



25 YEARS
GUARANTEE

EXPERT
by *Bruggan*

INNOVATIVE SYSTEMS
**FOR TERRACE
INSTALLATION**



ALUMINIUM SUBSTRUCTURE ⁽²⁾

ALUMINIUM JOISTS ⁽⁶⁾

STAINLESS STEEL ACCESSORIES ⁽⁸⁾

Longitudinal Connector ⁽¹⁰⁾
Cross Connector ⁽¹¹⁾
External Corner Bracket ⁽¹²⁾
Internal Corner Bracket ⁽¹³⁾

ACOUSTIC INSULATION TAPE ⁽¹⁴⁾

STANDARD SUPPORT ⁽¹⁶⁾

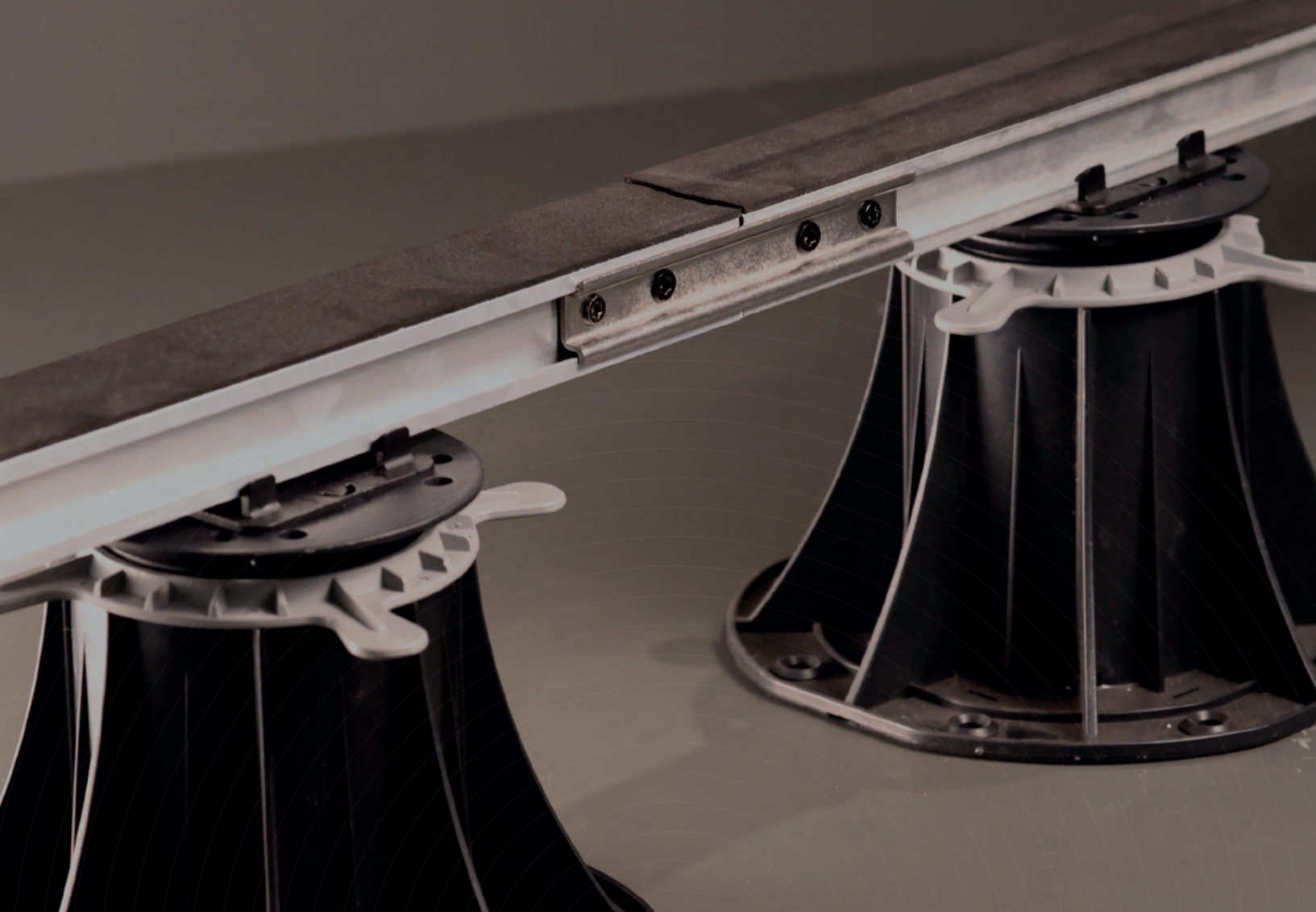
Click System, Adapter for Aluminium Joist ⁽²⁰⁾
Cross Spacer Adapter for Tiles ⁽²²⁾
Joist Adapter ⁽²³⁾

RAPTOR SUPPORT ⁽²⁴⁾

EXPERT SYSTEMS ⁽²⁸⁾

DeckFix Multicolor Clip ⁽³⁰⁾
ProClip Expert Clip ⁽³¹⁾
Start-Finish Clip ⁽³²⁾
Standard Stainless Steel Clip ⁽³³⁾
Locking Clip ⁽³⁴⁾

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by **Bruggan**



COMPONENTS THAT ENSURE THE RELIABILITY OF THE SUBSTRUCTURE.

Bruggan Expert is a carefully engineered structural foundation for terraces, developed in collaboration with engineers and installation teams with more than 20 years of hands-on experience.

We do not rely on theory alone — real-world projects show us which components require reinforcement, where the approach needs to be improved, and how to make the structure more durable.

Bruggan Expert components form a stable, ventilated and robust load-bearing structure, ensuring correct geometry and stability of the decking under all conditions.

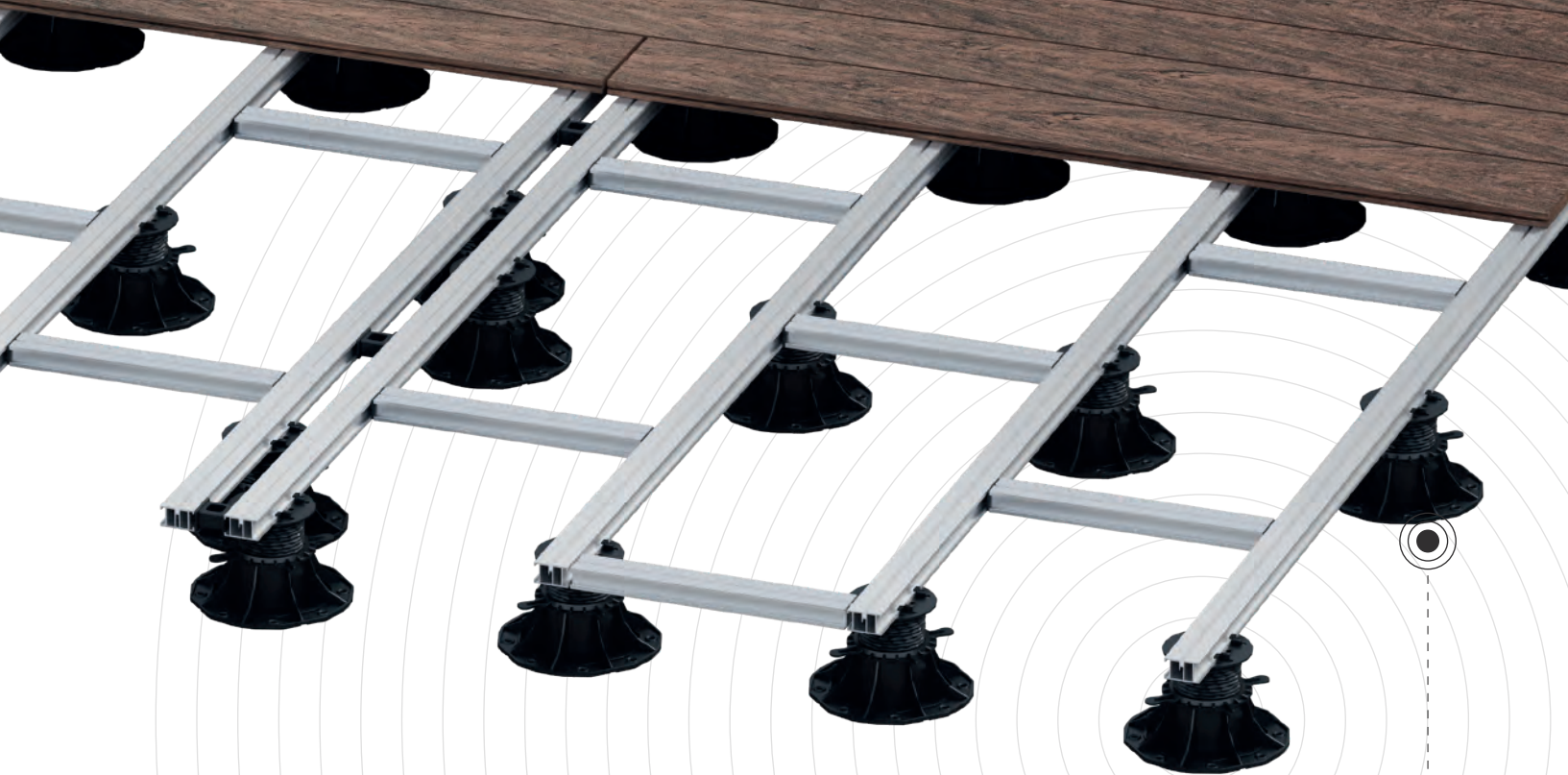
EXPERT
by **Bruggan**



Bruggan Expert is an integrated engineered substructure system that determines the quality and durability of the entire terrace.



ENGINEERED FOR
INSTALLATION OF TERRACES AND FACADES
ON THE ALUMINIUM JOISTS



ALUMINIUM SUBSTRUCTURE BRUGGAN EXPERT



Versatile application



Integration with the
Bruggan Expert system



Ideal for accessible roofs and
terraces



High reliability and durability



Reduces costs by 35%



Doubles installation speed



Lightweight and low-profile
construction



Easy assembly and installation

ADVANTAGES

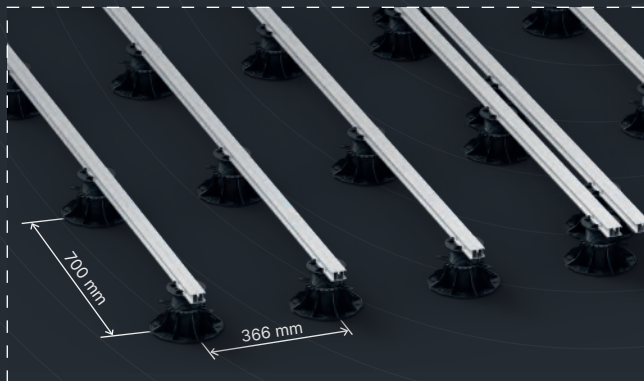
SUBSTRUCTURE ASSEMBLY SYSTEM EXPERT MODULE



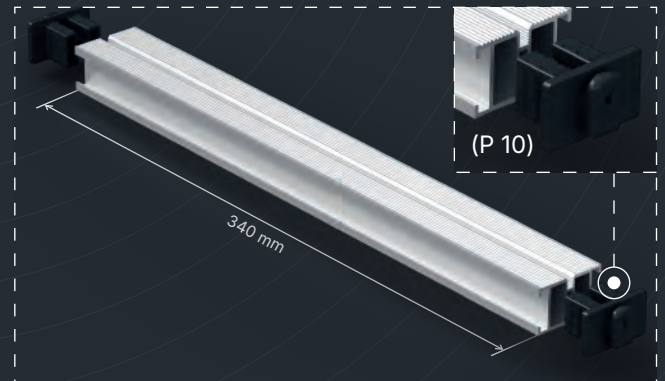
P 10 —
connectors for installation
on both sides of the profile.

P 20 —
connectors for longitudinal
joints.

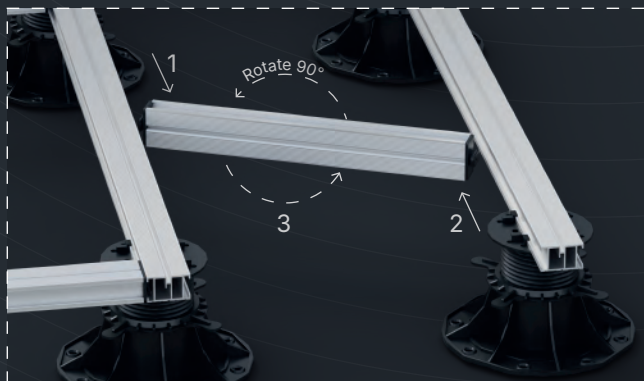
P 30 —
connectors for end-to-end
joist connections.



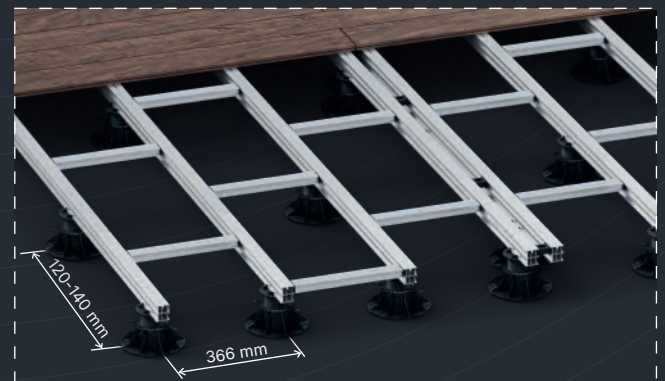
(1) Position the adjustable pedestals on the prepared substrate and secure the aluminium joists in the dedicated clips on top of the pedestals. When using 25 × 40 mm joists, the maximum centre-to-centre spacing between pedestals is 70 cm; when using 50 × 40 mm joists, the maximum spacing is 140 cm.



(2) Prepare a 340 mm section of joist and install P10 connectors at both ends.



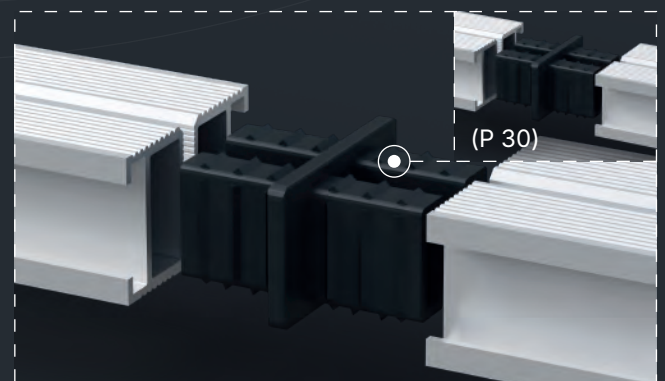
(3) Connect the section to the guide joists using P10 connectors. Insert the connectors into the grooves of the guide joists and rotate the section by 90° degrees to securely lock the frame structure in place.



(4) Secure the decking boards to the frame in accordance with the installation instructions.



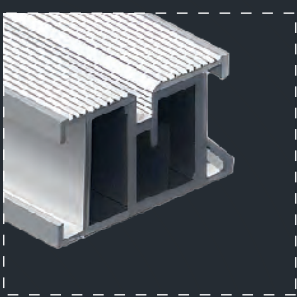
(5) At longitudinal joist joints, the P20 connector must be used.



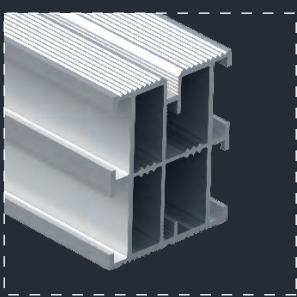
(6) For end-to-end joist connections, the P30 connector is recommended. A pedestal must be installed at these connection points.

**STAINLESS STEEL
ACCESSORIES**

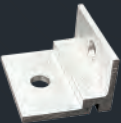
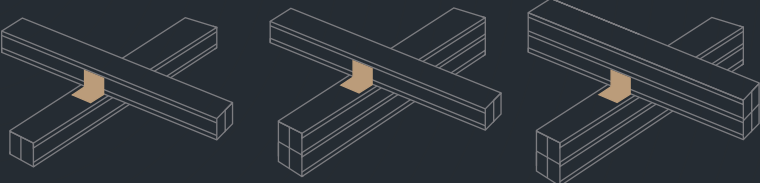
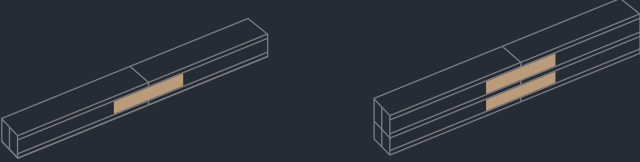
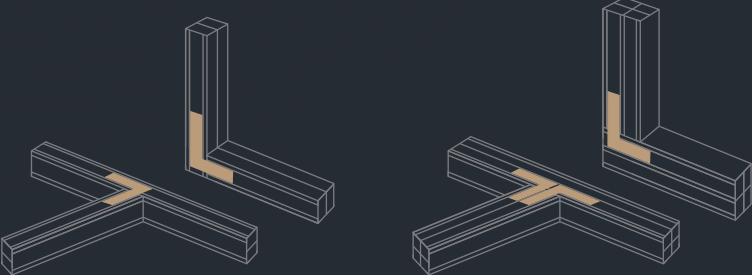
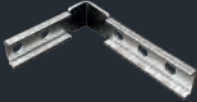
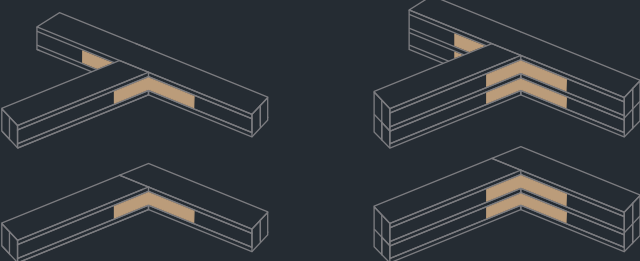
BRUGGAN EXPERT



Aluminium joist
40 x 25 x 3000 / 4000 mm



Aluminium joist
40 x 50 x 3000 / 4000 mm

Cross connector (cross connection) 	
Longitudinal connector (joining element) 	
External corner bracket (90° in-plane connection) 	
Internal corner bracket (internal 90° connection) 	



ENGINEERED FOR
INSTALLATION OF TERRACES AND FACADES
ON THE ALUMINIUM JOISTS

25 YEARS
GUARANTEE

ADVANTAGES



Versatile application



Integration with the Bruggan Expert system



Provides secure fixing



Ideal for securing decking boards with the Smart-Click system



Low weight and high load-bearing capacity



Load-bearing component of the Bruggan Expert aluminium substructure

ALUMINIUM JOIST BRUGGAN EXPERT

JOISTS

BRUGGAN EXPERT

MANUFACTURER
Bruggan factory

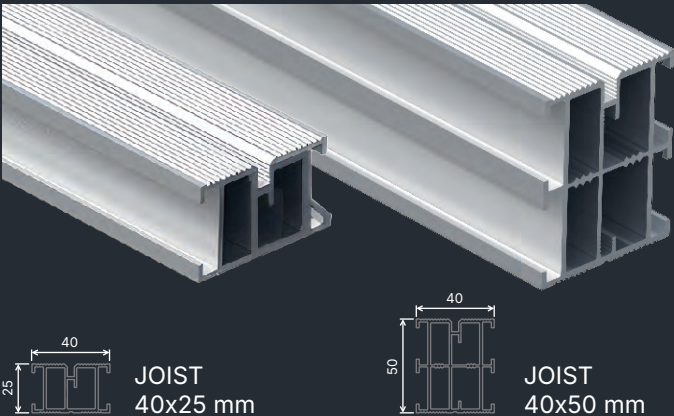
JOIST MATERIAL
Aluminium alloy
EN AW 6063 (T5)



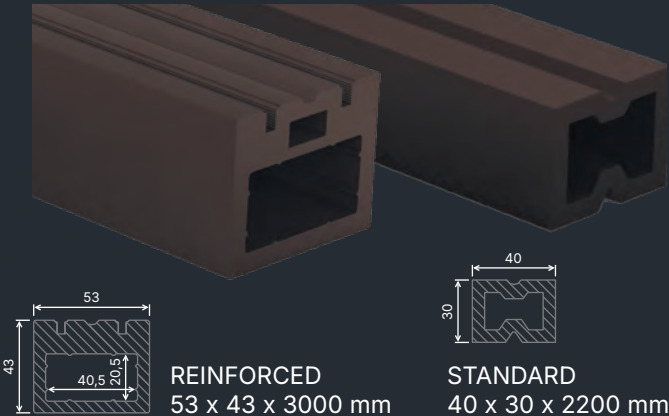
WPC profile
(composite)



ALUMINIUM JOISTS



COMPOSITE JOISTS



	ALUMINIUM JOISTS				COMPOSITE JOISTS	
	Size	Weight	Size	Weight	Size	Weight
Commercial Project	40 × 25 × 3000 mm	2 kg	40 × 25 × 4000 mm	2.6 kg	53 × 43 × 3000 mm	4.6 kg
	40 × 50 × 3000 mm	3.6 kg	40 × 25 × 4000 mm	4.8 kg	40 × 30 × 2200 mm	2.2 kg
	DISTANCE BETWEEN SUPPORTS					
	0,50 m	1,00 m	0,35 m	The standard composite joist must not be used as a load-bearing structure.		
Private Project	0,70 m	1,20 m	0,50 m			

STAINLESS STEEL ACCESSORIES BRUGGAN EXPERT

Three-dimensional installation components
for precise assembly of 90° corners.

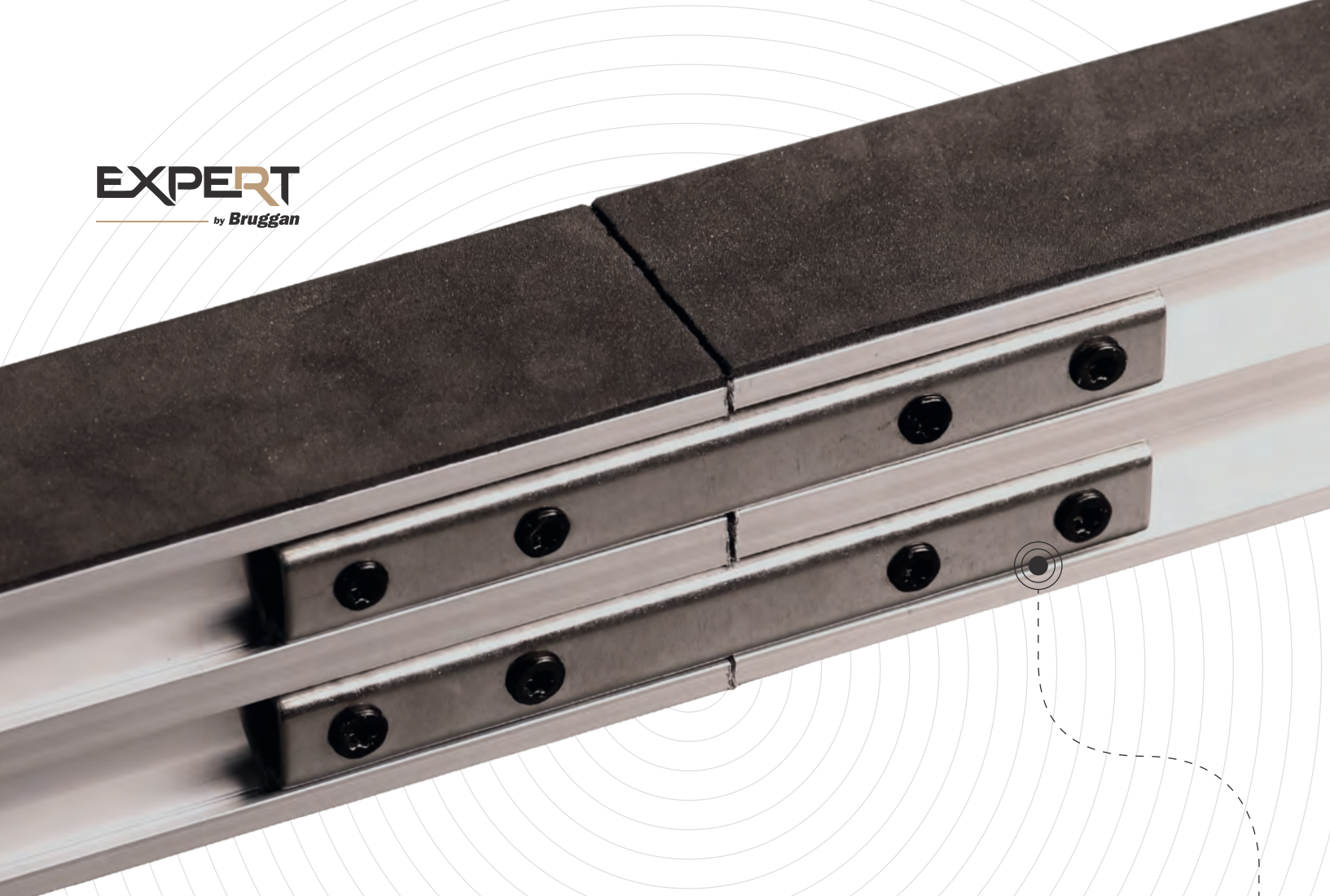
Bruggan Expert three-dimensional stainless steel corner brackets are designed to form internal and external 90° corners when installing the load-bearing substructure.

The engineered geometry of the brackets precisely matches the profile of the aluminium joists, ensuring secure installation without cutting or additional mechanical processing of the profile.



25 YEARS
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by *Bruggan*



LONGITUDINAL CONNECTOR

A high-strength 1.8 mm stainless steel connector designed for precise and secure longitudinal joining of structural joists. It ensures accurate alignment of the substructure and prevents displacement at the joint.

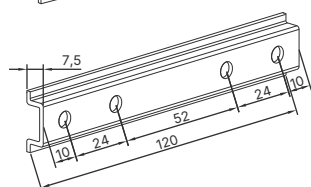
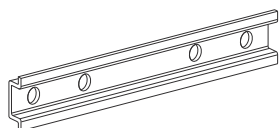
Used to extend the joist system and create continuous load-bearing lines.

LONGITUDINAL CONNECTOR

(JOINING ELEMENT)



ADVANTAGES



Integration with the Bruggan Expert system



Concealed installation with no visible fasteners



Rigid and durable connection



Prevents joist displacement



High-precision stabilisation of joined components



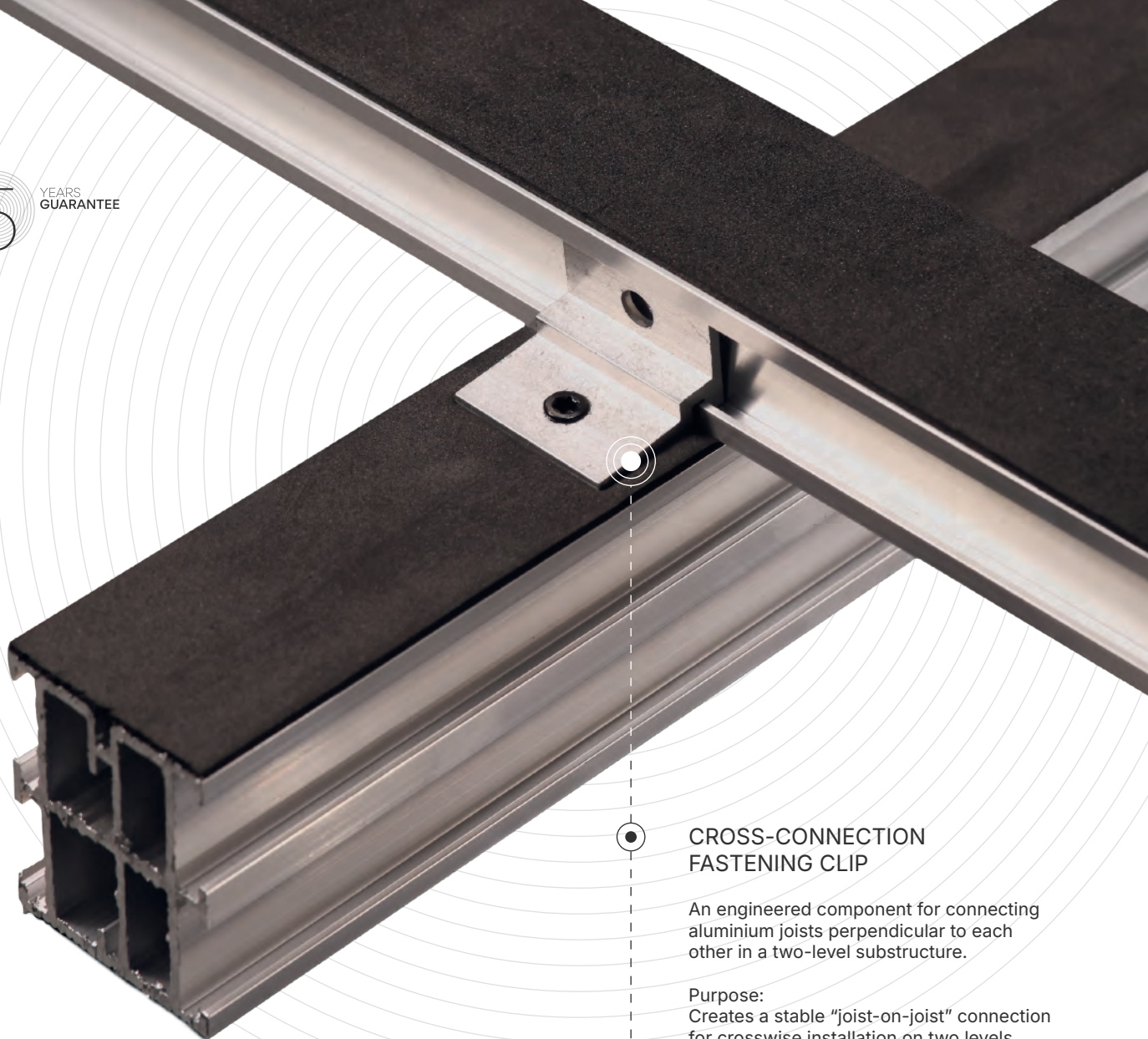
Resistant to moisture, salt exposure and temperature fluctuations



Designed specifically for Bruggan Expert aluminium joists



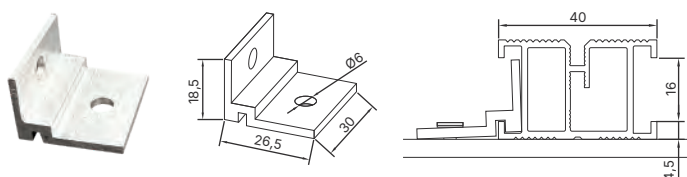
1.8 mm stainless steel for enhanced corrosion resistance



CROSS-CONNECTION FASTENING CLIP

An engineered component for connecting aluminium joists perpendicular to each other in a two-level substructure.

Purpose:
Creates a stable "joist-on-joist" connection for crosswise installation on two levels.



ADVANTAGES

- EXP
ERT** Full integration with all Bruggan Expert system components
-  Resistant to moisture, salt exposure and temperature fluctuations
-  No through-fastening required
-  Quick installation — secured with a single screw
-  Maintains the correct level and prevents displacement
-  Allows longitudinal adjustment of the upper joist before final fixing
-  AISI 304 stainless steel
-  Designed specifically for Bruggan Expert aluminium joists

FASTENING CLIP FOR JOIST INSTALLATION (CROSS CONNECTION)

EXTERNAL CORNER BRACKET

Designed to form an external corner within a single plane, providing a rigid and precise joist connection.

Engineered corner components designed to provide highly precise and durable 90° connections without requiring any modification of the profile.

ADVANTAGES

EXP Integration with the Bruggan Expert system

 Ideal for Bruggan Expert aluminium joists

 Corner bracket coating resistant to moisture, salt and temperature exposure

 Rigid and precise connection under load

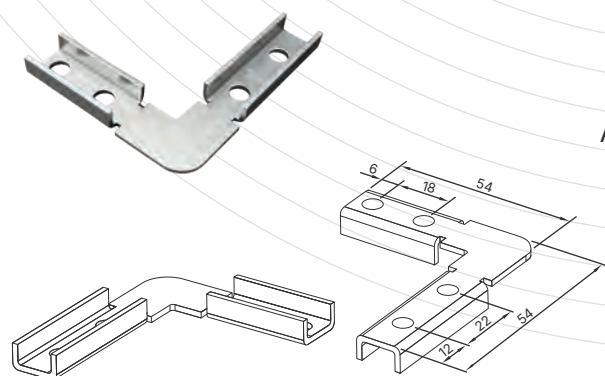
 Factory-calibrated 90° angle for all joints

 Concealed installation with no visible fasteners

 Reduced on-site installation time

 No cutting required thanks to the bracket geometry adapted to the joist profile

 AISI 304 stainless steel — enhanced rigidity and corrosion resistance



EXTERNAL CORNER BRACKET

(90° IN-PLANE CONNECTION)

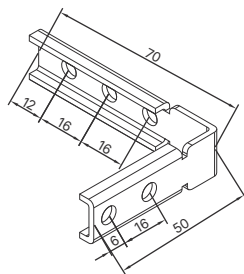
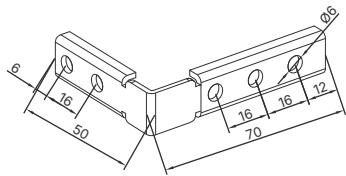
INTERNAL CORNER BRACKET (INTERNAL 90° CONNECTION)

 INTERNAL CORNER BRACKET

Installed inside the joint to create a concealed and structurally rigid internal connection.

Engineered corner brackets designed to provide precise and durable 90° connections without requiring profile modification.

ADVANTAGES



**EXP
ERT** Full compatibility with the Bruggan
Expert system



Rigid and precise connection under load



Factory-calibrated 90° angle for all joints



Concealed installation with no visible fasteners



Resistant to moisture, salt and temperature exposure



Reduced on-site installation time



1.8 mm stainless steel for enhanced corrosion resistance



Designed for Bruggan Expert
aluminium joists

THE OPTIMAL SOLUTION FOR PROFESSIONAL AND DURABLE STRUCTURES.

Acoustic insulation tape provides reliable reduction of vibrations and structure-borne noise when installing terrace and facade systems.

EXPERT
by **Bruggan**

25 YEARS
GUARANTEE





ADVANTAGES



Versatile application



Integration with the Bruggan Expert system



Ideal for installing terrace and facade boards



Compatible with all types of joists



Concealed board installation with no visible fasteners



Provides secure decking fixation



Safe for waterproofing membranes



Easy replacement of individual boards



Suitable for installation on aluminium substructures

TAPE (SIZE 40 × 2 × 20000)

Acoustic insulation tape provides reliable reduction of vibrations and structure-borne noise when installing terrace and facade systems.

Made from a flexible, wear-resistant polymer, it eliminates squeaking, absorbs dynamic loads and extends the service life of the substructure.

The self-adhesive backing ensures quick and reliable installation, providing precise and stable contact between the joists, pedestals and substrate.

An ideal component for durable and high-performance construction solutions.

TAPE

ACOUSTIC INSULATION

DD PEDESTAL THE FOUNDATION OF THE BRUGGAN EXPERT SYSTEM.

DD Pedestal adjustable supports are an integral component of the Bruggan Expert system, providing precise levelling and stability for terrace structures. Durable materials allow them to withstand high loads and perform reliably in all climatic conditions.

The wide adjustment range helps compensate for uneven substrates, create different installation heights and speed up installation. The supports provide ventilation beneath the decking, space for utilities and allow individual decking elements to be replaced quickly.

Resistant to moisture, UV radiation and temperature fluctuations, DD Pedestals are suitable for terraces, balconies, roofs and all outdoor applications.

DD Pedestal is a versatile and durable solution that provides a reliable foundation for the Bruggan Expert system.





DECKING



TILE



GRF

ENGINEERED SOLUTION

FOR TERRACE INSTALLATION (DECKING, TILES, AND GRF)

STANDARD SUPPORT



Versatile application



Integration with the Bruggan Expert system



Suitable for decking and tile installation



Compatible with all types of joists



Universal height adjustment range from 30 to 220 mm



Height adjustment after installation



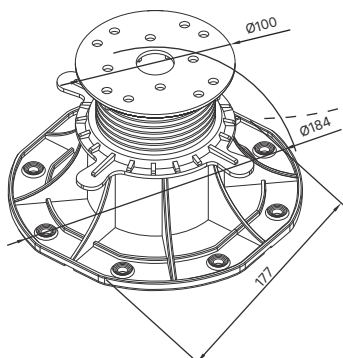
Quick and easy installation

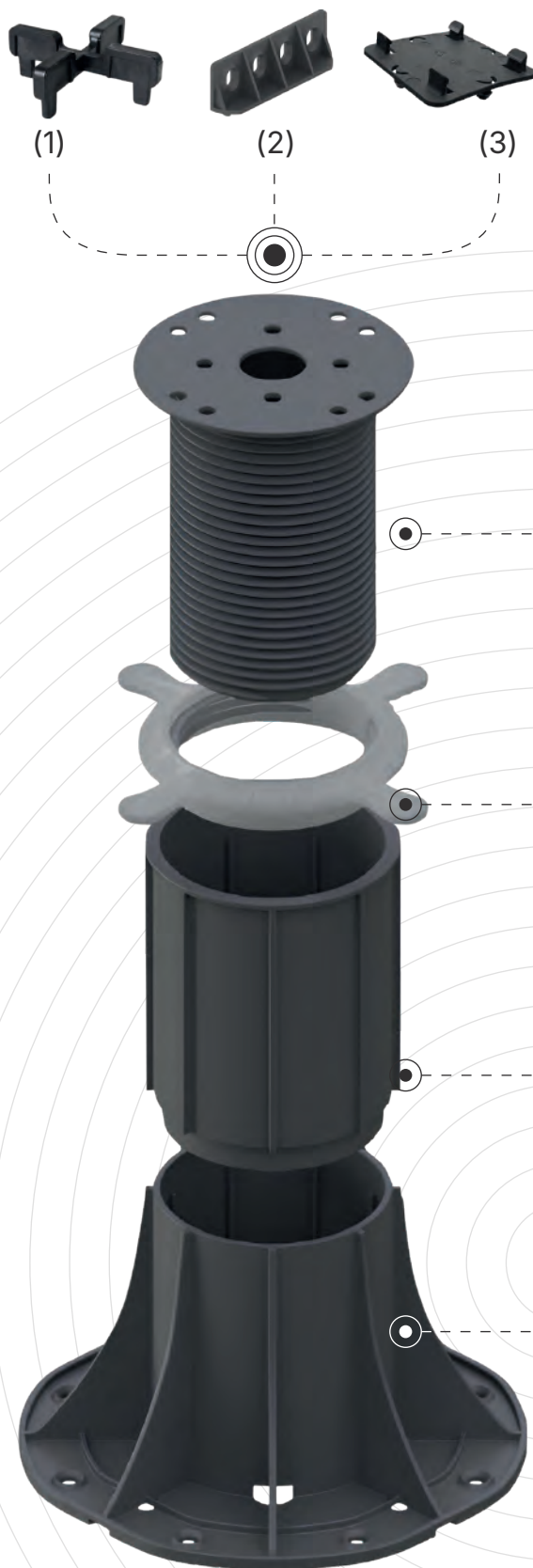


Resistant to moisture and temperature fluctuations



High load-bearing capacity — 1000 kg





COMPONENT SPECIFICATIONS

CROSS SPACER ADAPTER (1)

Used for installing tiles and porcelain stoneware.

JOIST ADAPTER (2)

Used for installing decking boards on joists.

SMART-CLICK FOR BRUGGAN EXPERT ALUMINIUM JOIST (3)

Allows the joist to be quickly snapped into place without screws.

THREADED STEM

The threaded component allows height adjustment and provides stable support for the terrace.

ADJUSTMENT NUT

The fine-adjustment nut allows the support height to be adjusted by rotating the nut.

EXTENSION NUT

An additional nut increases the height adjustment range of STANDARD supports by 100 mm.

BASE

A robust base with lateral reinforcing ribs increases the supports load-bearing capacity.

SPECIFICATION

STANDARD SUPPORT

MANUFACTURER
Poland

MATERIAL
Polypropylene

WARRANTY
1 year

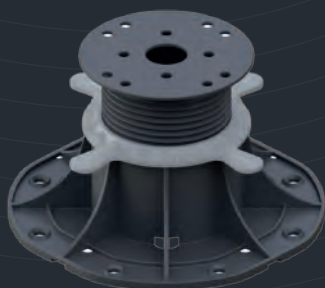
SIZE
from 120 to 220 mm

LOAD-BEARING
CAPACITY
up to 1000 kg
per pedestal

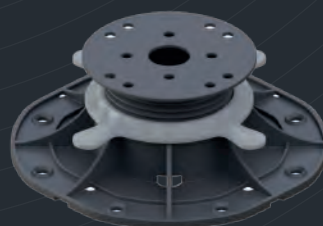
CONSUMPTION
9 pcs/m²



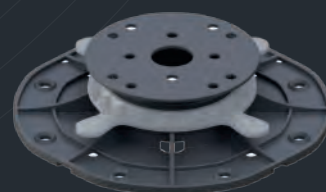
SIZE
120-220 mm



70-120 mm



45-70 mm



30-45 mm

BASIC CONFIGURATION



Standard Support
Size from 120 to 220 mm

+ optional



Smart-Click for Bruggan Expert
aluminium joist

Allows the joist to be quickly snapped
into place without the use of screws.
Provides secure fixation and significantly
simplifies installation.



Joist Adapter

Suitable for aluminium, timber and WPC
profiles. Fully compatible with Bruggan
and Legro systems, ensuring precise
alignment and durable support.



Tile Adapter

Equipped with heads featuring integrated
spacer tabs (2–10 mm) for dry installation
of porcelain stoneware, HPL, stone and
concrete slabs. Ensures secure
positioning and consistent gaps across
the entire surface.

OPTIONAL COMPONENTS



Self-Levelling Head LE
Ø ~ 120 mm



Slotted Pad SH 100
Ø 200 mm



Tile Expansion Clip DDPWAP
189 × 100 mm



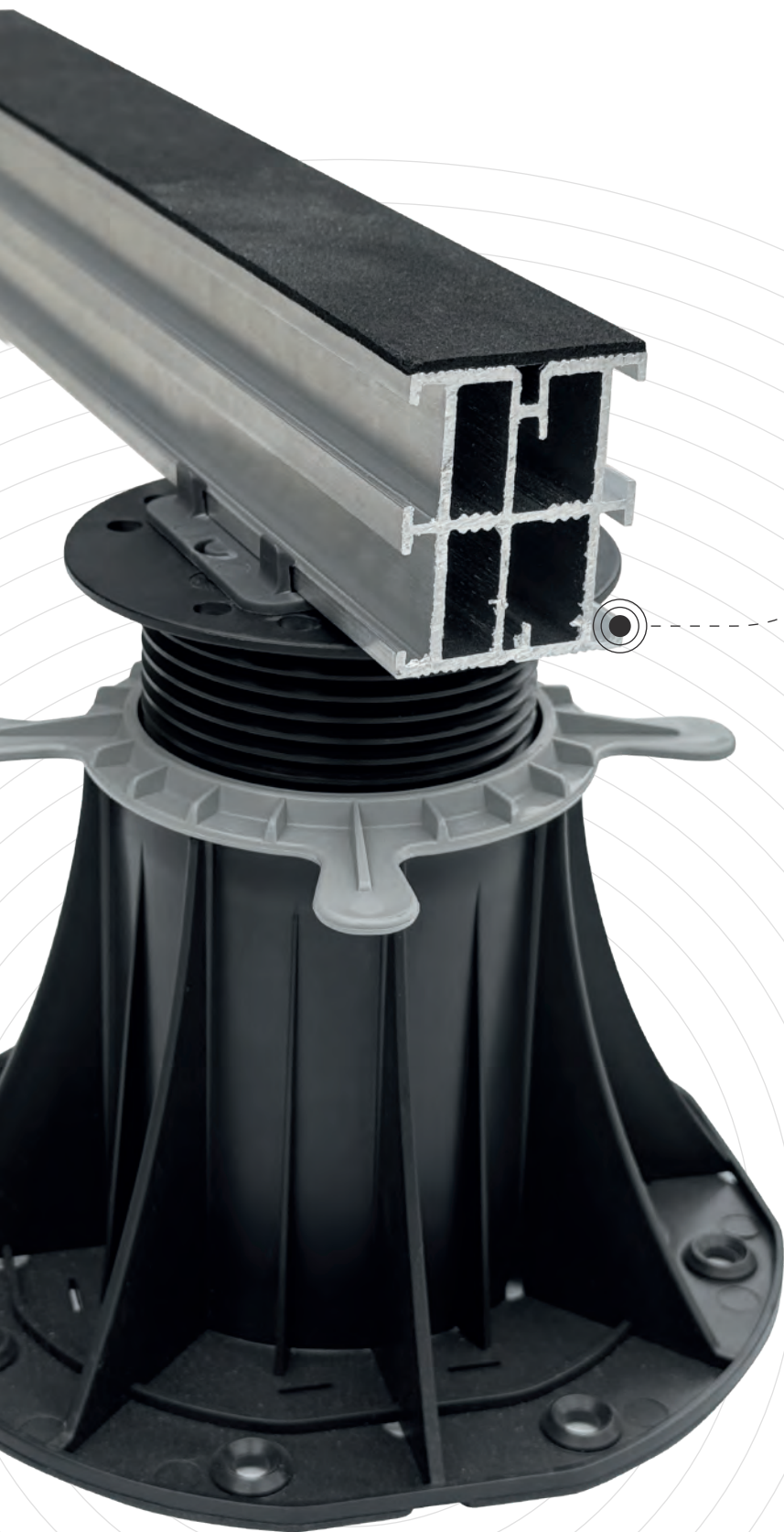
Extension Sleeve DS 100
Ø 110 mm × 100 mm



Rubber Granulate Pad
SBR 200 (3 mm)
200 × 200 × 3 mm



Rubber Granulate Pad
SBR 200 (8 mm)
200 × 200 × 8 mm



CLICK — ADAPTER FOR ALUMINIUM JOIST

The new Click system is an adapter installed into the STANDARD adjustable support, providing a secure connection to the EXPERT aluminium joist.

The Click system is a modern installation standard, combining speed, flexibility and convenience in every detail.

Secure joist fixation and consistent gaps across the entire surface.

EXPERT
by **Bruggan**

CLICK SYSTEM FOR BRUGGAN EXPERT ALUMINIUM JOIST



Full integration with the Bruggan Expert system



Screw-free installation — simple click connection



Designed specifically for Bruggan Expert aluminium joists



Provides secure joist fixation



Adjustment after installation



Easy replacement of individual joists



Quick and easy installation without fixing to the substrate



Load-bearing capacity up to 1000 kg per support

ALUMINIUM JOIST
BRUGGAN EXPERT

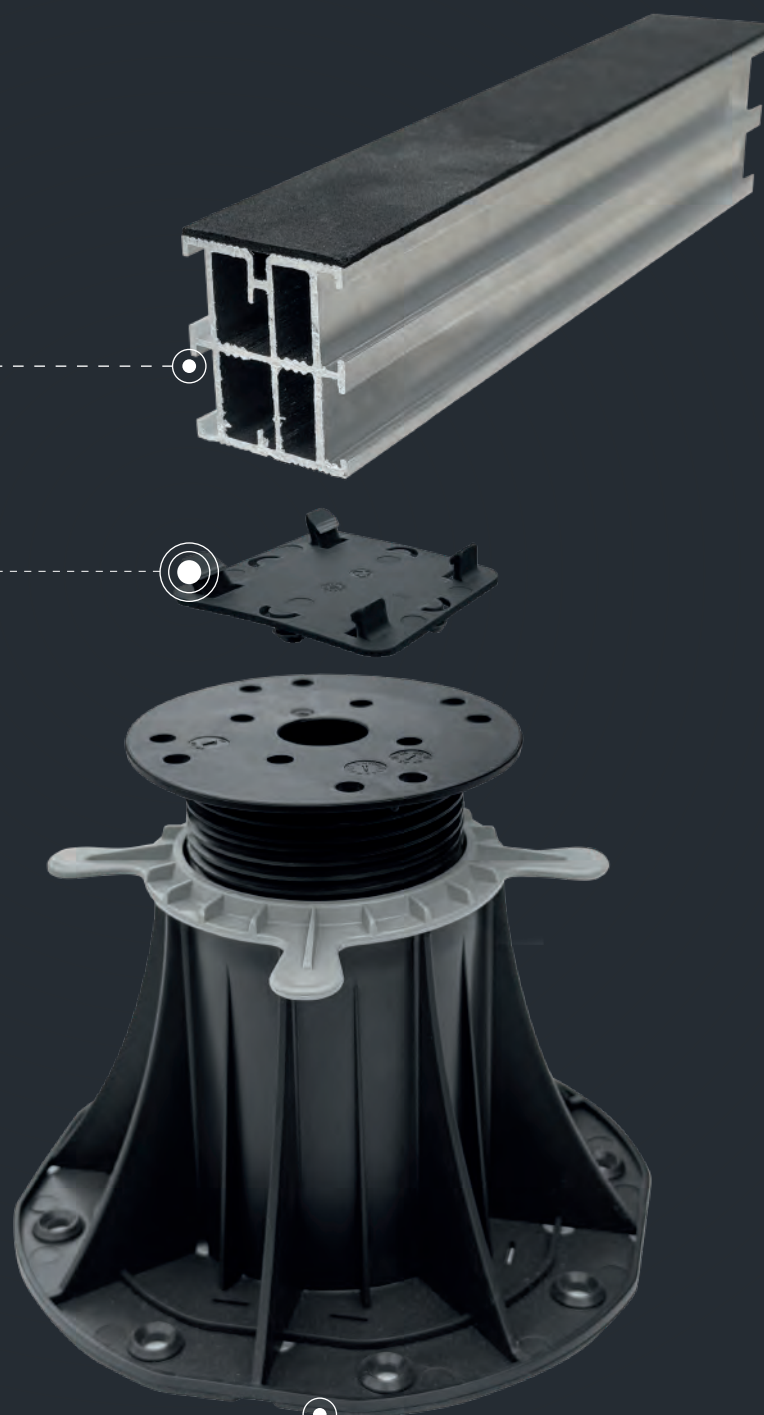
CLICK SYSTEM

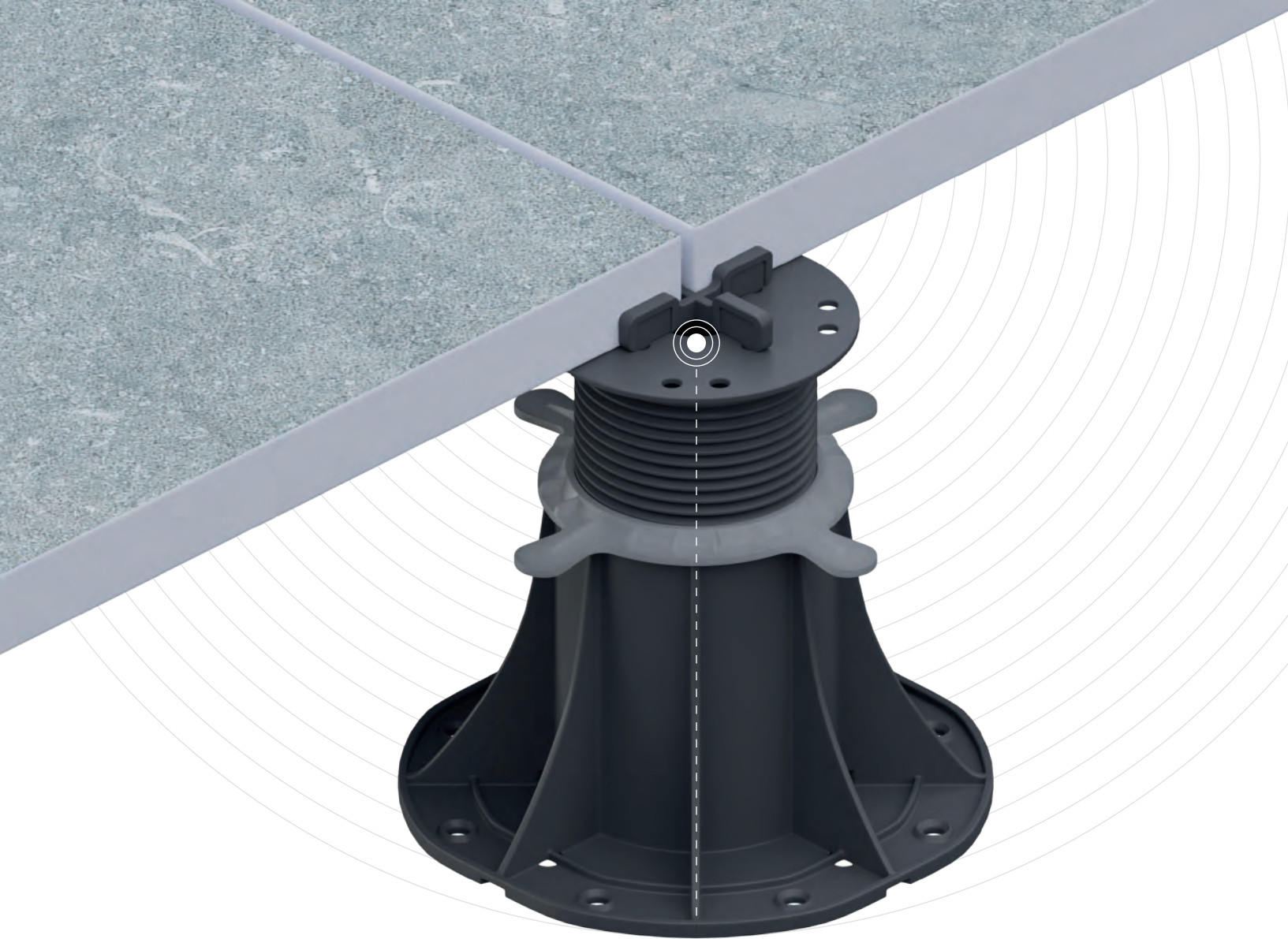


ADJUSTABLE SUPPORT
STANDARD

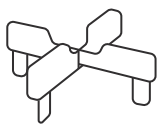
COMPONENT FIXING METHOD

CLICK SYSTEM





CROSS ADAPTER



TILE ADAPTER

Equipped with support heads featuring integrated spacer tabs (2–10 mm) for dry installation of porcelain stoneware, HPL, stone and concrete slabs.

Provides secure positioning and perfectly consistent gaps across the entire surface.

Precise height adjustment even after installation, combined with resistance to loads, moisture and temperature fluctuations.

European quality you can rely on — today and for years to come.

EXPERT
by *Bruggan*

ADVANTAGES



Full integration with the Bruggan Expert system



Designed specifically for tile installation



Adjustment after installation



Ensures perfectly consistent gaps



Quick and easy installation



Resistant to moisture and temperature fluctuations



Load-bearing capacity up to 1000 kg per pedestal

ADVANTAGES



Интеграция с системой Bruggan Expert



Совместима со всеми типами лаг



Регулировка после установки



Обеспечивает надёжную фиксацию лаги



Быстрый и простой монтаж



Регулировка уклона системы до 5 %



Несущая способность до 1000 кг на опору

ADAPTER FOR ALL TYPES OF JOISTS



JOIST ADAPTER

Universal adapter for all types of joists: aluminium, timber and WPC profiles.

Fully compatible with Bruggan and Legro systems, ensuring precise alignment and durable support.



PROFESSIONAL SOLUTION FOR PRECISE AND RELIABLE INSTALLATION OF JOIST-SUPPORTED TERRACES.

RAPTOR is an engineered adjustable support system by DD Pedestals, developed to meet the highest requirements for precision, stability and versatility.

It is a technologically advanced base for timber, aluminium and composite joists, designed for residential, commercial and infrastructure projects.



DECKING



FOR TIMBER
& ALUMINIUM



WPC
PROFILES

PURPOSE-ENGINEERED SOLUTION

FOR TERRACE INSTALLATION ON ALL TYPES OF JOISTS
(ALUMINIUM, WOOD, AND WPC)

RAPTOR SUPPORT



Versatile application



Full integration with the Bruggan
Expert system



Compatible with all types of joists



Universal height range
from 15 to 95 mm



System slope correction up to 7%



Height adjustment range starting
from 15 mm



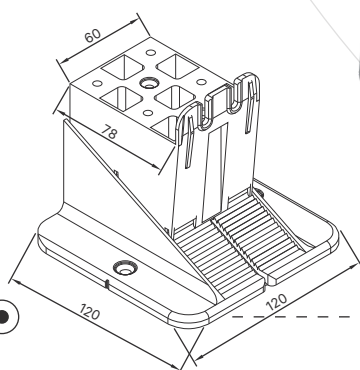
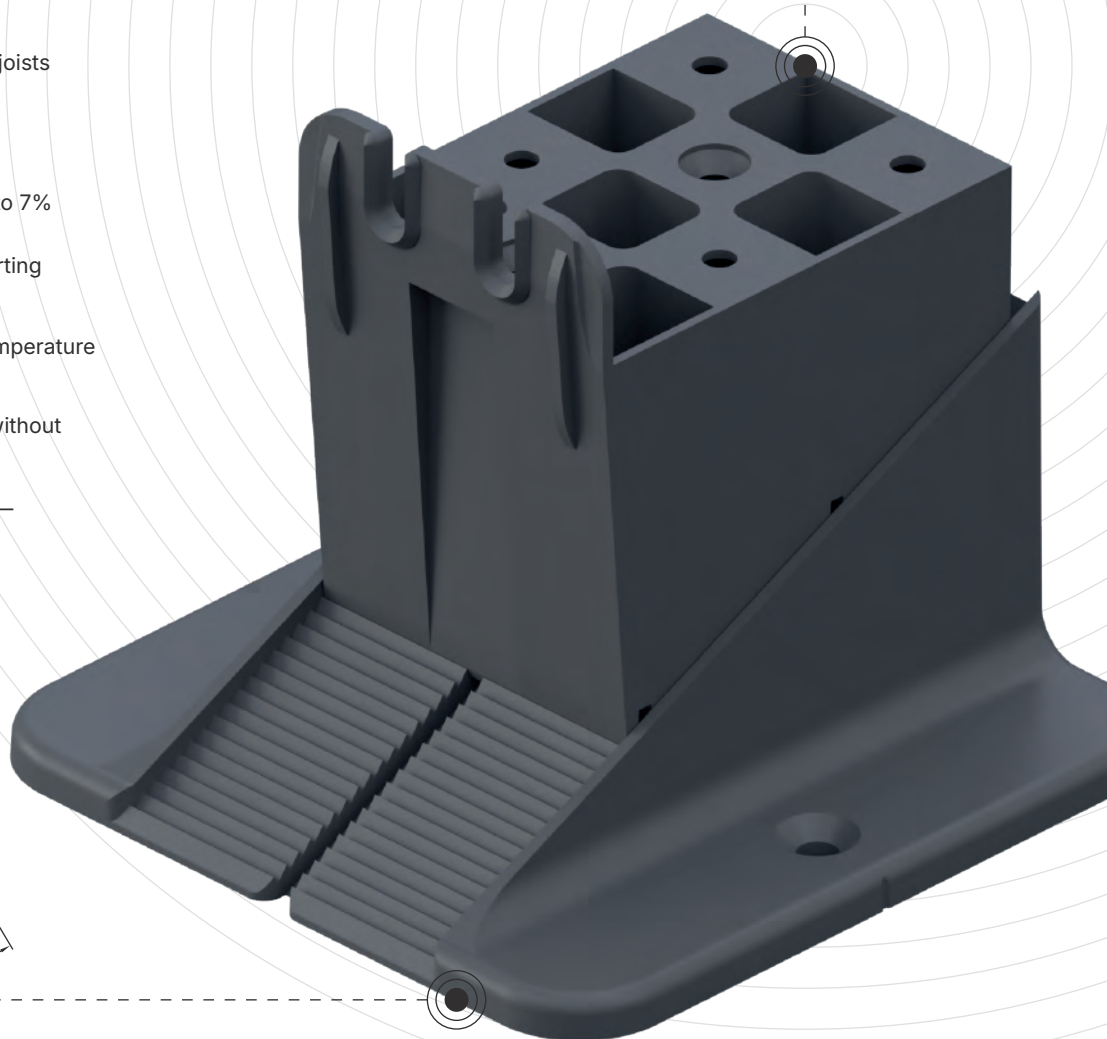
Resistant to moisture and temperature
fluctuations



Quick and easy installation without
fixing to the substrate

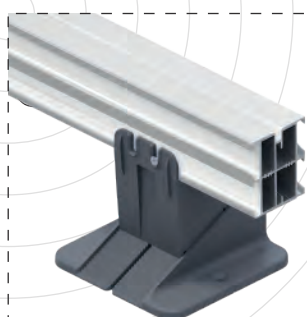


High load-bearing capacity —
up to 1000 kg per support

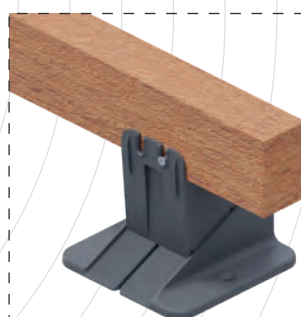


RAPTOR SUPPORT COMPONENT SPECIFICATIONS

**RAPTOR
WEDGE
ADAPTER**
SUITABLE
FOR ALL
TYPES OF
JOISTS



(1) FOR BRUGGAN EXPERT
ALUMINIUM JOISTS



(2) FOR TIMBER JOISTS



(3) FOR WPC PROFILES



WEDGE

Provides height adjustment of the pedestal and secure fixing for any type of joist.

BASE

Ensures precise and stable load-bearing performance and even load distribution.

SUPPORT BODY

An additional component that increases the overall height of the RAPTOR pedestal. It ensures structural stability, reduces pressure on the surface and reliably protects the substrate against point loads.

SPECIFICATION

RAPTOR SUPPORT

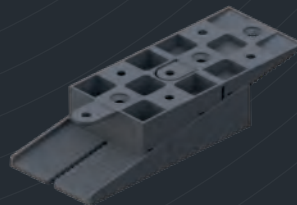
MANUFACTURER	MATERIAL	WARRANTY
Poland	Polypropylene	1 year
SIZE	LOAD-BEARING CAPACITY	CONSUMPTION
from 15 to 95 mm	up to 1000 kg per support	9 pcs/m ²



SIZE
L 65-95 mm

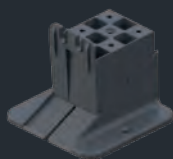


M 35-65 mm

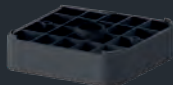


S 15-35 mm

RAPTOR SUPPORT CONFIGURATION



Raptor Support
Size from 35 to 95 mm



Base DDR P30
Base support for adjustable support systems.

Used as a foundation beneath the support, particularly on sensitive or uneven surfaces.

The base ensures structural stability, reduces pressure on the surface and protects the substrate against point loads. Compatible with all DD Pedestal systems, including STANDARD and professional series.



7% Slope Corrector
DDR KN
Compensates for slopes of up to 7% when installing terrace systems on inclined substrates.

Installed between the support and the joist or tile. Provides a perfectly level horizontal surface and is particularly useful when installing terraces on sloped concrete slabs and roofs. Improves both comfort and the aesthetic appearance of the terrace.



Protective Pad DDR PO
200 × 200 × 3 mm

A specialised protective pad that improves sound insulation.

Absorbs footfall noise and vibrations during terrace use, creating a more comfortable acoustic environment. Recommended for balconies, loggias and other areas with increased comfort requirements. Suitable for all DD Pedestal systems.



Acoustic Pad DDR PA
124.2 × 124.2 × 3 mm

A specialised pad designed to improve sound insulation. Absorbs footfall noise and vibrations during terrace use.

Suitable for balconies, loggias and other areas where a high level of comfort is particularly important.



Rubber Pad for Pedestals
DDR PG
200 × 200 × 3 mm

A large universal rubber pad designed for placement beneath adjustable pedestals.

CLIP COMPATIBILITY

WITH BRUGGAN AND LEGRO DECKING BOARDS



	Bruggan Multicolor	Bruggan Elegant	Bruggan Expert 180	Bruggan Expert 160	Legro DS 14
Standard Clip 	Nº7	Nº9	Nº7	Nº7	Nº8
Start/Finish Clip 	Nº7	Nº9	Nº7	Nº7	Nº8
ProClip Universal Universal Clip 		+		+	+
Deckfix Multicolor Clip 	+			+	
Locking Clip 	+	+	+	+	+



PERFECT FOR
MULTIPLE DECK PATTERNS



EXPERT SYSTEMS



Versatile application



Integration with the Bruggan
Expert system



Ideal for decking boards



Provides secure fixing
of decking boards



Concealed board installation
with no visible fasteners



Stainless steel

DECKFIX MULTICOLOR

CLIP FOR BRUGGAN MULTICOLOR DECKING BOARDS

A reinforced black-coated stainless steel clip provides secure and durable fixing of Bruggan Multicolor decking boards.

The 5.5 mm gap improves ventilation beneath the terrace and ensures rapid drainage of moisture. The clip design allows individual boards to be easily replaced without dismantling the entire terrace.

A stainless steel screw for fixing to metal joists is included.

ADVANTAGES

**EXP
ERT** Integration with the Bruggan
Expert system

 Provides secure fixing of
decking boards

 Compatible with aluminium
and timber joists

 Quick and efficient installation

 Ensures a perfect gap between
boards

 Easy replacement of
individual boards

 Concealed board installation
with no visible fasteners

 Suitable for aluminium or
steel load-bearing structures



YEARS
GUARANTEE

ADVANTAGES



Versatile application



Full integration with all Bruggan Expert system components



Compatible with composite decking and natural timber



Provides secure fixing of decking boards



Concealed board installation with no visible fasteners



Easy replacement of individual boards



Suitable for aluminium or steel load-bearing structures

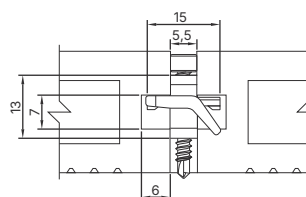
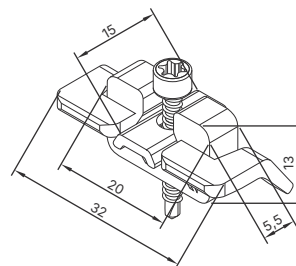
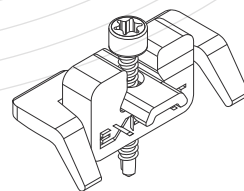
UNIVERSAL CLIP FOR DECKING BOARDS

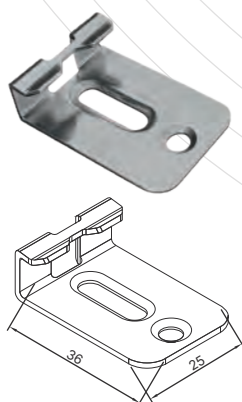
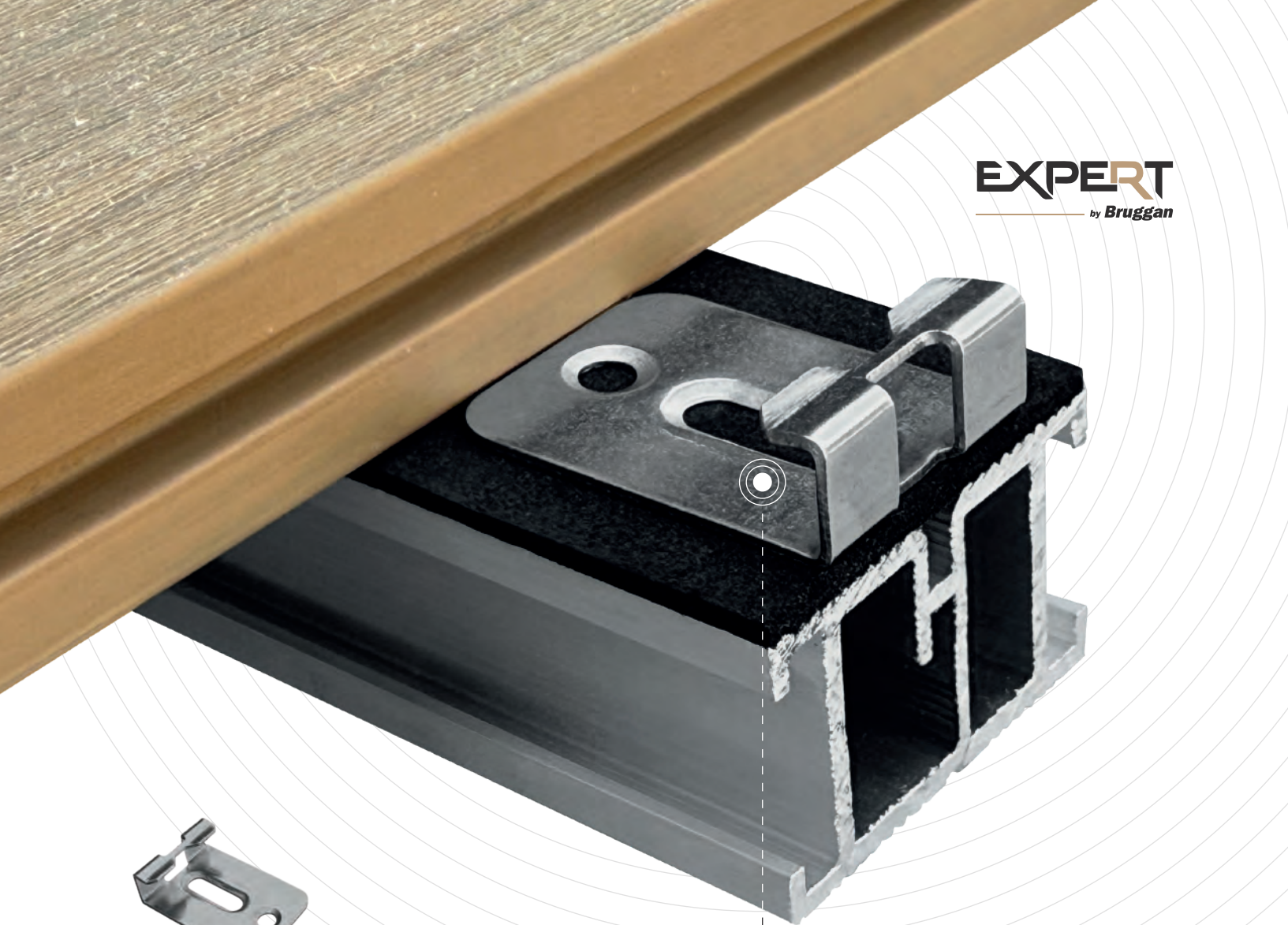
PRO Clip is a professional hybrid clip combining the strength of stainless steel with a polymer component that reduces stress and helps prevent chipping along the edges.

The precise 5.5 mm gap ensures proper ventilation and rapid moisture drainage, helping maintain stable terrace geometry. The design allows individual boards to be easily replaced without dismantling the entire terrace, while the universal profile ensures compatibility with most WPC and composite decking systems.

A stainless steel screw is included for secure fixing to metal and aluminium joists.

PROCLIP HIDDEN CLIP





START/FINISH CLIP

A stainless steel clip for securing the first and last decking boards. Provides concealed installation and a clean, aesthetically pleasing finish.

Quick and reliable installation eliminates the need for visible fasteners on the board surface.

ADVANTAGES



Versatile application



Integration with the Bruggan Expert system



Compatible with all types of joists



Minimal expansion gap



Concealed board installation with no visible fasteners



Quick and efficient installation



Provides secure fixing of decking boards



Easy replacement of individual boards



Suitable for installation on aluminium substructures

START/ FINISH CLIP

STANDARD STAINLESS STEEL CLIP

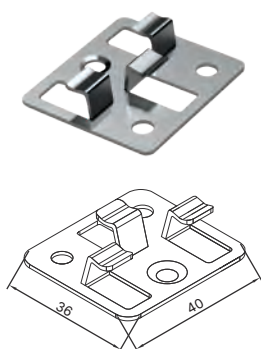
STANDARD CLIP

A reliable fastening clip for concealed terrace installation.

Made of 1.2 mm AISI 304 stainless steel. Provides rigid fixation and a 3–4 mm installation gap between the boards. Resistant to moisture and temperature exposure.

An optimal solution for residential and commercial terrace systems.

ADVANTAGES



Full compatibility with the Bruggan Expert system



Easy replacement of individual boards



Suitable for all types of joists



Quick and efficient installation



Ensures a perfect gap between boards



Secure fixing of decking boards



Concealed board installation with no visible fasteners



Suitable for installation on aluminium substructures

LOCKING CLIP

(FOR PROCLIP AND DECKFIX SYSTEMS)



LOCKING CLIP

A specialised locking clip for ProClip and DeckFix systems rigidly secures the decking board along its length, ensuring stable decking geometry.

It prevents longitudinal movement caused by thermal expansion and contraction of the material, extends the service life of the structure and ensures an impeccable long-term result.

ADVANTAGES



Versatile application



Integration with the Bruggan Expert system



Stainless steel — enhanced corrosion resistance



Precise stabilisation of the decking between boards



Secure board fixation



Easy replacement of individual boards



Ensures precise decking geometry



Concealed installation with no visible fasteners



INSTALLATION SYSTEMS

BRUGGAN EXPERT

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EXPERT
by **Bruggan**

EN