

• Click the construction beam with the profiled side down into the VARIO FIX mount.

• If the deck is wider than the length of the inserted CB (4 m), always arrange the joints of the CB so that they are swivelled towards each other. Connect the joints (10 mm spacing, see detail 4b) 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!**

• **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 a second VARIO FIX in parallel and mount a CB piece (length 500 mm).

• **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 RHOMBUS 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.

• 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.

• Place the perforated tape below the CB and screw it to all CBs using a mounting shoe.

• Arrange the perforated tape diagonally in rectangular sections.

• 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 rollers.

• Place the groove strip on the locking clamp and slide both together into the board groove.

• **Tip:** The gap profile PS 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 Roll 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 3 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.

• 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 from 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).

MOUNTING WITH VARIO FIX

and construction beam 80x60 mm

