



FIXING X GROUP



PREMIUM FIXING SYSTEMS FOR YOU

FIXINGGROUP GmbH
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Office opening hours:

Mon - Thu: 7.30 - 12.00 | 12.30 - 16.30 hrs

Fr: 7.30 - 12.00 hrs



FIXINGGROUP

THE COMPANY



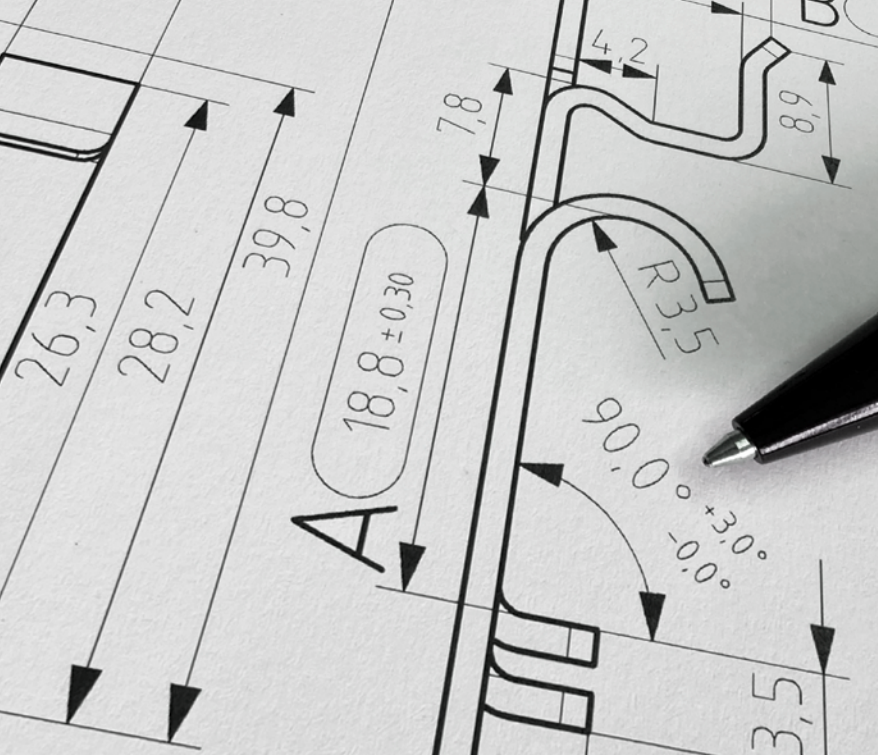
FIXINGGROUP GmbH established in 2014 is a young and dynamic company based in Neuhofen im Innkreis, Austria.

Our innovative product assortment is exclusively designed for specialized dealers and manufacturers within the wood and wood-like materials industry, specifically tailored for outdoor applications.

Our well-defined sales structure, backed by a team of competent and expertly trained personnel both in-office and in the field, establishes the foundation for reliable and long-term partnerships.

Our central warehouse and logistics hub in Austria is dedicated to maintaining optimal stock levels and ensuring prompt delivery times.

FIXINGGROUP GmbH, a privately owned company, has been operating globally since its launch. Over time, it has cultivated a respected reputation as a reliable and trustworthy business partner, solidifying a strong position within the industry.



PRODUCTION

OUR PRODUCTS

True to our commitment encapsulated in the slogan **PREMIUM FIXING SYSTEMS**, we proudly offer an innovative product portfolio comprising high-quality fixing systems and accessories designed specifically for terrace and facade construction as well as for fence and privacy screen elements.

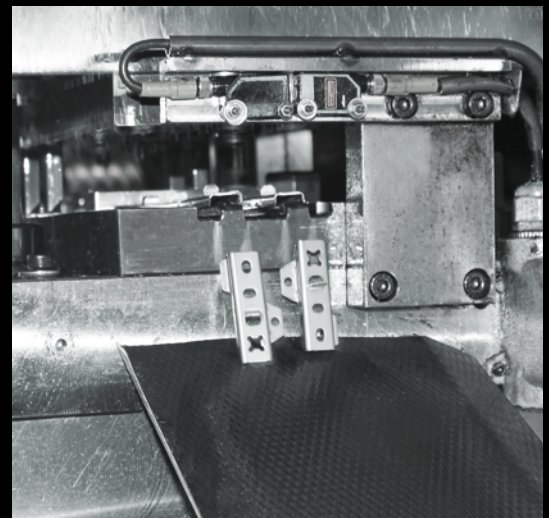
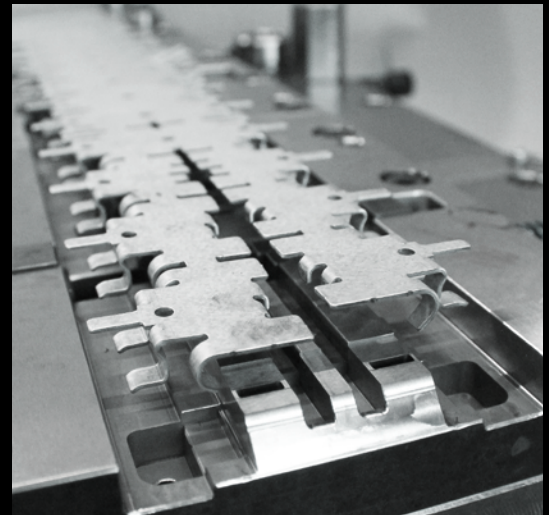
Each product we offer undergoes meticulous development and testing to guarantee enhanced performance and durability for wood or wood-like materials in outdoor applications.

Our products are carefully packaged in stylish packaging, equipped with a practical carrying handle and come complete with the necessary installation accessories. Additionally, comprehensive installation instructions are included for your convenience.

Our commitment to environmental awareness and sustainability is paramount. Through the prolonged durability of our products and the conscientious selection of raw materials in the production process, we strive to use valuable resources efficiently and responsibly, aligning with our dedication to eco-friendly practices.



DILA
TIGA
TENI
LIGO
BASO
LIFTO
FUGO
ZONA
PLATA
SUPRO
DEKORA
KONEKTO



FOR YOU

CUSTOM BRANDING



We provide you with the chance to enhance your brand identity and stand out by offering a creative marketing package complete with custom branded packaging.

Should you desire, your logo can take center stage as the focal point of our exclusive product packaging. This offers a distinct advantage, as it not only reinforces your brand but also fosters customer loyalty.

Starting from your initial order, we offer the option to feature your logo prominently in our high-quality product videos and customized documents. This ensures a consistent, branded experience that contributes to the lasting impression of your identity.

Upon your request, you will gain complimentary access to our password protected FOR YOU partner area at www.fixinggroup.com

Here, exclusive content awaits, ready for you to download at your convenience.





VIDO

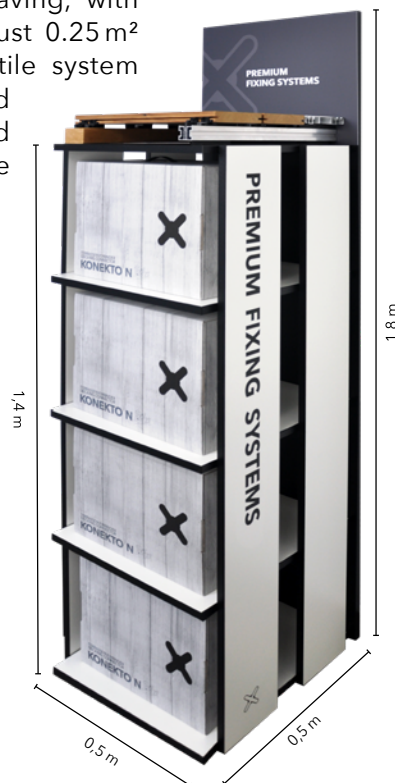
SYSTEM DISPLAY STANDS

Revolutionize your point-of-sale experience with our innovative solution designed for informative applications, complete with product display models.

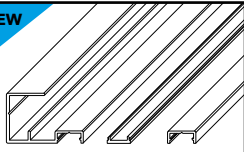
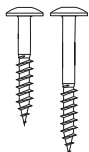
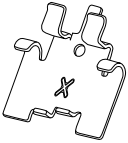
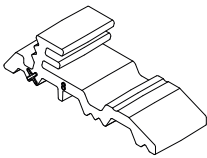
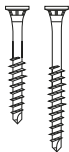
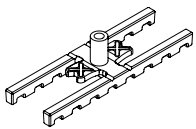
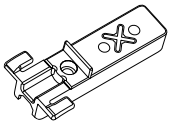
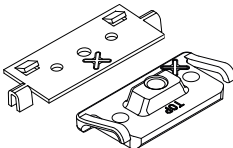
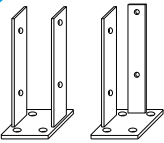
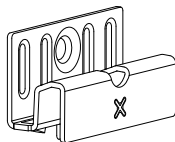
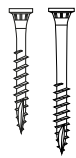
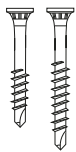
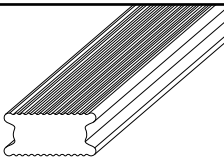
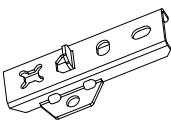
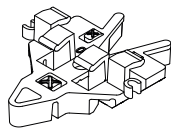
Enhance your consultations by incorporating our clear and detailed display models, providing your customers with a simplified and informed pathway to make confident purchase decisions.

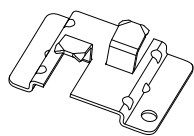
The VIDO system display stand provides an organized and visually appealing solution for neatly storing stylish product packaging.

The VIDO system display stands are designed to be space-saving, with a compact footprint of just 0.25m² (0.5x0.5m). These versatile system displays can be positioned individually or arranged in a row to accommodate multiple product systems.



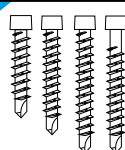
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DECKING CONNECTOR**50**

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NEW

**UNIA**

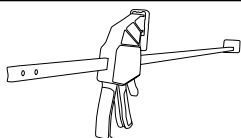
SYSTEM SCREW

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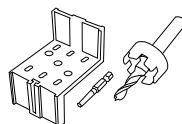
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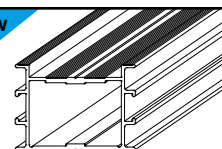
**RELO**

OVERVIEW

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NEW

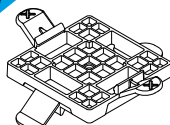
**RELO**

SUBSTRUCTURE

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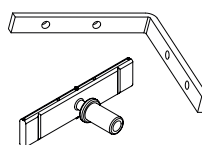
NEW

**RELO KV**

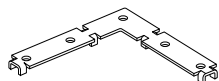
CLICK-IN CONNECTOR

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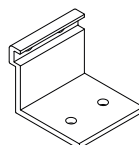
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**RELO F**

FLAT CORNER BRACKET

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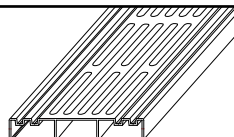
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**RELO AW**

LOAD-BEARING BRACKET

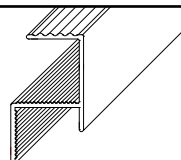
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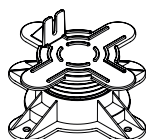
NEW

**RELO RA**

EDGE FINISHING TRIM

70

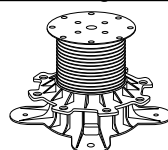
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**LIFTO**

ADJUSTABLE PEDESTAL

72

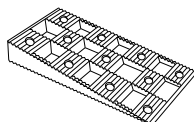
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**LIFTO K**

ADJUSTABLE PEDESTAL

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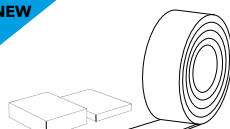
**TRIGO**

ADJUSTING WEDGE

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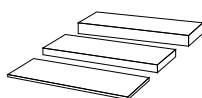
NEW

**GUMO LG**

GRANULATE PAD

78

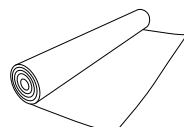
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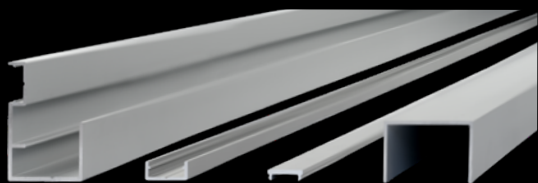
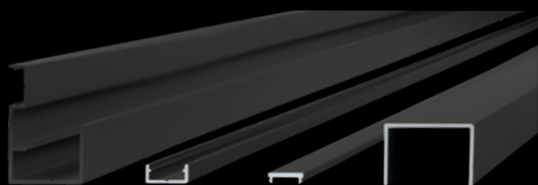
**TIPS & TRICKS**TERRACE AND FACADE
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FACADE + DECKING

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TERA

FENCE AND PRIVACY SCREEN HARDWARE AND FITTINGS



Introducing the **TERA** fencing and privacy screen kit, designed for effortless customization of fences, wind or privacy screen elements.

With the TERA PA **Post Connection Profile**, achieve a seamless transition from fence infill to post, enhancing the overall aesthetic appeal.

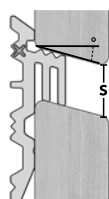
Simply insert fence infills, such as rhombus mouldings or smooth-edged boards, into the post connection profile and secure them in place. The generously sized mounting covers effectively mask any cut edges or length differences.

For rhombus-shaped fence infills, integrate different-sized joint spacers (FUGO 5 | 8 | 12 mm) between infills for varying levels of opacity.

Ensure stability with the slimline TERA SP **Stability Profile**, fitted between posts to prevent twisting of fence panels.

Hide screw connections elegantly with the TERA AP **Finishing Trim**, adding to the system's visual appeal.

Complete the look with the TERA ASP **Top Cap Profile**, providing a flawless finish and additional structural protection for the top fence infill board. Extend the end profile effortlessly with the optional extension set as needed.



	Visible Joint (S)		
	15° Rhombus	25° Rhombus	30° Rhombus
FUGO 5	≈ 5 mm	≈ 6 mm	≈ 7 mm
FUGO 8	≈ 9 mm	≈ 10 mm	≈ 11 mm
FUGO 12	≈ 13 mm	≈ 14 mm	≈ 15 mm

optional accessories

FUGO joint spacer (PU for one fence panel)		
Description	PU	Prod. No.
FUGO 5	60 PCS	016003000
FUGO 8	60 PCS	016103000
FUGO 12	60 PCS	016203000

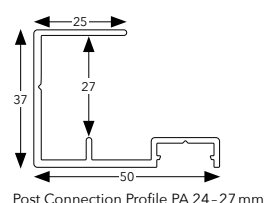
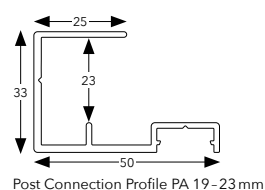
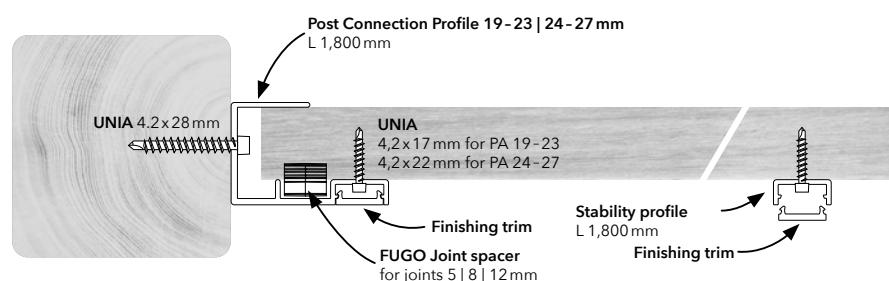
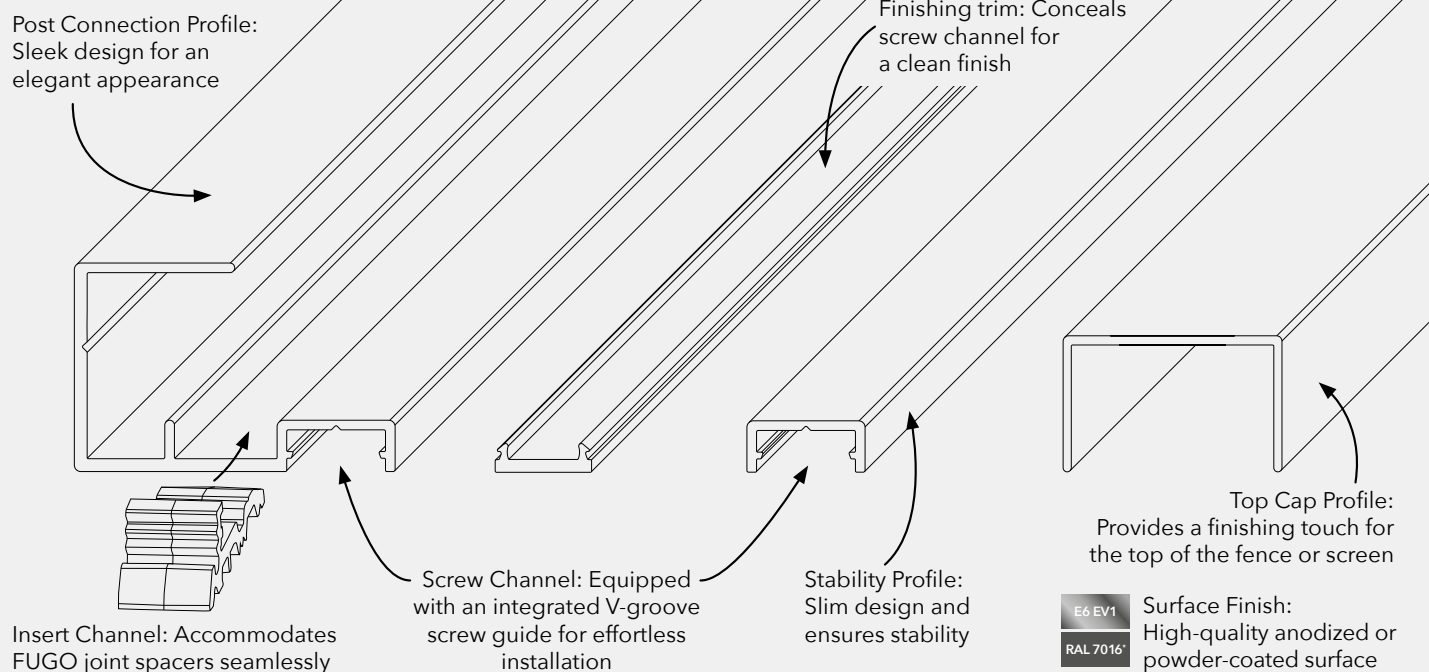
TERA-SET (for one fence panel)		
Description	PU	Prod. No.
19-23 mm RAL 7016*	1 SET	037300000
19-23 mm Anodised E6/EV1	1 SET	037200000
24-27 mm RAL 7016*	1 SET	037500000
24-27 mm Anodised E6/EV1	1 SET	037400000



SET-PACK

For one fence panel H 1,800xW 1,800mm | 3.24m²

- 2 Pcs. Post Connection Profile
- 10 Pcs. UNIA1 4.2x28 mm + 100 Pcs. UNIA1 4.2x17 or 22 mm
- 2 Pcs. Stability profile + 100 Pcs. UNIA1 4.2x17 or 22 mm
- 4 Pcs. Finishing trim
- 1 Pc. Top Cap Profile + 1 Pc. Installation manual

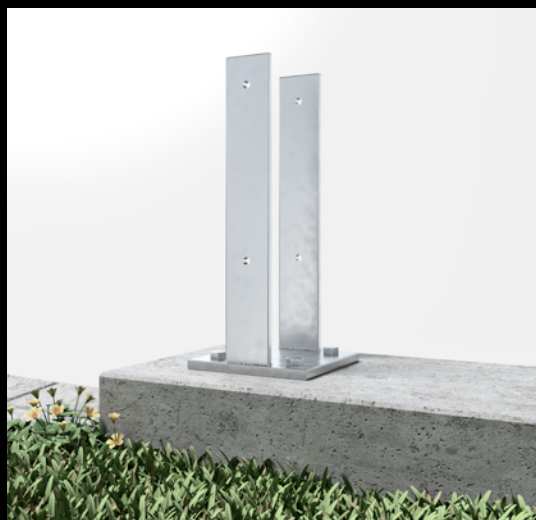


OVERVIEW	TERA PA Post Connection Profile	TERA SP Stability Profile	TERA AP Finishing Trim	TERA ASP Top Cap Profile
Dimensions:	Length 1,800 mm PA 19-23 for fence infills from 19-23 mm PA 24-27 for fence infills from 24-27 mm	Length 1,800 mm Width 18 mm Height 8 mm	Length 1,800 mm Width 15 mm Height 4.5 mm	Length 1,800 mm for PA 19-23 for PA 24-27
Material:	Aluminium EN AW 6060			
Surface:	Silver anodised E6/EV1 or powder-coated RAL 7016*			
Accessories:	FUGO Joint spacer 5 8 12 mm for rhombus mouldings			Extension-set for fence widths over 1,800 mm

* Surface similar to RAL-Colour

TERA PT

HEAVY DUTY FENCE POST BRACKET



The **TERA PT** fence post bracket is designed to securely anchor fences, windbreaks, and privacy screens to concrete foundations.

With its robust construction and a height of 250 mm, the system offers stability and strength.

The staggered screw arrangement for post attachment ensures durable and secure load distribution, allowing for precise vertical alignment of the fence post.

The classic U-shape with a 90 mm post housing is anchored to a sufficiently stable concrete foundation or wall. Special corner post shoe brackets are available for corner connections.

The 40 mm wide post steps minimize the contact area with the fence post, providing excellent structural wood protection.

Post brackets are installed approximately every 1.8 meters and are suitable for fence heights up to 1.8 meters.

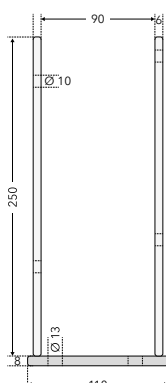
Country-specific regulations and guidelines must be observed. Fence post brackets are not suitable for fall protection applications, such as balcony railings.

OVERVIEW

Dimensions:	Post Housing 90 mm
	Base Plate: 110 x 110 mm Thickness 8 mm
	Drill Holes Ø 13 mm
	Post straps: Width 40 mm Thickness 6 mm
	Drill Holes Ø 10 mm
	Height 250 mm

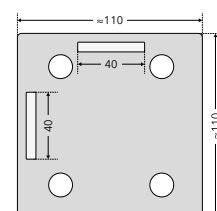
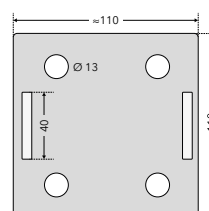
Material: Steel S235

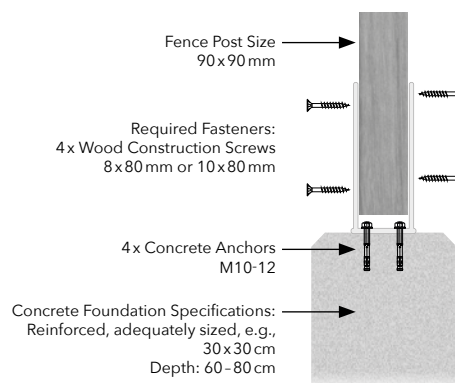
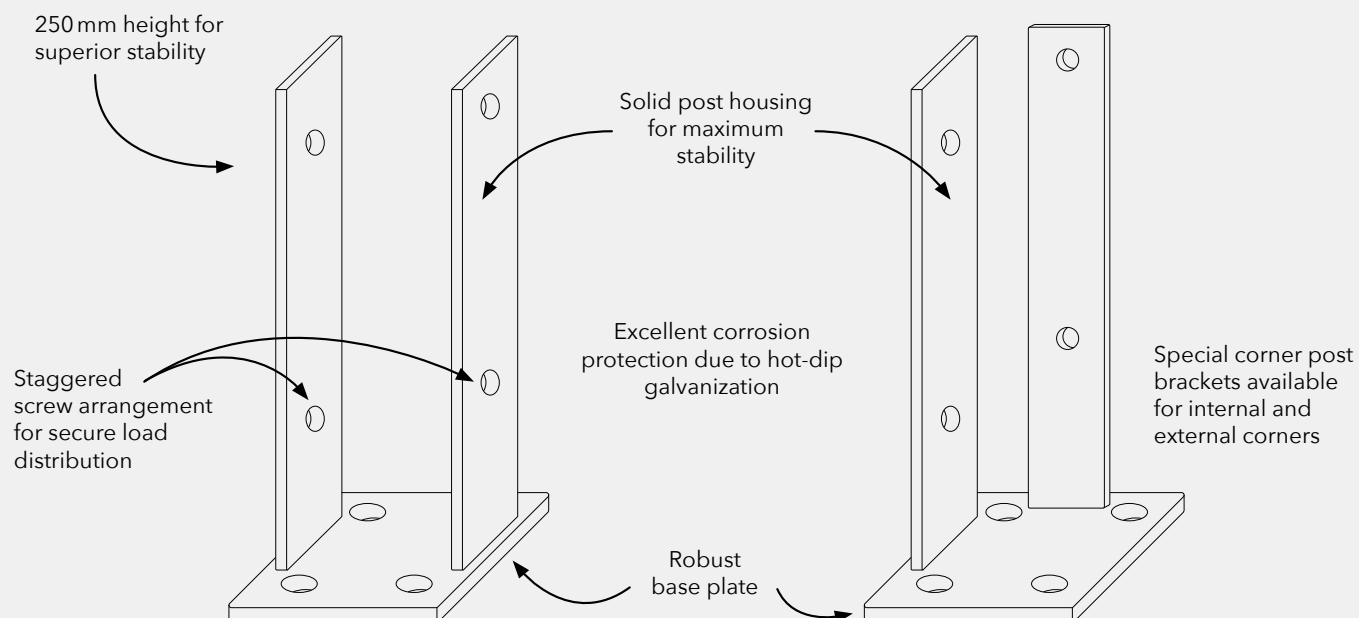
Surface Finish: Hot-Dip Galvanized



TERA PT

Description	PU	Prod. No.
PT 90	8 PCS	009812000
EPT 90 corner	2 PCS	009911000





DOWNLOAD



Data Sheet

HAPELA

FACADE PANEL SCREW



HAPELA facade screws offer a high-quality and visually appealing solution for securing HPL facade panels to wooden substructures.

The flat pan-head design creates an elegant look with minimal visual interference.

The facade screws are made of stainless steel and feature a high-quality powder-coated head finish that matches the facade panel.

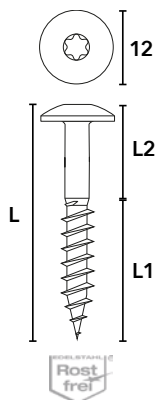
HAPELA4 screws, made from A4 austenitic stainless steel, are designed to withstand increased deformation and provide excellent corrosion protection, making them ideal for coastal applications. The 5.5mm screw diameter ensures durable and secure load-bearing capacity.

CE according to DIN EN 14592-2008

Fixing is achieved using both fixed sliding and fixed points on the facade panel. This method allows for uniform transfer of dimensional changes of the facade panels to the substructure. Joint spacing, as well as edge and center distances, vary depending on the panel size and the manufacturer's specifications.

For correct installation, the assembly guidelines of the panel manufacturers must be followed.

OVERVIEW			
Dimensions mm			HAPELA4 Ø 5,5 mm
L	L1	L2	Surface Finish Pan-Head
35	22	13	<ul style="list-style-type: none"> Stainless steel: Plain Powder-coated <ul style="list-style-type: none"> • RAL 7016* Anthracite • RAL 7024* Graphite grey • RAL 7035* Light grey • RAL 7037* Dust grey • RAL 9005* Jet black • RAL 9010* Pure white
45	22	23	
Screw head Diameter			12 mm
TX drive			TX20
Material			Stainless steel A4 1.4401 CE Head Coating: UV and weather resistant



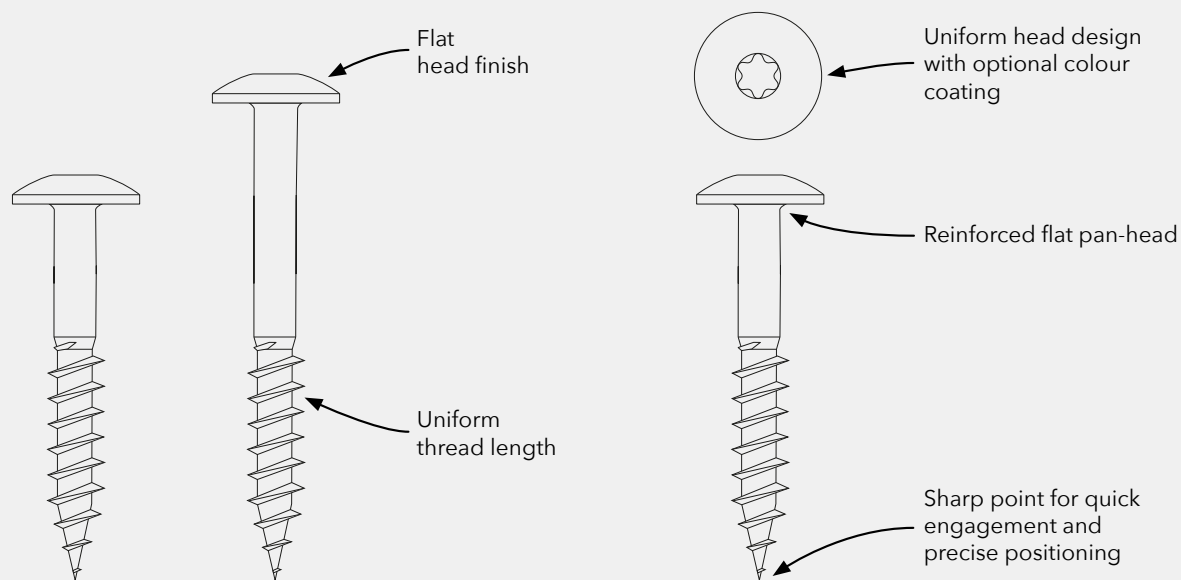
HAPELA4 5,5 x 35 mm for Panel Thicknesses: 6 - 12 mm		
Description	PU	Prod. No.
Stainless steel	100 PCS	040102000
RAL 7016*	100 PCS	040202000
RAL 7024*	100 PCS	040602000
RAL 7035*	100 PCS	040302000
RAL 7037*	100 PCS	040502000
RAL 9005*	100 PCS	040702000
RAL 9010*	100 PCS	040402000

* Surface similar to RAL-Colour

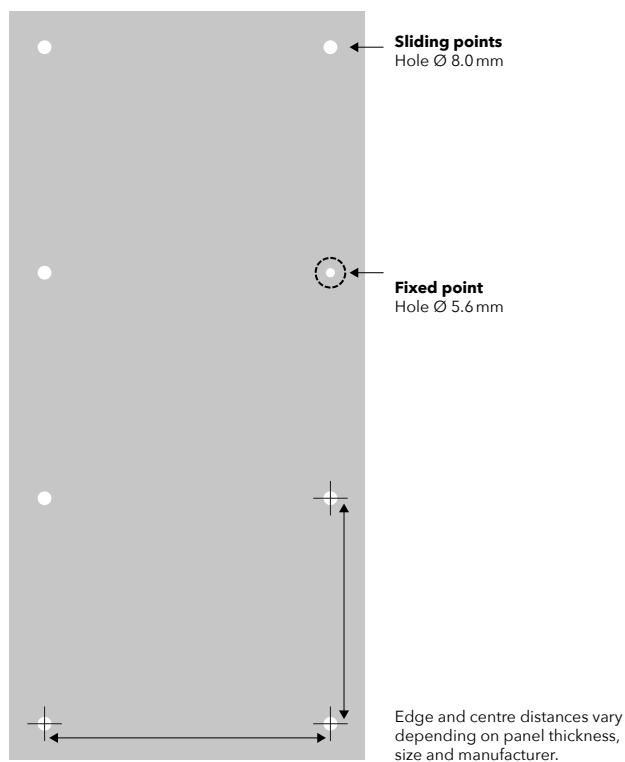
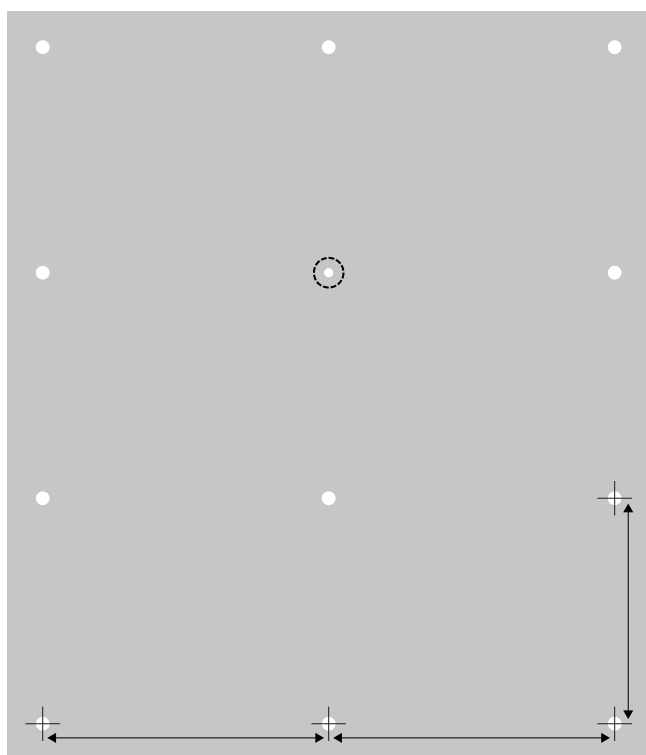
HAPELA4 5,5 x 45 mm for Overlapping panels		
Description	PU	Prod. No.
Stainless steel	100 PCS	042502000
RAL 7016*	100 PCS	042602000
RAL 7035*	100 PCS	042702000
RAL 7037*	100 PCS	042902000
RAL 9010*	100 PCS	042802000

BRANDING
Custom branding
upon request





Example:



Stainless steel	RAL 7016*	RAL 7024*	RAL 7035*
	RAL 7037*	RAL 9005*	RAL 9010*

Other colours available upon request.

DOWNLOADS



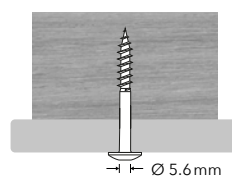
Data sheet



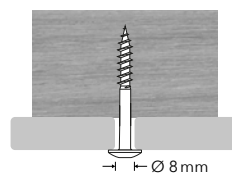
CE



Tips & Tricks



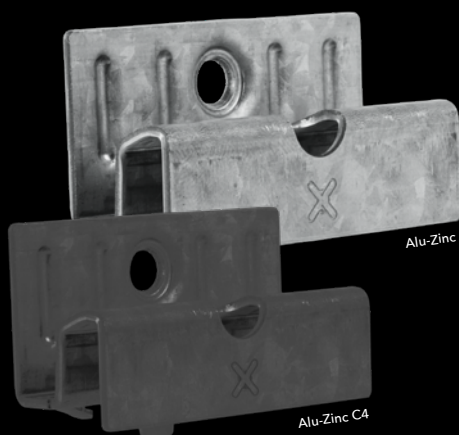
The **fixed point** secures the facade panel in place; its positioning can vary between manufacturers.



The **sliding points** accommodate dimensional changes in the facade panel. The facade screw is screwed in flush, allowing the panels to move freely.

DEKORA

FACADE CONNECTOR



The **DEKORA** Facade Connector ensures simple, fast, and secure installation of closed cladding made of wood or wood-like materials.

The concealed tongue and groove fixing protects the exterior surface from the effects of the weather and ensures optimum structural protection.

The chamfered locating guide facilitates installation and ensures smooth insertion and positioning of the cladding profile into the connector.

The connector compensates natural swelling movements of the cladding without any restrictions - swelling movements are absorbed by the integrated relief zones.

The cladding profiles are securely affixed to the substructure via the cladding connector using the provided system screw.

OVERVIEW

Material:	Aluminium-zinc coated sheet metal
	Aluminium-zinc coated sheet metal with additional C4 zinc flake coating black
	System screw ELITA hardened stainless steel
Fire rating:	Assured by metal connectors
Fastening type:	Concealed sliding point fastening
Façade profile:	Specific DEKORA profile

DEKORA

Description	PU	Prod. No.
Alu Zinc	100 PCS	015005000
Alu Zinc C4 black	100 PCS	015105000

SET-PACK

Each package contains the ELITA1 4.5 x 34mm system screws required for installation and assembly instructions

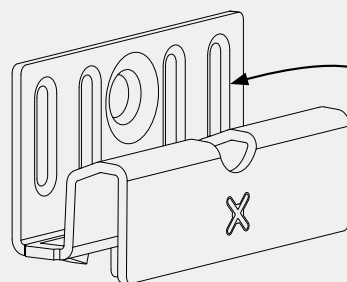


BRANDING

Custom branding upon request



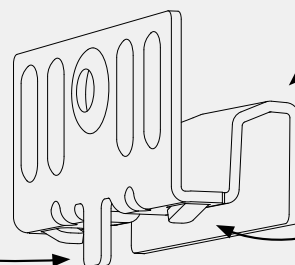
Positioning guides ensure smooth installation and alignment of the cladding profiles



Deformation forces on the substructure are counteracted by stabilising zones.

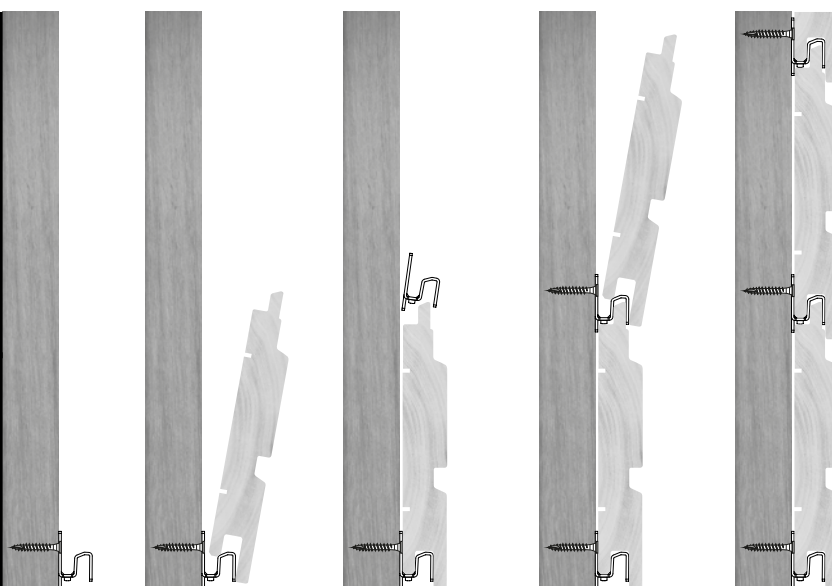
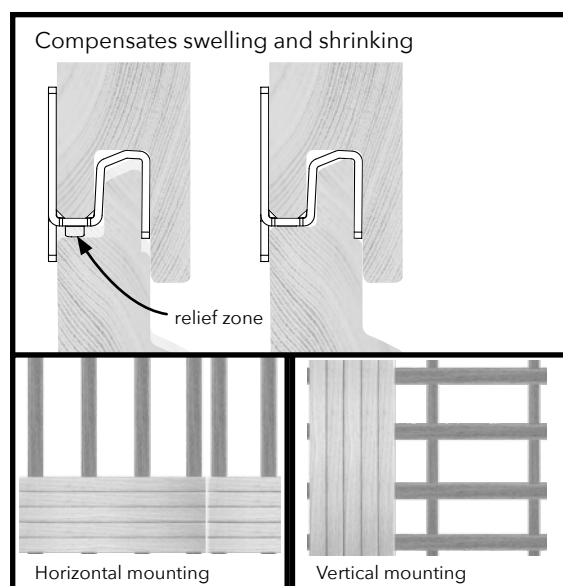
Long guiding zones secure the cladding profile and compensate shrinking movements

Guide tabs for quick and easy installation

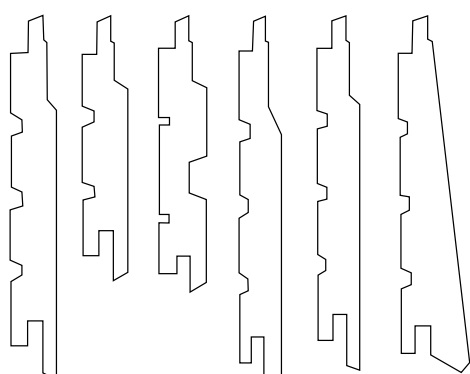


Chamfered locating guide for easy profile positioning

Integrated relief zones compensate swelling movements



DEKORA-
Profile



Maximum design flexibility.

DEKORA cladding profiles can be produced in a wide range of dimensions, wood species and surface finishes.

Local building regulations must be followed.

DOWNLOADS



Installation



Board exchange



Data sheet



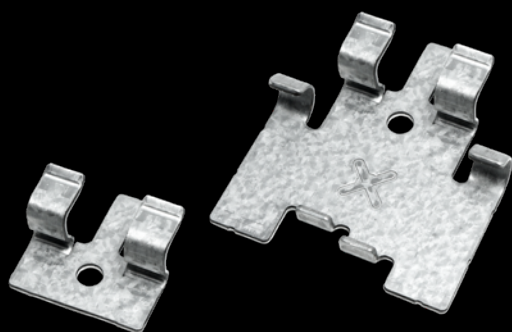
Tips & Tricks



Video

TIGA

FACADE CONNECTOR



The **TIGA** Facade Connector ensures simple, fast, and secure installation of open cladding profiles made of wood or wood-like materials.

This concealed clip-in connection protects the facade surface from the effects of the weather and provides perfect structural protection.

The installation and positioning guide makes it easy to position the cladding profile and automatically sets the distance between the joints.

The fixing system features a sliding and fixed-point installation, providing optimum controlled compensation for natural swelling and shrinking.

OVERVIEW

Material:	TIGA: Aluminium-zinc coated sheet metal
	TIGA2: Stainless steel A2 1.4301
	System screw UNIA: Hardened stainless steel
Fire rating:	Assured by metal connectors
Fastening type:	Concealed sliding and fixed point fixing
Facade profile:	Specific TIGA profile

TIGA

Description	PU	Prod. No.
Alu Zinc	100 PCS	005804002
Alu Zinc	800 PCS	005812000
Starter Piece	50 PCS	006202002

TIGA2

Description	PU	Prod. No.
Stainless steel	100 PCS	006004000
Stainless steel	800 PCS	006012000
Starter Piece	50 PCS	006302000



SET-PACK

Each package contains the UNIA1 4.2 x 28 mm system screws required for installation and assembly instructions

BRANDING
Custom branding
upon request



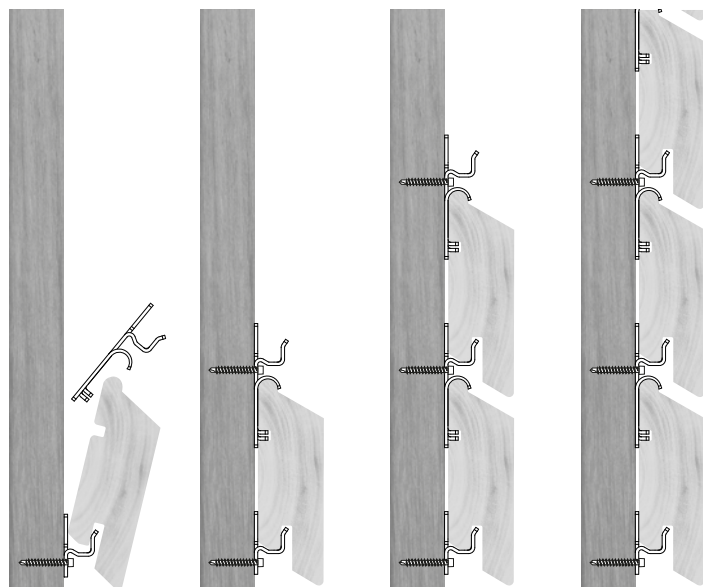
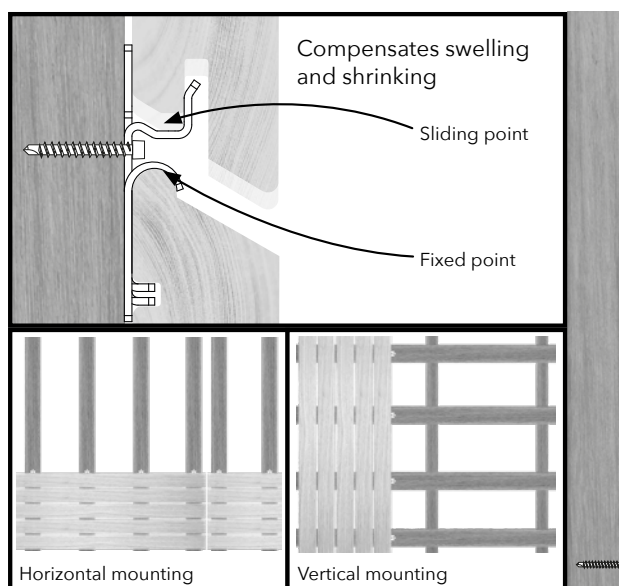
Easy positioning of the cladding profile with integrated mounting and positioning guide

A single screw saves assembly time and ensures a secure fixation

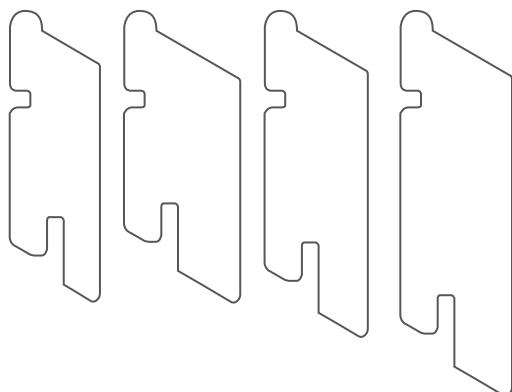
Starter clip for the installation of the first row

Click-in mechanism for intuitive, screwless profile attachment

Mounting hooks hold the profile perfectly in place without damaging the profile



TIGA-Profile



Maximum flexibility in the design selection.

TIGA cladding profiles can be produced in a wide range of dimensions, wood species and surface finishes.

Local building regulations must be followed.

DOWNLOADS



Installation



Board exchange



Data sheet



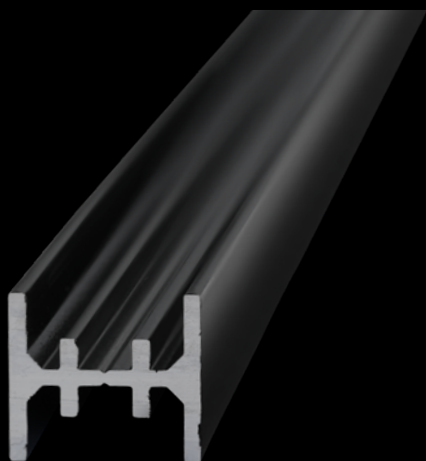
Tips & Tricks



Video

FASADO

FACADE CONNECTOR



The **FASADO** Facade Connector enables quick and easy installation of vertically arranged facade battens and horizontally arranged rhombus profiles for cladding, fencing, or privacy screen construction.

The 360 mm long connector permits several facade boards or rhombus profiles to be pre-mounted at one time. Only 5 connectors are required per m².

The symmetrical connector design features a two-sided channel including an integrated V-groove for guided and efficient screw placement. Pre-drilling of the screw hole is not normally required.

The exposed visible surface remains protected and intact from weathering due to the rear screw fixing. This ensures the best structural protection and at the same time results in a stylish design.

If required, the facade connector can be easily adjusted to the required length, e.g. for an end connection or for batten facade applications.

OVERVIEW

Material:	Aluminium EN AW 6060 T66
	Powder coated black RAL 9005
Fire rating:	Assured by metal connectors
Fastening type:	Concealed fixed point fixation
Façade profile:	Natural and modified wood species Rhombus - Square-edged profiles

FASADO

Description	PU	Prod. No.
without Accs.	25 PCS	016805000

FASADO-SETS

Description	PU	Prod. No.
28 mm - 100	25 PCS	016805001
28 mm - 200	25 PCS	016805002
33 mm - 100	25 PCS	016805003
33 mm - 200	25 PCS	016805004



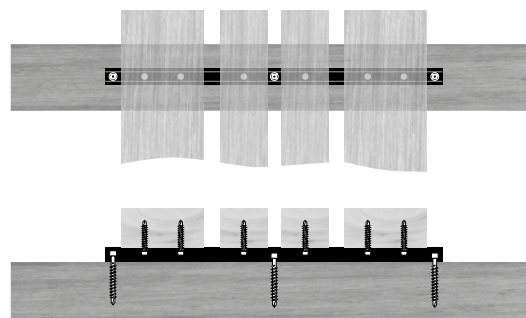
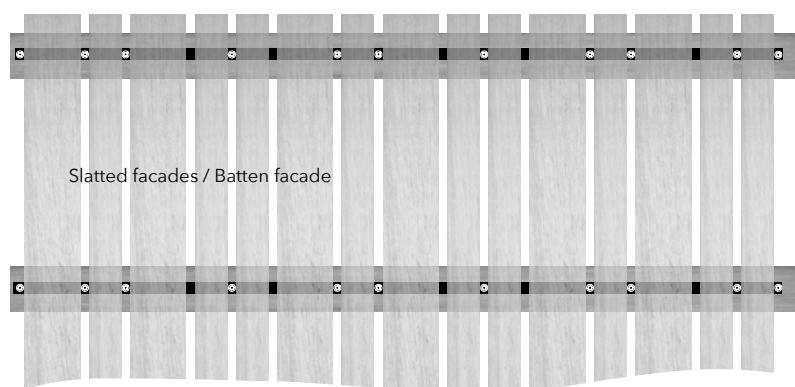
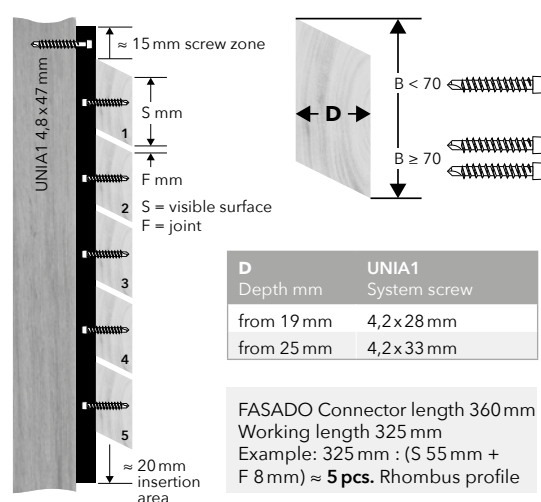
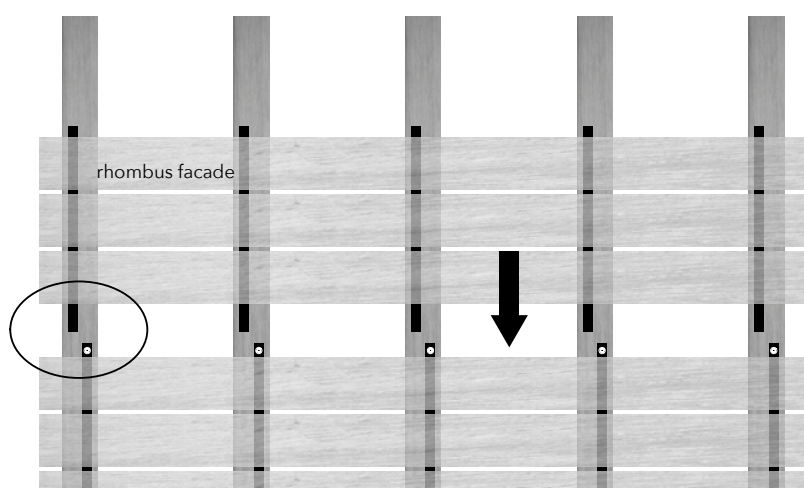
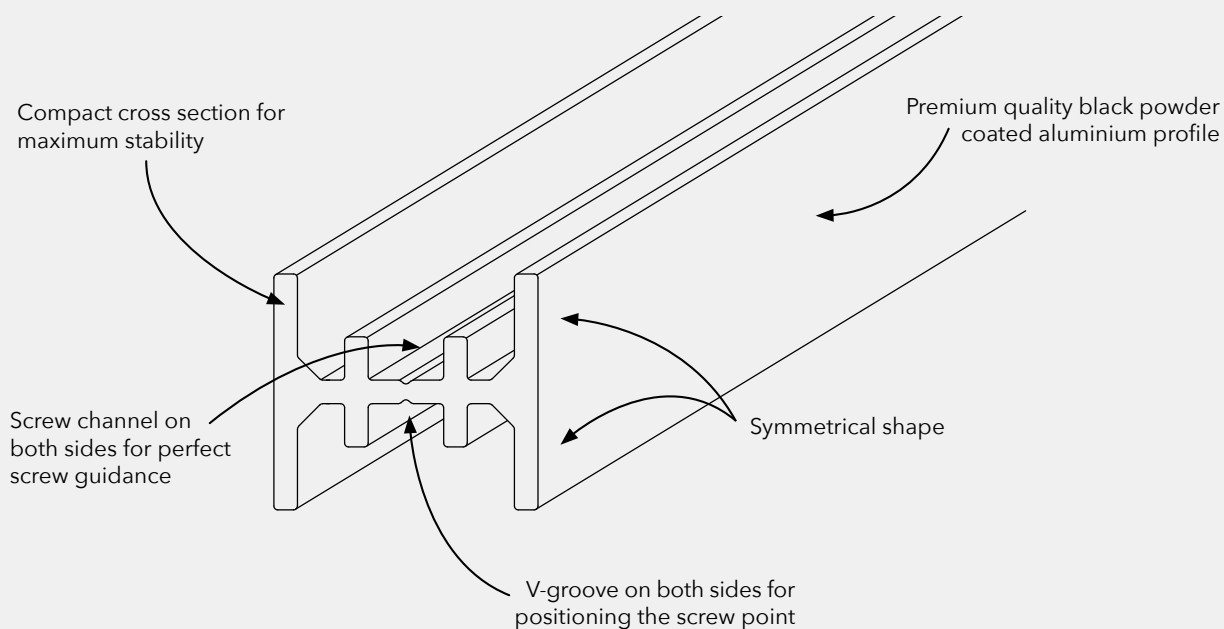
SET-PACK

Each pack contains the UNIA1 4.2 x 28 mm or 4.2 x 33 mm system screws required for installation (100 or 200 pieces) and 25 UNIA1 4.8 x 47 mm screws including assembly instructions.



BRANDING

Custom branding upon request



The wooden battens are fixed at the back with one or two screws, depending on the width of the batten. The fixing to the sub-structure is carried out between the wooden battens.

DOWNLOADS



Installation



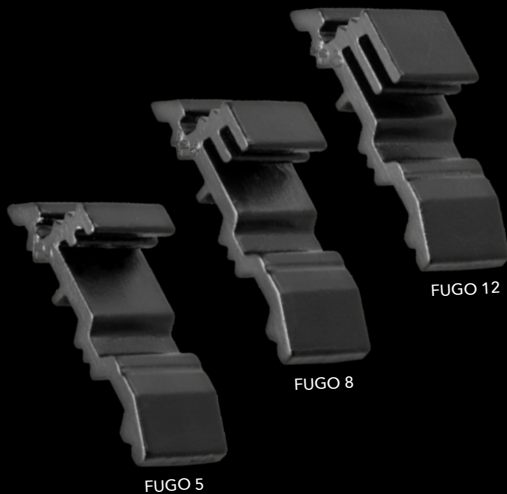
Data sheet



Tips & Tricks

FUGO

FACADE SPACER

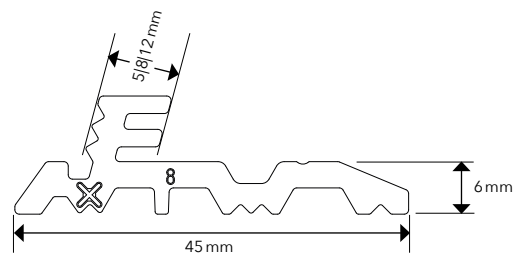


The **FUGO** Facade Spacer is the perfect accessory for visibly fixing rhombus cladding profiles made of wood or wood-like materials.

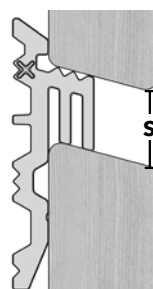
The specially shaped joint spacers between the individual rhombus profiles create a uniform shadow gap and ensure the perfect look for wooden facades, privacy screens, fences, etc.

Thanks to the integrated grooves on the spacer, rhombus boards can be easily and quickly positioned and secured.

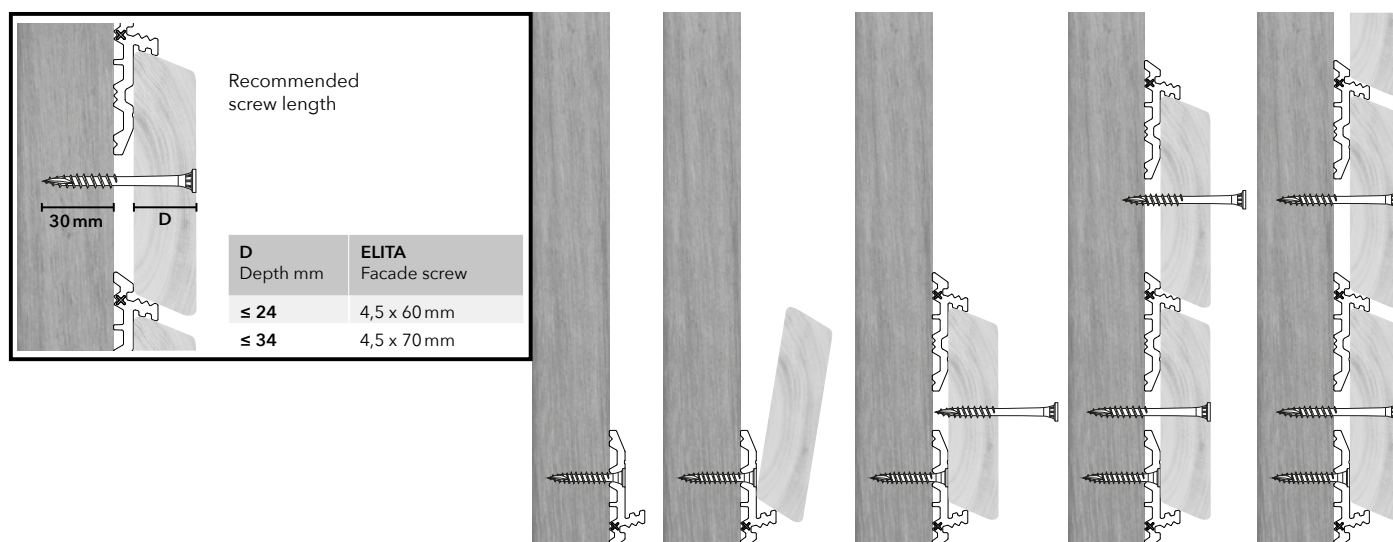
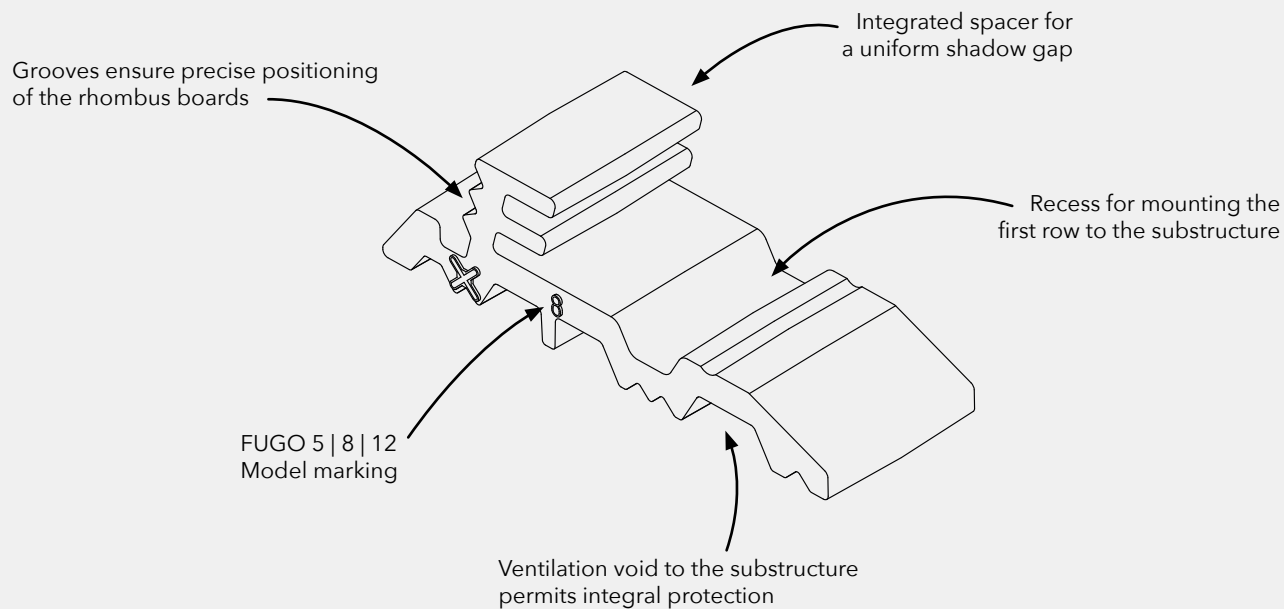
A space of 6 mm creates a ventilation void to the substructure and prevents the formation of waterlogging.



OVERVIEW	
Material:	PP Polypropylene Recycled black UV and weather resistant
Fire rating:	Assured by visible screws
Fastening type:	Distance spacer for visible screw installation
Façade profile:	Natural and modified wood species Rhombus profiles with 15 to 30° angles



	VISIBLE JOINT (S)		
	15° Rhombus	25° Rhombus	30° Rhombus
FUGO 5	≈ 5 mm	≈ 6 mm	≈ 7 mm
FUGO 8	≈ 9 mm	≈ 10 mm	≈ 11 mm
FUGO 12	≈ 13 mm	≈ 14 mm	≈ 15 mm



FUGO		
Description	PU	Prod. No.
FUGO 5	200 PCS	016004000
FUGO 8	200 PCS	016104000
FUGO 12	200 PCS	016204000



BRANDING
Custom branding
upon request



SET-PACK
Each packaging unit
contains 200 pcs. FUGO +
200 pcs. ELITA and assem-
bly instructions

FUGO 5 SET + ELITA1		
Description	PU	Prod. No.
4.5x60 mm	200 PCS	030705000
4.5x70 mm	200 PCS	030805000

FUGO 8 SET + ELITA1		
Description	PU	Prod. No.
4.5x60 mm	200 PCS	030705001
4.5x70 mm	200 PCS	030805001

FUGO 12 SET + ELITA1		
Description	PU	Prod. No.
4.5x60 mm	200 PCS	030705002
4.5x70 mm	200 PCS	030805002

FUGO 5 SET + ELITA2		
Description	PU	Prod. No.
4.5x60 mm	200 PCS	017405000
4.5x70 mm	200 PCS	017505000

FUGO 8 SET + ELITA2		
Description	PU	Prod. No.
4.5x60 mm	200 PCS	017405001
4.5x70 mm	200 PCS	017505001

FUGO 12 SET + ELITA2		
Description	PU	Prod. No.
4.5x60 mm	200 PCS	017405002
4.5x70 mm	200 PCS	017505002

DOWNLOADS



Installation



Data sheet



Tips & Tricks



Video

ELITA

DECKING AND FACADE SCREW



ELITA stainless steel screws are designed for high quality fastening of decking or cladding boards to wood or wood-like substructures.

The specially designed tip with integrated cutting notch, optimised thread for reduced insertion force and 3-zone countersunk head ensure the best possible screw fastening results.

Direct visible fixing of decking boards allows quick installation and easy replacement of individual boards.

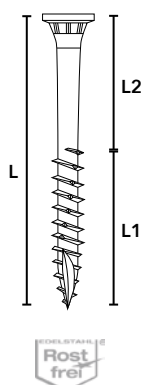
Depending on the cladding board design the ELITA 4.5 mm can be used for concealed or visible fixing.

ELITA2 Made from A2 austenitic stainless steel, the material's exceptional resilience makes it ideal for use with wood with higher swelling and shrinkage processes.

CE according to DIN EN 14592-2008

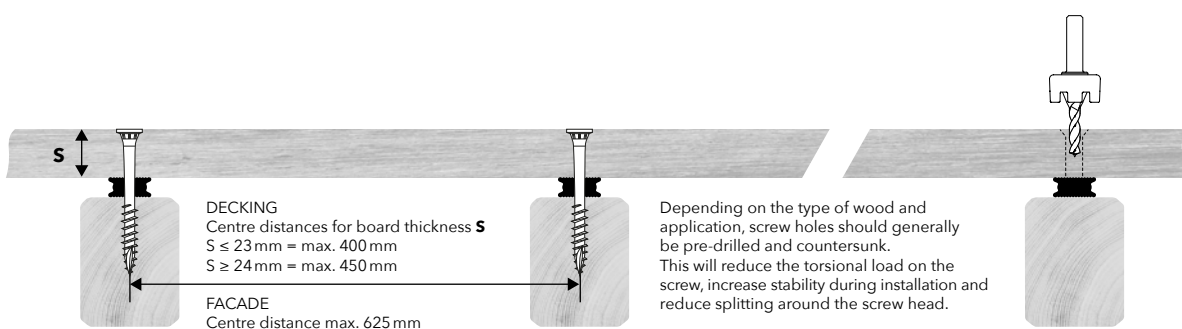
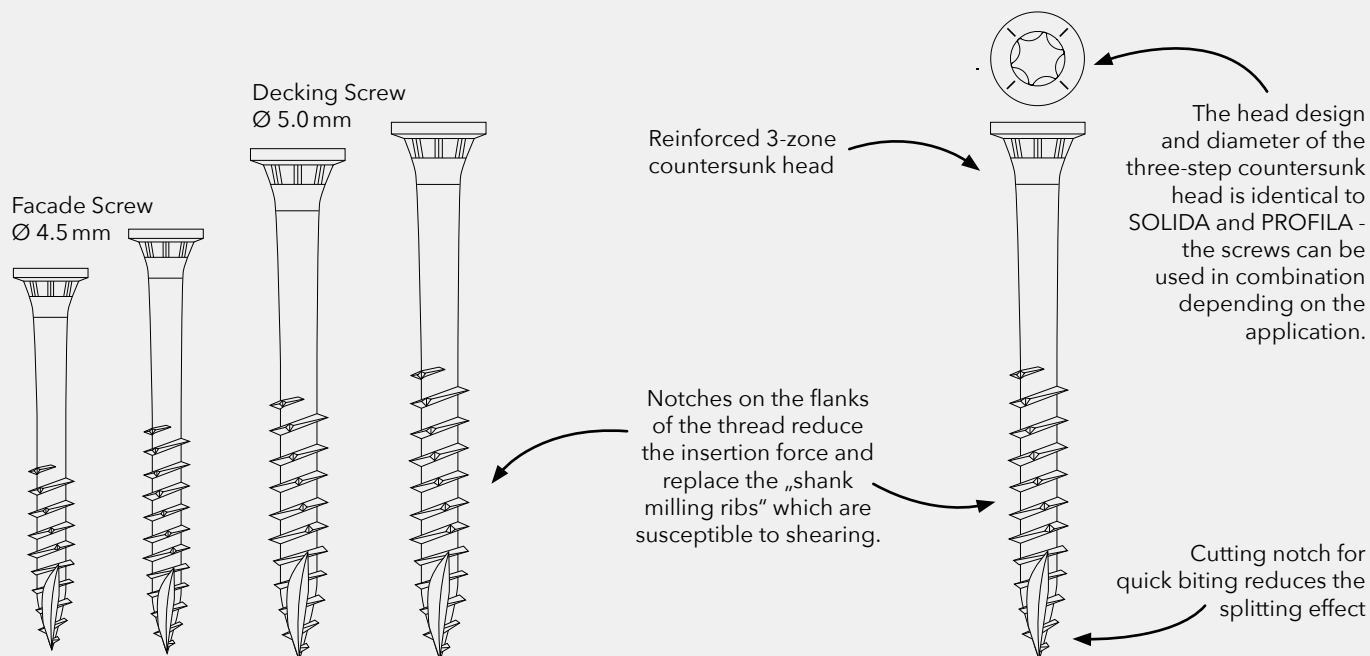
ELITA1 Hardened stainless steel is the proven high breaking torque version. Its superior tensile strength makes it ideal for demanding screw connections.

OVERVIEW							
Dimension mm			ELITA 1		ELITA 2		
L	L1	L2	Ø 4.5	Ø 5.0	Ø 4.5	Ø 5.0	
40	24	16		■			
50	28	22	■	■	■	■	
60	34	26	■	■	■	■	
70	40	30	■	■	■	■	
80	44	36	■	■			■
Screw head diameter			6.5	7.5	6.5	7.5	
TX Drive			TX20	TX25	TX20	TX25	
Material			Hardened stainless steel 1.4006		Stainless steel A2 1.4567 CE		



ELITA 1 Facade Screws		
Description	PU	Prod. No.
4.5x50 mm	150 PCS	030602000
4.5x50 mm	300 PCS	030603000
4.5x60 mm	150 PCS	030702000
4.5x60 mm	300 PCS	030703000
4.5x60 mm black	300 PCS	030703003
4.5x70 mm	150 PCS	030802000
4.5x70 mm	300 PCS	030803000
4.5x80 mm	150 PCS	030902000
4.5x80 mm	300 PCS	030903000

ELITA 1 Decking Screws		
Description	PU	Prod. No.
5.0x40 mm	100 PCS	031102000
5.0x40 mm	200 PCS	031103000
5.0x50 mm	100 PCS	031202000
5.0x50 mm	200 PCS	031203000
5.0x60 mm	100 PCS	031302000
5.0x60 mm	200 PCS	031303000
5.0x70 mm	100 PCS	031402000
5.0x70 mm	200 PCS	031403000
5.0x80 mm	100 PCS	031502000
5.0x80 mm	200 PCS	031503000



DOWNLOADS



Data sheet

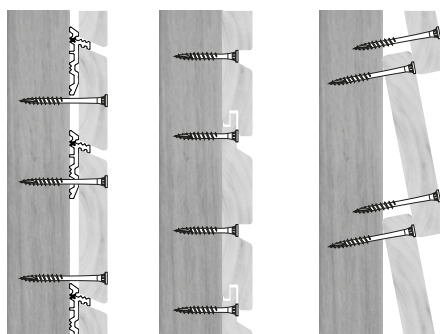


CE

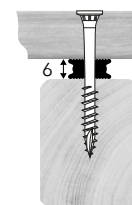
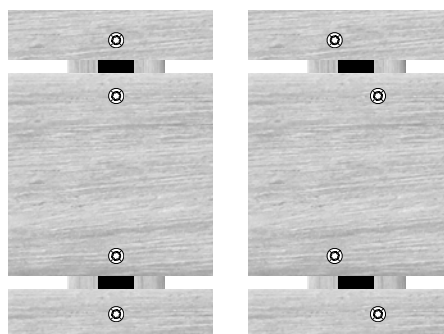


Tips & Tricks

APPLICATION EXAMPLES FACADE



APPLICATION EXAMPLES DECKING



A height distance of 6 mm between the substructure and the decking board reduces the shear effect on the fastener by up to 50%.



BRANDING
Custom branding upon request

ELITA 2 Facade Screws			€€
Description	PU	Prod. No.	
4.5 x 50 mm	150 PCS	017302000	
4.5 x 50 mm	300 PCS	017303000	
4.5 x 60 mm	150 PCS	017402000	
4.5 x 60 mm	300 PCS	017403000	
4.5 x 70 mm	150 PCS	017502000	
4.5 x 70 mm	300 PCS	017503000	

ELITA 2 Decking Screws			€€
Description	PU	Prod. No.	
5.0 x 50 mm	100 PCS	018002000	
5.0 x 50 mm	200 PCS	018003000	
5.0 x 60 mm	100 PCS	018102000	
5.0 x 60 mm	200 PCS	018103000	
5.0 x 70 mm	100 PCS	018202000	
5.0 x 70 mm	200 PCS	018203000	
5.0 x 80 mm	100 PCS	018302000	
5.0 x 80 mm	200 PCS	018303000	

ELITA 1 SETS		
Description	PU	Prod. No.
5.0 x 50 mm	600 PCS	031205000
5.0 x 60 mm	600 PCS	031305000
5.0 x 70 mm	600 PCS	031405000
5.0 x 80 mm	600 PCS	031505000
ELITA 2 SETS		
Description	PU	Prod. No.
5.0 x 50 mm	600 PCS	018005000
5.0 x 60 mm	600 PCS	018105000
5.0 x 70 mm	600 PCS	018205000
5.0 x 80 mm	600 PCS	018305000



SET-PACKAGING

Each package contains
1 pc HELPO countersink tool
2 pcs HELPO assembly aids
1 pc HELPO bit TX25 50 mm



SOLIDA

STAINLESS STEEL SELF-TAPPING SCREW



SOLIDA stainless steel self-tapping screws can be universally applied to exterior fixing applications due to their wide range of dimensions.

Direct visible fastening or concealed reverse side wood to wood mounting is possible due to the integrated self-tapping point which delivers reduced splitting effects.

The 3-zone countersunk head has an optimised head diameter for an aesthetically pleasing appearance.

SOLIDA4 Made from A4 austenitic stainless steel, can withstand increased deformation forces and has high corrosion resistance, ideal for coastal applications. SOLIDA4 is perfect for screwing decking to wooden or aluminium substructures.

CE according to DIN EN 14592-2008

SOLIDA1 Hardened stainless steel: The high breaking torque stainless steel self-tapping screw for universal applications.



BRANDING
Custom branding
upon request

DOWNLOADS



Data sheet

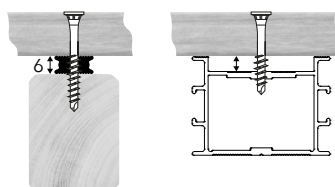


CE



Tips & Tricks

SOLIDA4 is suitable for fixing decking boards to timber and aluminium substructures. A height distance of 6.0 mm between the substructure and the decking board reduces the shear effect on the fastener by up to 50%.



SOLIDA4		
Description	PU	Prod. No.
5.5x40mm	100 PCS	003702000
5.5x40mm	200 PCS	003802000
5.5x50mm	100 PCS	003802000
5.5x50mm	200 PCS	003803000
5.5x60mm	100 PCS	004002000
5.5x60mm	200 PCS	004003000
5.5x70mm	100 PCS	004202000
5.5x70mm	200 PCS	004203000
5.5x80mm	100 PCS	004102000
5.5x80mm	200 PCS	004103000

Universal range
of applications

Ø 3.2 mm

Ø 4.0 mm

Ø 4.5 mm

Ø 5.0 mm

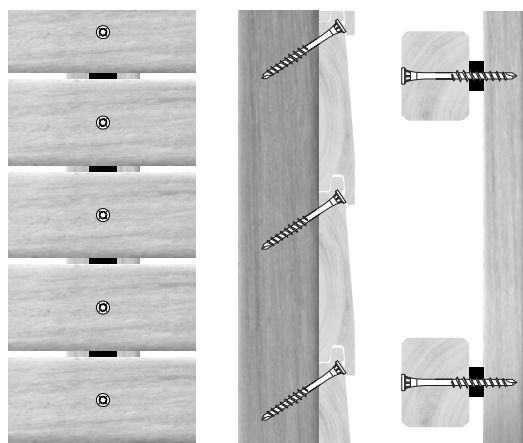
Terrace Screws
Ø 5.5 mm

Reinforced 3-zone
countersunk head

Notches on the flanks
of the thread reduce
the insertion force and
replace the „shank
milling ribs“ which are
susceptible to shearing.

The head design
and diameter of the
three-step countersunk
head is identical to
ELITA and PROFILA - the
screws can be used in
combination depending
on the application.

Cutting notch for
quick biting reduces
the splitting effect

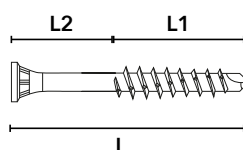


UNIVERSAL WOOD-TO-WOOD SCREW CONNECTIONS

Depending on the type of wood and application, screw holes should generally be pre-drilled and countersunk. This will reduce the torsional load on the screw, increase stability during installation and reduce splitting around the screw head.

OVERVIEW

Dimensions mm			SOLIDA 1				SOLIDA 4
L	L1	L2	Ø 3.2	Ø 4.0	Ø 4.5	Ø 5.0	Ø 5.5
25	16	9	■				
30	18	12	■	■			
35	21	14	■	■			
40	24	16	■	■	■	■	■
45	26	19		■	■		
50	28	22	■	■	■	■	■
60	34	26	■	■	■	■	■
70	40	30			■	■	■
80	44	36				■	■
90	50	40				■	
100	55	45				■	
Screw head diameter			5.0	6.0	6.5	7.5	7.5
TX Drive			TX10	TX20	TX20	TX25	TX25
Material			Hardened stainless steel 1.4006				Stainless steel A4 1.4401 CE
Drilling capacity			Aluminium not specified				up to 3.0 mm



SOLIDA1		
Description	PU	Prod. No.
3.2 x 25 mm	250 PCS	000102000
3.2 x 25 mm	500 PCS	000103000
3.2 x 30 mm	250 PCS	000202000
3.2 x 30 mm	500 PCS	000203000
3.2 x 35 mm	250 PCS	000302000
3.2 x 35 mm	500 PCS	000303000
3.2 x 40 mm	250 PCS	000402000
3.2 x 40 mm	500 PCS	000403000
3.2 x 50 mm	250 PCS	000502000
3.2 x 50 mm	500 PCS	000503000
3.2 x 60 mm	250 PCS	000602000
3.2 x 60 mm	500 PCS	000603000

SOLIDA1		
Description	PU	Prod. No.
4.0 x 30 mm	250 PCS	000702001
4.0 x 30 mm	500 PCS	000703001
4.0 x 35 mm	250 PCS	000802001
4.0 x 35 mm	500 PCS	000803001
4.0 x 40 mm	250 PCS	000902002
4.0 x 40 mm	500 PCS	000903001
4.0 x 45 mm	250 PCS	001002001
4.0 x 45 mm	500 PCS	001003001
4.0 x 50 mm	250 PCS	001102001
4.0 x 50 mm	500 PCS	001103001
4.0 x 60 mm	250 PCS	001302001
4.0 x 60 mm	500 PCS	001303002

SOLIDA1		
Description	PU	Prod. No.
4.5 x 40 mm	150 PCS	001402000
4.5 x 40 mm	300 PCS	001403000
4.5 x 45 mm	150 PCS	001502000
4.5 x 45 mm	300 PCS	001503000
4.5 x 50 mm	150 PCS	001602000
4.5 x 50 mm	300 PCS	001603000
4.5 x 60 mm	150 PCS	001802000
4.5 x 60 mm	300 PCS	001803000
4.5 x 70 mm	150 PCS	002002000
4.5 x 70 mm	300 PCS	002003000

SOLIDA1		
Description	PU	Prod. No.
5.0 x 40 mm	100 PCS	002102000
5.0 x 40 mm	200 PCS	002103000
5.0 x 50 mm	100 PCS	002302000
5.0 x 50 mm	200 PCS	002303000
5.0 x 60 mm	100 PCS	002502000
5.0 x 60 mm	200 PCS	002503000
5.0 x 70 mm	100 PCS	002702000
5.0 x 70 mm	200 PCS	002703000
5.0 x 80 mm	100 PCS	002802000
5.0 x 80 mm	200 PCS	002803000
5.0 x 90 mm	100 PCS	002902000
5.0 x 90 mm	200 PCS	002903000
5.0 x 100 mm	100 PCS	003002000
5.0 x 100 mm	200 PCS	003003000

PROFILA

METAL PROFILE SELF-TAPPING SCREW



PROFILA PROFILA self-tapping screws are suitable for fixing wood or wood-like materials to aluminium or steel substructures.

The special design of the self-tapping point, combined with the thread, provides a perfect hold without pre-drilling the metal profiles.

To ensure that the PROFILA screw can rotate freely in the board to be joined and reach the required speed (similar to a metal drill), the board should be pre-drilled with a 5.5 mm diameter hole.

The geometry of the countersunk screw head has 3 steps which permit a perfect precise flush finish.

PROFILA2 Metal self-tapping Screws are ideal for visible fixing of decking boards to aluminium substructures. The resilient A2 austenitic stainless-steel screws can absorb natural swelling and shrinking movements of the decking boards.

€ according to DIN EN 14592-2008

PROFILA1 Self-tapping screws are used for screw connections to steel profiles. The high-breaking torque version in hardened stainless steel can drill through steel profiles up to a wall thickness of 2.5 mm.

BRANDING
Custom branding
upon request

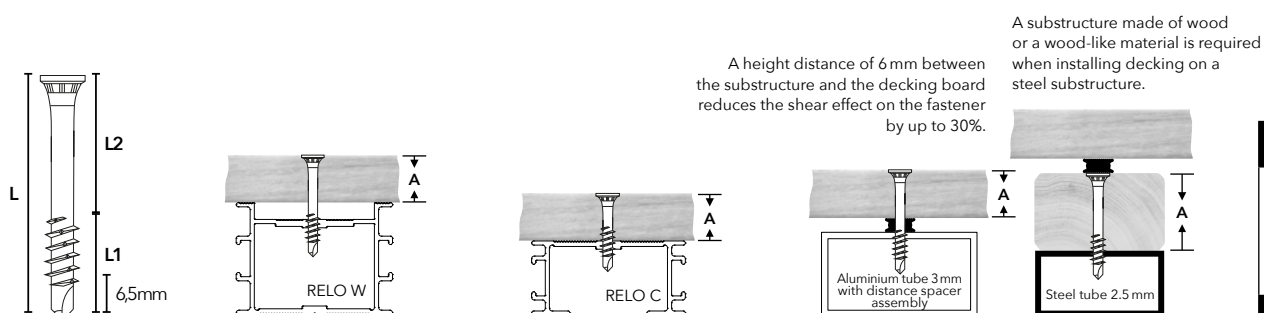
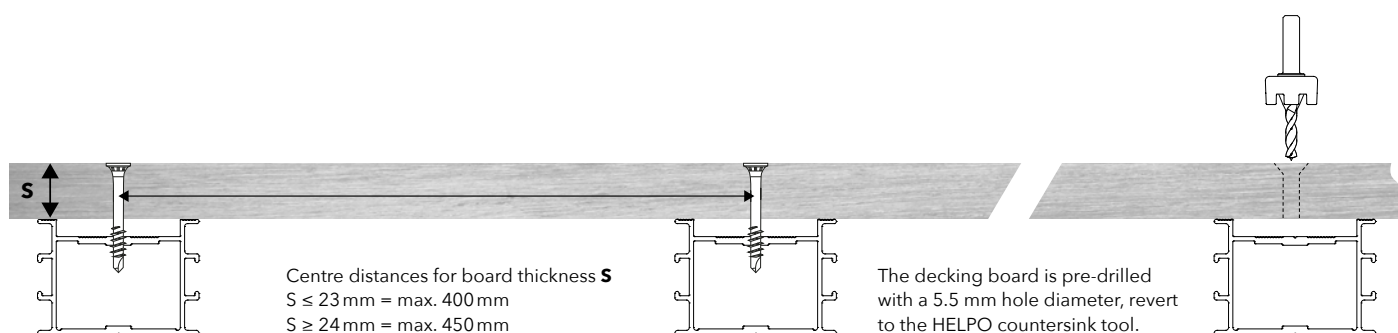
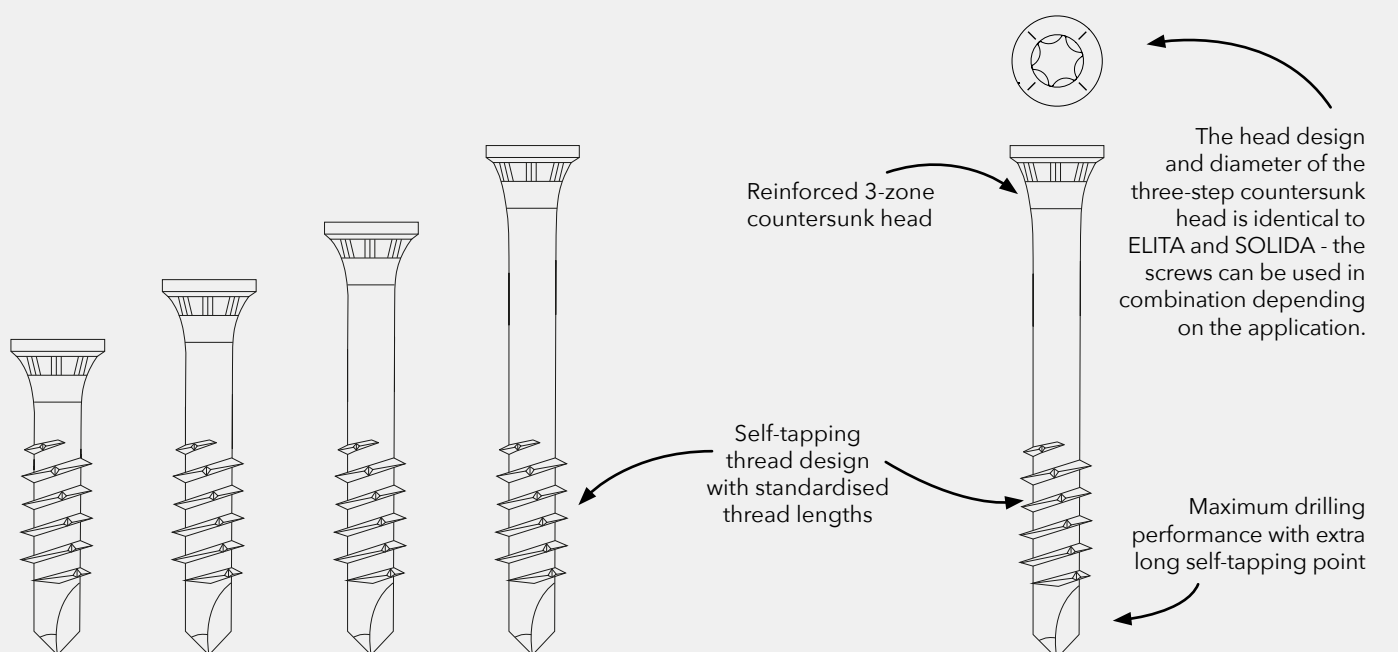


PROFILA1		
Description	PU	Prod. No.
5.5x35 mm	100 PCS	004302000
5.5x35 mm	200 PCS	004303000
5.5x40 mm	100 PCS	004402000
5.5x40 mm	200 PCS	004403000
5.5x45 mm	100 PCS	004502000
5.5x45 mm	200 PCS	004503000
5.5x50 mm	100 PCS	004602000

Description	PU	Prod. No.
5.5x50 mm	200 PCS	004603000
5.5x55 mm	100 PCS	004702000
5.5x55 mm	200 PCS	004703000
5.5x60 mm	100 PCS	004802000
5.5x60 mm	200 PCS	004803000
5.5x65 mm	100 PCS	004902000
5.5x65 mm	200 PCS	004903000

PROFILA2		
Description	PU	Prod. No.
5.5x35 mm	100 PCS	019002000
5.5x35 mm	200 PCS	019003000
5.5x40 mm	100 PCS	019102000
5.5x40 mm	200 PCS	019103000
5.5x45 mm	100 PCS	019202000
5.5x45 mm	200 PCS	019203000
5.5x50 mm	100 PCS	019302000

Description	PU	Prod. No.
5.5x50 mm	200 PCS	019303000
5.5x55 mm	100 PCS	019402000
5.5x55 mm	200 PCS	019403000
5.5x60 mm	100 PCS	019502000
5.5x60 mm	200 PCS	019503000
5.5x65 mm	100 PCS	019602000
5.5x65 mm	200 PCS	019603000



OVERVIEW			PROFILA2				PROFILA1
Dimensions mm			RELO W Sub-structure	RELO C Sub-structure	RELO C with 6 mm distance	Aluminium tube with 6 mm distance	Steel sectional tube
L	L1	L2	A = Element to be connected				A
35	30	5	4-18	10-24	4-18	4-18	5-24
40	30	10	9-23	15-29	9-23	9-23	10-29
45	30	15	14-28	20-34	14-28	14-28	15-34
50	30	20	19-33	25-39	19-33	19-33	20-39
55	30	25	24-38	30-44	24-38	24-38	25-44
60	30	30	29-43	35-49	29-43	29-43	30-49
65	30	35	34-48	40-54	34-48	34-48	35-54
Screw head diameter			7,5				7,5
TX Drive			TX25				TX25
Material			Stainless steel A2 1.4567 CE				Hardened stainless steel 1.4006
Drilling capacity			Aluminium up to 3.5 mm thick				Steel up to 2.5 mm

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Installation



Data Sheet



CE



Tips & Tricks

BASO

DECKING SPACER



BASO is a spacer that allows ventilation and prevents water and dirt accumulation between the decking and the substructure.

The integrated spring elements contribute to a secure connection, prevent the generation of noise and increase the comfort of walking.

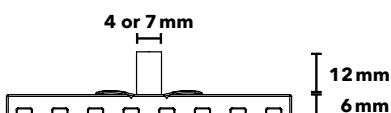
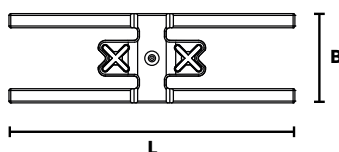
The 6 mm height extension allows screw flexibility thus absorbing the swelling and shrinking effects drastically reducing the risk of shearing.

Specially designed joint spacer guides between the decking boards allow for rapid assembly and absorb swelling movements.

The BASO distance spacer can be modified for the first and last board rows, simply cut along the marked recessed line.

OVERVIEW

Dimensions:	Length 80 mm Width 25 mm Height 6 mm Joint spacer 4 mm Joint spacer 7 mm
Material:	PP Polypropylene Recycled black UV and weather resistant
Fastening type:	Distance spacer for visible screw connections



BASO		
Description	PU	Prod. No.
4 mm	100 PCS	016305000
7 mm	100 PCS	016405000

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upon request

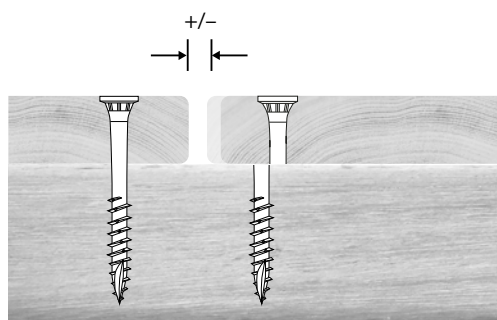
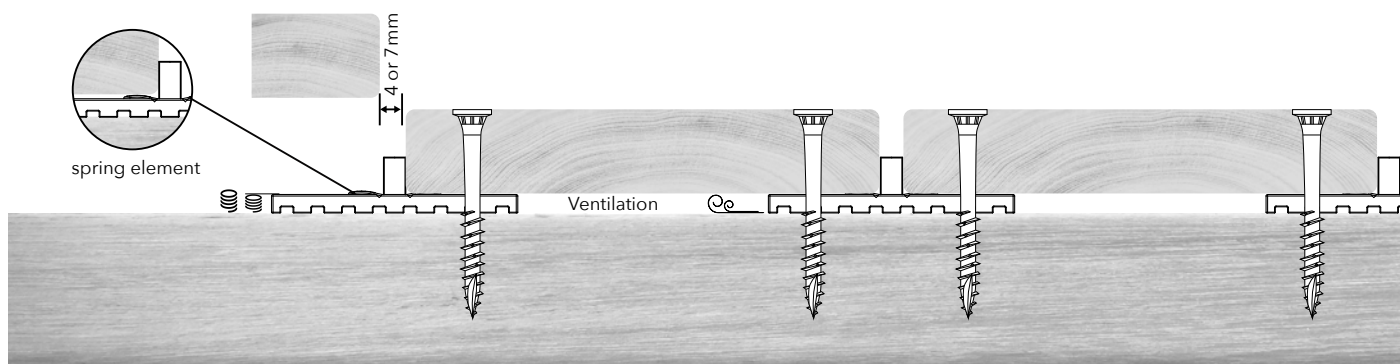


Spring elements contribute to a secure connection, prevent noise generation and increase walking comfort

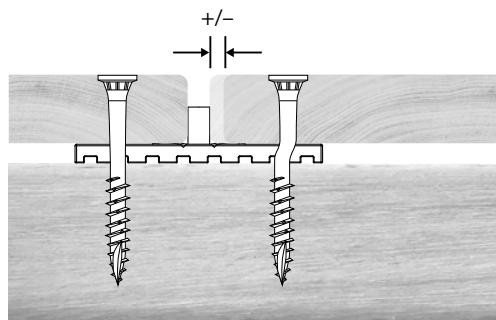
Joint distance spacer ensures uniform spacing during assembly and absorbs decking swelling movements

The 6 mm height provides structural protection to the entire deck structure and protects the screws from shearing

Recess line for simple start and end modification



Shearing without BASO ✗



BASO reduces the shear forces by 50% ✓

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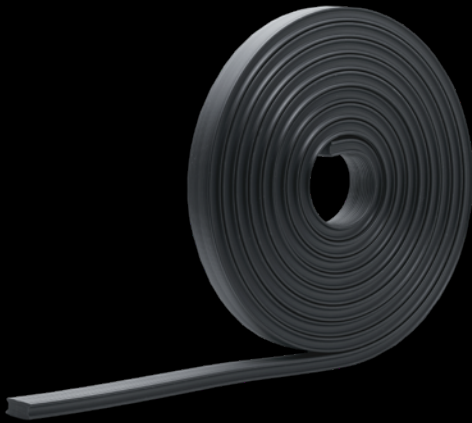
Data sheet



Tips & Tricks

GUMO D

DISTANCE BAND



GUMO D Distance Band on a roll provides optimum ventilation, eliminating the risk of water and dirt accumulating between the decking boards and the substructure.

The narrow width design of only 15mm permits (minimal contact area between the decking board and substructure) perfect structural protection.

The 6 mm height extension allows screw flexibility thus absorbing the swelling and shrinking effects drastically reducing the risk of shearing.

The ribbed surface provides shock absorbing benefits with excellent grip for visible screw connections. The material of GUMO D is screw through for easy installation.

The solid material is extremely resilient to compression loads exerted during screw installation, thus keeping the deck surface level and flush.

A practical and handy roll of 10 running meters ensures a simple and fast assembly process.

OVERVIEW

Dimensions:	Roll length 10 m Width 15 mm Height 6 mm
Material:	Thermoplastic Recycled black UV and weather resistant
Fastening type:	Distance spacer for visible screw connections

GUMO D

Description	PU	Prod. No.
Roll 10 metres	8 ROL	007113000

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Custom branding
upon request

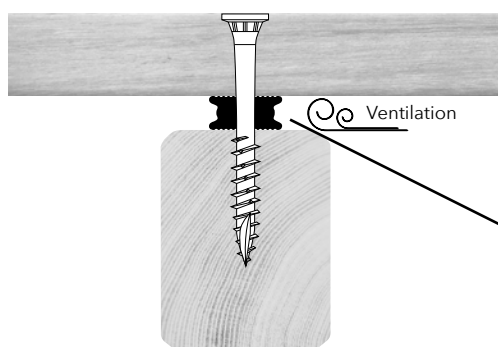


Ribbed surface provides grip and shock absorption, dampening sound and increasing walking comfort

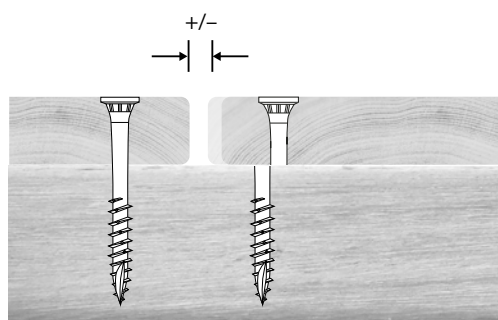
Screw-through material allows free and easy positioning during the screw installation

Distance band resilient to high compression loads

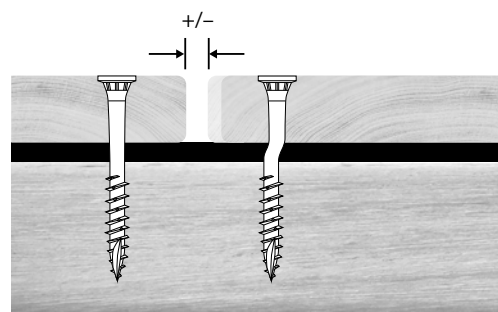
The narrow width provides structural protection



Decking and facade substructures



Shearing without GUMO D ✗



GUMO D reduces the shear forces by 50% ✓

DOWNLOADS



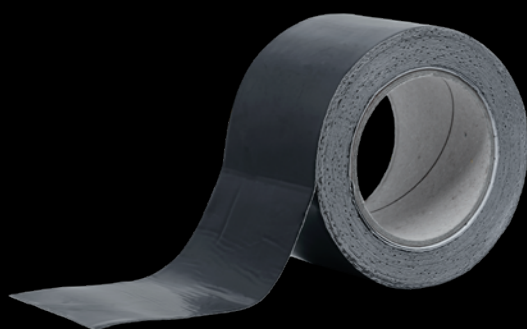
Data sheet



Tips & Tricks

GUMO K

SUBSTRUCTURE PROTECTION & INSULATION TAPE



GUMO K is a self-adhesive protection and insulation tape for wood and aluminium substructures.

GUMO K permanently protects the top of wooden substructures from dirt and water accumulation.

GUMO K insulates the contact surface between a concealed fastener and the substructure, e.g. DILA on a RELO substructure rail.

The rubber-like material is highly resilient and delivers perfect functionality in its application.

The practical and handy 10 metre roll makes installation quick and easy.

OVERVIEW

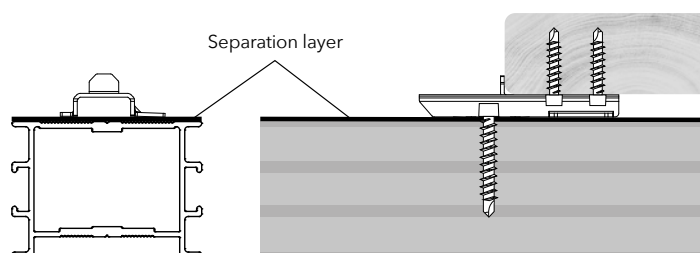
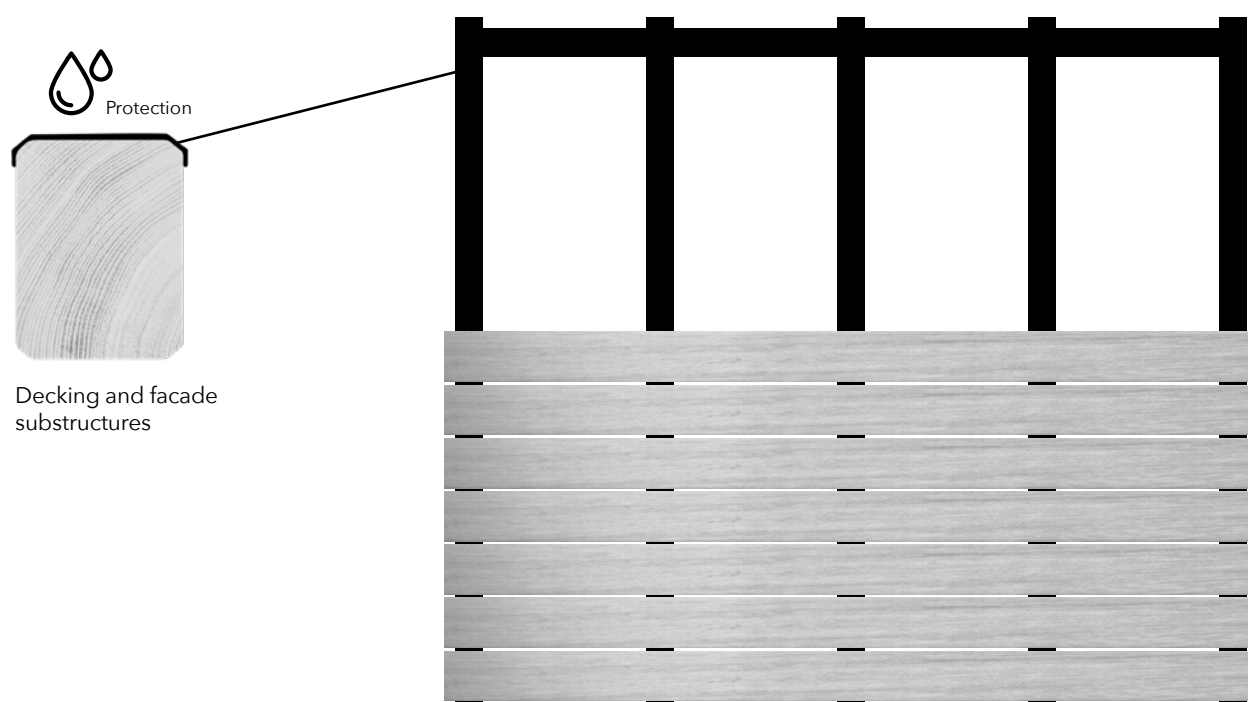
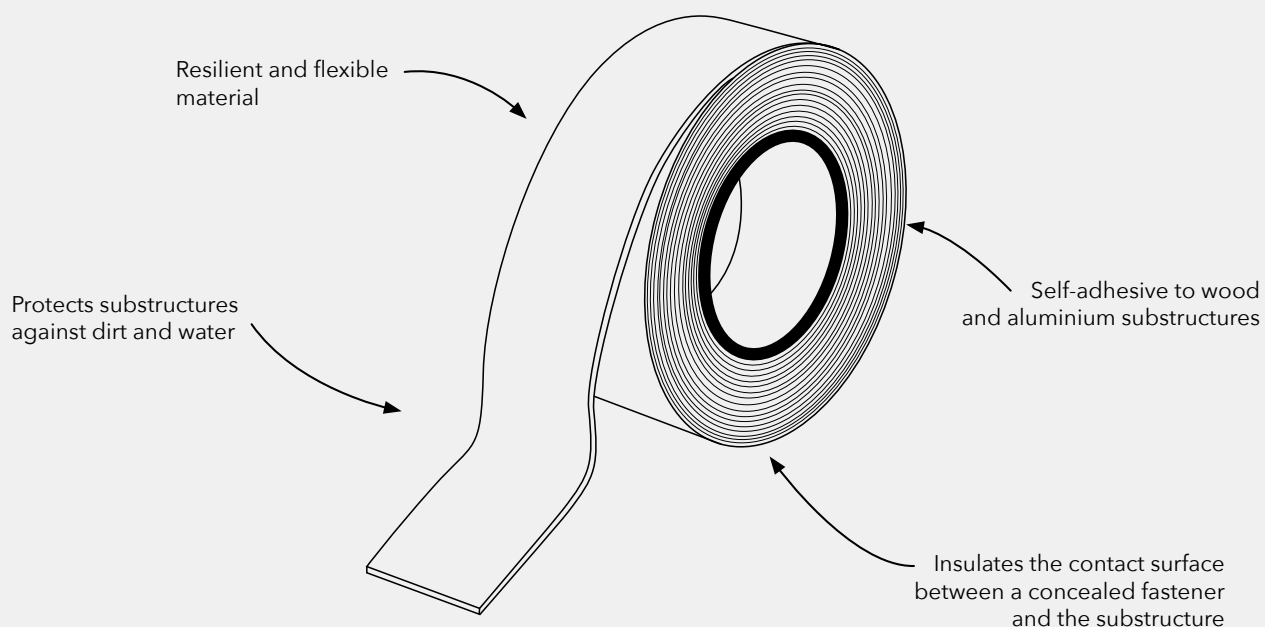
Dimensions:	Roll length 10 m Width 75 mm
Material:	HDPE Polyethylene black Butyl rubber UV and weather resistant
Fastening type:	Self-adhesive tape for wood, aluminium, stainless steel, ... Adhesive surfaces must be dry and dust-free

GUMO K

Description	PU	Prod. No.
Roll 10 metres	10 ROL	011912000

BRANDING
Custom branding
upon request





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Data sheet



Tips & Tricks



Video

DILA

UNIVERSAL DECKING CONNECTOR



The robust universal hidden fastening system **DILA** can be reliably used for decking applications regardless of board dimensions.

Rear mounting of the connector to the board is facilitated by an integrated mounting guide which allows easy positioning.

Freely selectable joint spacing, adapted to the board width and its characteristics, allows perfect decking appearance and design. No additional start or end connectors are required.

The fastening system is characterized by a sliding and fixed-point installation method: Natural swelling and shrinking movements are optimally controlled and regulated.

The substructure can be made of wood, wood-like materials or materials or aluminium.

OVERVIEW

Dimensions:	Length 54 mm Width 28 mm Height 6 mm Freely selectable joint spacing
Material:	Stainless steel Optional black surface coating UNIA System screw hardened stainless steel
Fastening type:	Sliding and fixed-point fixation
Decking profile:	Native and modified wood species Smooth-edged decking boards Thickness 19-32 mm

DILA

Description	PU	Prod. No.
17mm	50 PCS	006603000
17mm	200 PCS	006605000
17mm	800 PCS	006612000
22mm	50 PCS	006703000
22mm	200 PCS	006705000
22mm	800 PCS	006712000

DILA black

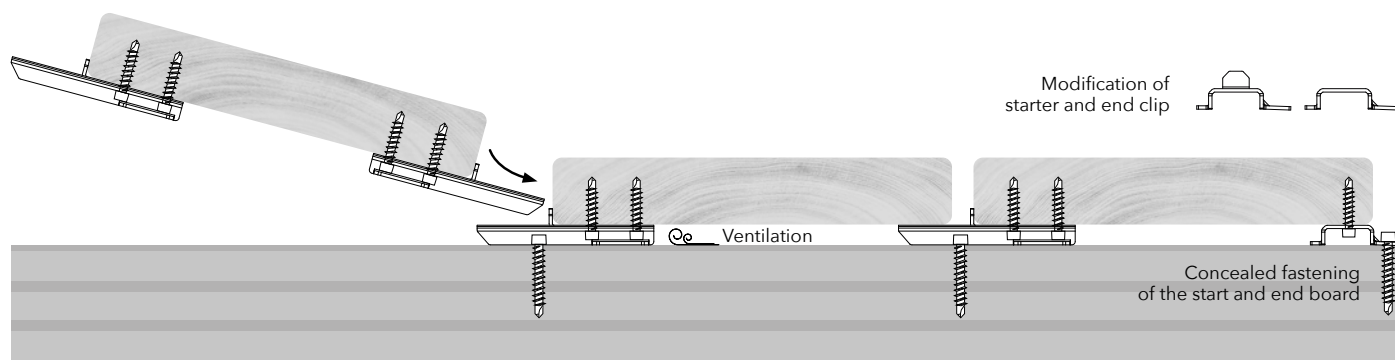
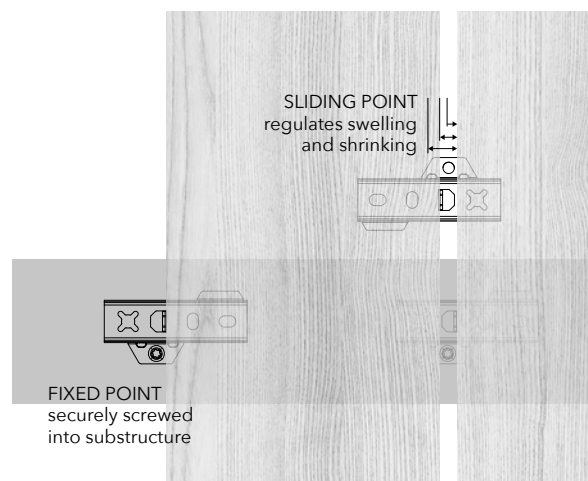
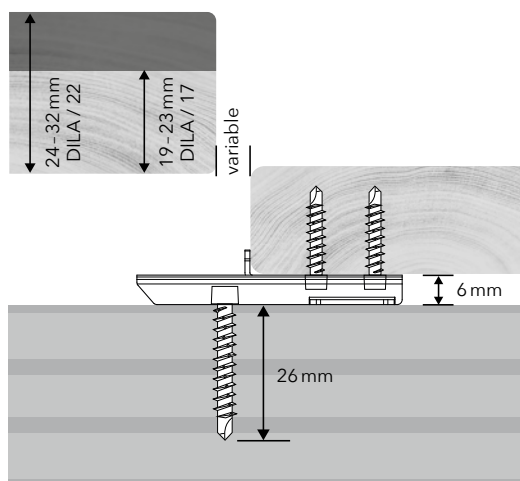
Description	PU	Prod. No.
17mm	50 PCS	006803001
17mm	200 PCS	006805000
17mm	800 PCS	006812000
22mm	50 PCS	006903000
22mm	200 PCS	006905000
22mm	800 PCS	006912000

Integrated assembly guide for easy positioning of the decking board

Elongated holes for precise positioning and position correction

Side fixing of the bracket eliminates the risk of the clip being pushed into wooden substructures

Side mounting allows for easy board replacement



BRANDING
Custom branding
upon request



SET-PACK
Each packaging contains the UNIA1 system
screws 4.2x17 mm or 4.2x22 mm and 4.2x28 mm
required for installation, 1 pc. HELPO assembly aid
and assembly instructions

DOWNLOADS



Installation



Board exchange



Data sheet



Tips & Tricks



Video

DILA C

UNIVERSAL DECKING CONNECTOR



The **DILA C** concealed decking connector guarantees a very simple and quick installation for decking made of wood or wood-like materials.

The rear screw connection protects the weathered surface of the decking boards, providing optimum structural protection and a stylish design.

Two flexible tension arms compensate for irregularities, such as cupping of the decking board and ensure a secure connection.

A drainage channel integrated in the decking connector additionally prevents the formation of waterlogging between the connector and the substructure.

The fastening system is characterized by a sliding and fixed-point installation method: Natural swelling and shrinking movements are optimally controlled and regulated.

Freely selectable joint spacing adapted to the board width and its characteristics allows for the perfect decking appearance and design.

No additional start- or end-connectors are required.

The substructure can be made of wood, wood-like materials or materials or aluminium.

OVERVIEW

Dimensions:	Length 60 mm Width 30 mm Height 10 mm Freely selectable joint spacing
Material:	PA6 30GF Polyamide, glass fibre reinforced UV and weather resistant UNIA System screw hardened stainless steel
Fastening type:	Sliding and fixed-point fixation
Decking profile:	Native and modified wood species Smooth-edged decking boards Thickness 19–32 mm

DILA C

PU	Prod. No.
100 PCS	017005000
300 PCS	017011000
900 PCS	017013000

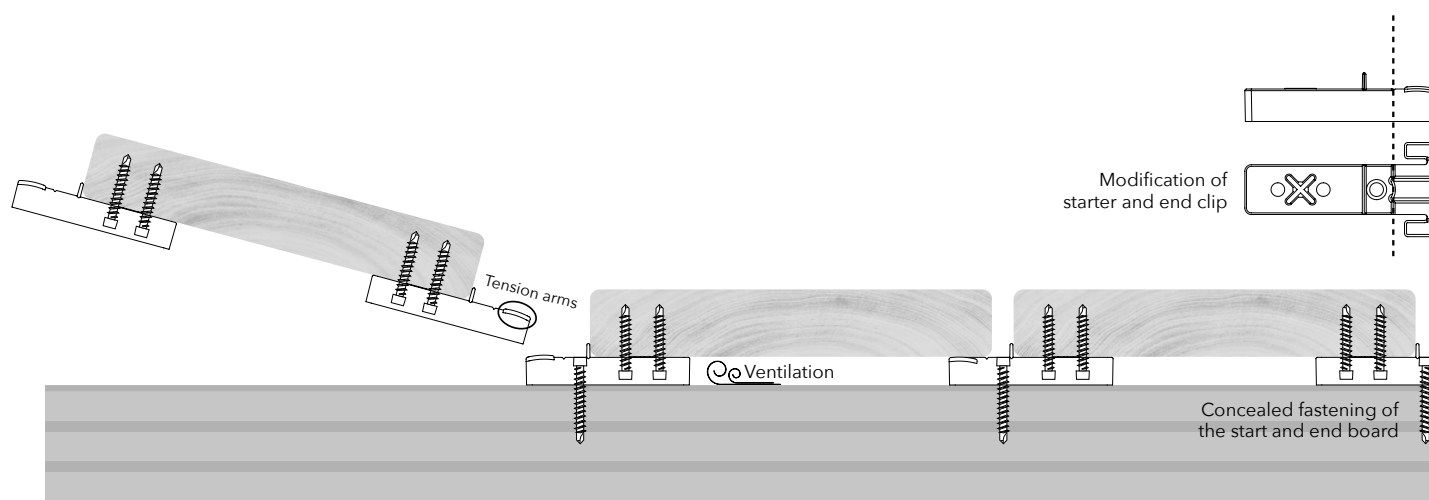
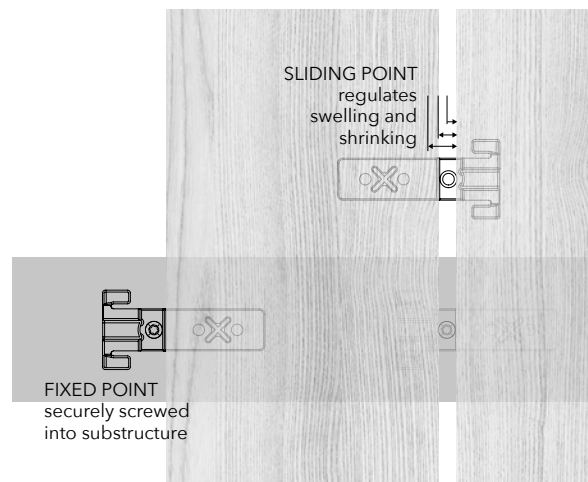
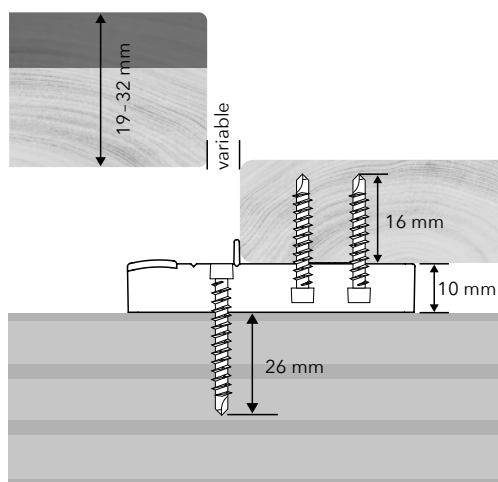
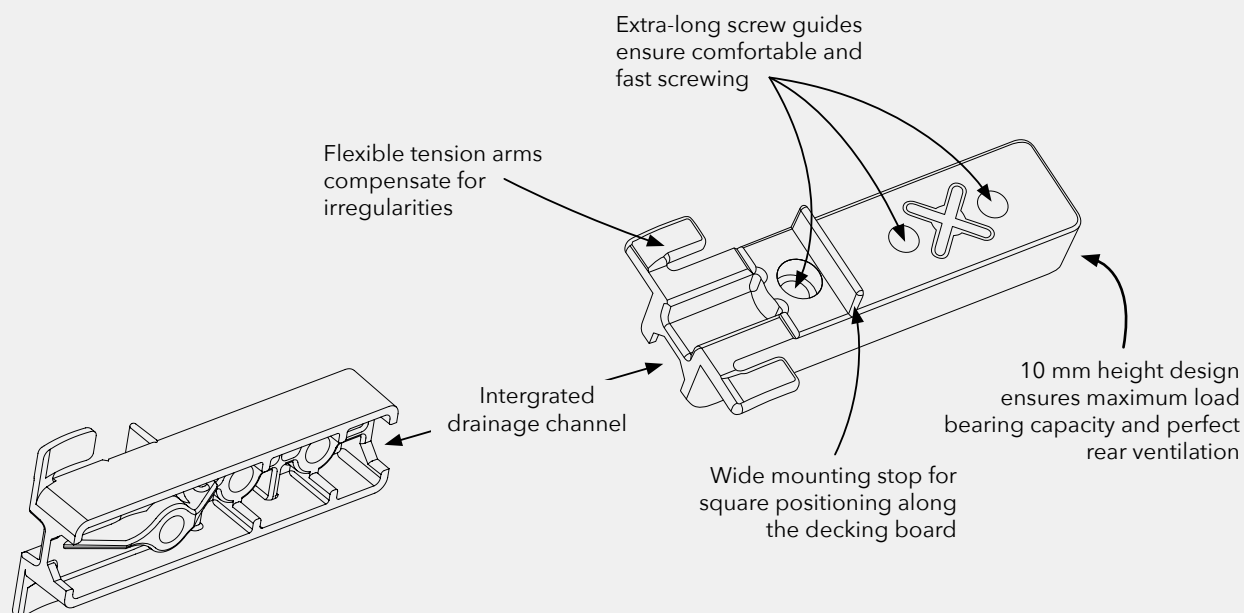
BRANDING
Custom branding
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SET-PACK

Each packaging contains the UNIA1 system screws 4.2x22mm and 4.2x33mm required for installation, 1 pc. HELPO assembly aid and assembly instructions





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Installation



Board exchange



Data sheet



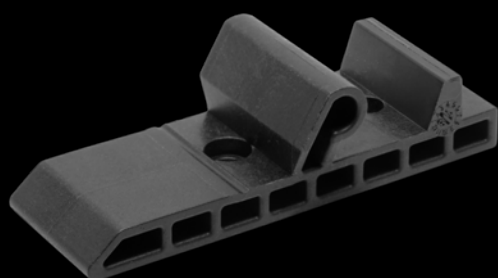
Tips & Tricks



Video

SUPRO H

DECKING CONNECTOR



The concealed **SUPRO H** decking connector ensures simple, fast and secure installation of SUPRO profiled decking boards.

The innovative SUPRO decking profile conceals the fastening system, provides a pleasing appearance, and offers perfect structural protection.

The interlocking system allows quick positioning of the connector to the board. The UNIA 4.2x17 mm screw on the underside provides additional support and secures the boards lengthwise.

The fastening system is characterized by a sliding and fixed-point installation method: Natural swelling and shrinking movements are optimally controlled and regulated.

Freely selectable joint spacing adapted to the board width and its characteristics allows for the perfect decking appearance and design.

Concealed fixing for the first and last row of boards is built into the connector as standard.

The substructure can be made of wood, wood-like materials or materials or aluminium.

OVERVIEW

Dimensions:	Length 62 mm Width 24 mm Height 6 mm Freely selectable joint spacing
Material:	PA6 50GF Composite material, black UV and weather resistant UNIA System screw hardened stainless steel
Fastening type:	Concealed Sliding point fixation
Decking profile:	Native and modified wood species with SUPRO H profiled decking boards Thickness 19 - 32 mm

SUPRO H

PU	Prod. No.
200 PCS	011511000
800 PCS	011513000

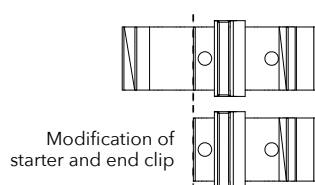
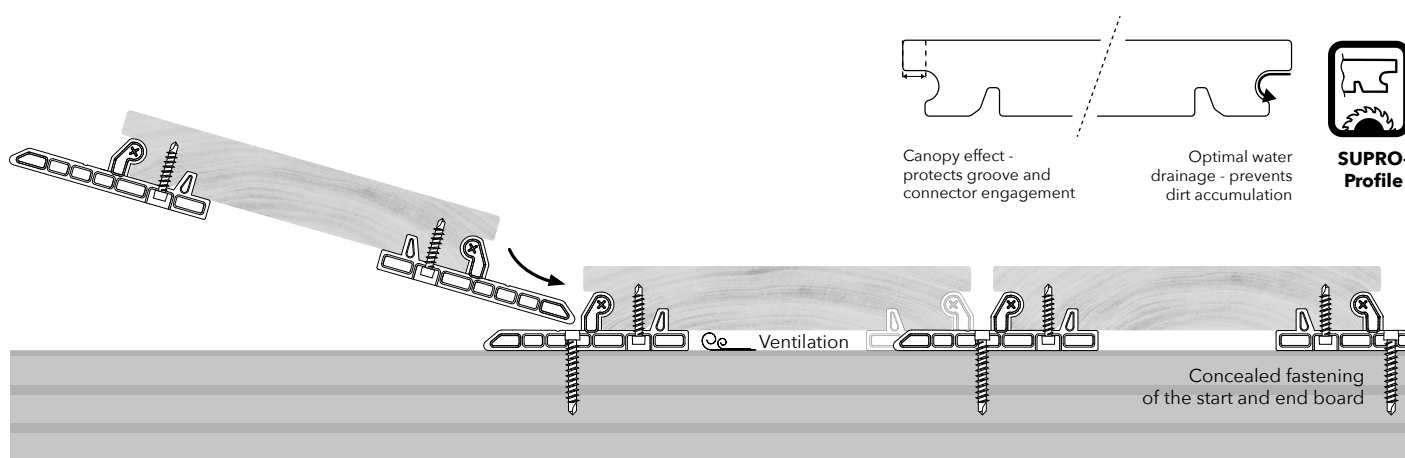
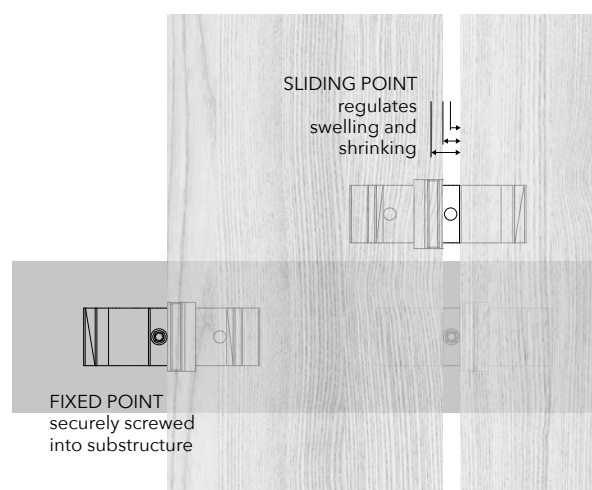
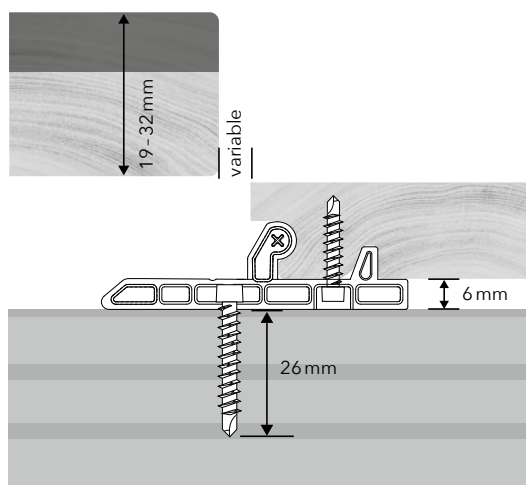
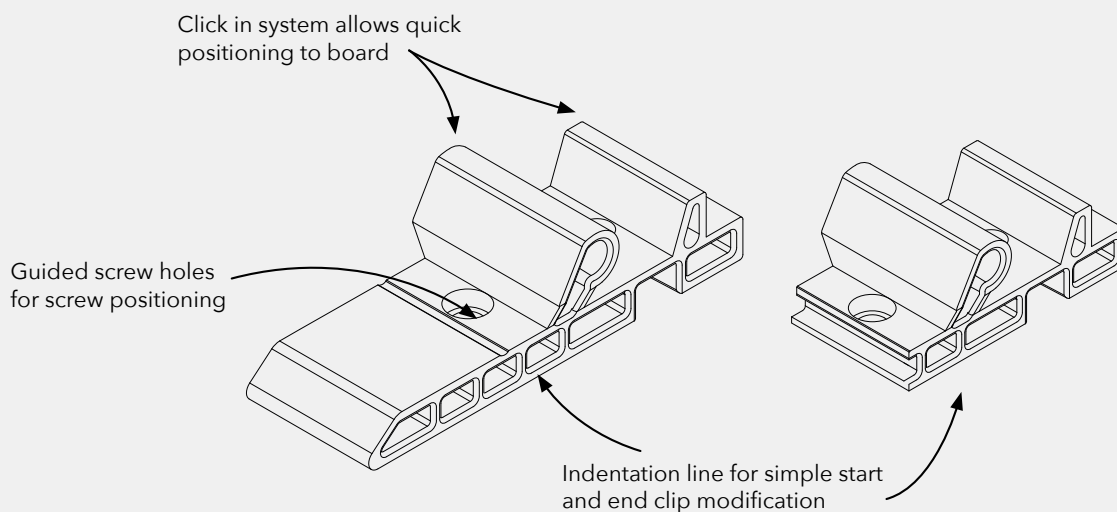
BRANDING
Custom branding
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SET-PACK

Each packaging contains the UNIA1 system screws 4.2 x 17 mm and 4.2 x 28 mm required for installation, 1 pc. HELPO assembly aid, 1 pc HELPO Bit TX20 and assembly instructions





DOWNLOADS



Installation



Board exchange



Data sheet



Tips & Tricks



Video

TENI

DECKING CONNECTOR



The **TENI** concealed decking connector provides a very simple, fast, and secure installation for modified, dimensionally stable woods and composite decking with concave side grooves.

The fastening system is distinguished by two independent engagement arms, the rigid side secures the board in place and the other absorbs any swelling and shrinking movements.

The dynamic and permanently flexible sliding point is automatically positioned by the angled screw connection to the substructure. Natural dimensional changes of each board are compensated by the pre-tensioning forces. Swelling is not transferred to adjacent boards - each board works independently - no chain reaction across the decking area.

The 8 mm base plate ensures perfect rear ventilation and structural protection of the structural components.

The boards can be replaced quickly and easily if required, due to the integrated pop-out feature.

The decking connector can be modified for the first and last board rows. No additional connector is required.

OVERVIEW

Dimensions:	Length 52 mm Width 40 mm Height 8 mm joint spacing 6 mm
Material:	POM polyoxymethylene black UV and weather resistant UNIA System screw hardened stainless steel
Fastening type:	Concealed Sliding point fixation
Decking profile:	Dimensionally stable and modified wood species with TENI profiled decking boards

TENI

Description	PU	Prod. No.
WOOD incl. System screw 4.2 x 45 mm	80 PCS	016905000
ALU incl. System screw 4.0 x 30 mm	80 PCS	016905001

RELO T 56 Aluminium substructure

Description	PU	Prod. No.
L 2,000 mm	99 PCS	032800000
L 4,000 mm	99 PCS	032800001

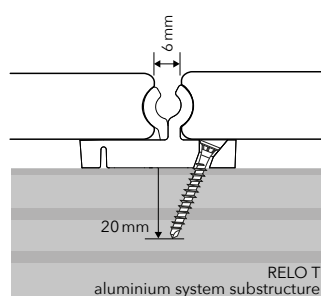
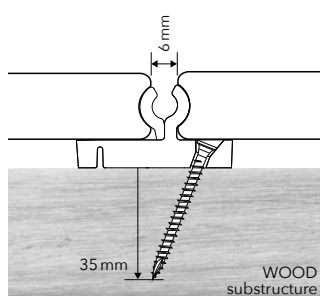
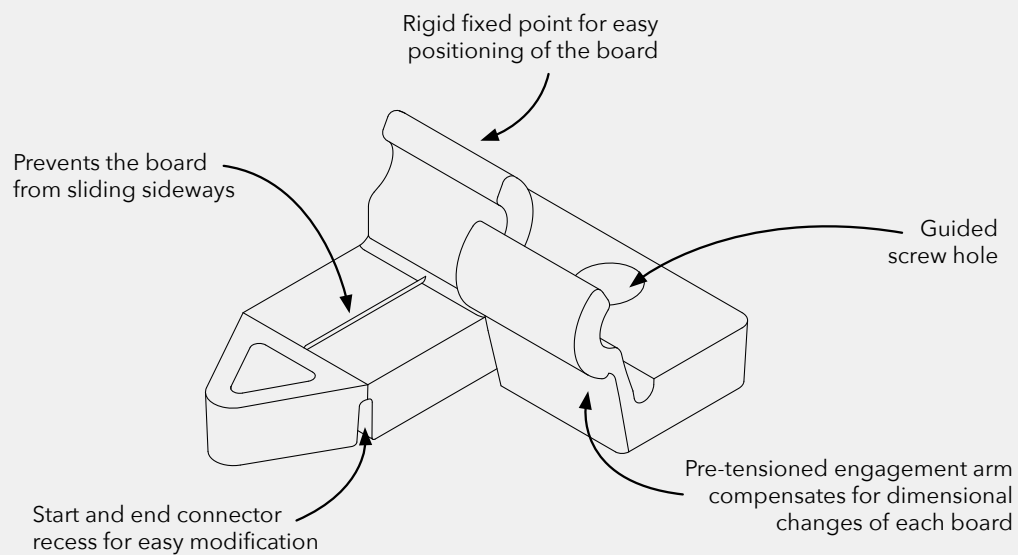
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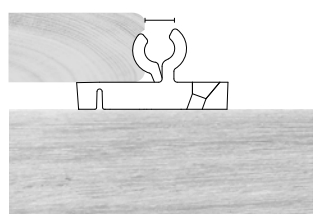
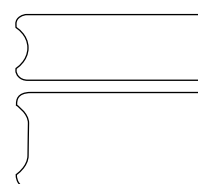
SET-PACK

Each packaging contains the system screws
required for installation, 1 pc HELPO Bit
TX20 and assembly instructions

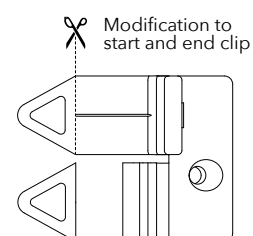
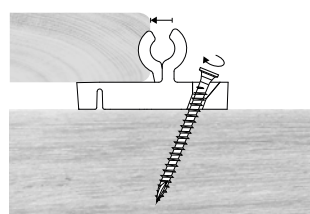




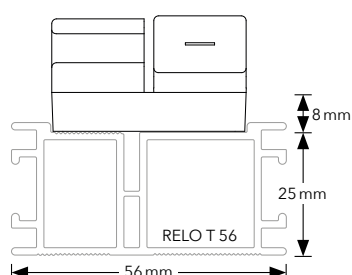
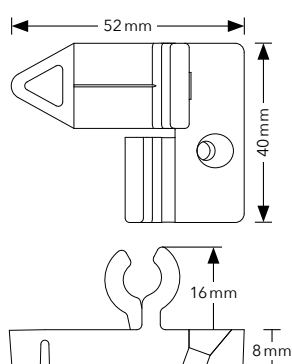
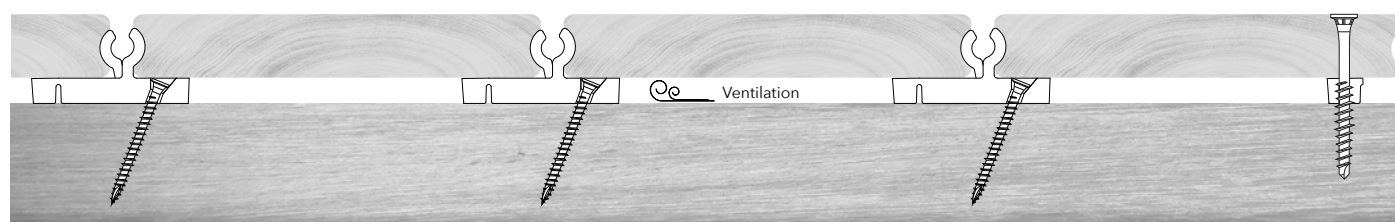
TENI-Profile



Pre-tensioned connector



Partially visible screw connection for end and start boards



DOWNLOADS



Installation



Board exchange



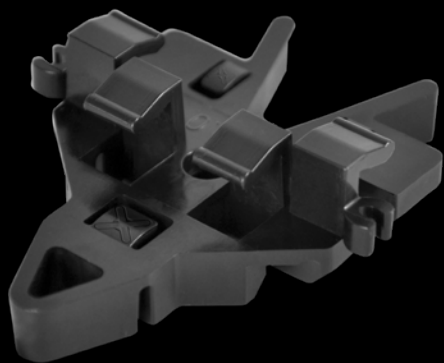
Data sheet



Tips & Tricks

KONEKTO N

DECKING CONNECTOR



The concealed decking connector **KONEKTO N** ensures a very easy, fast, and secure installation of modified, dimensionally stable wood species and composite decking boards with a side groove.

The decking board is clamped to the base plate by four flexible groove arms positioned in the side groove.

The flexible and permanently sprung groove arms automatically compensate for production-related irregularities in the decking board or its groove position.

As the screw head is housed in the base plate, it does not restrict the natural swelling and shrinking movements between the joints.

Two joint spacers ensure a consistent gap between the boards and can accommodate swelling and shrinking movements of up to 4 mm per board.

Swelling and shrinking movements are not transferred to the adjacent board – each board works independently, without a chain reaction across the entire decking area.

The substructure can be made of wood, wood-like materials, or aluminum.

OVERVIEW

Dimensions:	Length 74 mm Width 66 mm Height 10 mm joint spacing 6.3 mm
Material:	POM polyoxymethylene black UV and weather resistant UNIA System screw: hardened stainless steel or A4 Stainless steel
Fastening type:	Concealed Sliding point fixation
Decking profile:	Dimensionally stable and modified wood species with side grooved profiled decking boards

KONEKTO N with UNIA1

PU	Prod. No.
80 PCS	034511000
240 PCS	034513000

KONEKTO N with UNIA4

PU	Prod. No.
80 PCS	034511001
240 PCS	034513001



SET-PACK

Each packaging contains the screws required for installation, UNIA system screws 4.8 x 34 mm and assembly instructions

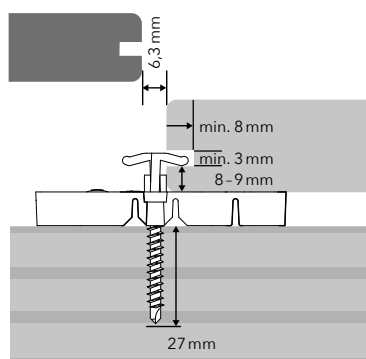
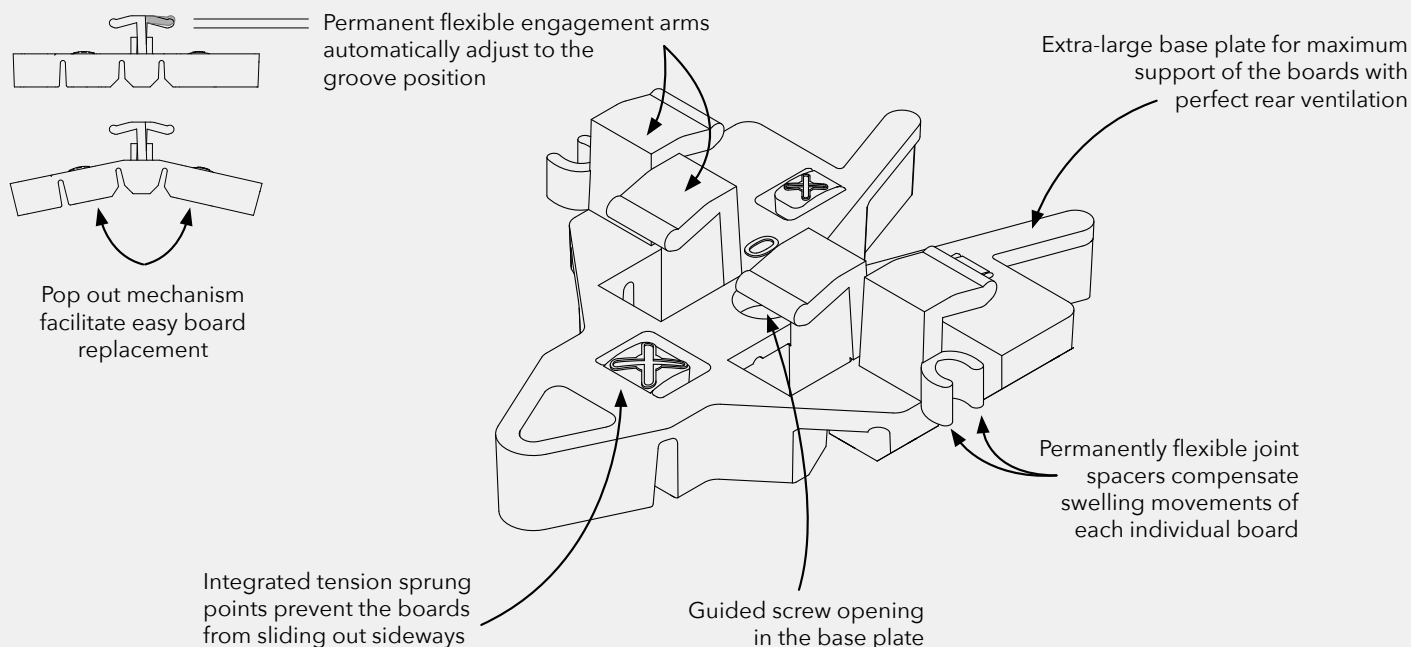


BRANDING

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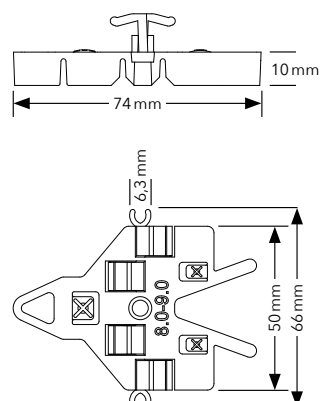
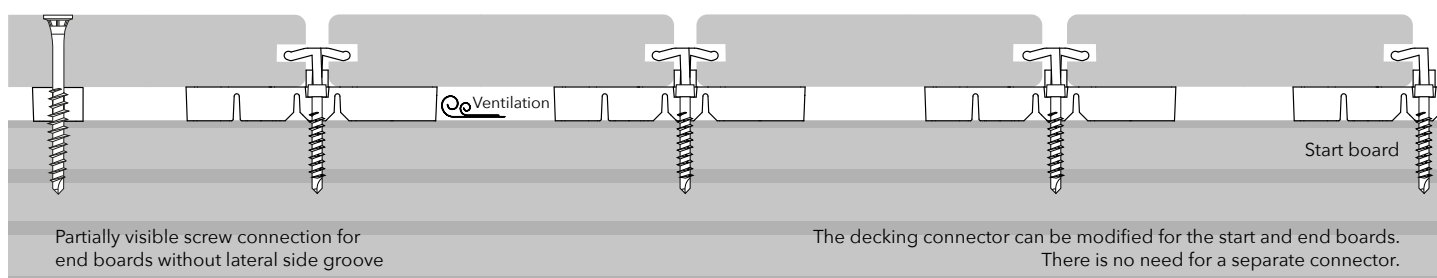
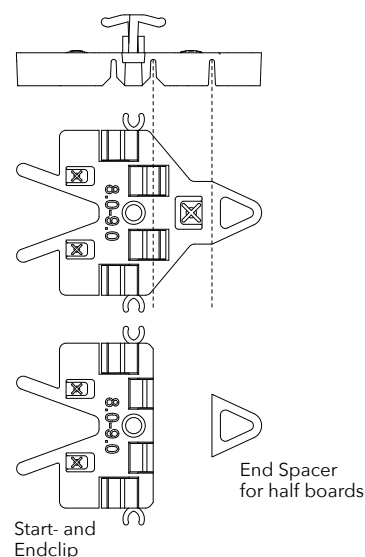


System screw UNIA4 stainless steel A4 for terraces near coastal regions and around pools



Groove-Profile

Due to an off-center groove position, the decking board is extremely stable on the upper side (usable surface) - the correct laying side is already pre-sorted in the production process.



DOWNLOADS



Installation



Board exchange



Data sheet



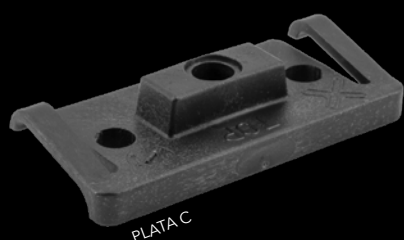
Tips & Tricks



Video

PLATA

DECKING CONNECTOR



The **PLATA C** and **PLATA P** decking connectors ensure quick and easy installation of side-grooved, dimensionally stable wood or composite decking.

The decking board is clamped to the substructure with one screw through the side groove using the decking connector.

Integrated clamping or sprung arms automatically hold the connector in the side groove of the boards.

The joint spacers ensure uniform joints and can compensate swelling movements of up to 2 mm per board.

PLATA C The plastic decking connector with reinforced screw zone ensures optimum force distribution in the side grooves of the board.

PLATA P The stainless steel decking connector, with a total length of 65 mm, conceals the substructure while providing an optimum hold.

Recommended substructure:

Preferably softwood such as larch, Douglas fir, thermo pine, thermo spruce or wood of similar density as well as RELO N aluminium substructure joists.

PLATA P with UNIA1

Description	PU	Prod. No.
4,8x34 mm	100 PCS	013304002
4,8x47 mm	100 PCS	013304003

PLATA C with UNIA1

Description	PU	Prod. No.
4,8x34 mm	100 PCS	012904000
4,8x47 mm	100 PCS	012904001

PLATA C with UNIA4

Description	PU	Prod. No.
4,8x34 mm	100 PCS	012904020
4,8x47 mm	100 PCS	012904021



PLATA C with System screw UNIA4 stainless steel A4 for terraces near coastal regions and around pools



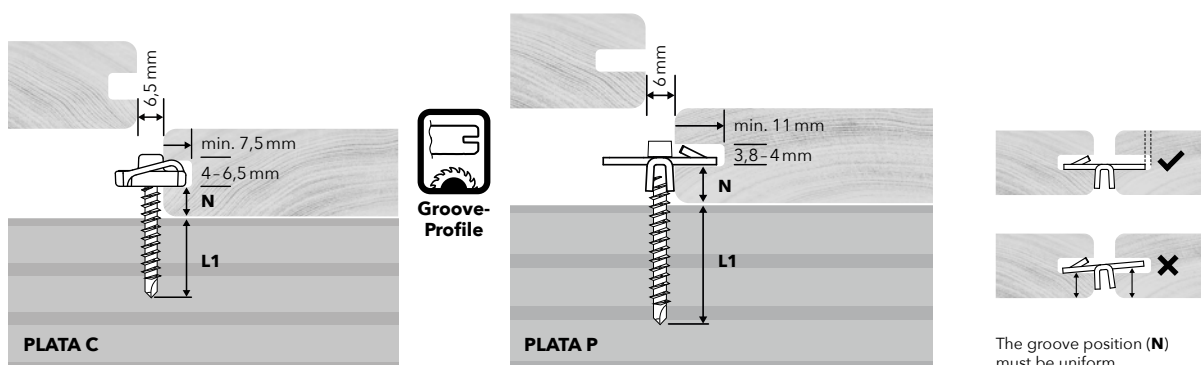
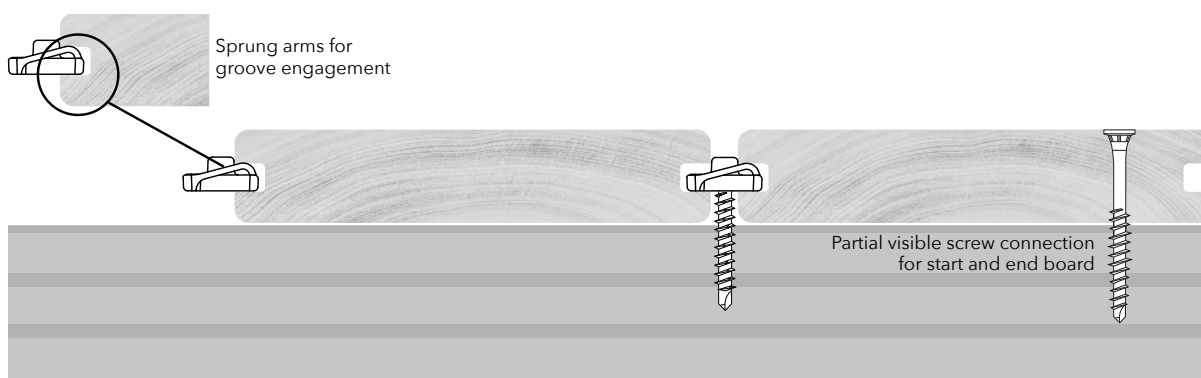
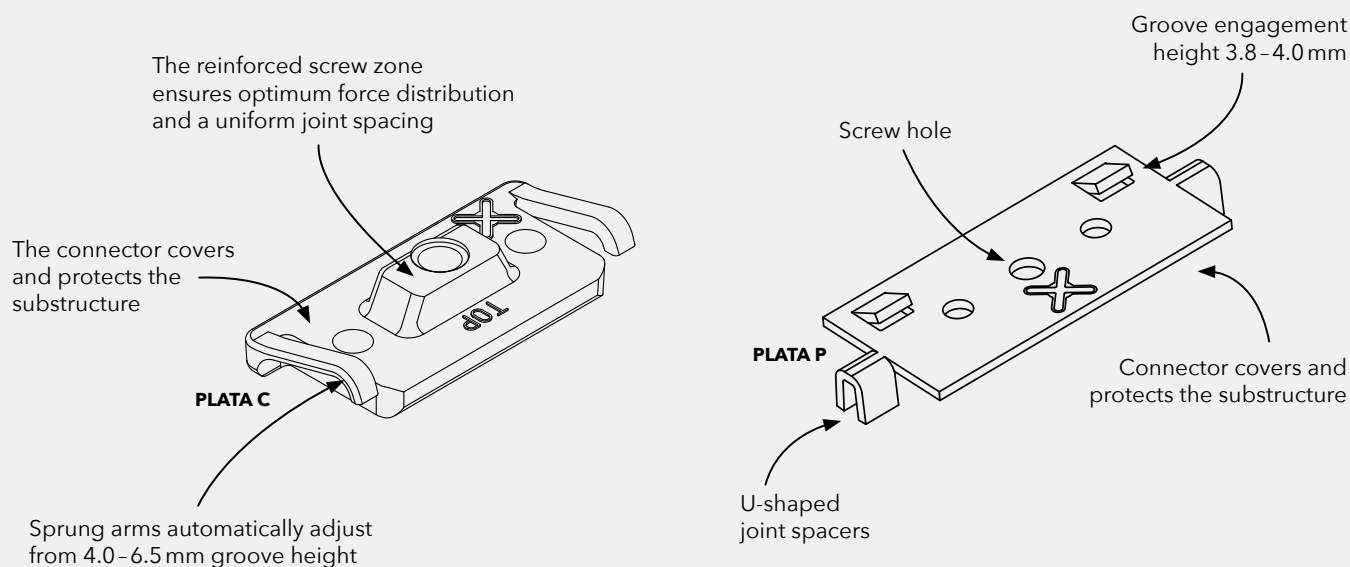
SET-PACK

Each packaging contains the screws required for installation, UNIA system screws and assembly instructions



BRANDING

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DOWNLOADS



Installation



Board exchange



Data sheet



Tips & Tricks

OVERVIEW	PLATA C with UNIA 4.8x34 mm				PLATA C with UNIA 4.8x47 mm				PLATA P with UNIA 4.8x34 mm				PLATA P with UNIA 4.8x47 mm			
N mm	6-7	8-9	9.5-10.5	11-12	6-7	8-9	9.5-10.5	11-12	6-7	8-9	9.5-10.5	11-12	6-7	8-9	9.5-10.5	11-12
L1 mm	22	20	18	17	35	33	31	30	24	22	21	19	37	35	34	32
RELO N Substructure	■	■	■	■					■	■	■	■				
Wood Substructure					■	■	■	■					■	■	■	■
	■ Compatible substructure Screw-in depth L1: RELO N min. 14.5 mm, max. 29 mm Wood min. 26 mm															
Dimensions:	PLATA C: L 40 mm W 18 mm T 4.0 mm joint spacing 6.5 mm								PLATA P: L 65 mm W 24 mm T 1.5 mm joint spacing 6.0 mm							
Material:	PLATA C:		PP Polypropylene Recycled black UV and weather resistant						PLATA P:		Stainless steel black					
	System screw:		UNIA1 Hardened stainless steel with black surface coating UNIA4 A4 stainless steel with black surface coating													
Fastening type:	Concealed sliding point fixation															
Decking profile:	Dimensionally stable and modified wood species with side grooved profiled decking boards															

LIGO

DECKING CONNECTOR



The **LIGO C**, **LIGO S** and **LIGO N** decking connectors ensure quick and easy installation of side-grooved, dimensionally stable wood or composite decking.

The decking board is clamped to the substructure with one screw through the side groove using the decking connector.

The oval-shaped joint spacers ensure an even joint spacing and can compensate swelling movements up to 2 mm per board.

The joint spacers also serve as a quick-fit guide for the mounting plate, which can be adjusted automatically to the position of the groove.

LIGO N and LIGO S are equipped with a stainless steel groove plate. LIGO C has a plastic groove plate with a reinforced screw zone for optimum force distribution into the groove of the boards.

Recommended substructure:
Preferably softwood such as larch, Douglas fir, thermo pine, thermo spruce or wood of similar density as well as RELO N aluminium substructure joists.

LIGO N with UNIA1		
Description	PU	Prod. No.
4,8x34 mm	80 PCS	013905003
4,8x34 mm	400 PCS	013912003
4,8x47 mm	80 PCS	013905000
4,8x47 mm	400 PCS	013912000

LIGO S with UNIA1		
Description	PU	Prod. No.
4,8x34 mm	80 PCS	014005002
4,8x34 mm	400 PCS	014012001
4,8x47 mm	80 PCS	014005000
4,8x47 mm	400 PCS	014012000

LIGO C with UNIA1		
Description	PU	Prod. No.
4,8x34 mm	80 PCS	012905000
4,8x47 mm	80 PCS	012905001

LIGO C with UNIA4		
Description	PU	Prod. No.
4,8x34 mm	80 PCS	012905020
4,8x47 mm	80 PCS	012905021

LIGO C with System screw UNIA4 stainless steel A4 for terraces near coastal regions and around pools



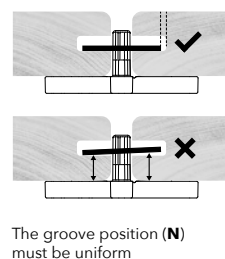
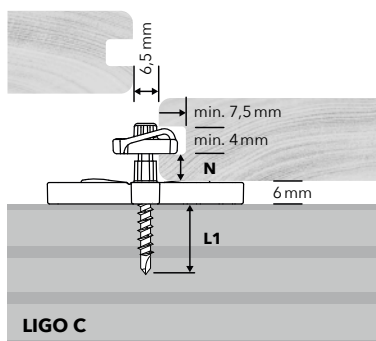
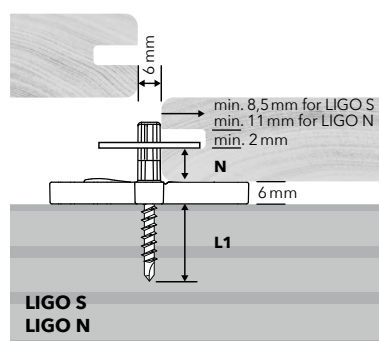
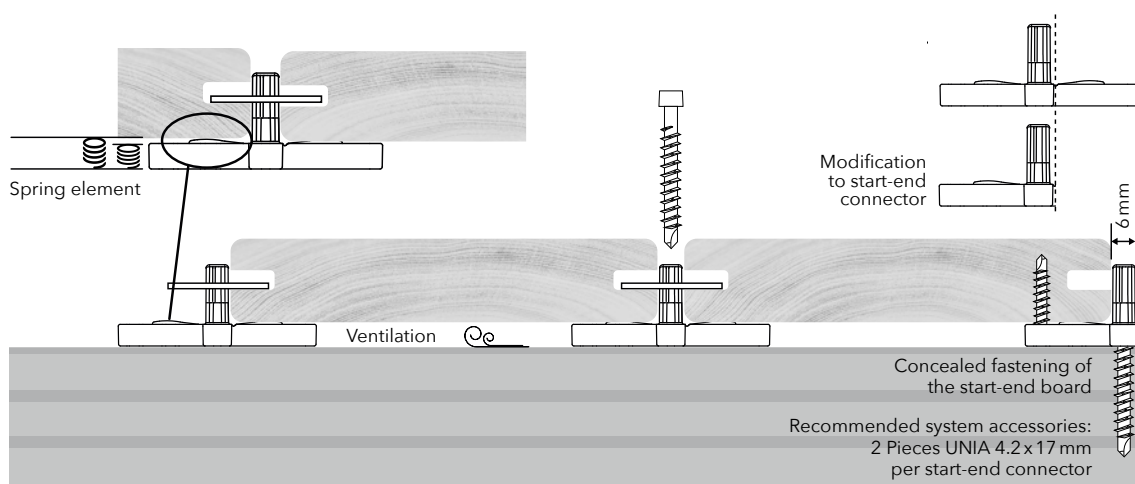
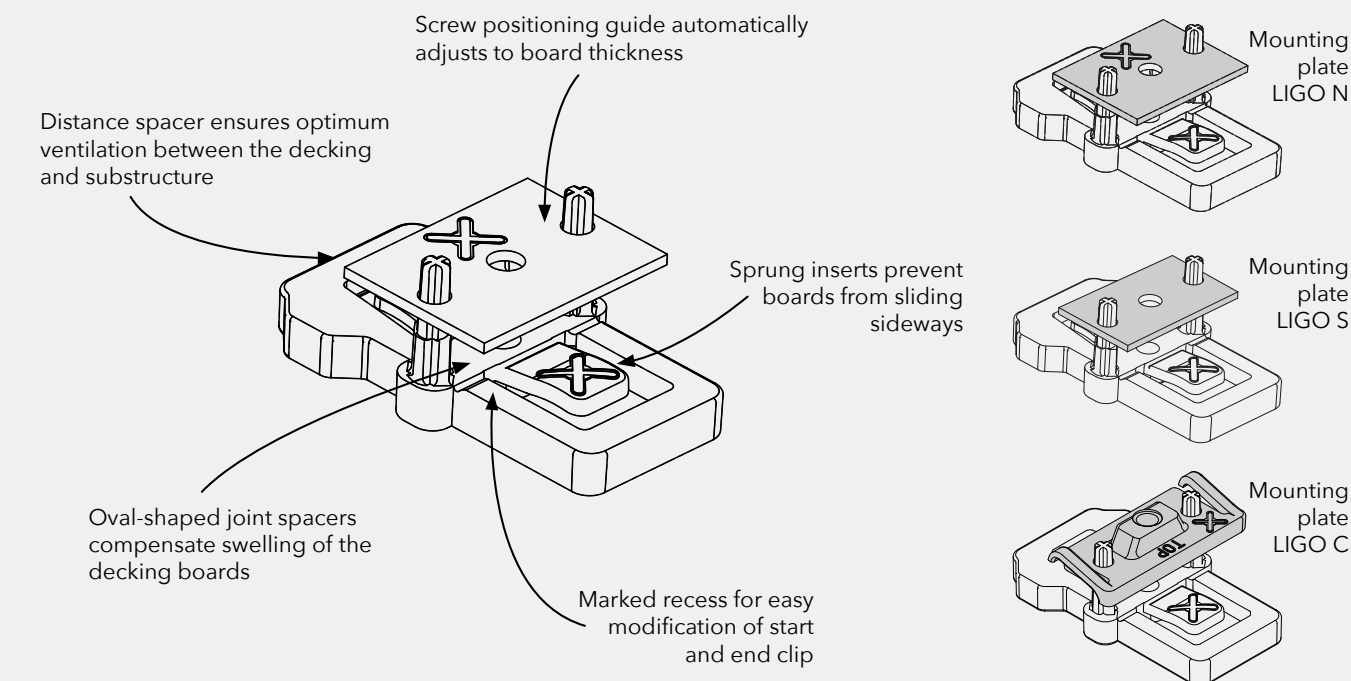
SET-PACK

Each packaging contains the screws required for installation, UNIA system screws and assembly instructions



BRANDING
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Installation



Board exchange



Data sheet



Tips & Tricks



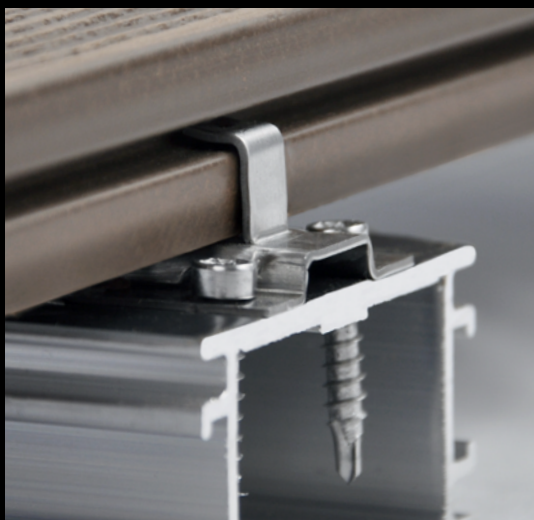
Video

OVERVIEW	LIGO S N with UNIA 4.8x34 mm				LIGO S N with UNIA 4.8x47 mm				LIGO C with UNIA 4.8x34 mm				LIGO C with UNIA 4.8x47 mm			
N (mm)	6-7	8-9	9.5-10.5	11-12	6-7	8-9	9.5-10.5	11-12	6-7	8-9	9.5-10.5	11-12	6-7	8-9	9.5-10.5	11-12
L1 (mm)	20	18	17	15	33	31	30	28	18	16	14	13	31	29	27	26
RELO N Substructure	■	■	■	■				■	■	■				■	■	■
Wood Substructure					■	■	■	■					■	■	■	■
	■ Compatible substructure Screw-in depths L1: RELO N min. 14.5 mm max. 29 mm Wood min. 26 mm															
Dimensions:	Distance spacer: Length 55 mm Width 32 mm Height 6,0mm								Joint spacing LIGO S and LIGO N 6.0 mm LIGO C 6.5 mm							
Mounting plate:	LIGO S: L 32mm W 19mm H 1,5mm Stainless steel black				LIGO N: L 32mm W 24mm H 1,5mm Stainless steel black				LIGO C: L 40mm W 18mm H 4,0mm PP Polypropylene Recycled black UV and weather resistant							
Material:	Distance spacer: ABS thermoplastic Recycled black UV and weather resistant															
	System screw: UNIA1 Hardened stainless steel with black surface coating UNIA4 A4 stainless steel with black surface coating															
Fastening type:	Concealed sliding point fixation															
Decking profile:	Dimensionally stable and modified wood species with side grooved profiled decking boards															



ZONA

WPC DECKING CONNECTOR



The **ZONA** stainless steel decking connector ensures the installation process is quick, easy, and straightforward.

Two parallel mounting zones ensure a trouble-free decking connection, provide an additional level of ventilation, prevent protruding screw heads and allow mounting to metal substructures.

The engagement arms for securing the board into position are pre-tensioned and tolerate any production-related irregularities of the board profile. Weather-related dimensional changes (shrinkage and swelling) are also compensated for.

The decking connector ZONA is a customized product for our manufacturing customers and is produced to order, starting from a production quantity of half a million units.

OVERVIEW

Dimensions:	Length 30 mm Width 42 mm Height 4.6 mm
	Start-End-Connector: Length 22 mm Width 31 mm Height 4.6 mm
Material:	Stainless steel
	System screw UNIA Hardened stainless steel
Fastening type:	Concealed Sliding point fixation
Decking profile:	For side grooved composite decking boards

ZONA

Description	PU	Prod. No.
WPC-Connector	100 PCS	013604002
Start-Endclip	50 PCS	013702002



SET-PACK

Each packaging contains the screws required for installation, UNIA system screws 4.2x28 mm and assembly instructions



BRANDING

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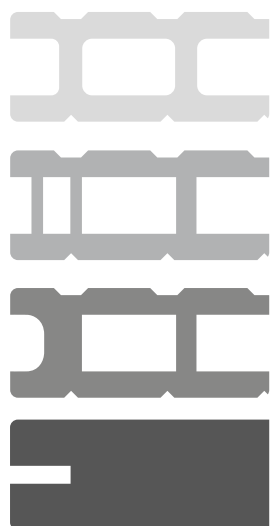
Board receiving plate allows easy insertion of decking boards

Mounting plate for the substructure permits a secure screw connection

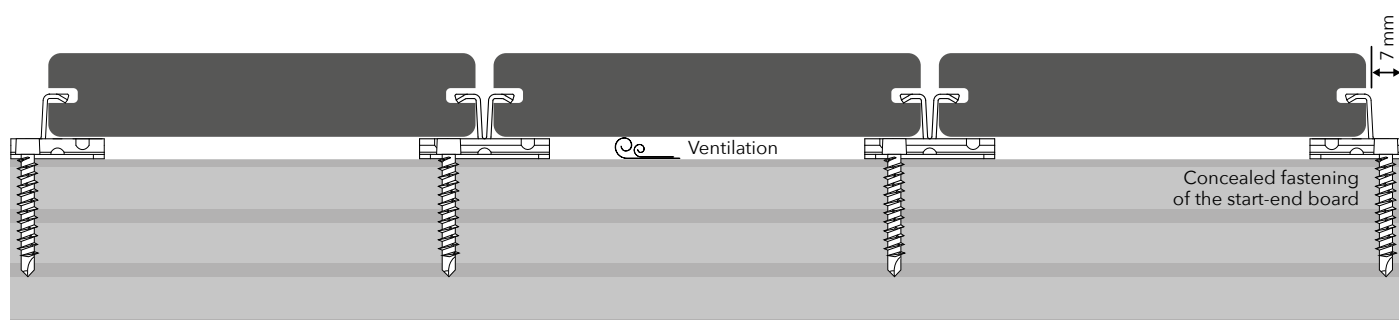
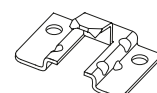
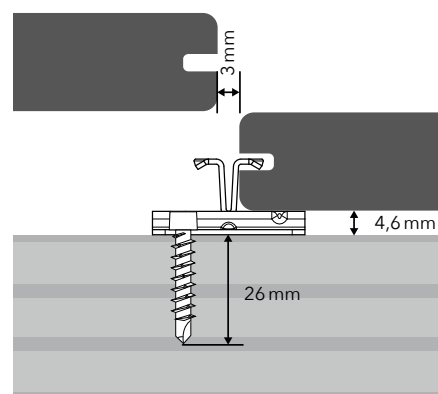
Customizable groove engagement holding arms

Integrated ventilation base plate for structural protection

Compatible start and end connectors



ZONA can be adapted to suit a wide range of profile dimensions



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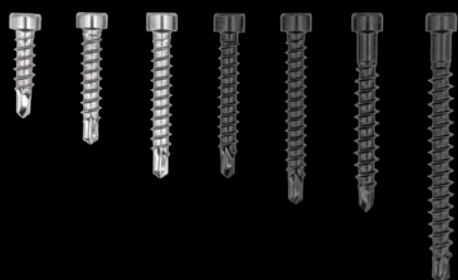
Data sheet



Tips & Tricks

UNIA

SYSTEM SCREW



UNIA system screws are used for a wide range of fastening systems such as DILA, SUPRO, TIGA, KONEKTO, etc.

The distinctive self-tapping point reduces stress and prevents the wood from splitting on the visible side of the board when the screw is driven through the back side of the board.

The special design of the thread and the self-tapping point allows the screw to be driven directly into wood, wood-like materials and aluminium.

The unique cylinder head allows for secure screw connections in joints as small as 6 mm in width.

In the case of a visible screw connection, for example, the stainless steel system screw is finished with a black surface coating.

UNIA4 Made from A4 austenitic stainless steel, can withstand increased deformation forces and has high corrosion resistance, ideal for coastal applications.

UNIA1 is a universal hardened stainless steel screw for wood, wood-like materials and aluminium.

DOWNLOADS



Data sheet

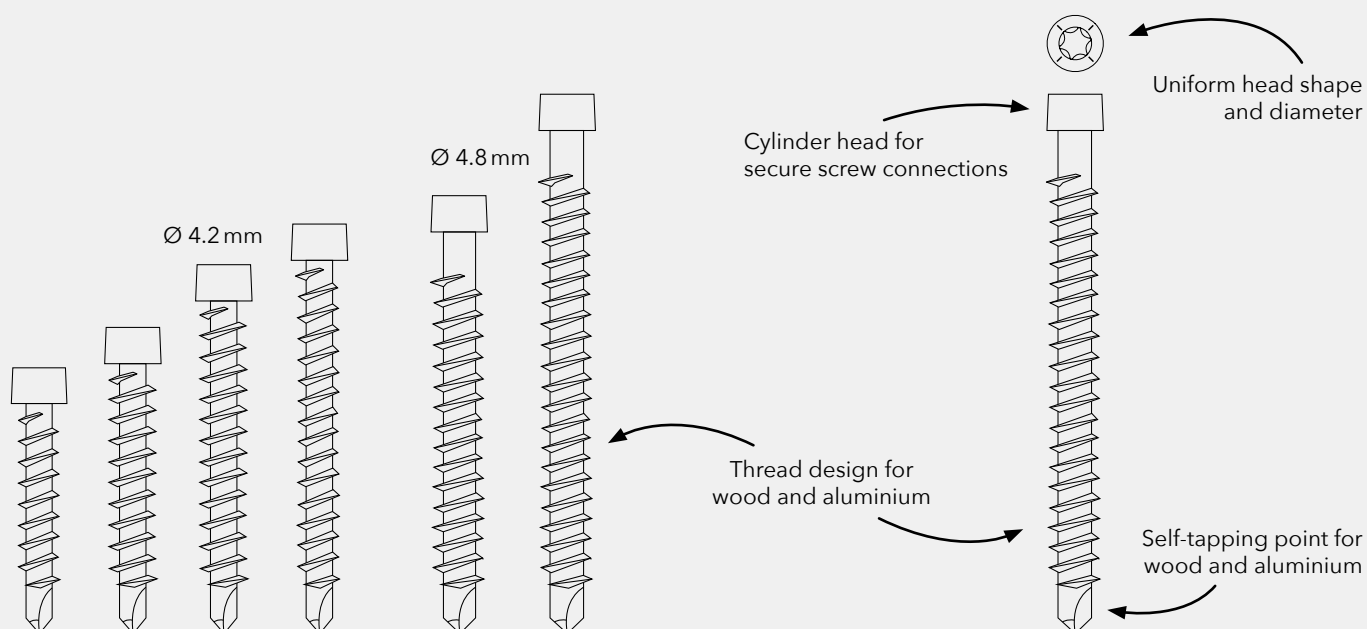


Tips & Tricks

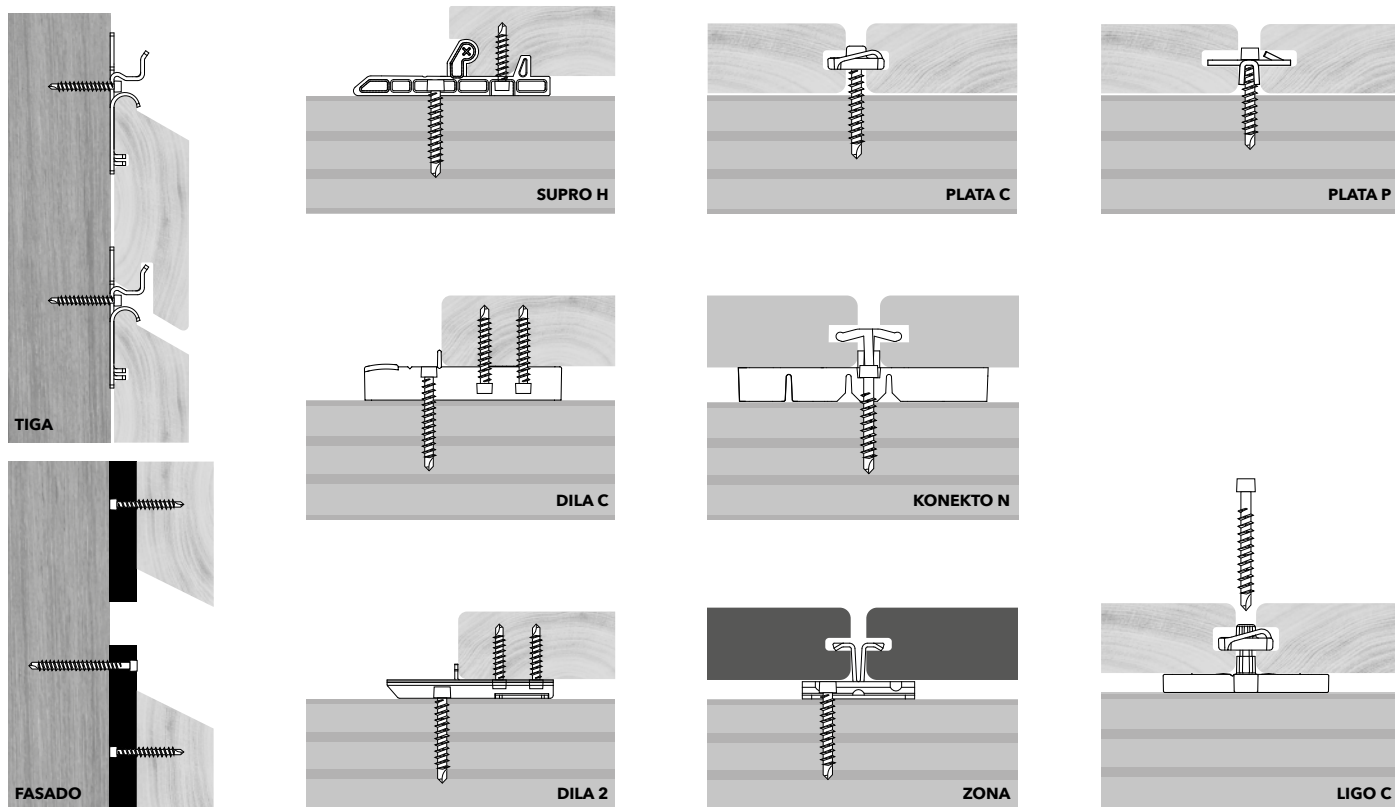
UNIA1		
Description	PU	Prod. No.
4.2x17 mm	200 PCS	010901001
4.2x22 mm	200 PCS	011001001
4.2x28 mm	100 PCS	014301000

UNIA4 black		
Description	PU	Prod. No.
4.8x34 mm	80 PCS	019801002
4.8x47 mm	80 PCS	019901002

UNIA1 black		
Description	PU	Prod. No.
4.2x22 mm	200 PCS	011001007
4.2x28 mm	100 PCS	014301001
4.2x33 mm	100 PCS	014901001
4.8x34 mm	80 PCS	014101002
4.8x47 mm	80 PCS	014201002

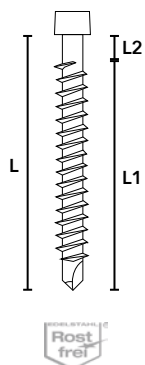


APPLICATION EXAMPLES



OVERVIEW

Dimensions mm			UNIA 1	UNIA 1	UNIA 4
L	L1	L2	Ø 4.2	Ø 4.8	Ø 4.8
17	16	1	■		
22	21	1	■		
28	27	1	■		
33	32	1	■		
34	28	6		■	■
47	41	6		■	■
Screw head diameter			5.8		
TX Drive			TX20		
Material			Hardened stainless steel 1.4006		Stainless steel A4 1.4401
Drilling capacity			Aluminium up to 3.0 mm		



Suitable for fastening plastics, light metals and thin sheet metals to wood and aluminium

HELPO

DECKING CLAMP & BIT



The **HELPO decking clamp** is a useful installation accessory for laying of decking boards.

Its low-profile design prevents the decking boards from folding upwards and effortlessly enables a clamping force of approximately 150 kg.

To ensure even alignment along the entire length of the decking boards, one decking clamp should be used per running meter.

When combined with the HELPO installation aid, it ensures a uniform joint width with straight decking boards.



Clamping range up to 970 mm
Joint engagement from 3 mm
Flat clamping plate for start and end boards.

The **HELPO bit**, available in lengths of 50 mm or 75 mm, ensures easy handling, even for screw connections between the boards.

The hardened and tempered tool steel with a chrome-plated coating provides a long service life and, prevents extraneous rust marks unlike blank tool steel

Different bit sizes are easily distinguishable through color-coded markings.

TX 10 blue | TX 15 yellow | TX 20 white | TX 25 black

HELPO decking clamp

PU	Prod. No.
1 PC	* 033900001

* no branding possible

HELPO Bit

Description	PU	Prod. No.
TX 10 - 50 mm	20 PCS	010202000
TX15 - 50 mm	20 PCS	010302000
TX20 - 50 mm	20 PCS	010402000
TX20 - 75 mm	20 PCS	010402001
TX25 - 50 mm	20 PCS	010502000

DOWNLOAD



Tips & Tricks

HELPO

COUNTERSINK PRE-DRILLING TOOL & INSTALLATION AID

The **HELPO countersink pre-drilling tool** allows precise and uniform mass drilling and countersinking for visible screw connections in decking construction in a single step.

The hardened and tempered chrome steel offers an extremely long service life and is suitable for all wood and wood-like decking boards.

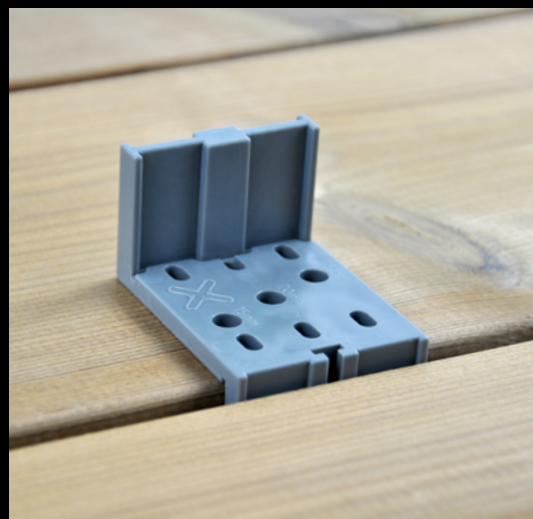
The drill bit's design with an integrated depth stop ensures a perfect head finish for the 5.0 or 5.5 mm diameter PROFILA, SOLIDA, and ELITA decking screws.

5.5 mm drilling diameter | 25 mm drilling depth
8.0 mm countersink

The **HELPO installation aid** is a universal accessory, combining a joint spacer and drilling guide for decking construction.

Joint spacer permits a joint width from 5-8 mm. The Z-shape with 5 and 7 mm wall thickness can be enlarged by 1 mm to 6 or 8 mm joint widths using the supplied adapter.

The drilling guide enables standardized mass drilling without the need for measuring, with side-to-side distances of 15, 20 and 25 mm.



BRANDING
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SET-PACK
1 PC HELPO countersink pre-drilling tool
2 PCS HELPO assembly aids
1 PC HELPO TX25 bit

DOWNLOAD



Video

HELPO Countersink tool

PU	Prod. No.
1 PC	010802000

HELPO installation aid

PU	Prod. No.
4 PCS	007002000

HELPO-SET

PU	Prod. No.
1 PC	008902000

RELO

SUBSTRUCTURE AND SYSTEM ACCESSORIES

RELO aluminum substructure joists guarantee a straightforward, rapid, and sturdy system subframe construction for outdoor terraces made of wood, wood-like materials, and ceramic tiles.

Aluminum is extremely rigid, distortion-free and is completely corrosion-resistant against weathering.

Aluminum has an excellent appearance especially with the optional black powder coating finish, rendering the visible elements almost imperceptible.

In general, the terrace substructure should be anchored to the ground (substrate). If this isn't feasible, a deformation-resistant substructure, such as a frame or counter-batten construction, should be employed. This construction method maintains the terrace level and prevents lifting of support points, especially around the perimeter.

Depending on the load-bearing requirements (load capacity in kN/m^2), static preliminary calculations are clearly outlined in the datasheet.

The lateral guides along the substructure profiles are perfectly aligned with the RELO system accessories.

With the comprehensive range of system accessories, frame and counter-batten constructions are effortlessly executed, additional counterweighting is integrated, and step construction becomes feasible.

The RELO L extension brackets facilitate the continuous and optimized extension of substructures.

The RELO V ventilation and drainage grate ensures ideal terrace structure drainage and ventilation.

Borders and edgings are effortlessly achieved using the edge finishing trim profiles.

The RELO A adapter, permit screwless fixation to the LIFTO adjustable pedestals.

Ceramic tiles are laid in combination with GUMO LGR/LGR-S 5 and commercially available joint spacers.



RELO V
Optimum drainage
and ventilation



RELO VB
End cover for
RELO V



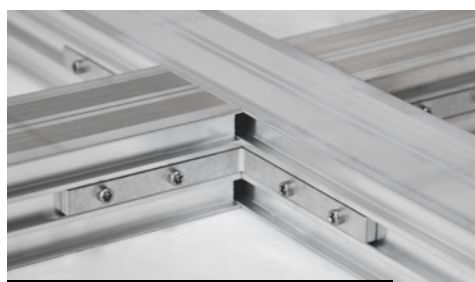
RELO VH
RELO V side
covering bracket



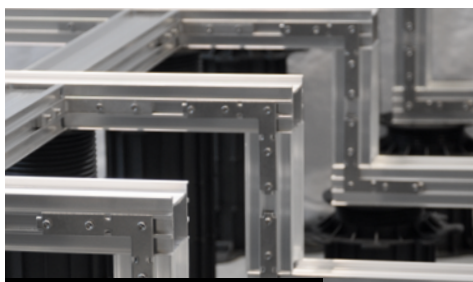
RELO KV
Counter batten
construction made easy



RELO L
Continuous extension
Optimized cutting efficiency



RELO E
Corner brackets for frame
construction



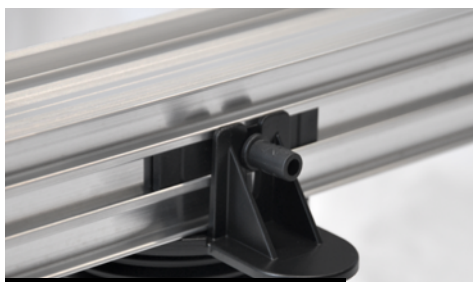
RELO F
Solid step and
platform construction



RELO AW
Load-bearing bracket
for counterweighting



RELO RA
Flawless edge
trim finishes



RELO A
Screwless attachment
for LIFTO pedestals



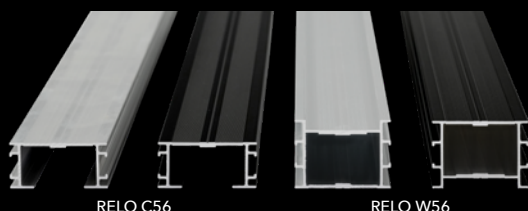
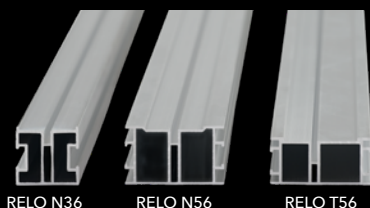
GUMO K
Decoupling Tape for
metal decking connectors



GUMO LGR 5
Enhanced Slip Resistance and
cushioning for Ceramic Tiles

RELO

SUBSTRUCTURE



RELO W56 reversible joist can be installed on both sides, either with a flat surface or with the ventilation channel on top depending on the fixing system used. The unique combination of structural design and overall dimensions ensures extremely high stability and load bearing capacity.

RELO C56 is a compact design suitable for low construction heights. Despite its low construction height, the overall design provides the decking with high structural stability.

RELO T56 is a system substructure joist for the TENI clips. The integrated screw channel enables angled screw installation into aluminium. Two lateral guides automatically align and centres the clip on the substructure joist.

RELO N56 | N36 are system substructure joists for LIGO and PLATA. The integrated screw channel facilitates easy screw fastening in aluminium. In addition, the 9 mm recessed screw channel significantly reduces shear forces acting on the fastenings. Two lateral guides automatically align and center the decking clips on the substructure joist, which is completely concealed by the clips.

OVERVIEW	RELO W56	RELO C56	RELO T56	RELO N56	RELO N36
KONEKTO	■		■		■
SUPRO	■		■		
ZONA	■		■		
DILA	■		■		
LIGO	■/-		■/-	■	■
PLATA	■/-	■	■/-	■	■
TENI			■		
PROFILA2	■/-	■	■/-		
SOLIDA4	■/-	■	■/-		
RELO KV56	■	■	■	■	■
RELO System Accessories	■	■	■	■	■

Key:

- suitable
- /- partially suitable (reduced ventilation and/or increased shear forces)

Material:

Aluminium AN AW 6060 T66
optional with powder coated black finish
similar to RAL9005

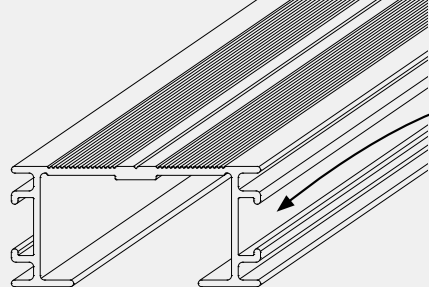
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Data Sheet

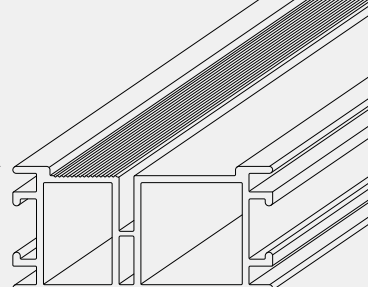
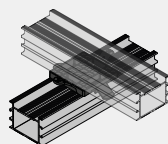


Tips & Tricks

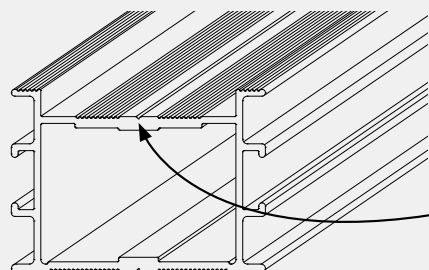


RELO C56 compact design for low construction heights

Identical mounting guides for the RELO system accessories included click-in adapter for RELO KV56



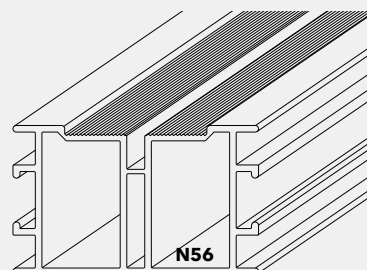
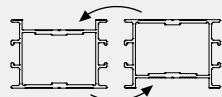
RELO T56 with angled screwing channel for TENI decking connectors



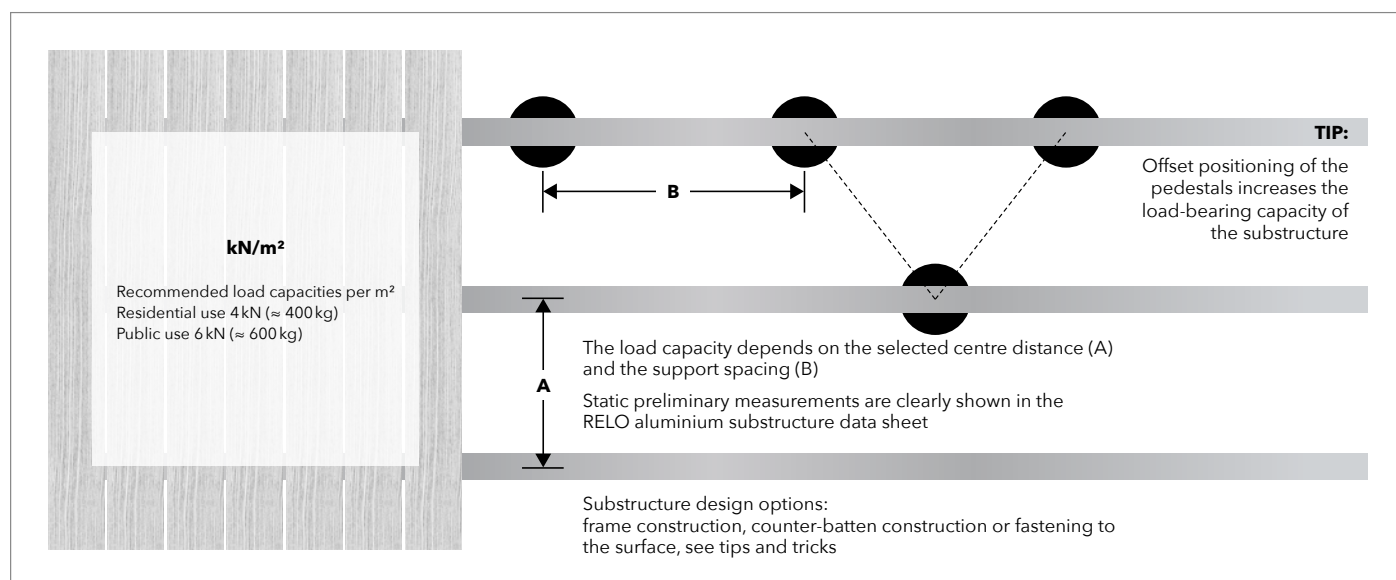
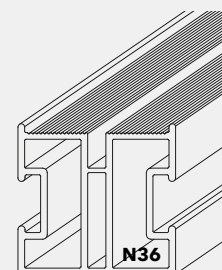
RELO W56 reversible joist with integrated ventilation channel

The 3 mm thick mounting plate ensures secure and permanent fixation of the fixtures.

The ribbed surface with recessed center V-groove indicates the best screw positioning and facilitates screw installation.

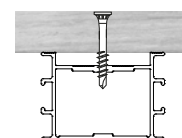


RELO N with integrated screw channel for LIGO and PLATA decking connectors

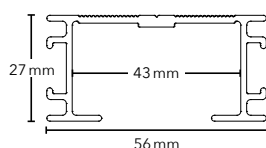


RELO Substructure			
Description	PU	Prod.No.	
RELO C56	L 2,000 mm bright	99 PCS	033700000
	L 4,000 mm bright	99 PCS	033700001
	L 4,000 mm black	99 PCS	033700002
RELO T56	L 2,000 mm bright	99 PCS	032800000
	L 4,000 mm bright	99 PCS	032800001
RELO W56	L 2,000 mm bright	99 PCS	033800000
	L 4,000 mm bright	99 PCS	033800001
	L 4,000 mm black	99 PCS	033800002
RELO N56	L 2,000 mm bright	99 PCS	032900000
	L 4,000 mm bright	99 PCS	032900001
RELO N36	L 2,000 mm bright	144 PCS	016600000
	L 4,000 mm bright	144 PCS	016600001

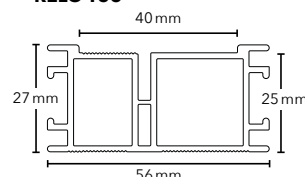
The 6 mm high ventilation channel provides structural protection for the decking with visible screw connections using PROFILA2 while reducing shear effects on the fixings by 30%.



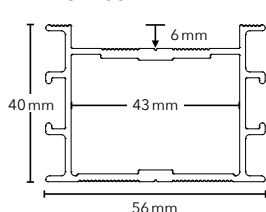
RELO C56



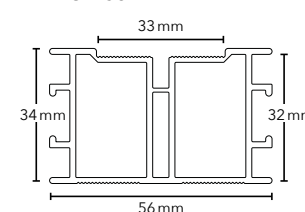
RELO T56



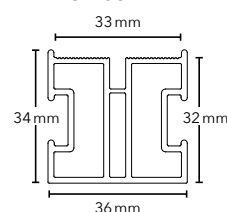
RELO W56



RELO N56

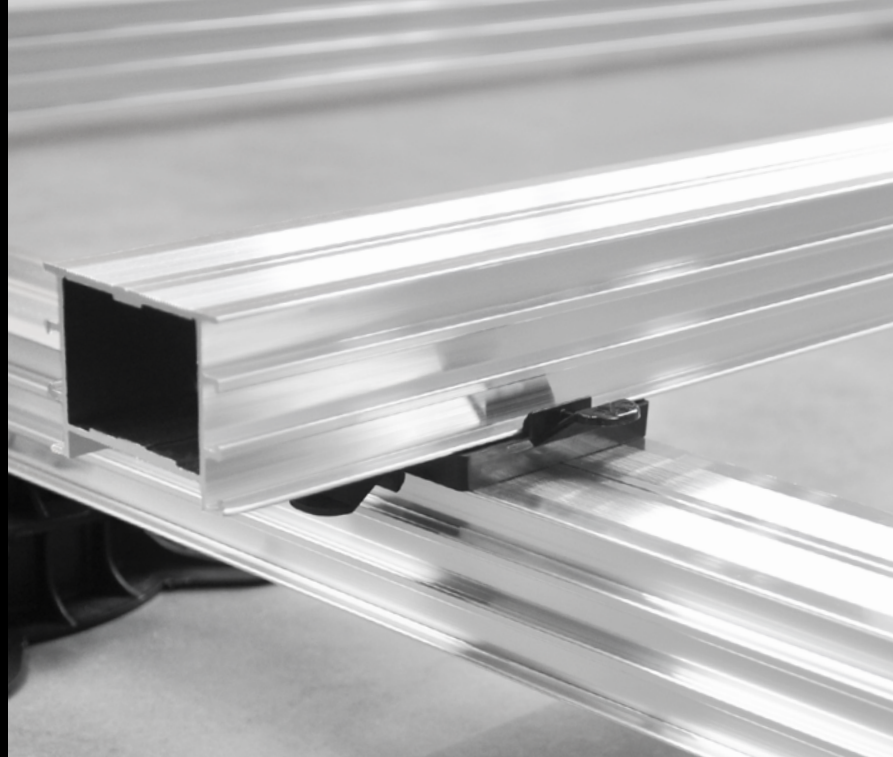


RELO N36



RELO KV

CLICK-IN CONNECTOR



The **RELO KV** click-in connector is the perfect complement to the RELO aluminium sub-structure joists.

The click-in connector enables the creation of rigid and code-compliant counter batten constructions with exceptional ease and speed.

The substructure rows are effortlessly connected to the counter battens using the click-in connector, eliminating the need for time-consuming removal and reinstallation of individual rows.

This construction design maintains a flat deck surface and prevents lifting of the support points, particularly at the edges.

The optional positioning screw allows for pre-fixing to the counter battens, ensuring precise alignment and a secure hold of the click-in connectors.

Each intersection requires one click-in connector, with approximately 1.7 to 2 connectors needed per square meter.

OVERVIEW

Dimensions:	Mounting plate 60x60 mm Height 8 mm
Material:	Recycled black PP (Polypropylene) UV and weather resistant
Mounting type:	Click-in connection
Substructure:	Compatible with RELO C56, W56, N56 and T56
Accessories:	Positioning screw UNIA1 4.2x22 mm

RELO KV click-in connector

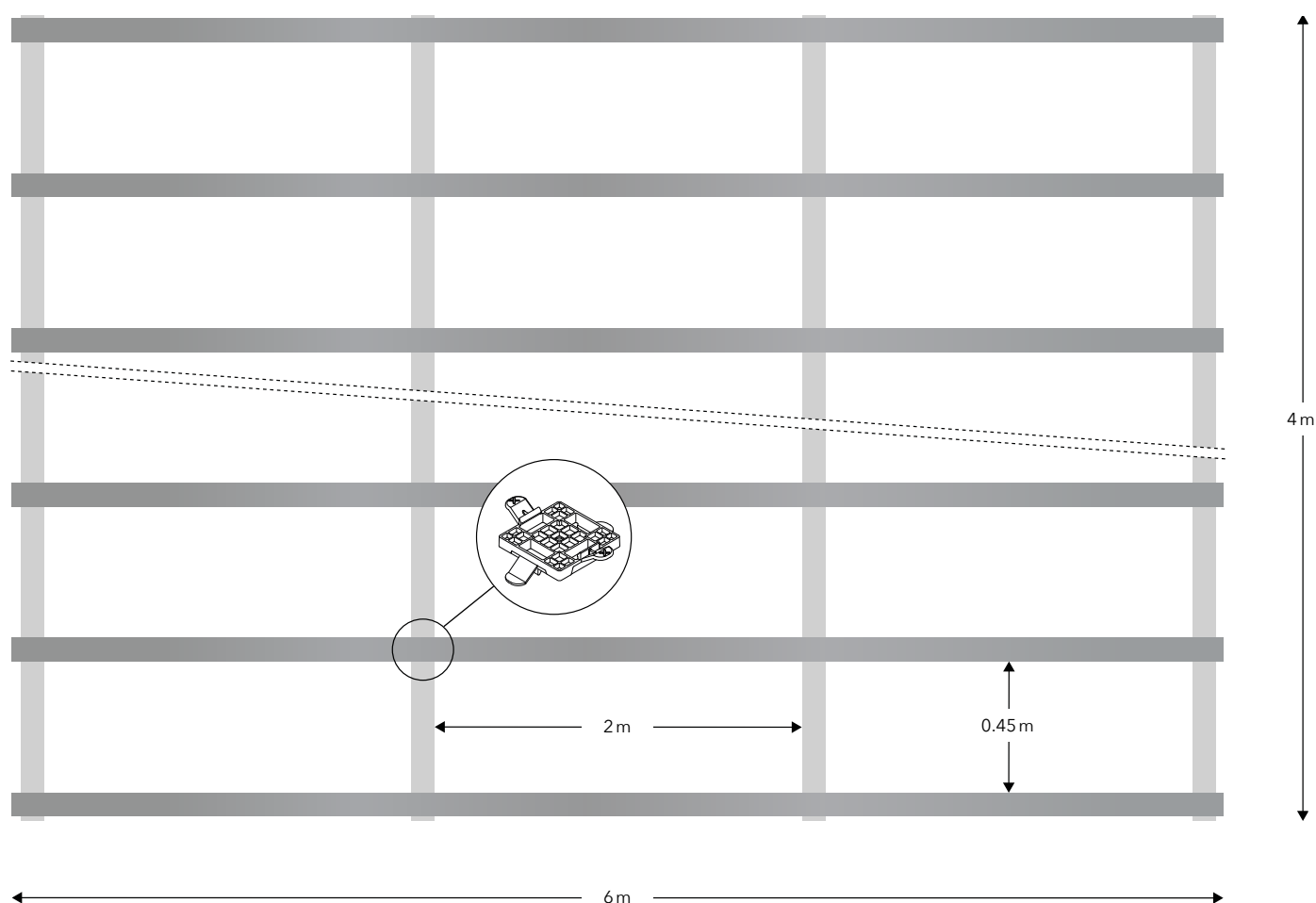
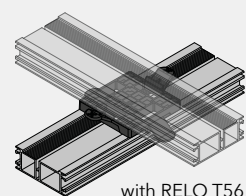
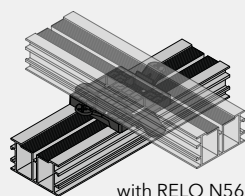
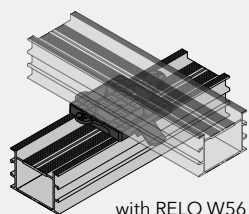
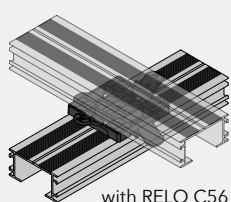
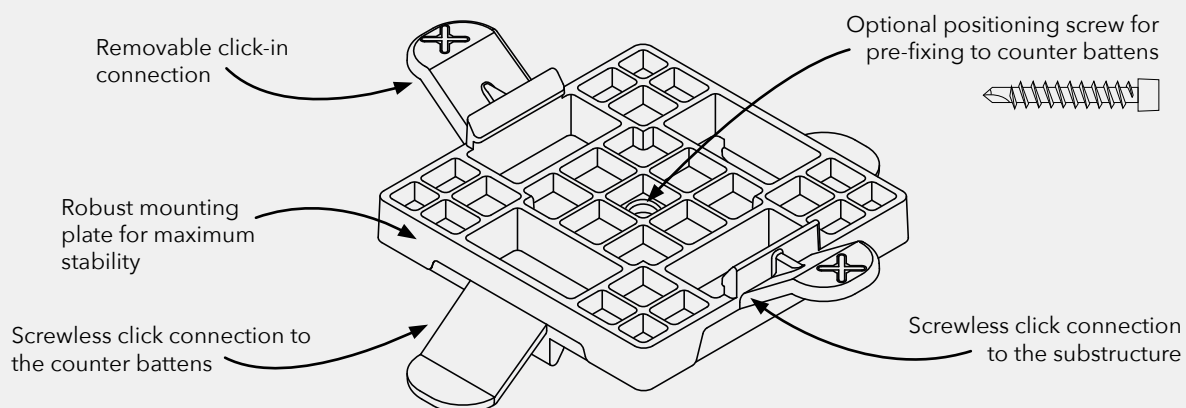
Description	PU	Prod. No.
KV 56	25 PCS	034305000

Positioning screw

Description	PC	Prod. No.
UNIA1 4.2x22 mm	100 PCS	011001000



BRANDING
Custom branding
upon request



CALCULATION EXAMPLE

Terrace 4x6 m | centre distance 0.45 m

SUBSTRUCTURE

4 m : 0.45 m centre distance + 1 = 10 rows (60 m)

COUNTERBATTENS

6 m : 2 m center distance + 1 = 4 rows (16 m)



CLICK-IN CONNECTORS

10 rows x 4 rows = 40 pieces (1.7 pieces per m²)

DOWNLOADS



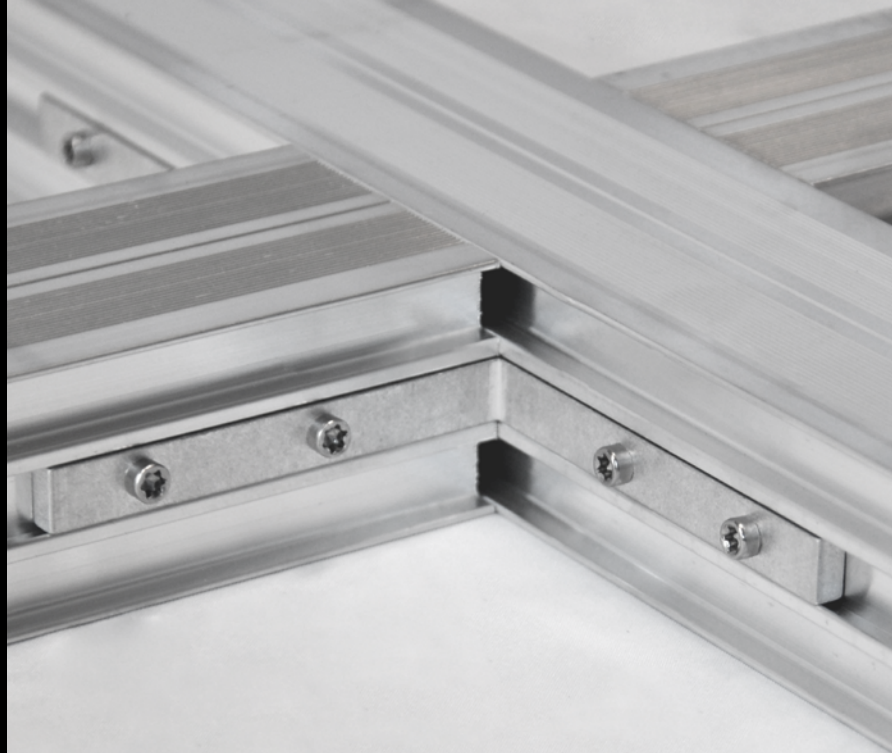
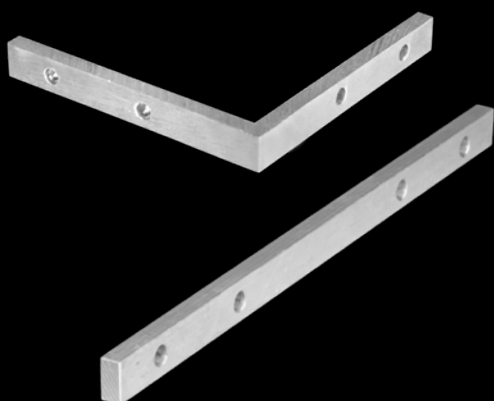
Data sheet



Tips & Tricks

RELO

CORNER BRACKET EXTENSION BRACKET



The RELO system accessories enable a simple and rapid assembly of terrace substructures.

RELO E corner bracket enables securely fastened corner connections, e.g. for cross bracing in frame constructions.

At each connection point, the corner brackets are securely fastened on both sides of the substructure.

RELO L extension brackets permit continuous aligned length extensions of substructure joists. The length joist connections should be positioned directly over loadbearing points i.e. pedestals.

The extension brackets are mounted on both sides of the substructure.

RELO A adapter facilitates screwless installation of LIFTO adjustable pedestals on the substructure joist.

OVERVIEW	RELO E	RELO L	RELO A
Dimensions:	80 x 80 x 10 x 5 mm	160 x 10 x 5 mm	60 x 12 mm
Material:	Aluminium blank	Aluminium blank	PP Polypropylen recycled

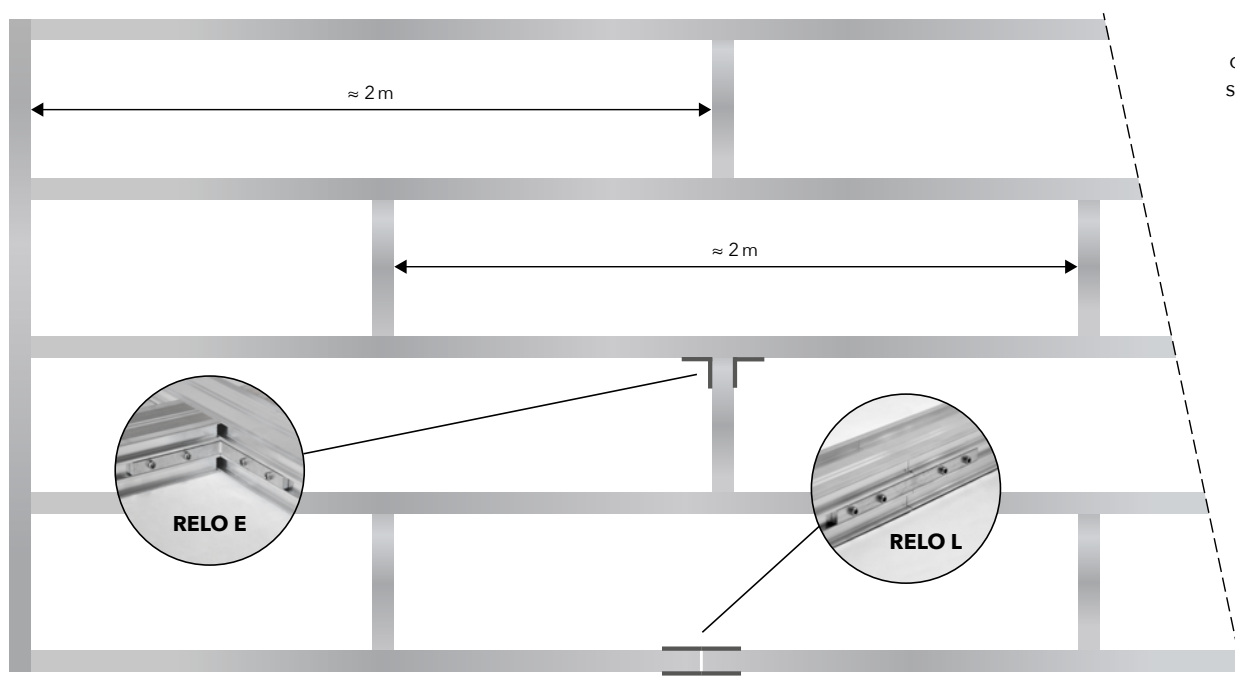
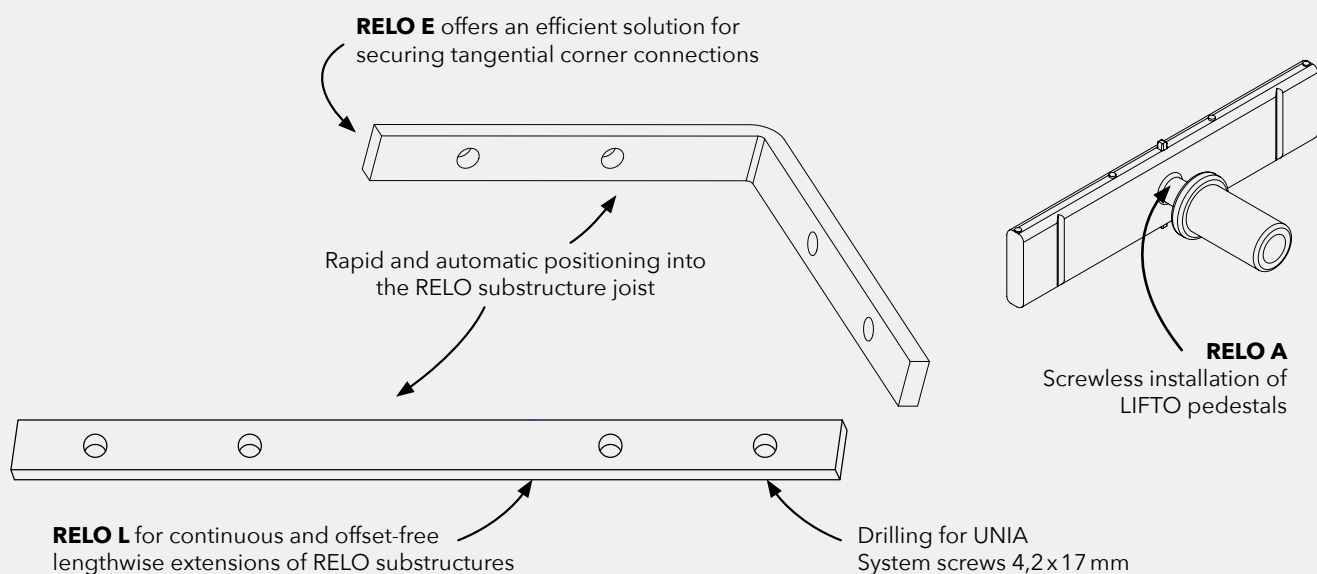
DOWNLOADS



Data Sheet



Tips & Tricks



RELO frame construction with securely fastened corner and lengthwise connections.

This design significantly simplifies the installation and alignment of the substructure.

RELO E corner bracket SET	
PU	Prod.No.
25 PCS	014603000
50 PCS	014603001

RELO A adapter	
PU	Prod.No.
40 PCS	009603000

RELO L extension bracket SET	
PU	Prod.No.
25 PCS	014703000
50 PCS	014704001



SET-PACK
Each package contains all the UNIA system screws required for mounting.



BRANDING
Custom branding upon request



RELO F

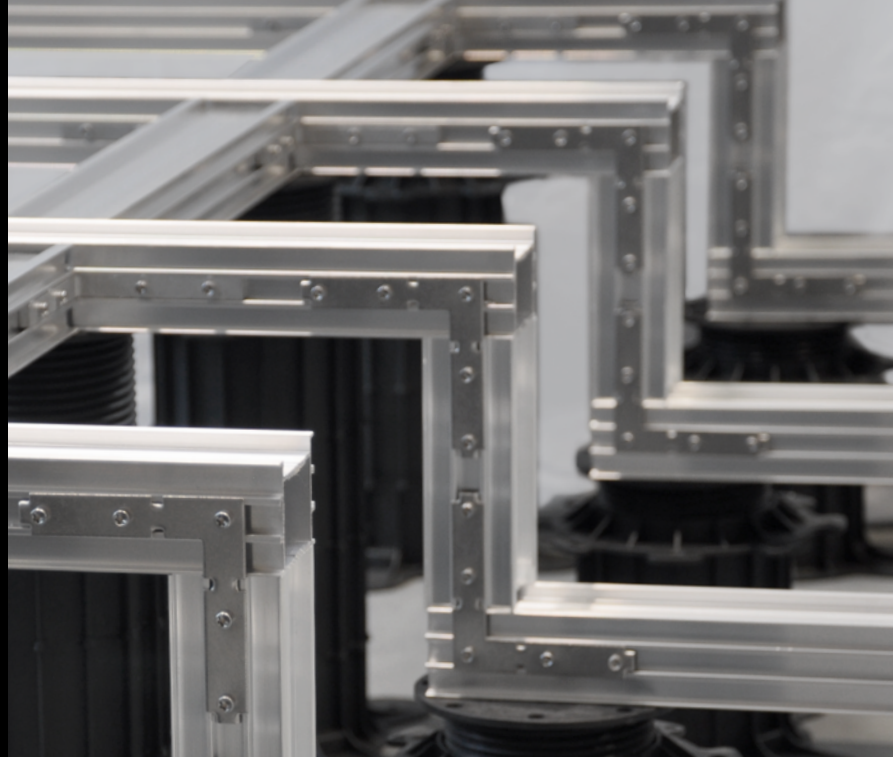
FLAT CORNER BRACKET



OVERVIEW

Dimensions: L 80 x W 80 x H 1.5 mm | 15 mm

Material: stainless steel A2 1.4301



The **RELO F** flat corner bracket is the ideal solution for RELO aluminum substructure joists.

The flat corner bracket simplifies the construction of steps, allowing for quick and effortless assembly. The substructure serves as a stable support surface for attaching treads and risers.

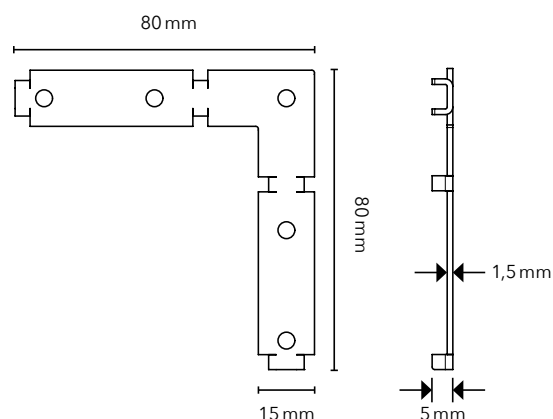
The flat corner bracket is automatically aligned in the lateral side channels along the RELO substructure joists, preventing it from shifting during assembly.

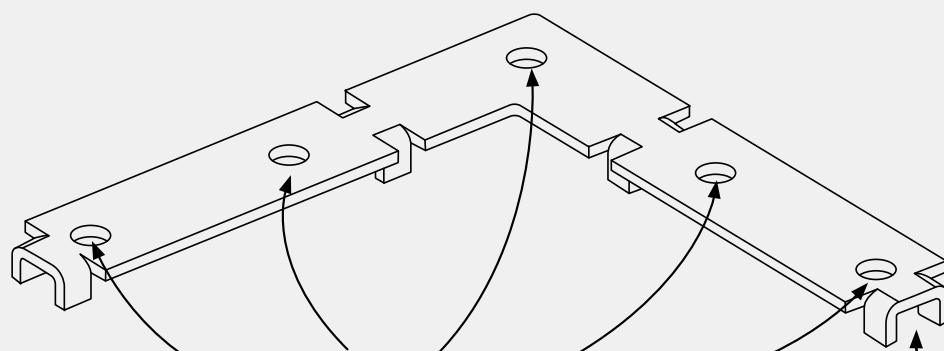
For each connection point, the flat corner brackets are screwed to both sides of the substructure.

The center distances of the stair construction should match those of the decking construction.

In the case of stairway structures that exceed a total height of 600 mm, local building regulations regarding guardrails or other special features must be complied with.

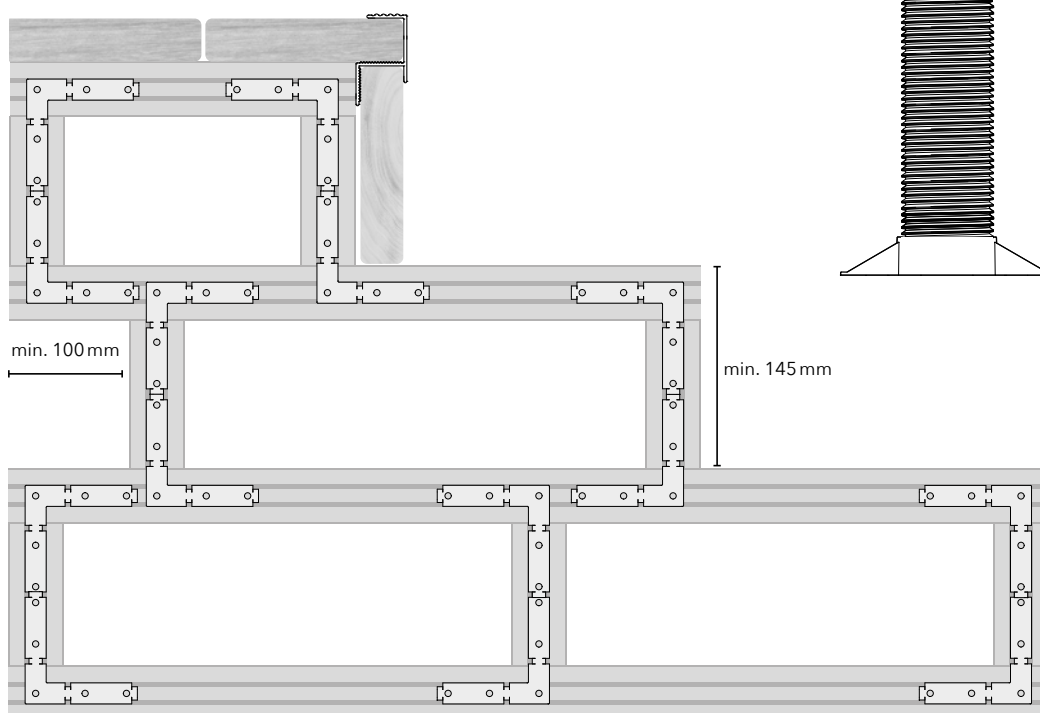
TIP: RELO RA edge finishing trim profiles are ideal for the step treads.





5-point screw fixation
ensures a secure connection with
UNIA system screws 4.2x 17 mm

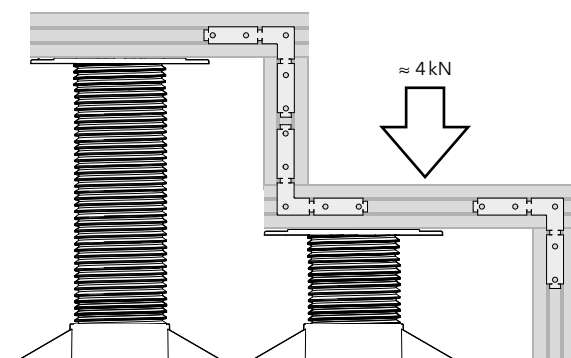
Rapid and automatic
positioning into the
RELO substructure joist



min. 100 mm

min. 145 mm

Frame design



Design using LIFTO adjustable pedestals

RELO F flat corner bracket SET

PU	Prod.No.
20 PCS	033603000



SET-PACK
Each package contains all the
UNIA system screws required
for mounting.



BRANDING
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Data Sheet



Tips & Tricks

RELO AW

LOAD-BEARING BRACKET



The **RELO AW** substructure load-bearing bracket is the ideal accessory for RELO aluminium and wood substructure joists.

Using the load-bearing bracket, you can integrate non-visible counterweights e.g., with stone or concrete slabs, into the substructure very easily and quickly.

The additional loads prevent the decking boards from being forced up, especially around the perimeter of the decking; it can also be used to protect roof terraces from wind suction and provide a secure and impact resistant substructure for insulated flat roofs with the additional applied loading.

At least 4 brackets are required for each load bearing slab. Additionally, it is recommended to insert cross-bracings or counter battening to prevent the substructure from twisting due to the acting loads.

OVERVIEW

Dimensions:	L 40 x W 40 x H 35 mm 3 mm
Material:	Aluminium blank

RELO AW17 SET

PU	Product No.
16 PCS	9009941018168



SET-PACK

Each package contains all the UNIA system screws required for mounting.

RELO AW22 SET

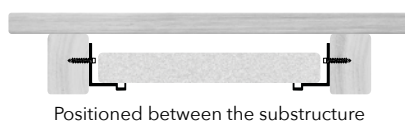
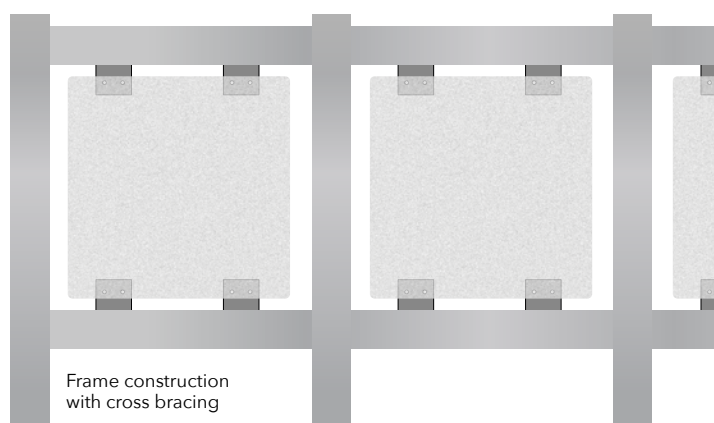
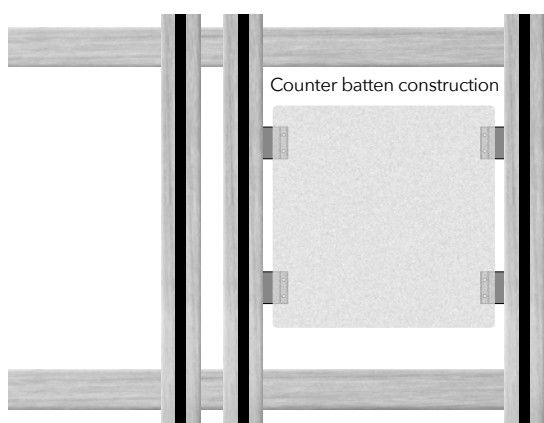
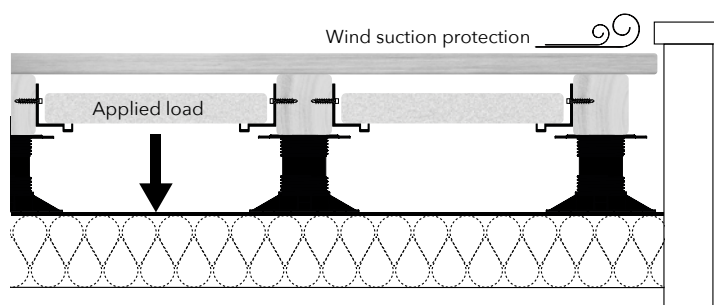
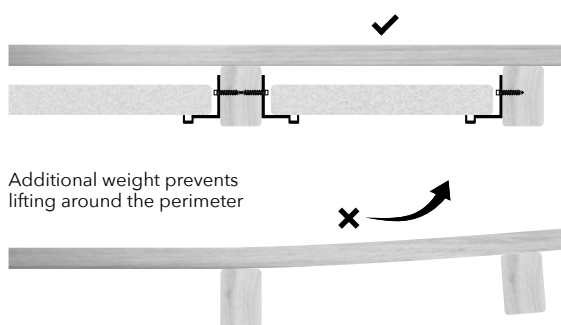
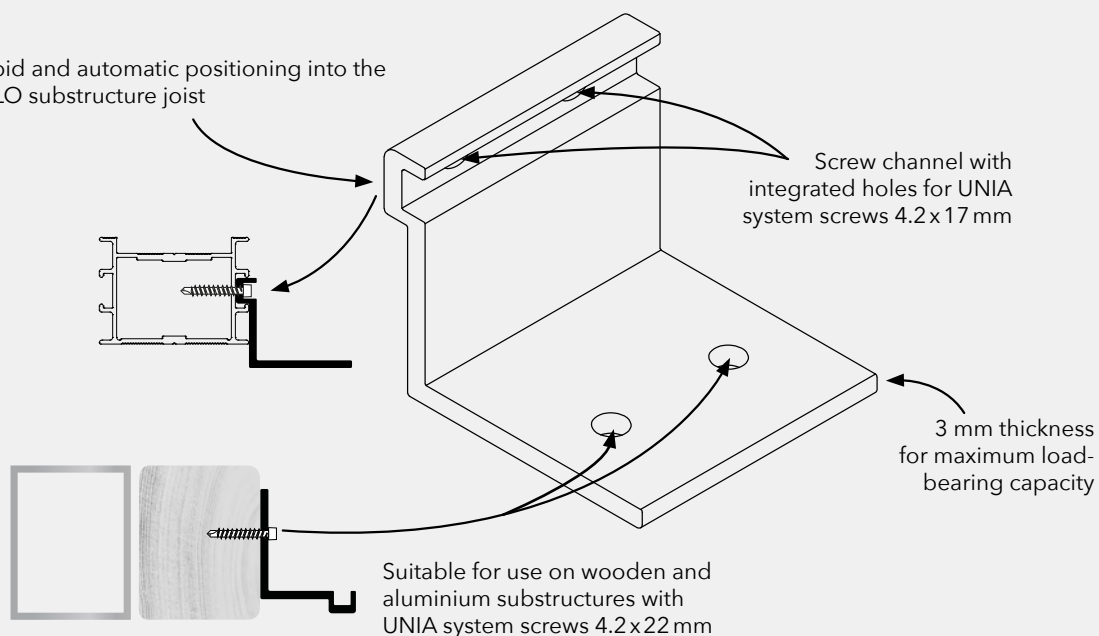
PU	Product No.
16 PCS	9009941018175



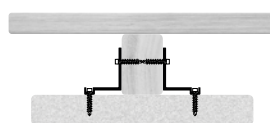
BRANDING

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Rapid and automatic positioning into the RELO substructure joist



Positioned between the substructure



Positioned below the substructure

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Data Sheet

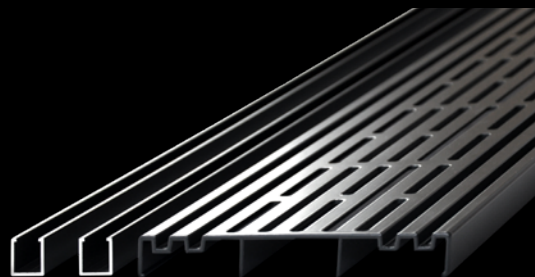
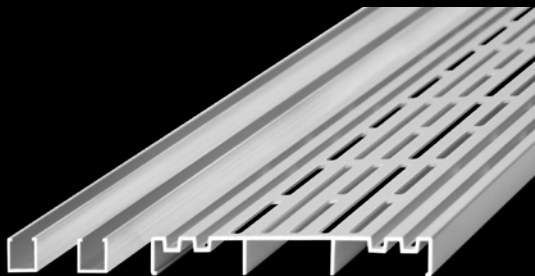


Tips & Tricks



RELO V

VENTILATION DRAINAGE GRATE



The ventilation drainage grate **RELO V** is perfectly suited to any decking project. The aluminum profile with the high-quality anodized finish seamlessly integrates into any terrace, creating a harmonious transition to adjacent objects.

Drainage occurs through the profile recesses, directing water directly into the substrate, significantly reducing staining caused by spray water on adjacent objects such as house walls, doors and windows. RELO V, with its 150 mm width, complies with flat roof design guidelines.

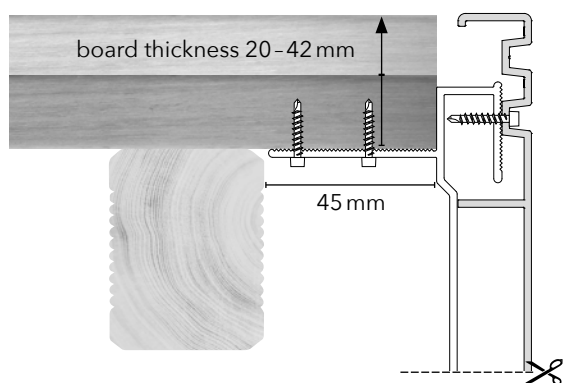
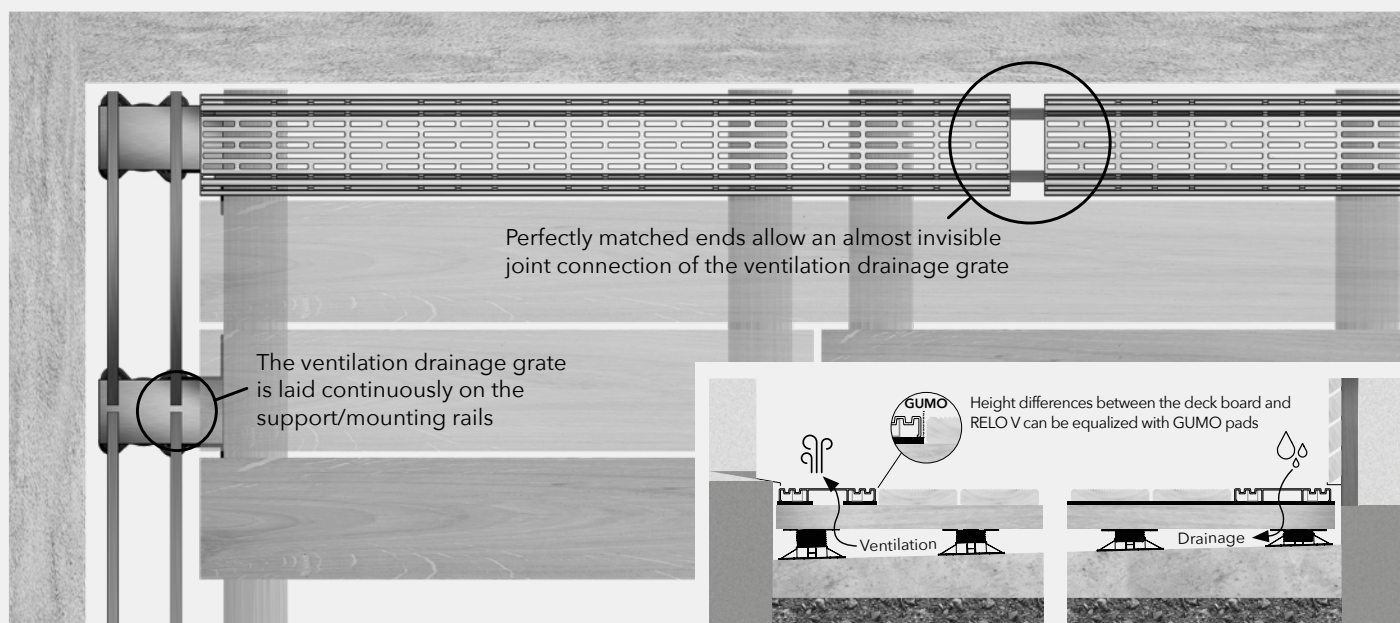
In addition, RELO V ensures optimal ventilation for the entire terrace structure while preventing early damage due to waterlogging and moisture buildup beneath the terrace.

The RELO V profile can be installed as a side panel, offering exceptional side ventilation to the terrace construction. These panels can be affixed using either the RELO VH holder or the RELO RA edge finishing trim. RELO VB trim permits an aesthetically pleasing edge finish.

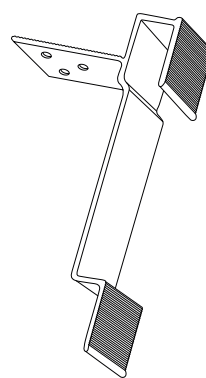
The ventilation and drainage grate are inserted into the pre-assembled RELO VA support profiles and individually screwed in place at specific points. If necessary, it can be easily disassembled for maintenance work.

OVERVIEW	RELO V	RELO VA support profiles
Dimensions:	1.200x150x20 mm	1.880x18x17 mm
Material:	Aluminium EN AW 6060	Aluminium EN AW 6060
Surface:	Silver Anodized E6/EV1 RAL 7016*	Aluminium blank RAL 7016*
Accessories:	RELO VA support profiles RELO VB end-cover E6/EV1 RELO VH holder aluminium blank	System screws UNIA 4,2x22-33 mm EPDM pads GUMO L 2-8 mm, depending on height adjustment

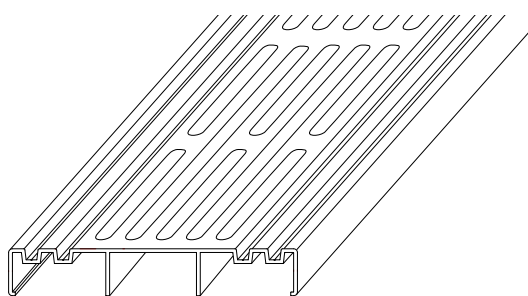
* Surface similar to RAL-Colour



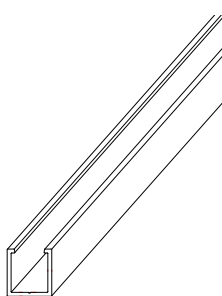
RELO VH is pre-mounted to the deck board
RELO V and RELO VH can be cut to length



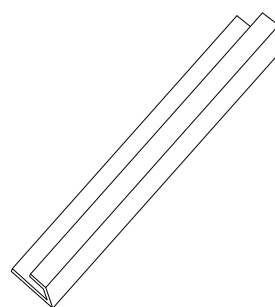
RELO VH
holder for side paneling



RELO V ventilation
drainage grate



RELO VA
support profile



RELO VB
end-cover

RELO V-SET E6/EV1	
PU	Prod. No.
10 PCS	** 014420000
incl. UNIA 4.2x22 mm	

RELO VA blank	
PU	Prod. No.
14 PCS	** 014520000

** no branding possible

RELO V-SET RAL 7016*	
PU	Prod. No.
10 PCS	** 034120000
incl. UNIA 4.2x22 mm	

RELO VA RAL 7016*	
PU	Prod. No.
14 PCS	** 034220000

RELO VH-SET blank	
PU	Prod. No.
12 PCS	033305000
incl. UNIA 4.2x17 mm	

RELO VB-SET E6/EV1	
PU	Prod. No.
12 PCS	033203000
incl. UNIA 4.2x22 mm	



SET-PACK
Each package contains all the UNIA system screws required for mounting and assembly instructions.



BRANDING
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Installation (V|VA)



Installation (VH|VB)



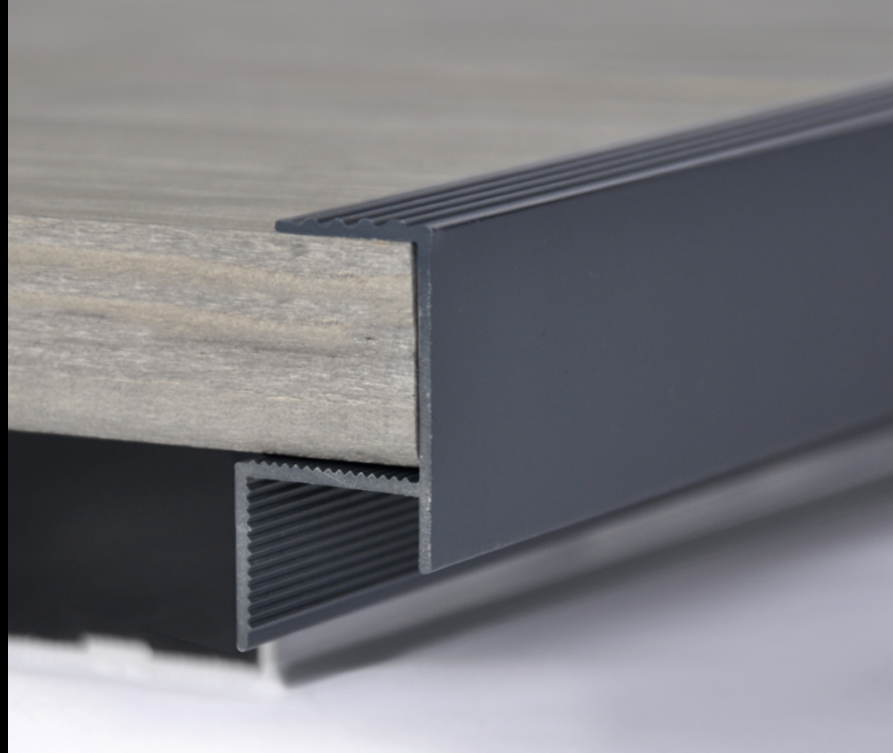
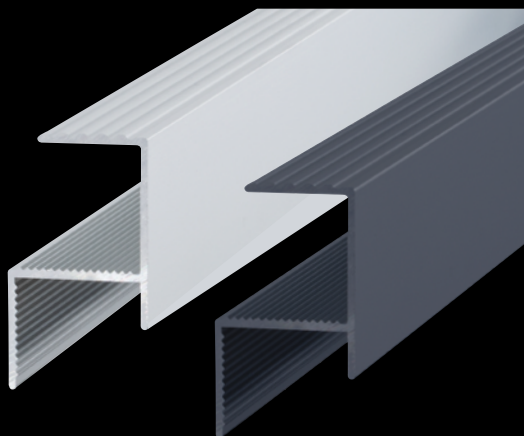
Data sheet



Tips & Tricks

RELO RA

EDGE FINISHING TRIM



The **RELO RA** edge finishing trim profile is the perfect finishing touch and design feature for any terrace made of wood, wood-like materials or ceramic tiles.

The simple installation and universal applications facilitate a wide range of possibilities: e.g. for pool border surrounds, stair treads, terrace borders with additional components such as the ventilation profile RELO V.

Made from high-grade aluminium with surface coating, the RELO RA protects exposed edges of decking boards, covers cut edges of ceramic tiles and conceals visible rough cuts.

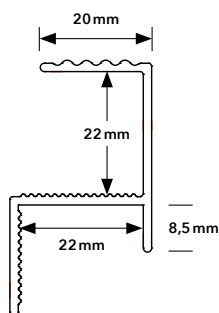
The RELO RA profiles are glued at specific points in contact with ceramic tiles. For decking applications made of wood or wood-like materials, they can also be glued or screwed at specific points.

OVERVIEW

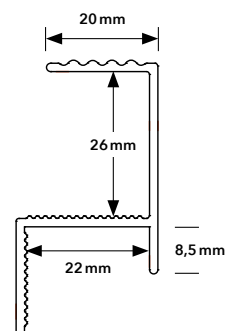
Dimensions:	Length 2,000 mm
Material:	Aluminium EN AW 6060
Surface:	Silver Anodized E6/EV1 Anthracite powder-coated similar to RAL 7016*

* Surface similar to RAL-Colour

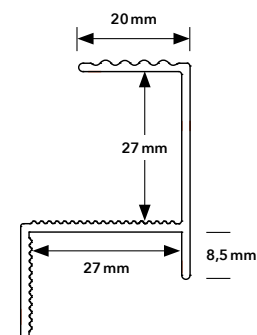
RELO RA 19-22 mm



RELO RA 23-26 mm



RELO RA 24-27 mm



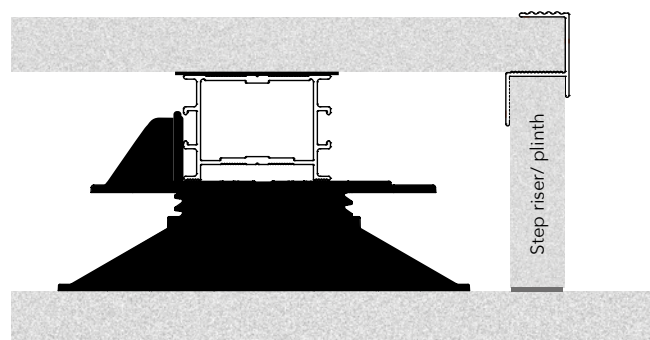
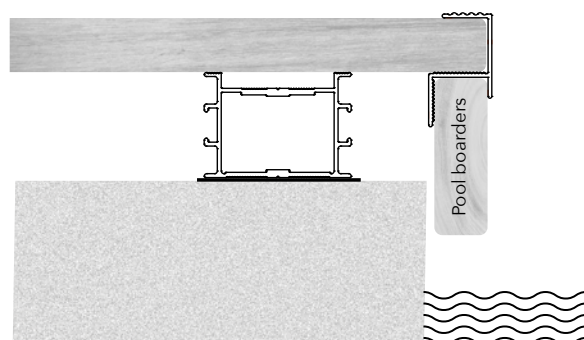
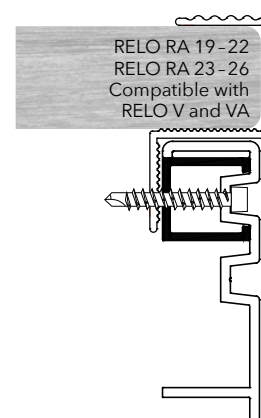
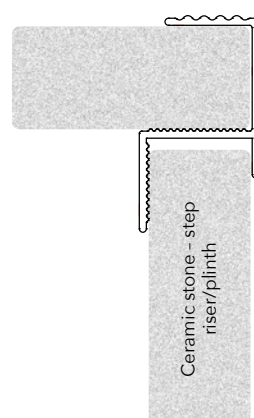
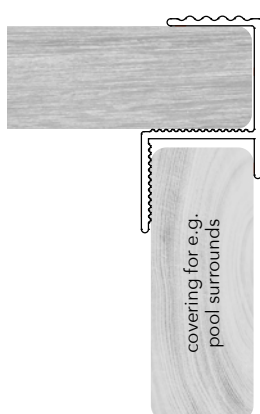
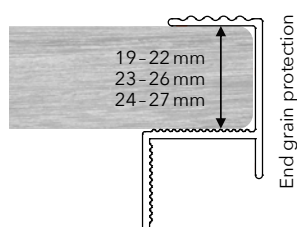
E6 EV1
RAL 7016*

High-quality anodised or
powder-coated surface

Ribbed surface for
strong glue adhesion

Anti-slip ribbed design

Riser/ fascia recess and
housing for RELO V with VA



RELO RA 19 - 22 mm

Description	PU	Prod. No.
E6/EV1	10 PCS	033400000
RAL 7016*	10 PCS	035800000

RELO RA 23 - 26 mm

Description	PU	Prod. No.
E6/EV1	10 PCS	033500000
RAL 7016*	10 PCS	035900000

RELO RA 24 - 27 mm

Description	PU	Prod. No.
E6/EV1	10 PCS	035200000
RAL 7016*	10 PCS	035300000

DOWNLOADS



Data sheet



Tips & Tricks

LIFTO

ADJUSTABLE PEDESTAL



Terrace substructures made of wood, wood-based materials or aluminium are simply, quickly and precisely levelled with the **LIFTO** terrace pedestal.

The continuously variable height adjustment offers millimetre accuracy allowing timesaving benefits and an easy assembly process.

Height differences of 35 - 135 mm can be extended to 295 mm with simple height adapters.

The X-shaped base plate is variable in position and secure in place. The special shape allows for close edge positioning, for example against a wall, or for close alignment of parallel joists when connecting board ends. The X-shaped base plate is easy to use and has advantages over standard round base plates.

The high load-bearing capacity of the LIFTO pedestal is achieved through reinforced tubular walls, precision moulded threads and connection adapters. This ensures a durable and stable base.

LIFTO 35 - 55 mm	
PU	Prod. No.
10 PCS	005511000
30 PCS	005513000
125 PCS	005514000*
200 PCS	005515001**

LIFTO 55 - 95 mm	
PU	Prod. No.
90 PCS	005514010*
150 PCS	005515010**

LIFTO 95 - 135 mm	
PU	Prod. No.
60 PCS	005514015*
120 PCS	005515015**

LIFTO A20 mm	
PU	Prod. No.
10 PCS	005604000
60 PCS	005611000
650 PCS	005600001*

LIFTO A60 mm	
PU	Prod. No.
5 PCS	033004000
20 PCS	033011000
250 PCS	033014000*

LIFTO A40 mm	
PU	Prod. No.
5 PCS	005704000
30 PCS	005711000
350 PCS	005700001*

LIFTO A80 mm	
PU	Prod. No.
5 PCS	033105000
16 PCS	033111000
175 PCS	033114000*



BRANDING
Custom branding
upon request

* No branding possible
** Pedestals not pre-assembled

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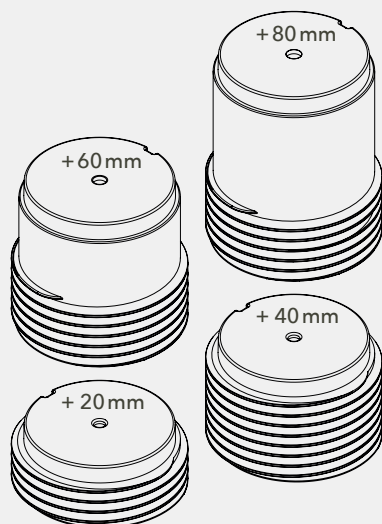
Data sheet



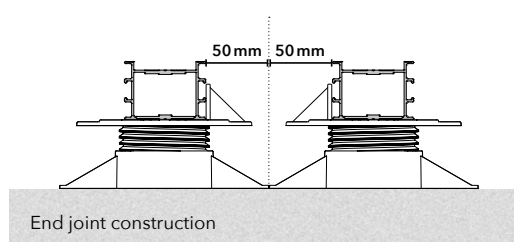
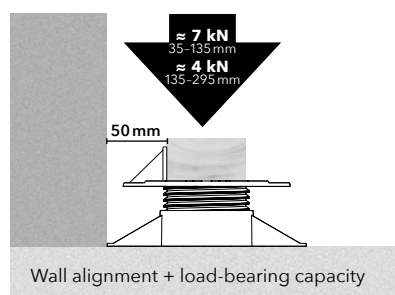
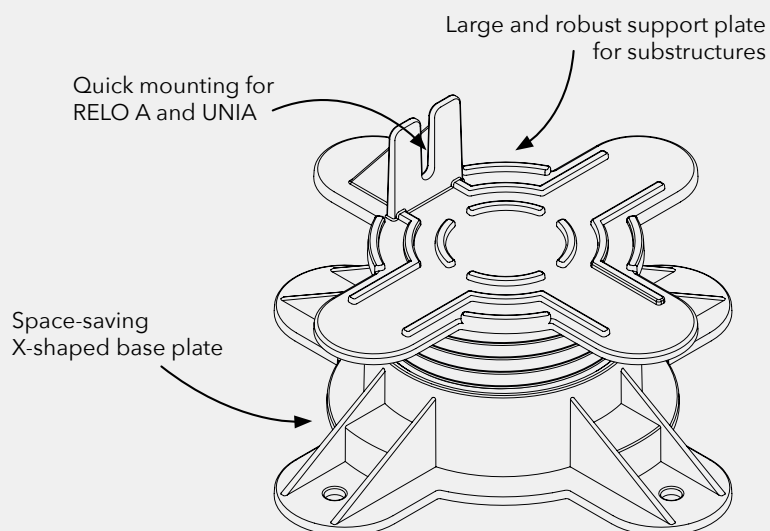
Tips & Tricks



Video



Simple intermediate adapters, for extending the height adjustment, provide maximum flexibility in assembly and storage



Application	Concrete foundation / stone slabs	Position LIFTO directly on foundation or stone slabs	Image A
	Gravel or crushed stone	Position LIFTO on compacted concrete slabs	Image B
	Soil	Position LIFTO on compacted concrete slabs	Image C
	Insulated flat roofs	Position LIFTO on GUMO LGD/LGA pressure pad	Image D

A

B

C

D

OVERVIEW		LIFTO 35-55	LIFTO 55-95	LIFTO 95-135	Adapter A20	Adapter A40	Adapter A60	Adapter A80
Height adjustment	35-55 mm	■						
	55-95 mm		■					
	95-135 mm			■				
	135-175 mm			■		+1		
	175-215 mm			■				+1
	215-255 mm			■		+1		+1
	255-295 mm			■				+2
	*115-155 mm			■	+1			
	*155-195 mm			■			+1	
	Dimensions:	Baseplate Ø 167 mm 70 mm support plate diameter			+ 20 mm height	+ 40 mm height	+ 60 mm height	+ 80 mm height
Material:		PP polypropylene Recycled black UV and weather resistant						
Accessories:		UNIA1 4.2 x 22 mm for fastening the pedestals to a wooden or aluminium substructure RELO A adapter for screwless fastening of the pedestals to RELO substructure joists GUMO LGD/LGA pressure distribution pad for flat roof / LGA for aluminium foil						

* Intermediate height

LIFTO K

ADJUSTABLE PEDESTAL



LIFTO KU pedestals enable simple, fast and precise height adjustment for decking substructures made of wood, wood-like materials and aluminium.

LIFTO KS pedestals enable simple, quick and cost-effective installation of patio slabs made of stone, concrete and ceramic. A joint width of just 3.2mm ensures a visually appealing installation design.

The height adjustment is continuously variable with millimetre precision via an integrated height adjustment ring. Height differences of 50-140mm can be accommodated with the two basic models and extended to 500mm with a simple intermediate adapter.

LIFTO N Slope corrector is compatible with LIFTO KU and KS and automatically levels gradients up to 4% in all directions.

LIFTO R Regulating discs have a shock-absorbing function and compensate for irregularities on the patio tiles.

LIFTO KU 50 - 80 mm	
PU	Prod. No.
10 PCS	015213000
50 PCS	015214001*

LIFTO KU 80 - 140 mm	
PU	Prod. No.
6 PCS	015313000
50 PCS	015315001*



BRANDING
Custom branding upon request
* no branding possible

LIFTO KS 50 - 80 mm	
PU	Prod. No.
10 PCS	015213001
50 PCS	015214002*

LIFTO KS 80 - 140 mm	
PU	Prod. No.
6 PCS	015313001
50 PCS	015315002*

LIFTO R Regulating disc 2.0 mm	
PU	Prod. No.
50 PCS	015804000

LIFTO KA 60 Adapter	
PU	Prod. No.
12 PCS	015412000
126 PCS	015414000*

LIFTO N Slope corrector	
PU	Prod. No.
50 PCS	015913000

LIFTO R Regulating disc 1.3 mm	
PU	Prod. No.
50 PCS	015704000

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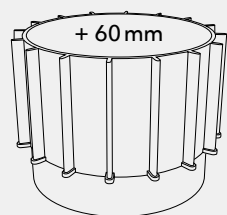
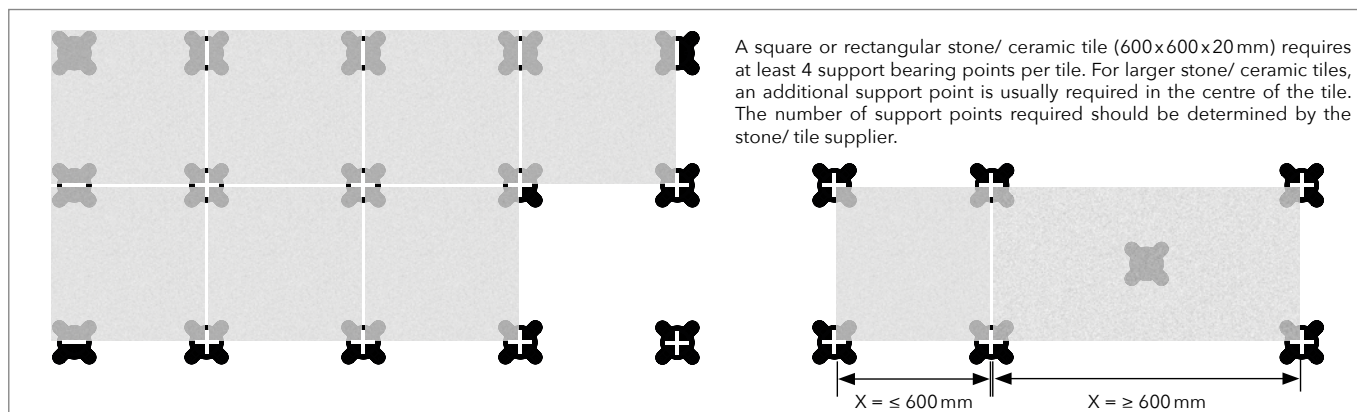
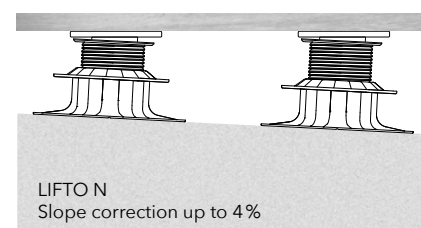
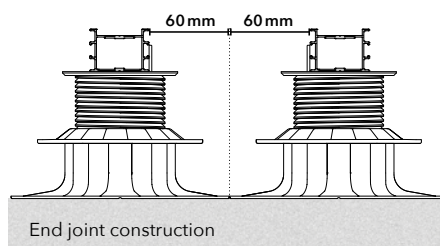
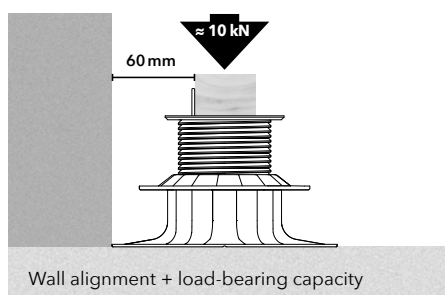
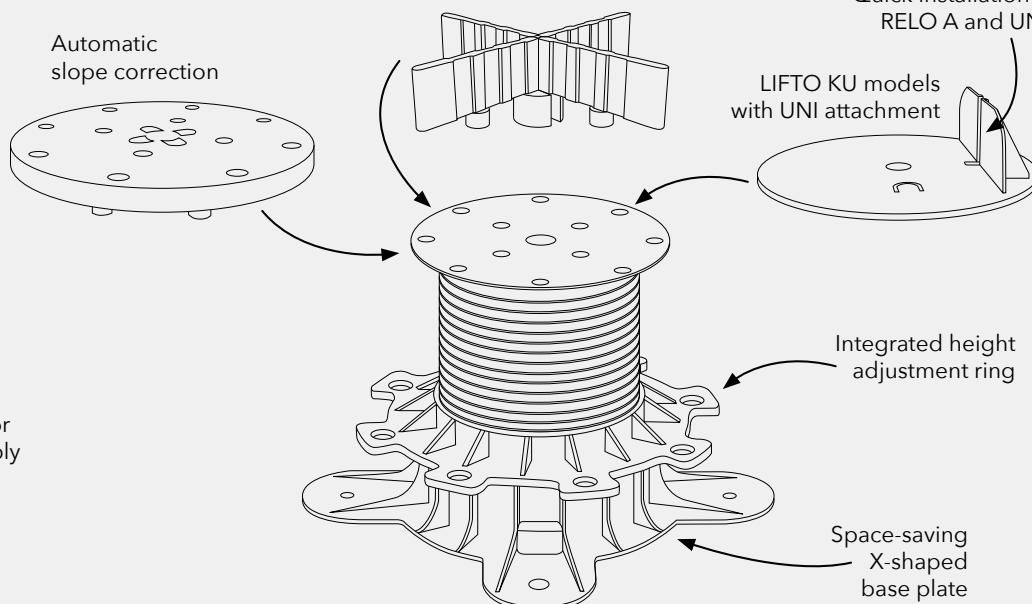
Data sheet



Tips & Tricks



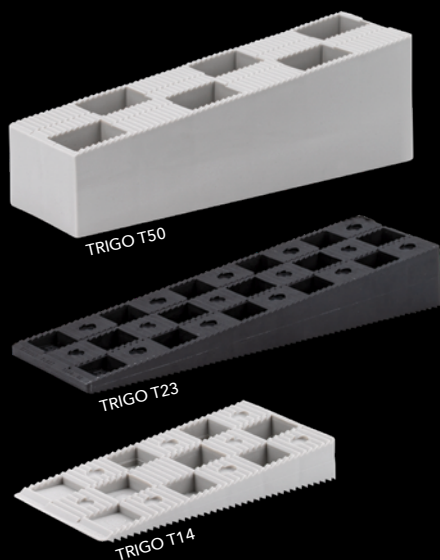
Video

LIFTO KS models with
Stone tile attachmentQuick installation for
RELO A and UNIALIFTO KU models
with UNI attachmentAutomatic
slope correctionIntegrated height
adjustment ringSpace-saving
X-shaped
base plateKA60 intermediate adapter for
maximum flexibility in assembly
and storage

	OVERVIEW	LIFTO KU 50-80	LIFTO KU 80-140	LIFTO KS 50-80	LIFTO KS 80-140	Adapter KA 60
Height adjustment	50-80 mm	■		■		
	80-140 mm		■		■	
	140-200 mm		■		■	+1
	200-260 mm		■		■	+2
	260-320 mm		■		■	+3
	320-380 mm		■		■	+4
	380-440 mm		■		■	+5
	440-500 mm		■		■	+6
	Dimensions:	Baseplate Ø 225 mm 90 mm support plate diameter		Support plate Ø 120 mm Joint cross 3.2 mm		+ 60 mm height
	Material:	PP polypropylene Recycled black UV and weather resistant				
	Accessories:	UNIA1 4.2 x 22 mm for fastening the pedestals to a wooden or aluminium substructure RELO A adapter for screwless fastening of the pedestals to RELO substructure joists GUMO LGD/LGA pressure distribution pad for flat roof / LGA for aluminium foil LIFTO N automatic three-dimensional 4% levelling / installation height + 15 mm LIFTO R regulating disc for stone slabs - thickness 1.2 or 2.0 mm				

TRIGO

ADJUSTING WEDGE



The trigonal shape of the **TRIGO** adjusting wedges ensures quick and easy installation of decking substructures made of wood, wood-like materials or aluminium.

Three adjustment wedges can compensate for differences in height from 14 mm to 67 mm.

The design of the jagged teeth ensures a non-slip and deformation-free connection.

The special design and choice of materials have a sound absorption effect.

TRIGO adjustment wedges can be used universally and in any combination.

TRIGO		
Description	PU	Prod. No.
Adjusting wedge T14	100 PAIR	012312001
Adjusting wedge T14 + T23	75 PAIR	012412001
Adjusting wedge T23	50 PAIR	012512001
Adjusting wedge T14 + T50	50 PAIR	034013000
Adjusting wedge T23 + T50	45 PAIR	034013001

DOWNLOADS



Data sheet



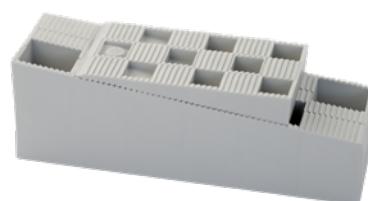
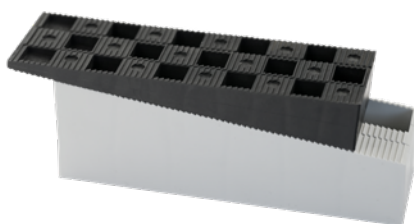
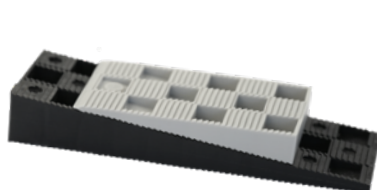
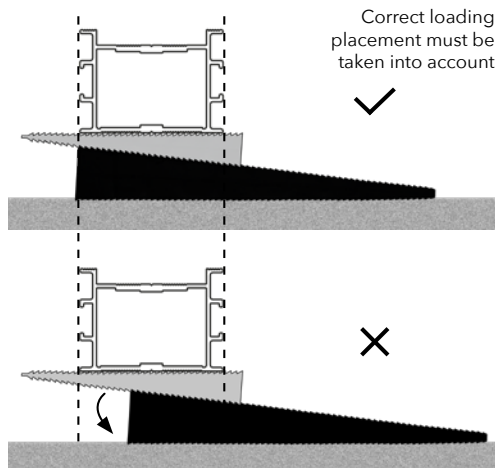
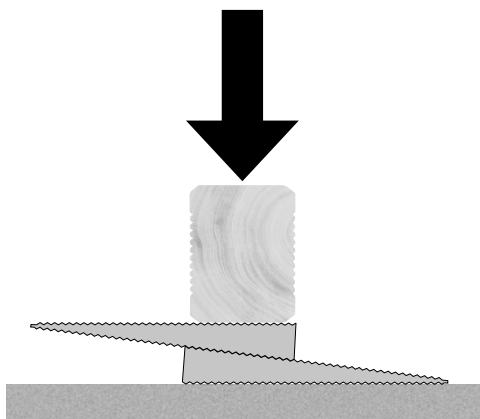
Tips & Tricks

Compatible adjustment wedges allow a continuous height adjustment up to 67 mm

The special design ensures maximum load transfer without deformation

Jagged teeth ensure precise and non-slip alignment - even in the lateral direction

6 kN

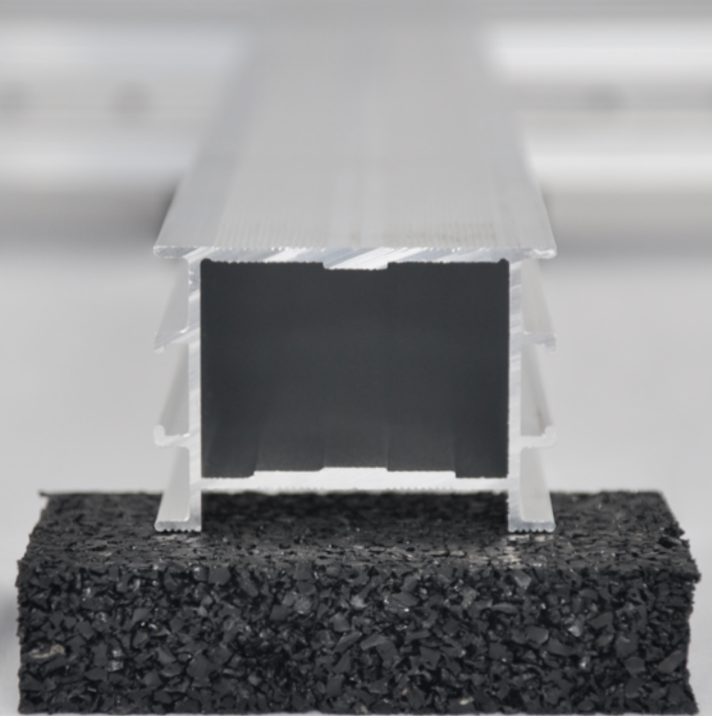
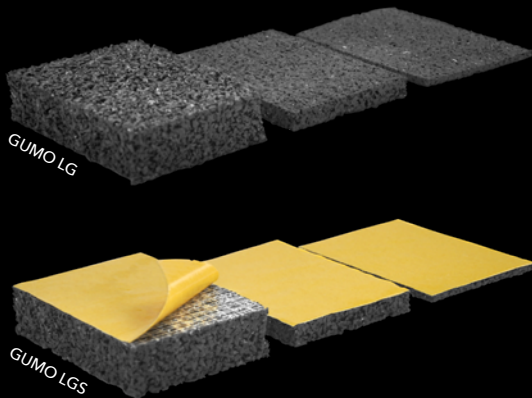


OVERVIEW	TRIGO T14	TRIGO T23	TRIGO T50
Height adjustment*			
14 - 22 mm	2		
18 - 32 mm	1	1	
26 - 40 mm		2	
39 - 58 mm	1		1
41 - 67 mm		1	1
Dimensions:	H 3.5 - 14 mm W 46 mm L 93 mm	H 4 - 23 mm W 46 mm L 152 mm	H 31 - 50 mm W 46 mm L 152 mm
Material:	PE polypropylene Recycled black UV and weather resistant		

* The stated height adjustments are determined with a 45 mm wide substructure

GUMO LG | LG-S

GRANULATE PAD



GUMO LG / LG-S levelling pads are designed to adjust for small height differences between the deck substructure and the foundation.

The recycled EPDM granules provide shock absorption, and the textured surface offers high slip resistance.

The single-sided self-adhesive version is ideal for easy and effective installation.

GUMO LG pads		
Descr.	PU	Prod. No.
3 mm	60 PCS	038004000
3 mm	500 PCS	038013000
8 mm	24 PCS	038104000
8 mm	400 PCS	038113000
20 mm	12 PCS	038204000
20 mm	160 PCS	038213000

GUMO LG-S pads		
Descr.	PU	Prod. No.
3 mm	60 PCS	038504000
3 mm	500 PCS	038513000
8 mm	24 PCS	038604000
8 mm	400 PCS	038613000
20 mm	12 PCS	038704000
20 mm	160 PCS	038713000



BRANDING
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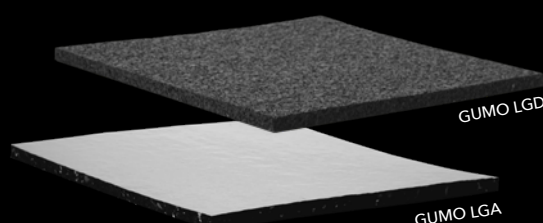


Tips & Tricks

OVERVIEW	GUMO LG 3 GUMO LG-S 3	GUMO LG 8 GUMO LG-S 8	GUMO LG 20 GUMO LG-S 20	GUMO LGR 5 Roll GUMO LGR-S 5 Roll	GUMO LGR 8 Roll GUMO LGR-S 8 Roll	GUMO LGD	GUMO LGA
Dimensions:	H 3 mm W 60 x L 90 mm	H 8 mm W 60 x L 90 mm	H 20 mm W 60 x L 90 mm	H 5 mm W 77 mm L 2.3 m	H 8 mm W 77 mm L 2.3 m	H 5 or 8 mm W 185 x L 200 mm	H 5 or 8 mm W 185 x L 200 mm
Material:	Recycled black EPDM granules UV and weather resistant						
	LG-S self-adhesive on one side			LGR-S self-adhesive on one side		LGA with aluminium foil on one side	

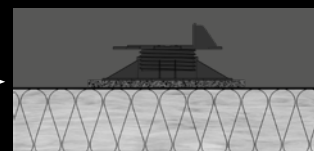
GUMO LGD | LGA

PRESSURE DISTRIBUTION PAD



Use the aluminium
foil side for membrane

→
GUMO LGA



GUMO LGD / LGA serve as pressure distribution pads beneath the terrace pedestal.

GUMO LGA has an additional aluminium foil on one side. This acts as a barrier to the waterproofing membranes and prevents potential plasticiser contamination.

The recycled EPDM granules are shock-absorbing, and the textured surface is highly slip-resistant.

GUMO LGD pads		
Descr.	PU	Prod. No.
5 mm *	10 PCS	039001001
5 mm	100 PCS	039013000
8 mm *	10 PCS	009301001
8 mm	68 PCS	009313000

GUMO LGA pads		
Descr.	PU	Prod. No.
5 mm *	10 PCS	039101001
5 mm	100 PCS	039113000
8 mm *	10 PCS	012001001
8 mm	68 PCS	012013000

* no branding possible



GUMO LGR / LGR-S rubber granulate rolls are practical and perfect for cutting to length.

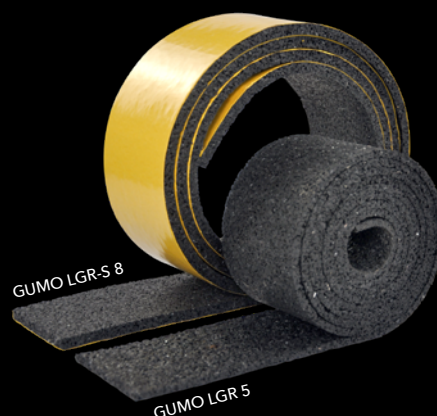
The recycled EPDM granules provide shock absorption, and the textured surface offers high slip resistance. The single-sided self-adhesive version is ideal for easy and effective installation.

GUMO LGR Roll (2.3 m)		
Descr.	PU	Prod. No.
5 mm	6 PCS	038312000
8 mm	4 PCS	038412000

GUMO LGR-S Roll (2.3 m)		
Descr.	PU	Prod. No.
5 mm	6 PCS	038812000
8 mm	4 PCS	038912000

GUMO LGR | LGR-S

GRANULATE ROLLS



GUMO L

EPDM PADS



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Data sheet



Tips & Tricks

The **GUMO L** pads ensure optimum ventilation between the substructure and the substrate. Different thicknesses make it easy to compensate for differences in height, and several can be stacked on top of each other.

OVERVIEW	GUMO L2	GUMO L5	GUMO L8
Dimensions:	H 2 mm W 30 mm L 80 mm	H 5 mm W 30 mm L 80 mm	H 8 mm W 30 mm L 80 mm
Material:	EPDM rubber recycled black UV and weather resistant		

BRANDING
Custom branding
upon request



GUMO L		
Description	PU	Prod. No.
2 mm	150 PCS	009004000
5 mm	70 PCS	009104000
8 mm	50 PCS	009204000

HELPO

GROUND COVER MEMBRANE



The **HELPO ground cover membrane** is a high quality permeable, breathable, and UV Stable membrane for suppressing unwanted vegetation below the terrace.

Overlap each row and apply a capillary breaker layer (e.g. gravel).

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Tips & Tricks

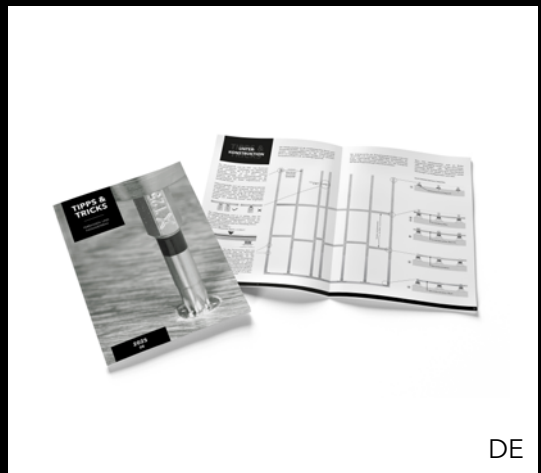
HELPO Ground cover membrane

Description	PU	Prod. No.
1.6x10 m	14 PCS	010614000
1.1 m/50 m Roll	1 PCS	010614002

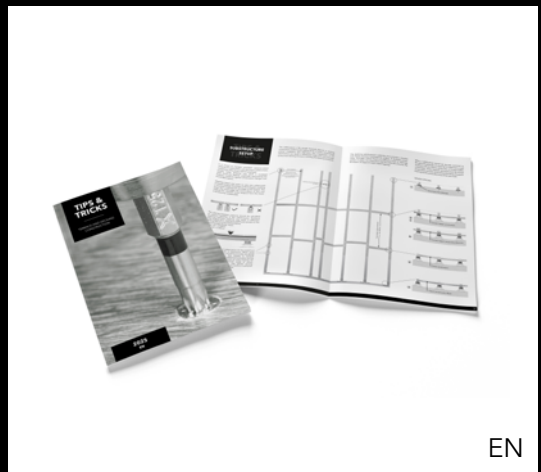


TIPS & TRICKS

DECKING AND FACADE CONSTRUCTION



DE



EN

Tips & Tricks offers essential information and application advice upfront to Prevent issues and ensure compliant designs, reducing the likelihood of complaints or claims.

Tips & Tricks do not substitute country-specific regulations, subject rules, guidelines, and standards.

DOWNLOADS



German



English

Brochure TIPS & TRICKS

Description	PU	Prod. No.
German	20 PCS	020001042



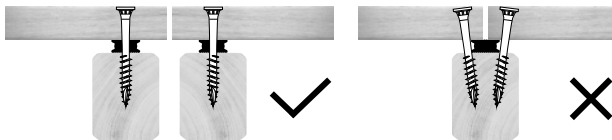
TIPS & TRICKS

SUBSTRUCTURE SETUP

It is crucial to maintain consistent centre-to-centre distances for both timber and aluminium substructures, irrespective of the fixing method employed.

Greater center distances may result in increased shear forces per fastener, potentially jeopardizing the fasteners resilience against dimensional changes and board deformation.

Attaching board end joints to only one substructure increases moisture absorption in the end grain, resulting in excessive swelling and shrinkage of the boards. This setup also encourages the accumulation of dirt, and meeting the required screw distance from the board ends becomes unattainable.

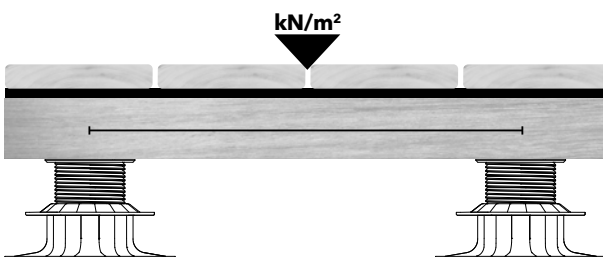


The spacing between supports should be calculated to prevent bending of the substructures. Excessive distances between supports may result in deflection when walked upon, leading to additional stresses on the decking fixtures and potential failure.

Recommended design loads:

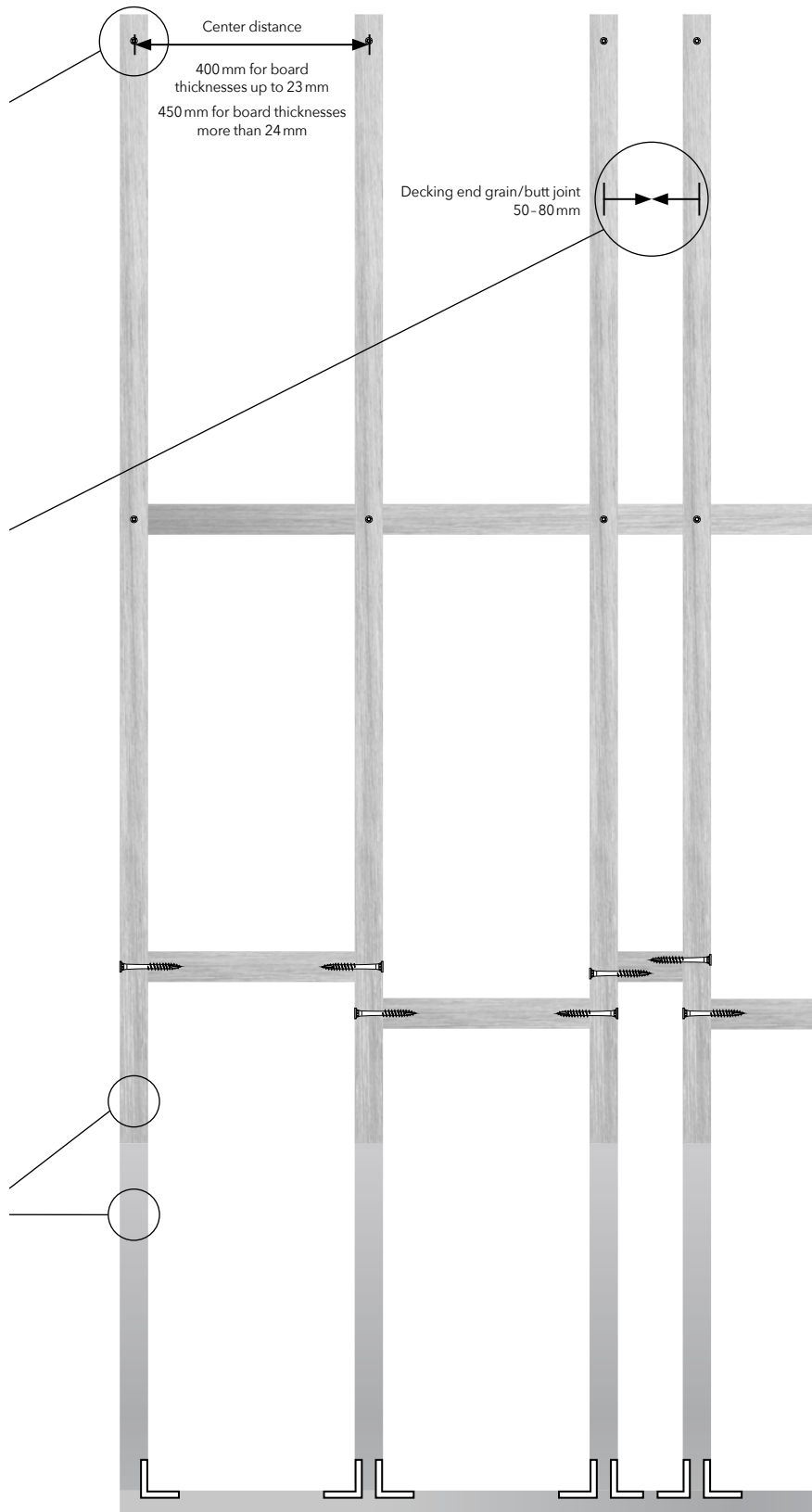
Private use $\approx 4 \text{ kN/m}^2$

Public use $\approx 6 \text{ kN/m}^2$



The terrace construction substructure can be made from wood, wood-like materials, or aluminium. When using wooden substructures, it's crucial to prioritize durability and dimensional stability. Any bowed or warped substructures should be identified and excluded during installation or, if feasible, utilized as cross bracing for frame constructions. Substructures made of wood, particularly imported varieties, may exhibit varying densities (kg/m^3), so it's advisable to confirm in advance whether the fasteners are compatible.

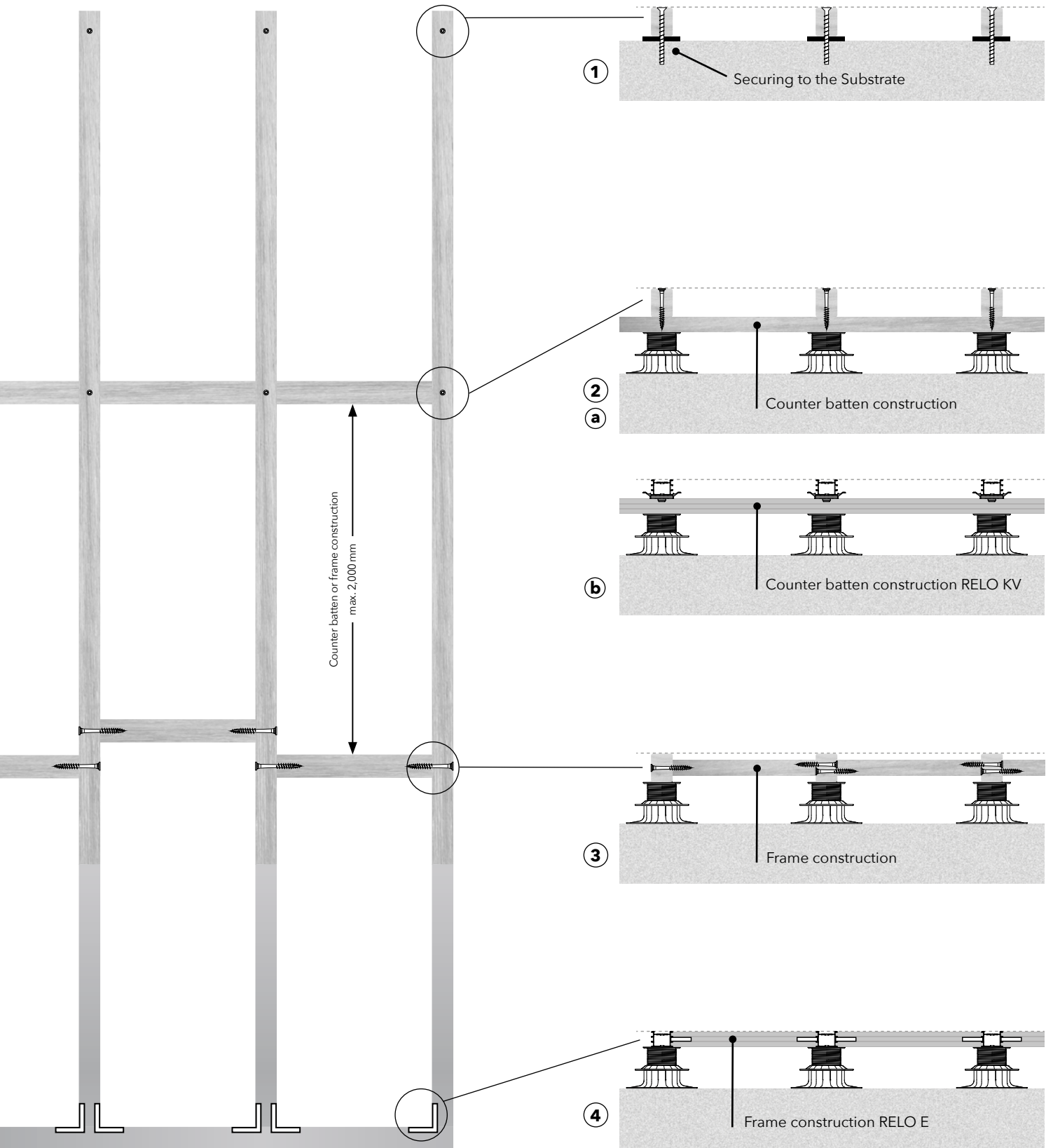
The substructure is the pivotal structural element in decking construction, enduring the highest levels of stress, necessitating precise installation and alignment. Any irregularities in the substructure can result in subsequent faults and early damage to the entire decking structure, including the fastening hardware.



The decking substructure's substrate must provide a durable and freeze-resistant load-bearing surface. To facilitate proper water drainage, ensure there is a sufficient slope or drainage system in place. It is imperative that the substrate prevents the formation of stagnant water (waterlogging).

When a substructure cannot be securely anchored to the ground (substrate), it's essential to implement a rigid structure, such as a frame construction or counter-batten construction. These methods guarantee that the terrace remains flat in position and prevents the lifting of support-bearing points, particularly around the perimeter.

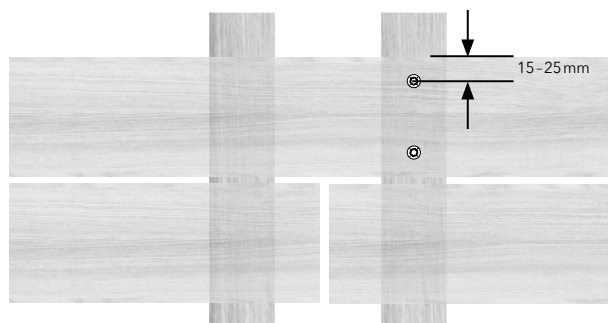
DESIGN OPTIONS:



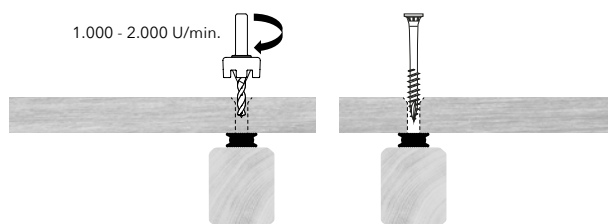
TIPS & TRICKS FIXING INSTRUCTIONS

Ensure the screw distance from the end of the board falls within the range of 50–80 mm. If the distance is too big, the boards may twist and warp; conversely, if it's too small, cracks may form.

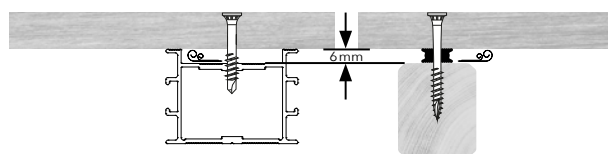
The joint spacing, denoted as **X**, is influenced by the type of wood and installation conditions, and it is crucial to verify this with the wood supplier to avoid compromising the overall installation.



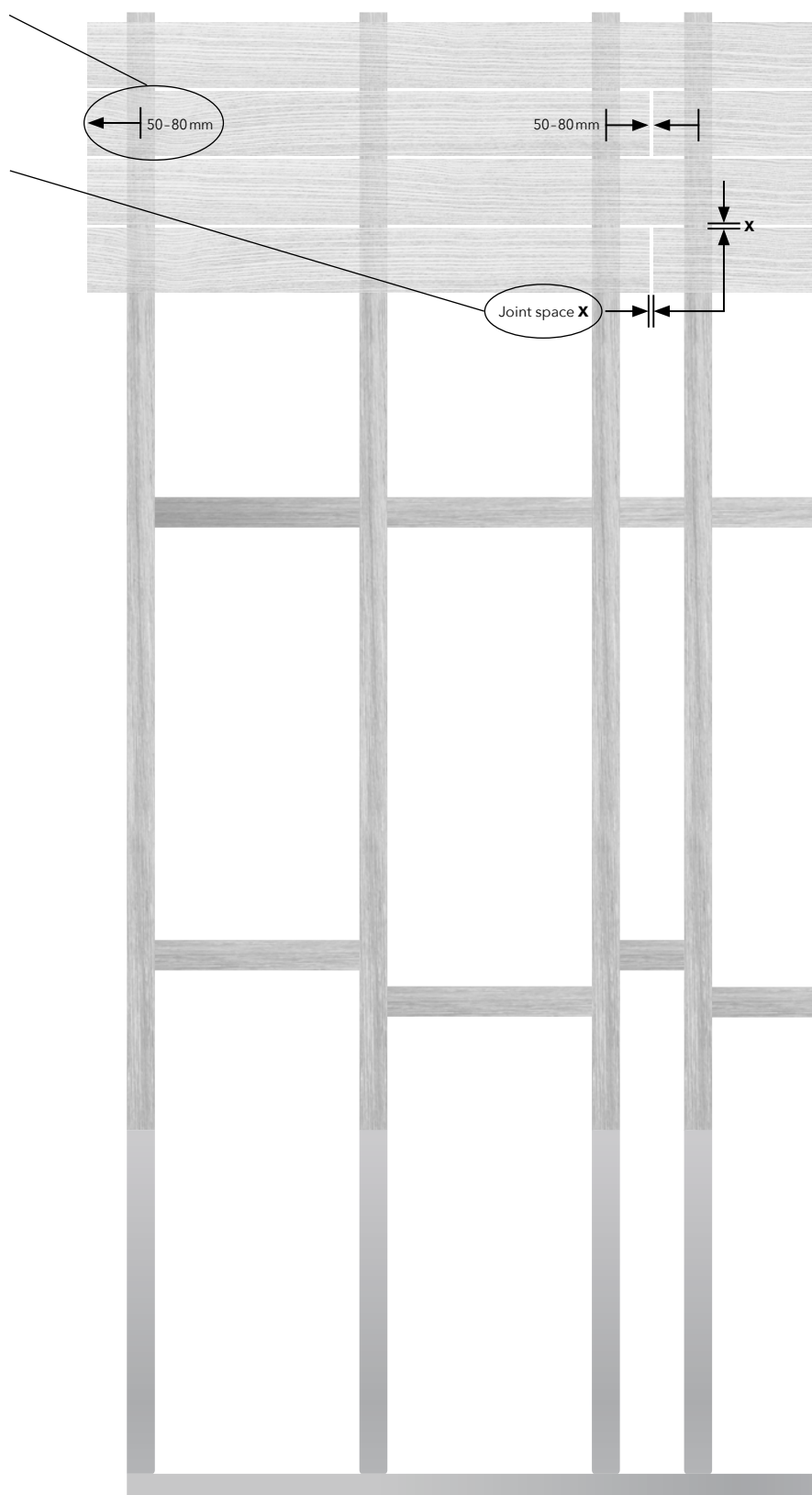
The screw distance from the board edge should range between 15–25 mm depending on the board width.

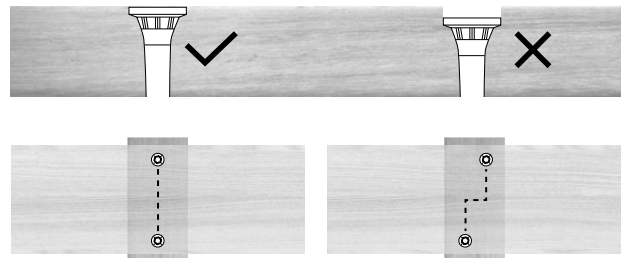
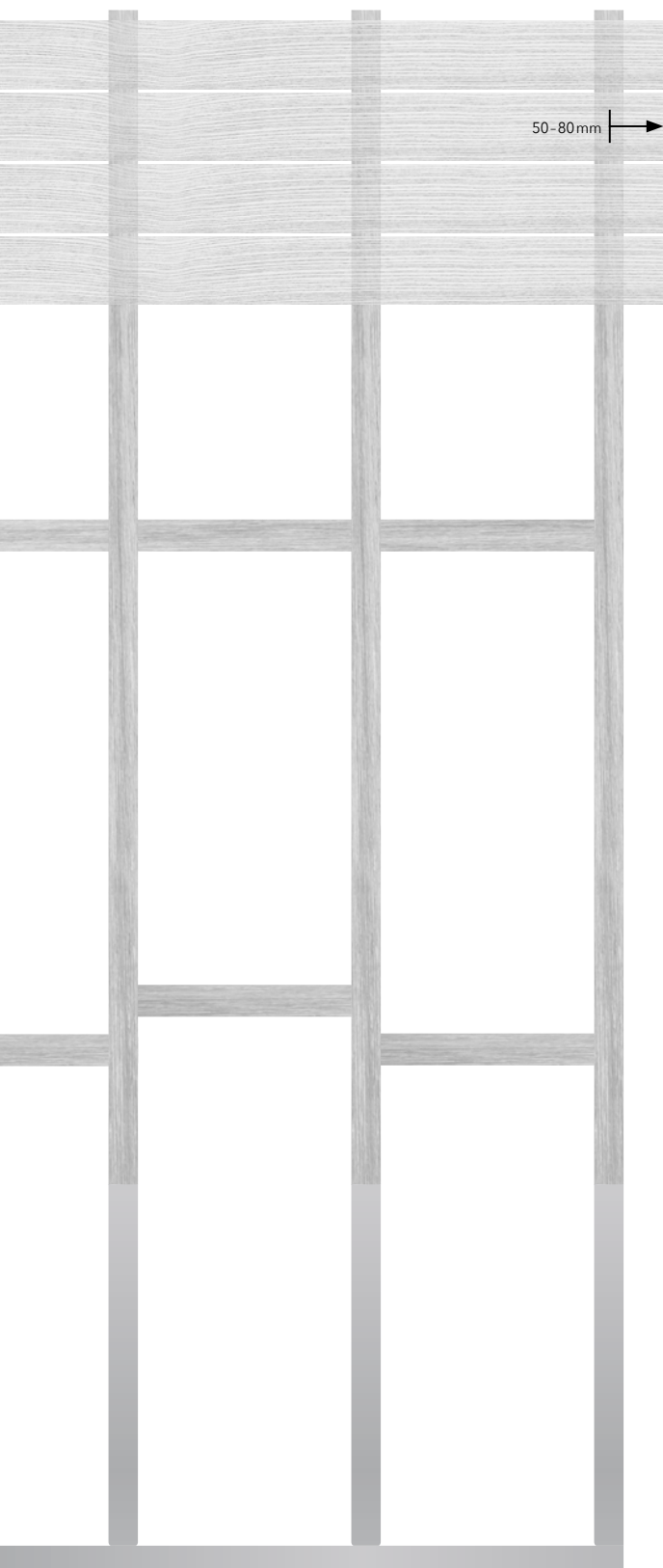


The board to be connected should be pre-drilled and countersunk using the appropriate tool. To prevent potential wood staining near the screw head, it's crucial to promptly remove the accumulated drilling dust after pre-drilling. Replace the bit after extended use to avoid iron abrasion. A tip to note refrain from using a magnetic bit holder, as it attracts metal particles and may result in staining (iron-tannic acid reaction) on the board. In case of existing staining, specialized cleaning agents can be employed for removal.



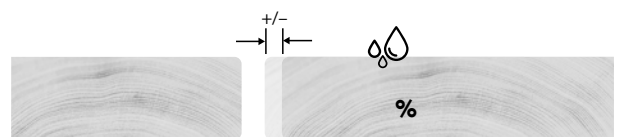
Maintaining a minimum clearance of 6 mm (ventilation level) is essential for enhancing structural integrity. This clearance effectively reduces the swelling and shrinking movements of the boards, minimizing the shearing effects on the fasteners. It is advisable to avoid direct surface contact between wood on wood.



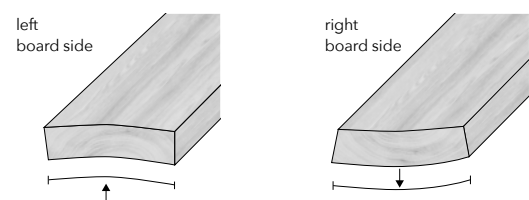


The screws should be countersunk flush with the surface. If the screw heads are recessed too deep, it may promote the accumulation of dirt and water, potentially causing staining around the screw head. The screws can be arranged in a straight line or offset.

When the board width ≥ 70 mm, we recommend two mounting screws. Short boards should be mounted to at least 3 substructures.



It is essential to check the wood moisture content before installing the boards. Ensuring the correct moisture content of the decking is crucial for a trouble-free and long-lasting terrace. The appropriate wood moisture content should be specified by the wood supplier.

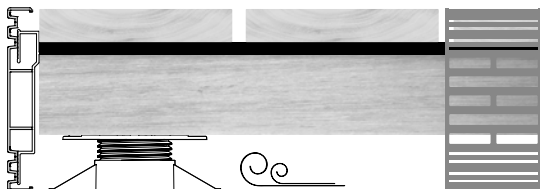


Various factors, including the production process, wood species, and profiling, determine whether boards should be laid with the right or left side facing upwards. It is crucial to always install the boards with the correct side facing upwards. Installing boards on different sides can lead to visual defects and compromise the fastening system's effectiveness over time.

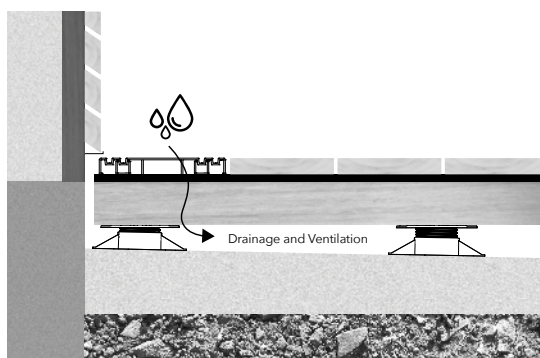
Wood, being a naturally grown material, can result in warped and/or twisted decking boards. It is essential to identify and exclude any compromised boards during installation or, if feasible, utilize them as shorter boards.

TIPS & TRICKS

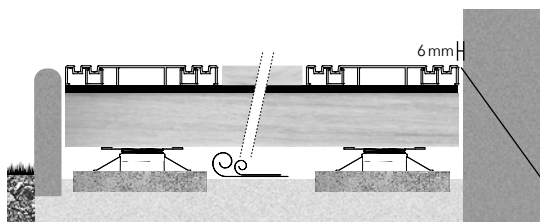
VENTILATION AND DRAINAGE



Ensure proper side ventilation for the entire structure, for instance, by incorporating the RELO V ventilation profile. The use of side fascia boards may hinder sufficient ventilation and could result in potential faults.

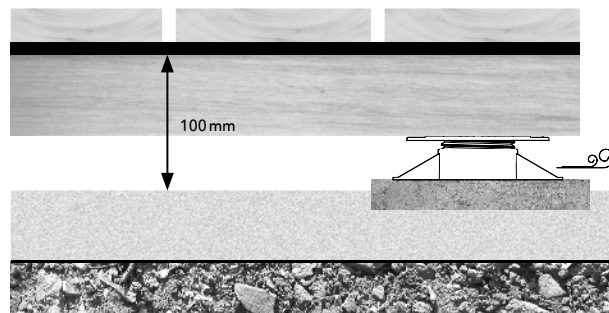
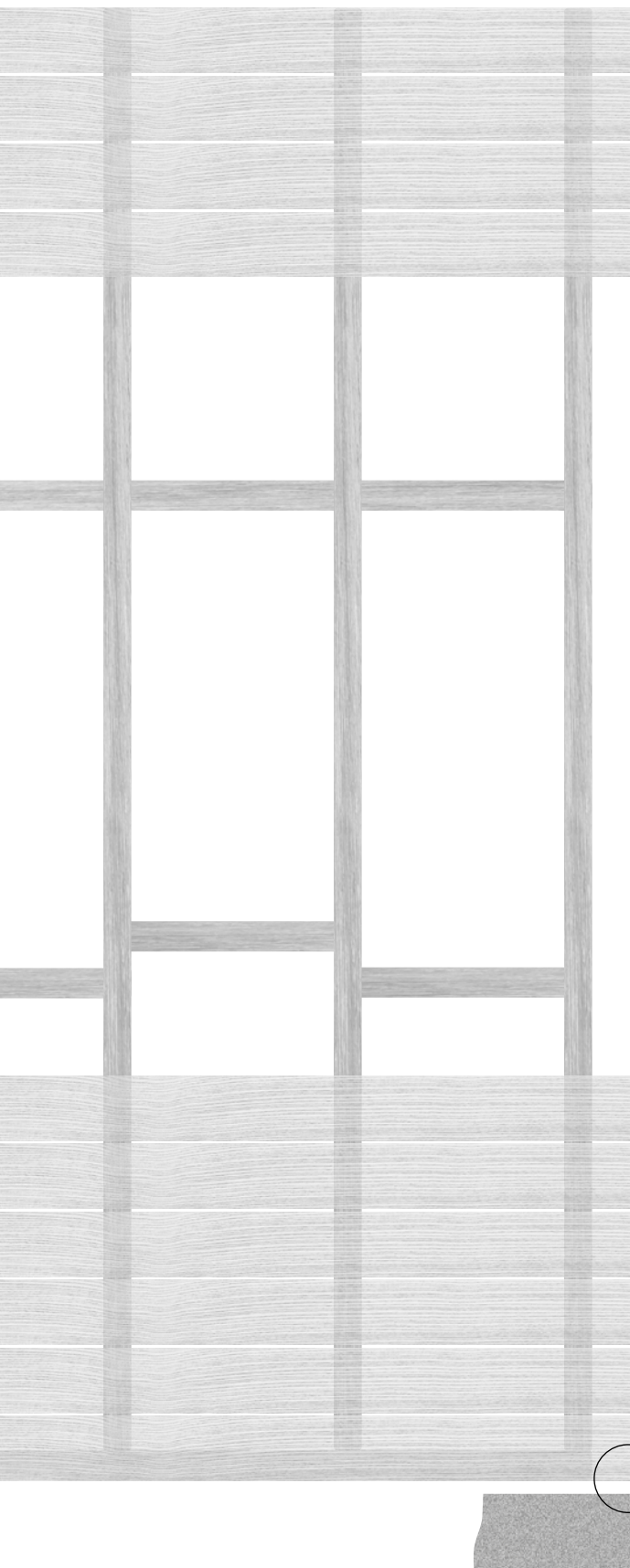


In proximity to structures like facades and sliding or folding doors, it is recommended to incorporate a ventilation drainage grate. This measure ensures proper ventilation, effective water drainage, and reduces the risk of dirt contamination from water spray.

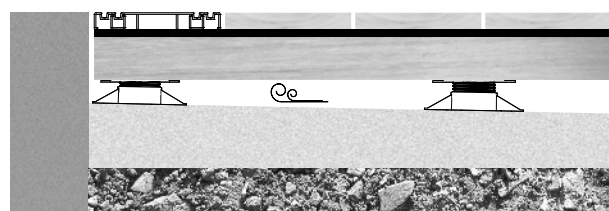


By using the RELO V ventilation grate, it is possible to decrease the distance from the adjacent structure from 20 mm to 6 mm.

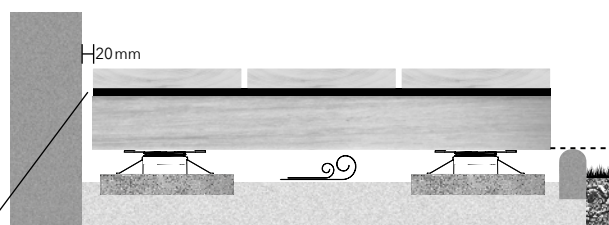




Maintaining a structure height of 100 mm ensures optimal ventilation for the entire construction. Terraces with poor ventilation may experience problems such as boards cupping and potential partial failure of the fastening hardware.

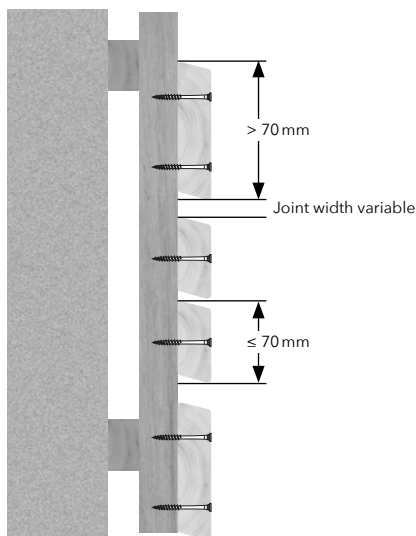


When extending the decking or perimeter edging with materials like stone, concrete, or ceramic tiles (at the same height level as the decking), it is crucial to employ ventilation profiles to ensure proper ventilation. In cases where using ventilation profiles is not feasible, a minimum gap of at least 20 mm is required.

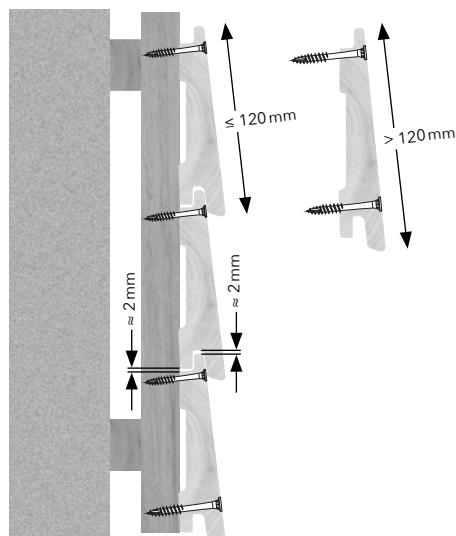


To facilitate ample ventilation for the entire construction, it is essential to maintain a minimum distance of 20 mm from adjacent objects along the perimeters. Additionally, it is advisable to position the decking substructure ideally above any adjacent landscape edging.

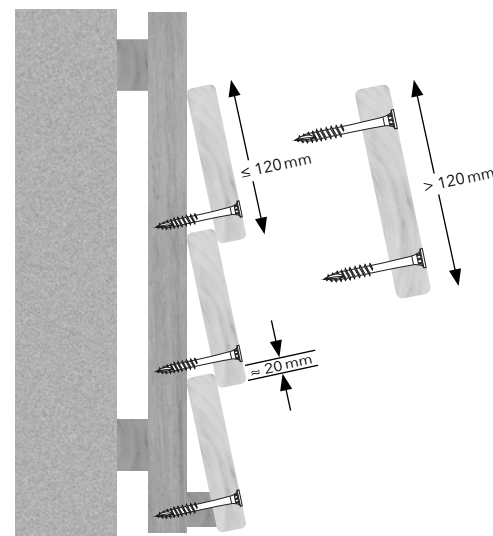
TIPS & TRICKS FACADE CONSTRUCTION



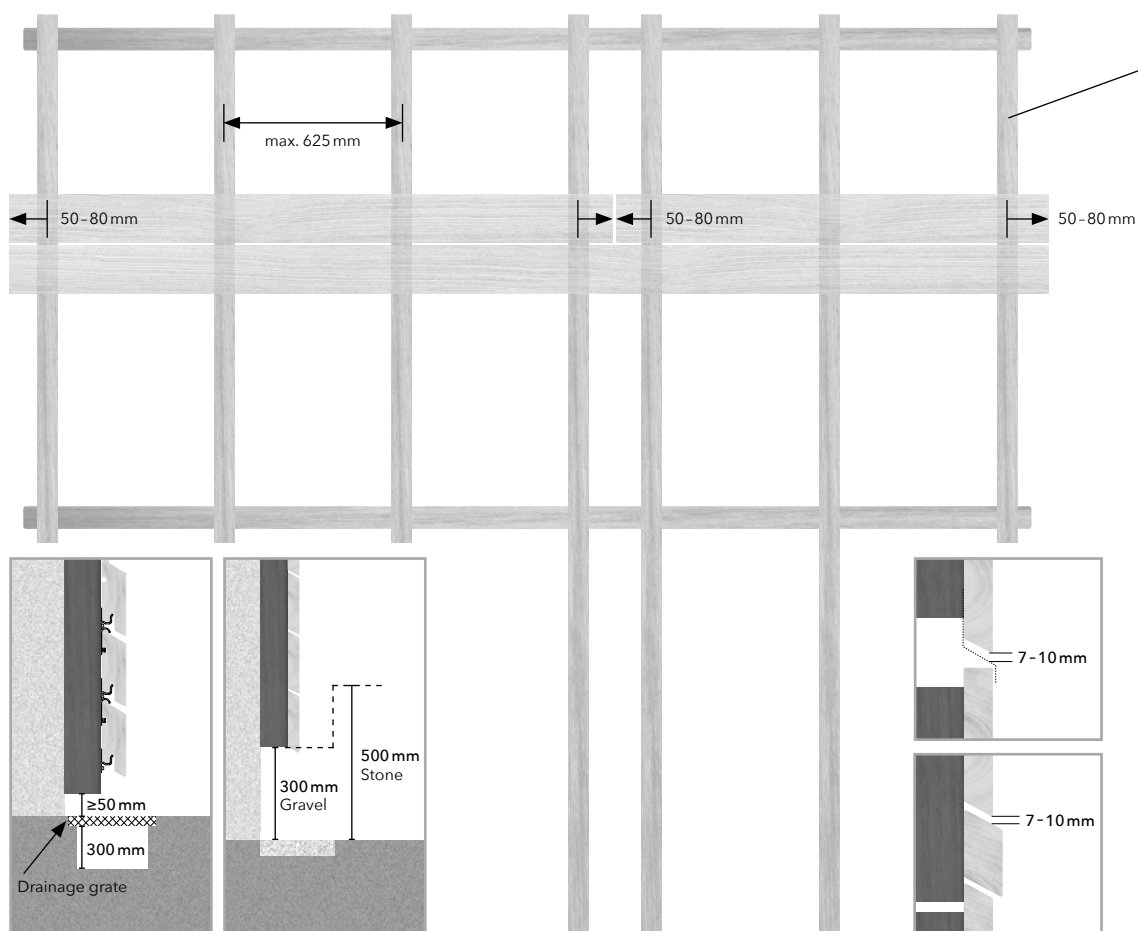
Rhombus profiles offer the flexibility of design with varying joint widths, allowing for options ranging from opaque to a more open and visually dynamic arrangement.



Closed tongue and groove siding profiles require a 2 mm gap between the groove and the tongue to accommodate potential swelling.



Overlap cladding with an approximate 20 mm overlap requires a screw-in depth in the substructure of at least 26 mm.



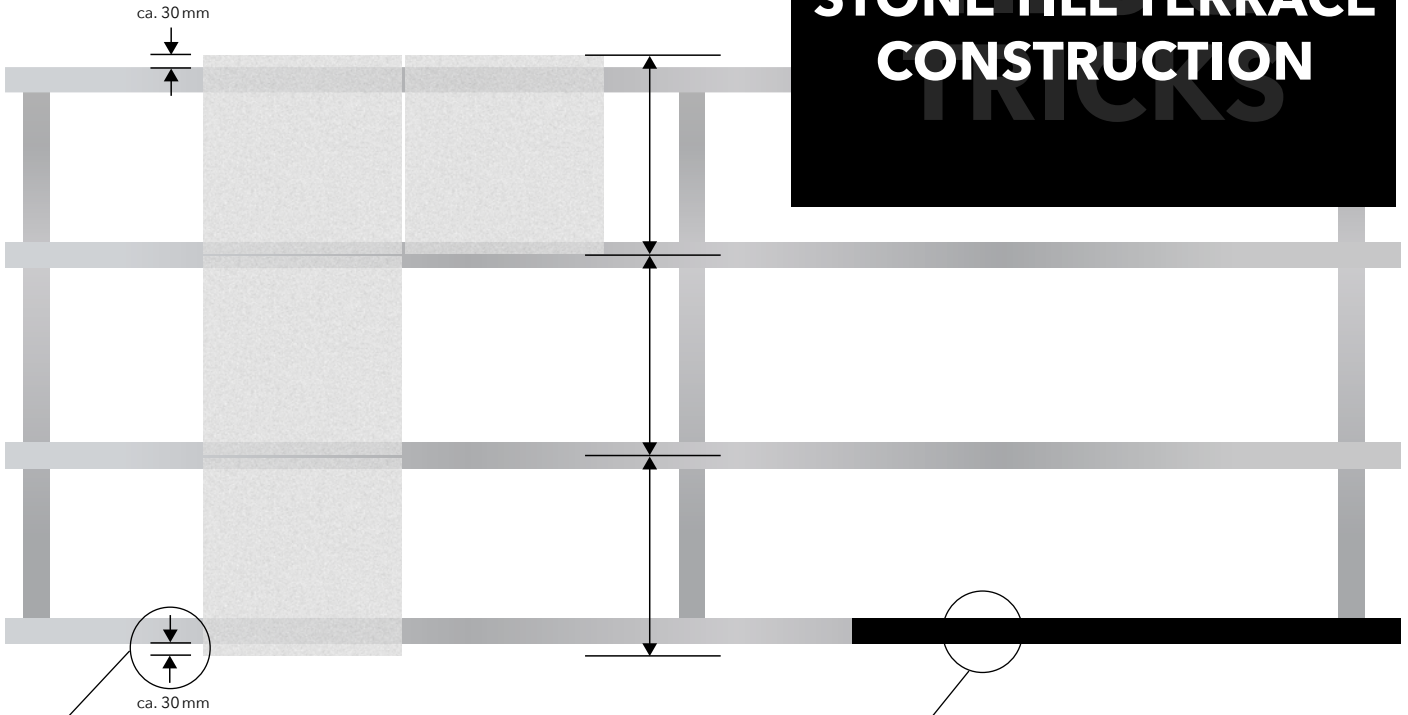
Water spray protection at the base

Vertical Joints

Corner Joints

TIPS & TRICKS

STONE TILE TERRACE CONSTRUCTION



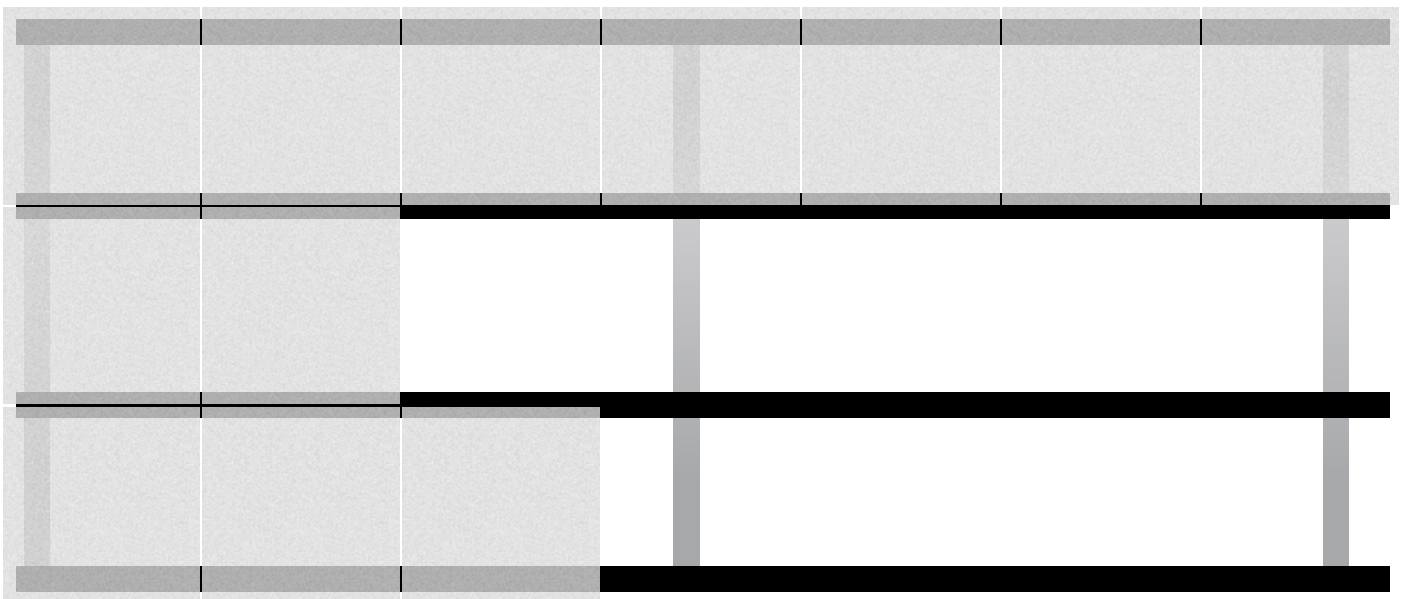
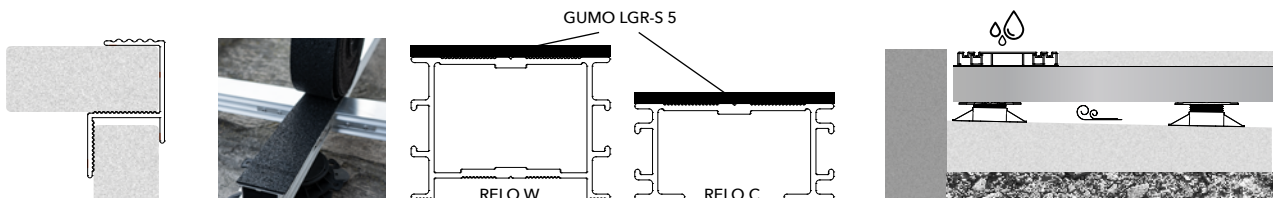
The outer rows of tiles should extend approximately 30 mm to allow for the attachment of RELO RA edge finishing trim profiles.

The GUMO LGR-S 5 mm underlay is installed by rolling along the substructure frame.

The underlay is anti-slip and provides a shock absorption effect between the aluminium substructure and stone tiles.

For adjacent structures, it is essential to use the RELO V drainage and ventilation grate.

The drainage and ventilation grate facilitates unimpeded water drainage while also minimizing staining caused by splashing water on adjacent structures.



The joints between the terrace stone tiles are arranged as needed, utilizing readily available tile joint spacers. The joint cross spacers can be divided or quartered, depending on the connection point.

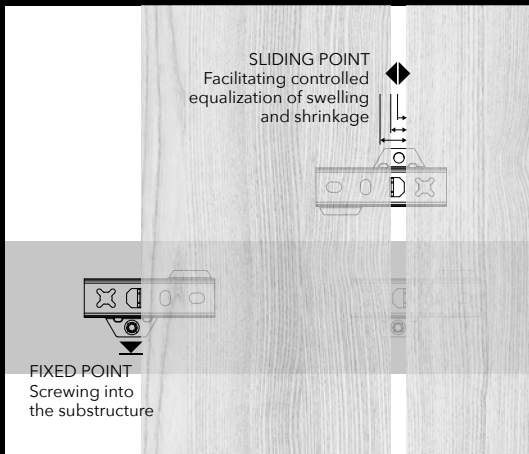


FASTENING SYSTEMS

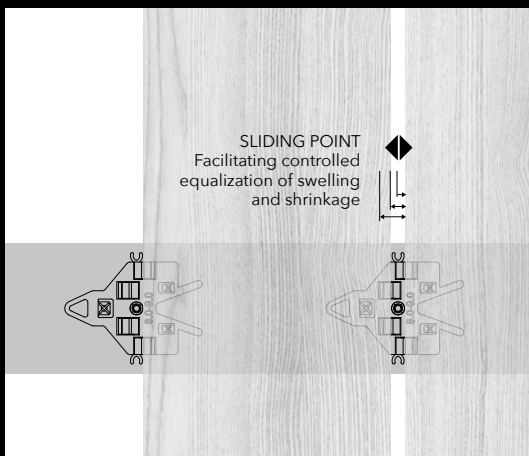
FUNCTIONAL DETAILS

Fixed point ▼

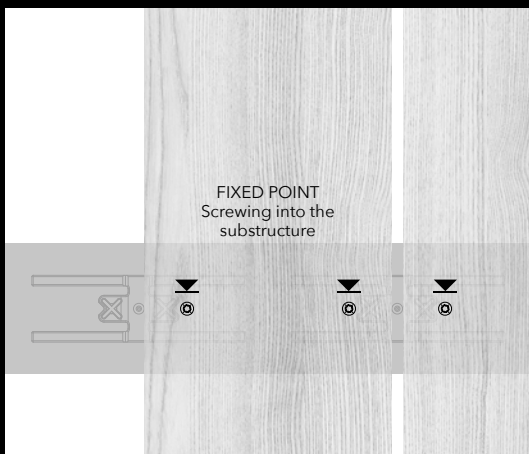
Sliding point ◆



EXAMPLE DILA



EXAMPLE KONEKTO



EXAMPLE ELITA

Sliding point - Fixed point fixation

Fastening systems DILA, SUPRO, TENI and TIGA

The sliding point functions to equalize and compensate for dimensional changes in each decking or facade board. Meanwhile, the fixed point secures the decking or facade boards in position, ensuring a uniform joint layout.

The combined use of sliding and fixed points enables controlled and virtually stress-free compensation for swelling and shrinkage movements.

Sliding point fixation

Fastening system KONEKTO, LIGO, PLATA, ZONA and DEKORA

Two sliding points work in tandem to compensate for dimensional changes in the decking or facade boards. Typically, joint spacers or deformation zones are employed to regulate the joint width. The extent of compensation for swelling and shrinkage processes can vary depending on the chosen fastening system.

Fix Point fixation

Fastening system ELITA, PROFILA, SOLIDA und FASADO

The fixed point secures the decking or facade boards in position and mitigates dimensional changes. To counteract deformation forces and minimize shear force on the fastening system, it is crucial to install spacers with a minimum height of 6mm between the substructure and the decking board, particularly in decking construction. Screws made of hardened stainless steel acquire magnetic properties through a specialized hardening process aimed at enhancing breaking torque. In contrast, screws made of austenitic stainless steel (A2 and A4) exhibit a lower breaking torque compared to hardened screws but offer increased resistance to bending when installed.

VISIBLE FASTENING		WOODEN substructure			ALUMINIUM substructure	
		ELITA1	ELITA2	SOLIDA4	PROFILA2	SOLIDA4
		in combination with BASO or GUMO D			in combination with RELO W	
Larch Douglas fir	Rift/ Quarter sawn VEH ≤ 100 mm	■	■	■	■	■
	A/B VEH ≤ 120 mm	■	■	■	■	■
	A/B VEH ≤ 145 mm	■/-	■	■	■/-	■/-
IPE Cumaru	KD ≤ 100 mm	■	■	■	■	■
	KD ≤ 120 mm	■	■	■	■	■
	KD ≤ 145 mm	■/-	■	■	■/-	■/-
Modified Wood	Depending on manufacturer ≤ 100 mm	■	■	■	■	■
	Depending on manufacturer ≤ 120 mm	■	■	■	■	■
	Depending on manufacturer ≤ 145 mm	■	■	■	■	■

CONCEALED FASTENING		WOODEN substructure					ALUMINIUM substructure				
		DILA SUPRO	ZONA	KONEKTO	PLATA LIGO	TENI	DILA SUPRO	ZONA	KONEKTO	PLATA LIGO	TENI
							with RELO C/W		with RELO C/W/N	with RELO N	with RELO T
Larch Douglas fir	Rift/ Quarter sawn VEH ≤ 100 mmww	■	-	■/-	-	-	■	-	■/-	■/-	-
	A/B VEH ≤ 120 mm	■	-	-	-	-	■	-	-	-	-
	A/B VEH ≤ 145 mm	■	-	-	-	-	■/-	-	-	-	-
IPE Cumaru	KD ≤ 100 mm	■	-	■/-	-	-	■	-	■/-	■/-	-
	KD ≤ 120 mm	■	-	■/-	-	-	■	-	■/-	-	-
	KD ≤ 145 mm	■	-	■/-	-	-	■/-	-	■/-	-	-
Modified Wood	Depending on manufacturer ≤ 100 mm	■	-	■	■	■	■	-	■	■	■
	Depending on manufacturer ≤ 120 mm	■	-	■	■	■	■	-	■	■	■
	Depending on manufacturer ≤ 145 mm	■	-	■	■/-	■	■	-	■	■	■
WPC	Depending on manufacturer	■/-	■	■	■	■	■/-	■	■	■	■

VEH standards | KD kiln dried Key: ■ suitable | ■/- partially suitable | - not suitable

The listed wood species are indicative of woods with comparable properties.

The information provided is based on experience and may vary due to numerous influencing factors, including installation situations, wood moisture content, area of growth, or grading of the decking woods. It is crucial to adhere to the manufacturer's instructions, especially for modified wood species, WPC, and BBC.

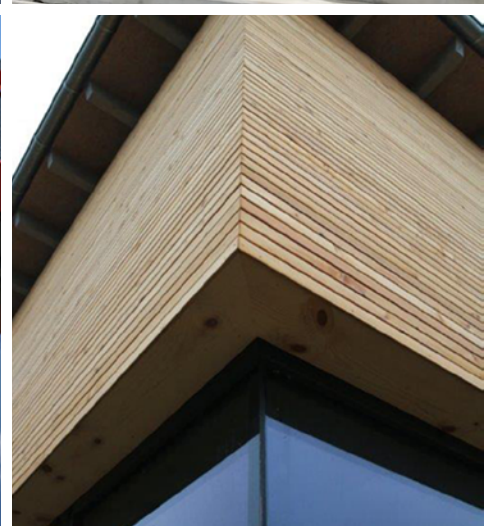
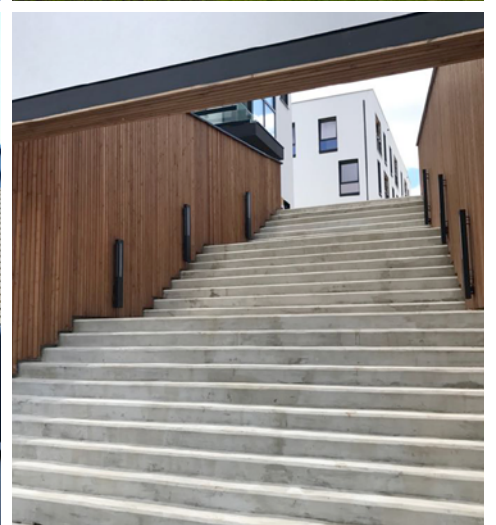
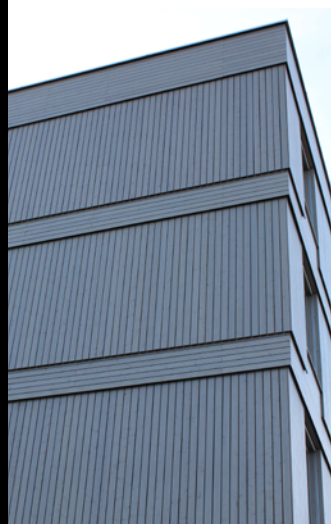
In the case of side grooved decking boards like KONEKTO, TENI, LIGO, PLATA, and ZONA, it is necessary to check the compatibility of the decking boards, including groove engagement surfaces. In our experience, using hardened C1 stainless steels under normal climatic conditions has not resulted in problems with corrosion or wood discoloration.

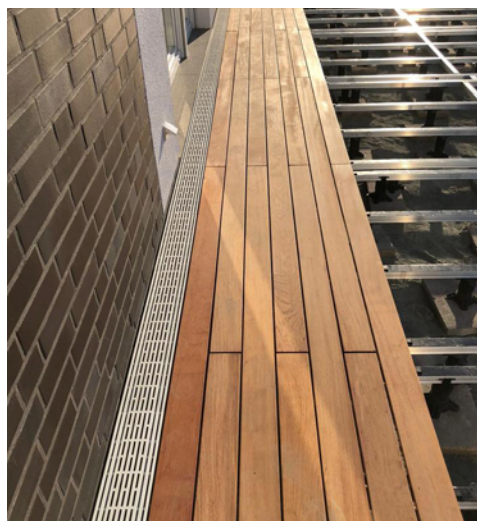
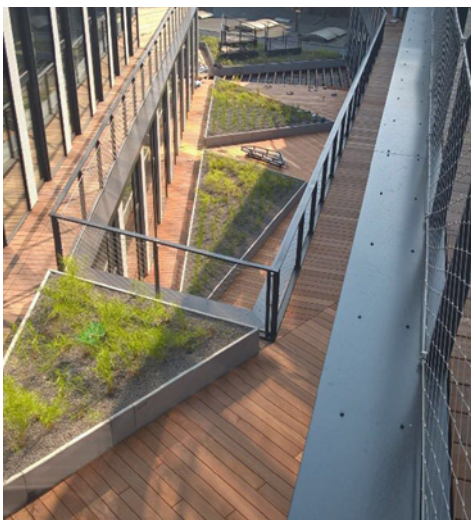
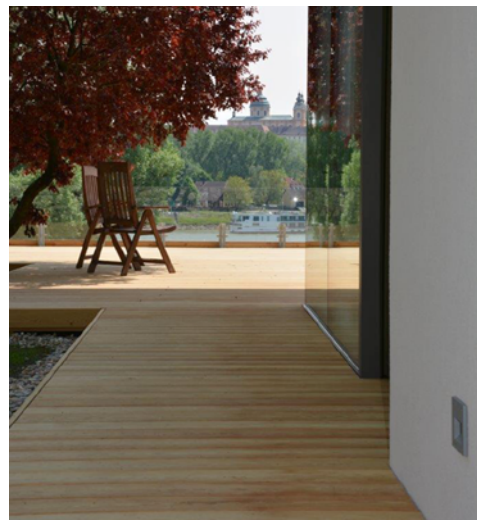
Wooden substructures, preferably made of softwoods such as larch, douglas fir, thermo spruce, thermo pine, etc., are recommended. Hardwood substructures, typically imported woods, may exhibit varying and high densities (kg/m³) - it's important to check in advance whether the fasteners are compatible. The hardness of the substructure directly influences shear forces, with potential increases of up to 50% acting on the fastener.



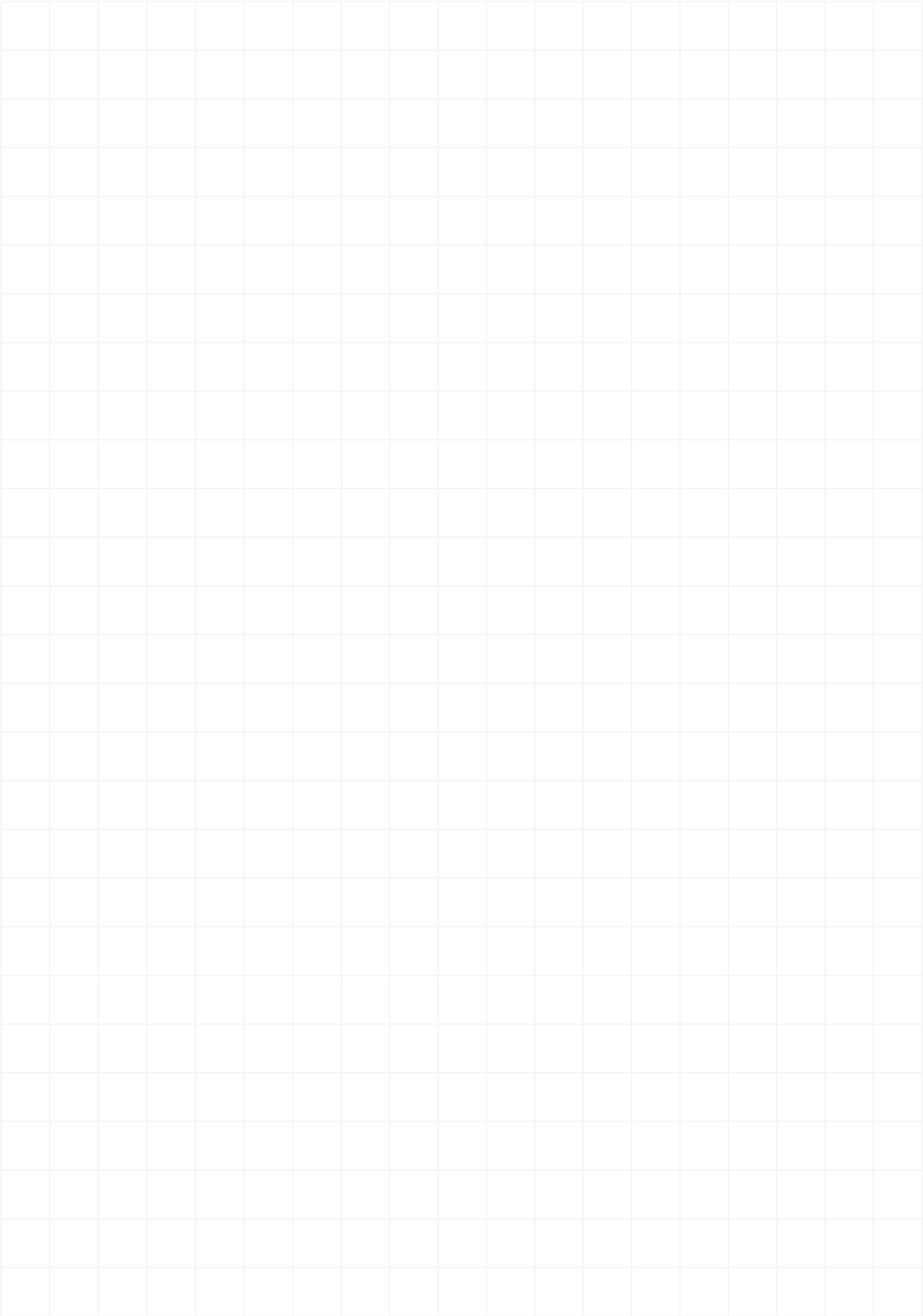
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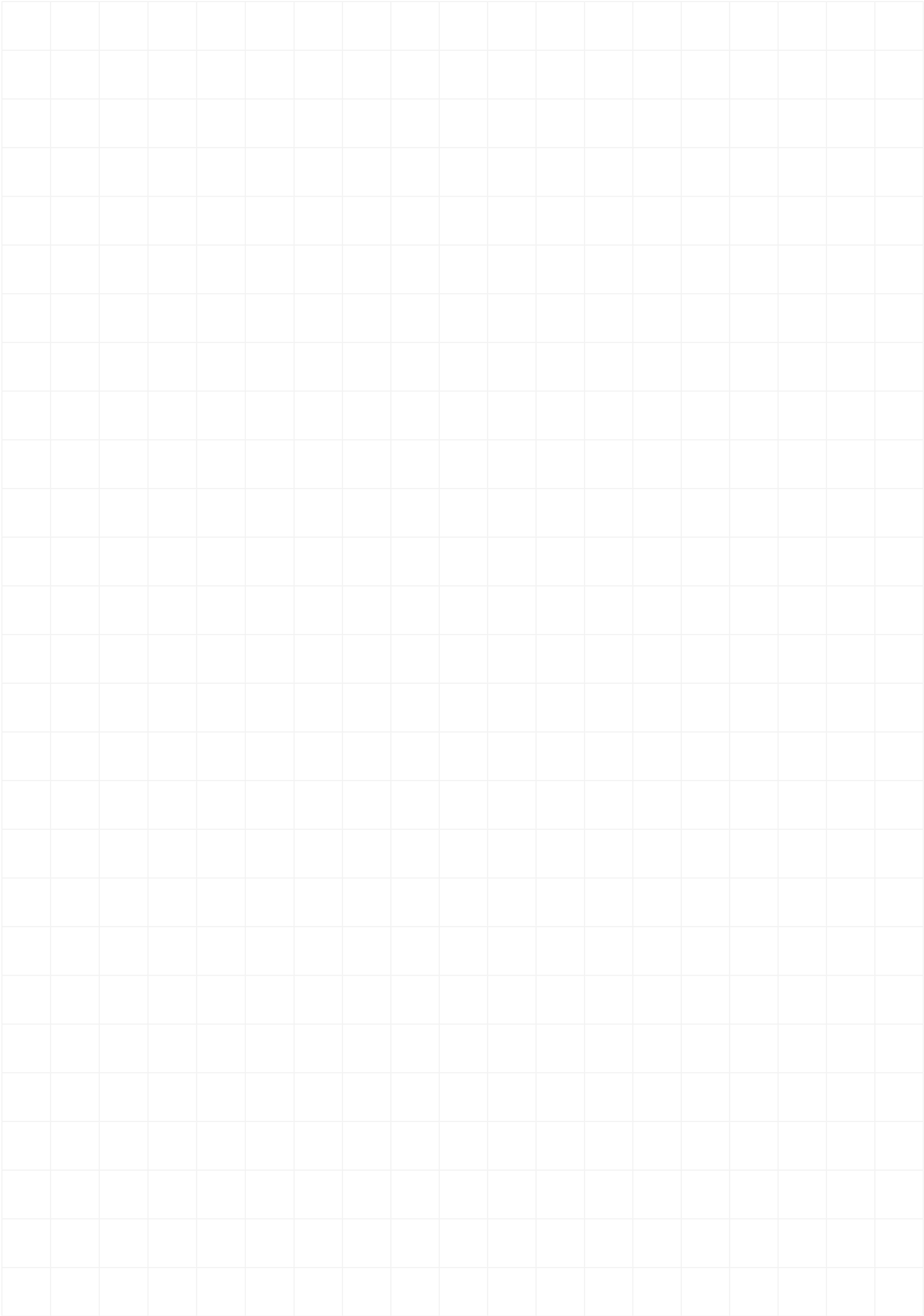
FACADE - DECKING

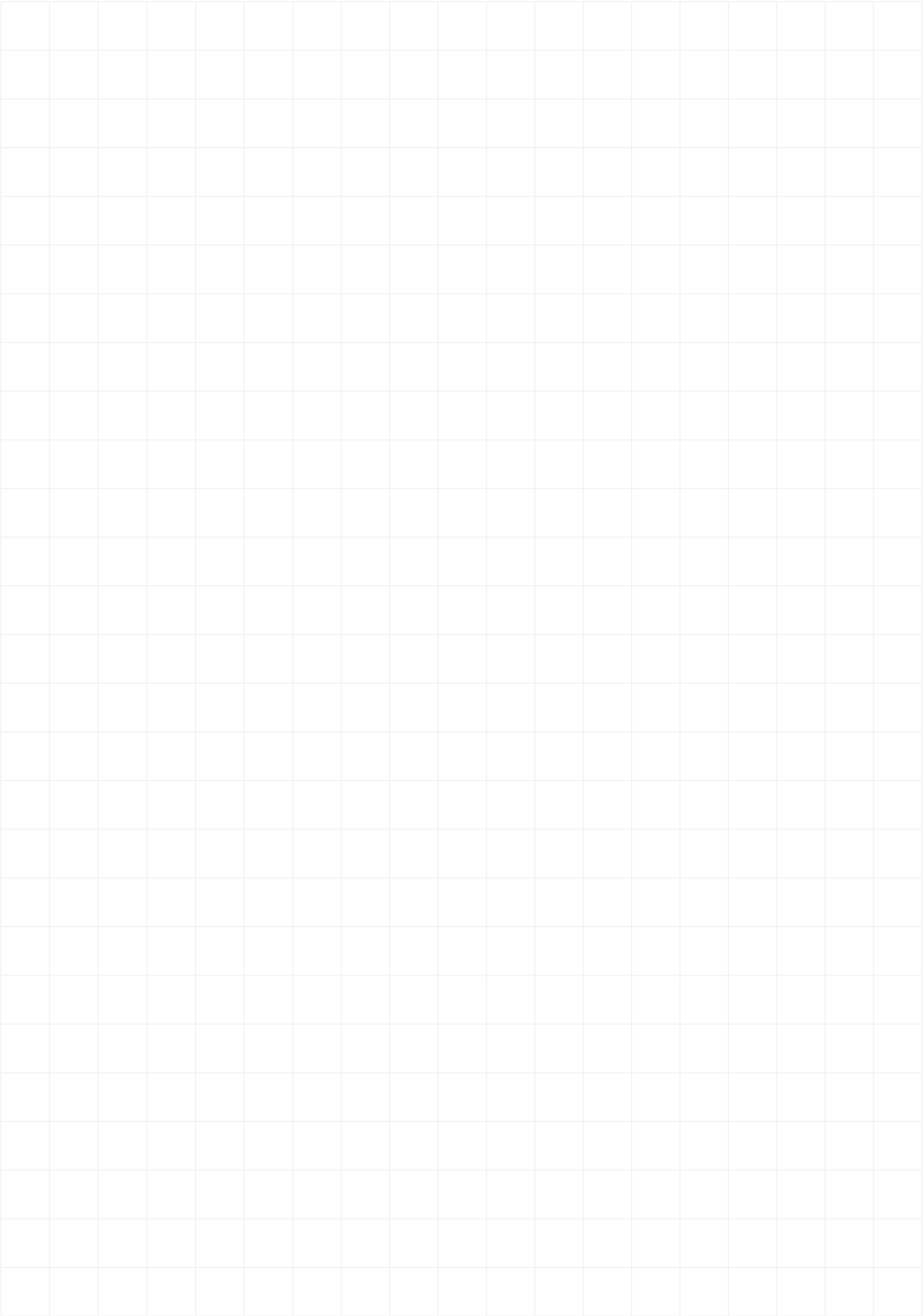


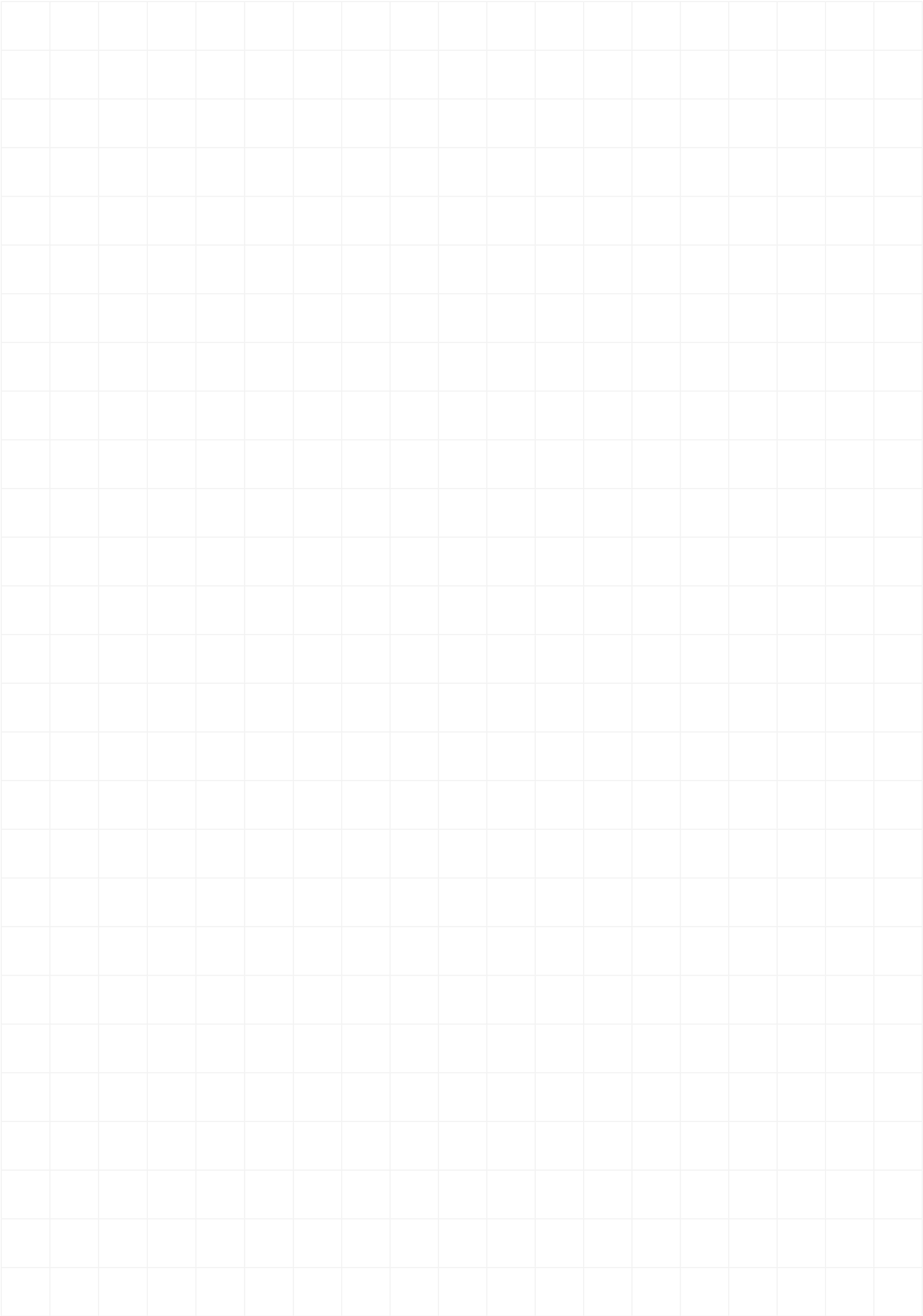


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