

ALUDECK SYSTEM



ALUDECK – ALUMINUM JOIST SYSTEM AND ACCESSORIES FOR RAISED DECK TERRACE CONSTRUCTION

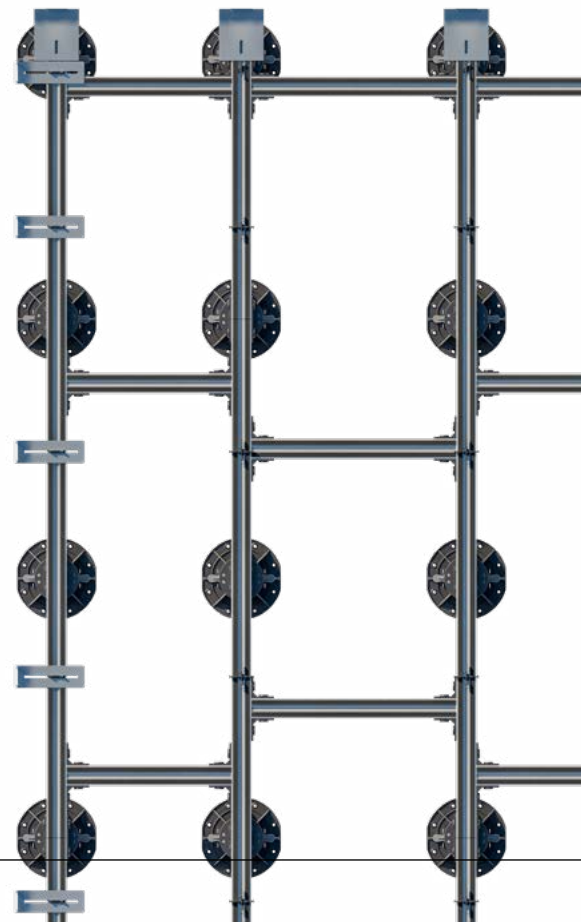
The basic installation method for raised deck terraces, which involves resting the corners of pavers directly on the pedestal, presents several structural and execution challenges. These include the time-consuming process of precisely leveling hundreds of independent support points, a lack of stabilizing interconnections, and limited point-load support for the pavers. In cases of improper installation, this creates a risk of instability, mechanical damage, and shifting of the pavers.

Solution: AluDeck Aluminum Joist System and Accessories

The AluDeck system revolutionizes the construction of elevated terraces by replacing individual support points with an integrated, aluminum joist frame structure. Creating a rigid, interconnected grid under the entire terrace surface ensures:

- **Enhanced Horizontal Stability:**
Connected joists form a uniform frame that eliminates the risk of shifting for individual pavers and pedestals.
- **Greater Load Capacity:**
Linear support along the edges of the pavers, instead of point support, reduces stress and the risk of material cracking.
- **Faster Installation:**
Leveling the entire plane of joists is significantly faster and simpler than adjusting each pedestal individually, reducing installation time by up to 20%.

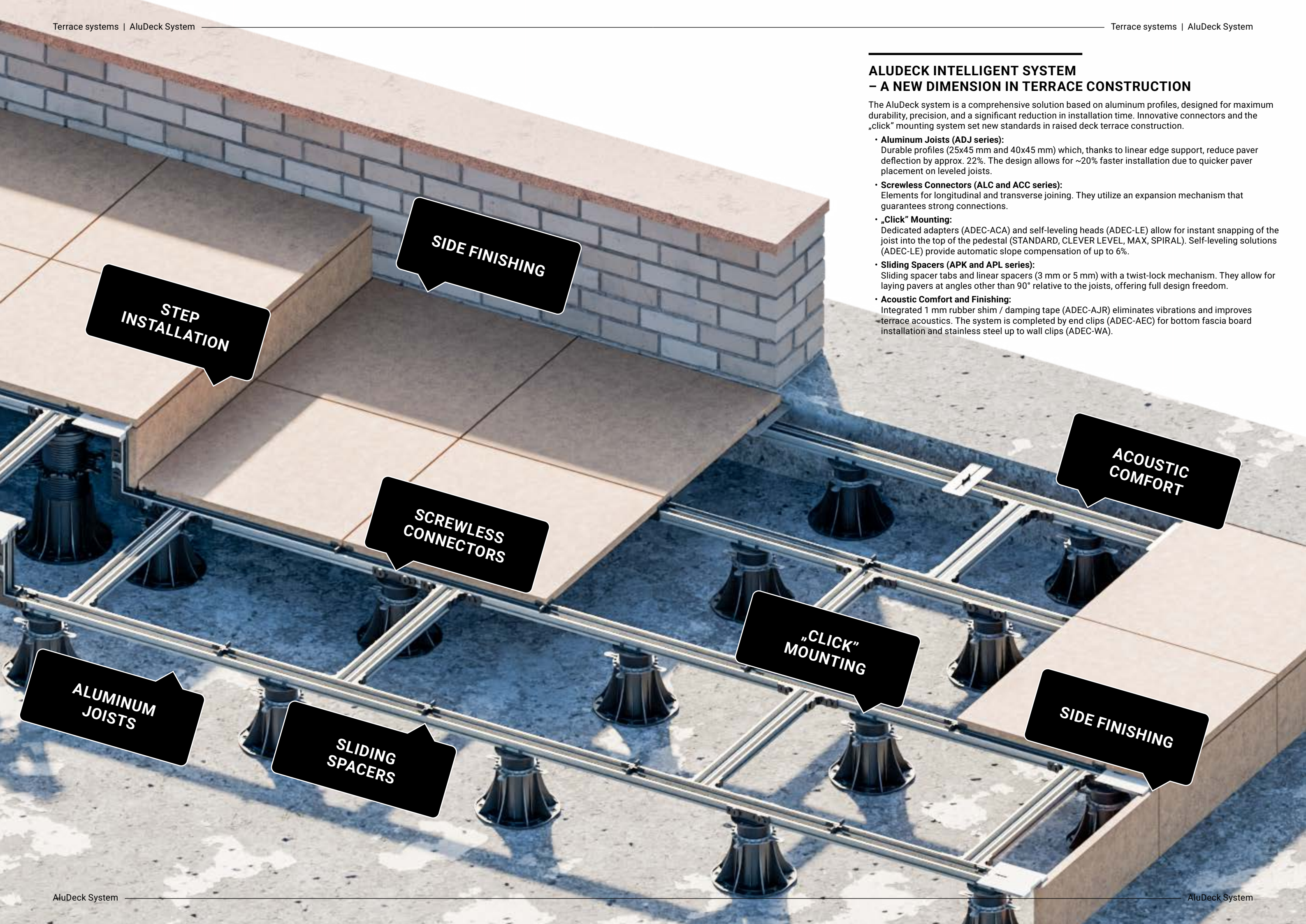
AluDeck is a professional system that elevates the durability, safety, and execution efficiency of raised deck terraces to a new level.



ALUDECK INTELLIGENT SYSTEM – A NEW DIMENSION IN TERRACE CONSTRUCTION

The AluDeck system is a comprehensive solution based on aluminum profiles, designed for maximum durability, precision, and a significant reduction in installation time. Innovative connectors and the „click“ mounting system set new standards in raised deck terrace construction.

- **Aluminum Joists (ADJ series):**
Durable profiles (25x45 mm and 40x45 mm) which, thanks to linear edge support, reduce paver deflection by approx. 22%. The design allows for ~20% faster installation due to quicker paver placement on leveled joists.
- **Screwless Connectors (ALC and ACC series):**
Elements for longitudinal and transverse joining. They utilize an expansion mechanism that guarantees strong connections.
- **„Click“ Mounting:**
Dedicated adapters (ADEC-ACA) and self-leveling heads (ADEC-LE) allow for instant snapping of the joist into the top of the pedestal (STANDARD, CLEVER LEVEL, MAX, SPIRAL). Self-leveling solutions (ADEC-LE) provide automatic slope compensation of up to 6%.
- **Sliding Spacers (APK and APL series):**
Sliding spacer tabs and linear spacers (3 mm or 5 mm) with a twist-lock mechanism. They allow for laying pavers at angles other than 90° relative to the joists, offering full design freedom.
- **Acoustic Comfort and Finishing:**
Integrated 1 mm rubber shim / damping tape (ADEC-AJR) eliminates vibrations and improves terrace acoustics. The system is completed by end clips (ADEC-AEC) for bottom fascia board installation and stainless steel up to wall clips (ADEC-WA).



ALUDECK SYSTEM COMPONENTS



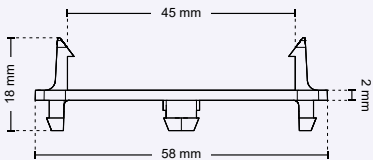
ADEC-ACA

Fixed click adapter for AluDeck joist for STANDARD and CLEVER LEVEL pedestals, height 2 mm

Installation Speed: Significantly accelerates the terrace substructure installation process compared to traditional methods requiring screw-fastening.

Screwless Assembly: Eliminates the risk of corrosion at drilling points and prevents errors resulting from incorrect screw installation.

Stable Connection: „Click“ type latches ensure a durable and rigid bond between the joist and the pedestal, translating into the stability of the entire terrace.



Technical Information

Overall dimensions: 58 × 58 × 18 mm
Additional height: 2 mm
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-ACA-(25)	
Quantity 25 pcs.	Art. No. 109.020121

ADEC-ACA-(200(25x8))	
Quantity 200 pcs.	Art. No. 109.020131

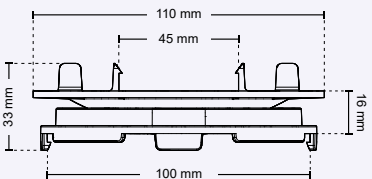
ADEC-LE100

Self-levelling head for AluDeck joist click mounting for STANDARD pedestals, slope compensation up to 6%

Automatic Leveling up to 6%: Eliminates the need for additional leveling shims and the tedious manual leveling of joists and pedestals.

Drastic Reduction in Labor Time: The „click“ mounting system allows for a significant acceleration in the construction of the aluminum substructure.

Durability and Stability: Precise fitting of spherical components guarantees stable load transfer even at maximum slope.



Technical Information

Overall dimensions: 110 × 110 × 33 mm
Additional height: 16 mm
Slope Leveling: 0–6%
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-LE100-(85)	
Quantity 85 pcs.	Art. No. 109.050121

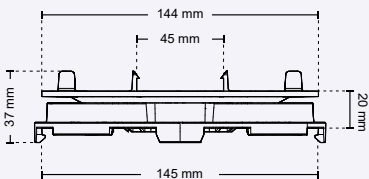
ADEC-LE145

Self-levelling head for AluDeck joist click mounting for MAX and SPIRAL pedestals, slope compensation up to 6%

Automatic Leveling up to 6%: Eliminates the need for additional leveling shims and the tedious manual leveling of joists and pedestals.

Drastic Reduction in Labor Time: The „click“ mounting system allows for a significant acceleration in the construction of the aluminum substructure.

Durability and Stability: Precise fitting of spherical components guarantees stable load transfer even at maximum slope.

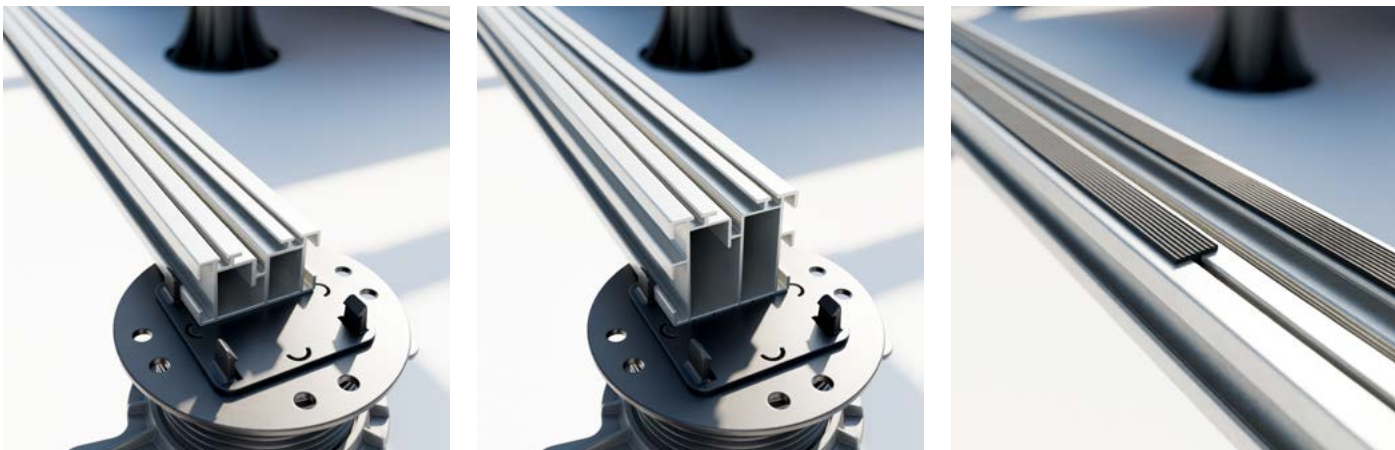


Technical Information

Overall dimensions: 151 × 151 × 37 mm
Additional height: 19 mm
Slope Leveling: 0–6%
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-LE145-(36)	
Quantity 36 pcs.	Art. No. 109.050221

ALUDECK SYSTEM COMPONENTS



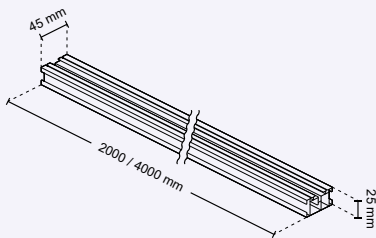
ADEC-ADJ25X45

AluDeck aluminium joist 25×45 mm

Approx. 22% Reduction in Paver Deflection: Linear edge support for the pavers instead of point support drastically increases user safety.

20% Faster Installation: Eliminating the need for drilling into aluminum and using structural screws significantly reduces labor time.

High Horizontal Stability: Creates a monolithic structure resistant to vibrations and shifting of the pavers.



Technical Information

Dimensions: 25 × 45 mm
Length: 2 or 4 m
Additional height: 25 mm
Temperature range: -20°C / +65°C
Material: Aluminum
Color: Gray

Length 2 m ADEC-ADJ25X45X2000-(1)	
Quantity 1 pc.	Art. No. 109.010111

Length 4 m ADEC-ADJ25X45X4000-(1)	
Quantity 1 pc.	Art. No. 109.010121

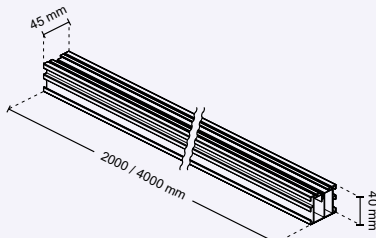
ADEC-ADJ40X45

AluDeck aluminium joist 40×45 mm

Approx. 22% Reduction in Paver Deflection: Linear edge support for the pavers instead of point support drastically increases user safety.

20% Faster Installation: Eliminating the need for drilling into aluminum and using structural screws significantly reduces labor time.

High Horizontal Stability: Creates a monolithic structure resistant to vibrations and shifting of the pavers.



Technical Information

Dimensions: 40 × 45 mm
Length: 2 or 4 m
Additional height: 40 mm
Temperature range: -20°C / +65°C
Material: Aluminum
Color: Gray

Length 2 m ADEC-ADJ40X45X2000-(1)	
Quantity 1 pc.	Art. No. 109.010211

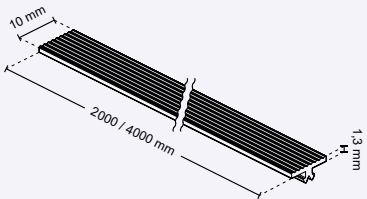
Length 4 m ADEC-ADJ40X45X4000-(1)	
Quantity 1 pc.	Art. No. 109.010221

ADEC-AJR

Rubber soundproofing tape for AluDeck joist - thickness 1 mm

Improves Acoustic Properties: Reduces noise generated during terrace use.

Enhances User Comfort: Provides gentle cushioning while walking, significantly improving the overall terrace experience.



Technical Information

Dimensions: 11 × 4 mm
Length: 2 or 4 m
Additional height: 1.3 mm
Temperature range: -20°C / +65°C
Material: Rubber
Color: Black

Length 2 m ADEC-AJR2000-(1)	
Quantity 1 pc.	Art. No. 109.070111

Length 4 m ADEC-AJR4000-(1)	
Quantity 1 pc.	Art. No. 109.070121

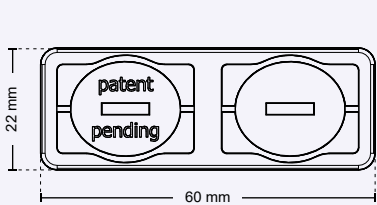
ALUDECK SYSTEM COMPONENTS



ADEC-ALC

Screwless longitudinal connector for AluDeck aluminium joist

- Straight-line Connection:** Used to join adjacent joists in a straight line (longitudinally).
- Accelerates Installation:** Streamlines the assembly process.
- Strong Connection:** Creates a durable and robust bond between joists.
- Screwless Assembly:** Installation without the need for structural screws.



Technical Information

Overall dimensions: 60 × 3,8 × 22 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

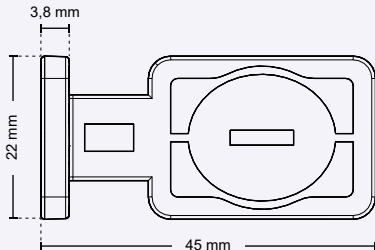
ADEC-ALC-(50)	
Quantity 50 pcs.	Art. No. 109.040121

ADEC-ALC-(250(50X10))	
Quantity 250 pcs.	Art. No. 109.040131

ADEC-ACC

Screwless transverse connector for AluDeck aluminium joist

- Perpendicular Connections:** Designed to create stable perpendicular connections, essential for building the terrace frame structure.
- Accelerates Installation:** Significantly speeds up the assembly process.
- Strong Connection:** Creates a durable and robust bond between joists.
- Screwless Assembly:** Installation without the need for structural screws.



Technical Information

Overall dimensions: 45 × 45 × 22 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

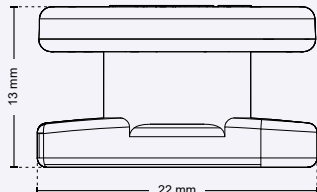
ADEC-ACC-(50)	
Quantity 50 pcs.	Art. No. 109.040221

ADEC-ACC-(800(50x16))	
Quantity 800 pcs.	Art. No. 109.040231

ADEC-CLIP

Screwless transverse connector for AluDeck aluminium joist

- Versatile Connection:** The clip is used for both longitudinal and transverse joining of ADEC-ADJ aluminum joists.
- Fast Screwless Assembly:** Significantly reduces installation time by eliminating the need for screws.
- Ease of Installation:** Designed for simple and intuitive assembly.



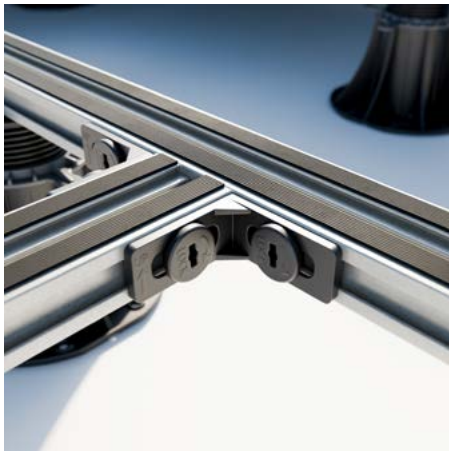
Technical Information

Overall dimensions: 22 × 22 × 13 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-CLIP-(50)	
Quantity 50 pcs.	Art. No. 109.040521

ADEC-CLIP-(800(50x16))	
Quantity 800 pcs.	Art. No. 109.040531

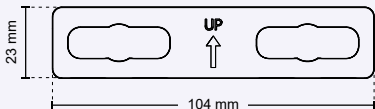
ALUDECK SYSTEM COMPONENTS



ADEC-ALC2

AluDeck screwless longitudinal joist connector

- Screwless Longitudinal Connector:** Designed for joining two parallel ADEC-ADJ aluminum joists (longitudinal connection).
- Fast Screwless Assembly:** Significantly reduces installation time by eliminating the need for screws.
- Ease of Installation:** Designed for simple and intuitive assembly.



Technical Information

Overall dimensions: 104 × 23 × 6 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

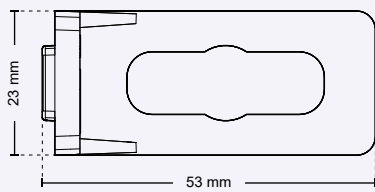
ADEC-ALC2-(50)	
Quantity 50 pcs.	Art. No. 109.040321

ADEC-ALC2-(800(50x16))	
Quantity 800 pcs.	Art. No. 109.040331

ADEC-ACC2

AluDeck screwless transverse joist connector

- Screwless Transverse Connector:** Designed for joining two perpendicular ADEC-ADJ aluminum joists (transverse connection).
- Fast Screwless Assembly:** Significantly reduces installation time by eliminating the need for screws.
- Ease of Installation:** Designed for simple and intuitive assembly.



Technical Information

Overall dimensions: 53 × 23 × 6 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

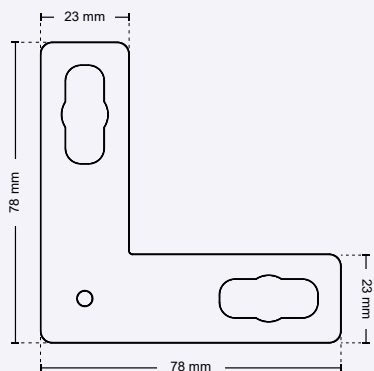
ADEC-ACC2-(50)	
Quantity 50 pcs.	Art. No. 109.040421

ADEC-ACC2-(800(50x16))	
Quantity 800 pcs.	Art. No. 109.040431

ADEC-AVC

AluDeck screwless vertical joist connector

- Accelerates Installation:** Streamlines the assembly process.
- Strong Connection:** Creates a robust and durable bond between joists.
- Screwless Assembly:** Installation without the need for structural screws.

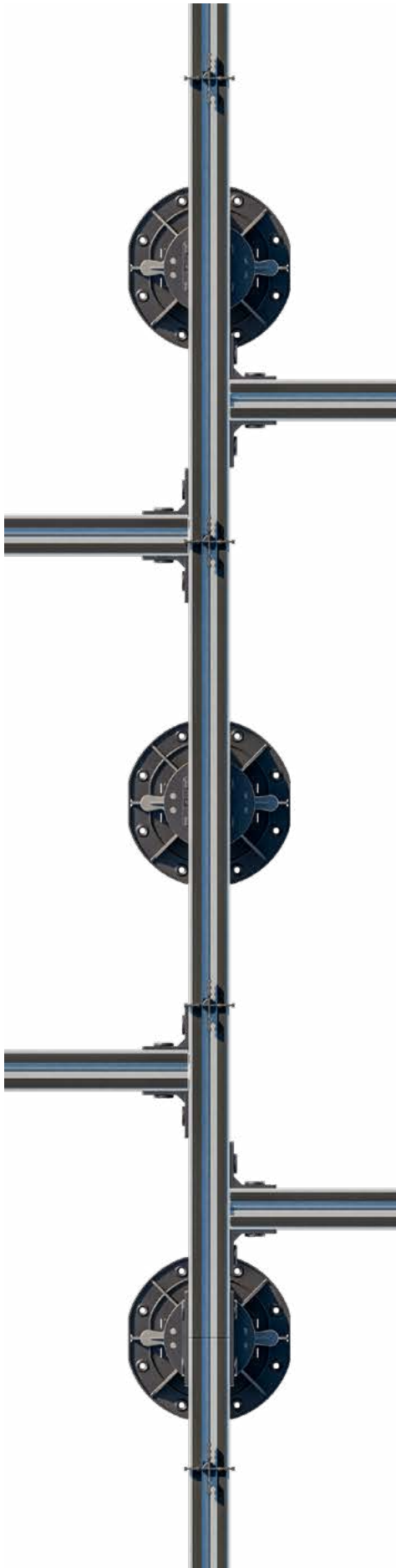


Technical Information

Overall dimensions: 78 × 78 × 6 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-AVC-(1)	
Quantity 1 pc.	Art. No. 109.040611

ALUDECK SYSTEM COMPONENTS



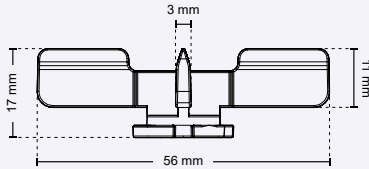
ADEC-APK3

Sliding cross spacer for AluDeck joist for setting 3 mm gaps between tiles

Secure Fixing: The twist-lock mechanism eliminates the risk of spacers shifting or falling out during installation and throughout the terrace's lifespan.

Installation Flexibility: The ability to lay pavers at angles other than a perfect 90 degrees relative to the joists allows for greater design and execution freedom.

Easy Adjustment: The sliding design enables instant repositioning of the spacer at any stage of work before the pavers are laid.



Technical Information

Overall dimensions: 56 × 56 × 17 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-APK3-(50)	
Quantity 50 pcs.	Art. No. 109.030121

ADEC-APK3-(500(50x10))	
Quantity 500 pcs.	Art. No. 109.030131

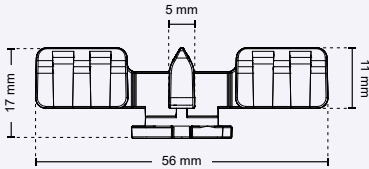
ADEC-APK5

Sliding cross spacer for AluDeck joist for setting 5 mm gaps between tiles

Secure Fixing: The twist-lock mechanism eliminates the risk of spacers shifting or falling out during installation and throughout the terrace's lifespan.

Installation Flexibility: The ability to lay pavers at angles other than a perfect 90 degrees relative to the joists allows for greater design and execution freedom.

Easy Adjustment: The sliding design enables instant repositioning of the spacer at any stage of work before the pavers are laid.



Technical Information

Overall dimensions: 56 × 56 × 17 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-APK5-(50)	
Quantity 50 pcs.	Art. No. 109.030131

ADEC-APK5-(500(50x10))	
Quantity 500 pcs.	Art. No. 109.030231

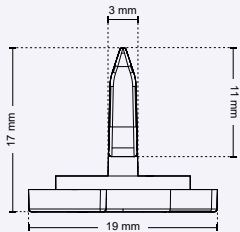
ADEC-APL3

Sliding linear spacer for AluDeck joist for setting 3 mm gaps between tiles

Secure Fixing: The twist-lock mechanism eliminates the risk of spacers shifting or falling out during installation and throughout the terrace's lifespan.

Installation Flexibility: The ability to lay pavers at angles other than a perfect 90 degrees relative to the joists allows for greater design and execution freedom.

Easy Adjustment: The sliding design enables instant repositioning of the spacer at any stage of work before the pavers are laid.



Technical Information

Overall dimensions: 32 × 20 × 17 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-APL3-(50)	
Quantity 50 pcs.	Art. No. 109.030321

ADEC-APL3-(2000(50x40))	
Quantity 2000 pcs.	Art. No. 109.030331

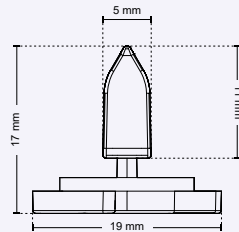
ADEC-APL5

Sliding linear spacer for AluDeck joist for setting 5 mm gaps between tiles

Secure Fixing: The twist-lock mechanism eliminates the risk of spacers shifting or falling out during installation and throughout the terrace's lifespan.

Installation Flexibility: The ability to lay pavers at angles other than a perfect 90 degrees relative to the joists allows for greater design and execution freedom.

Easy Adjustment: The sliding design enables instant repositioning of the spacer at any stage of work before the pavers are laid.



Technical Information

Overall dimensions: 32 × 20 × 17 mm
Additional height: –
Temperature range: -20°C / +65°C
Material: Certified PP plastic
Color: Black

ADEC-APL5-(50)	
Quantity 50 pcs.	Art. No. 109.030421

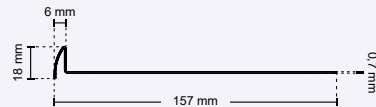
ADEC-APL5-(2000(50x40))	
Quantity 2000 pcs.	Art. No. 109.030431

ADEC-WA

Stainless Steel Up to Wall Clip for AluDeck

Expansion Gap Creation: The stainless steel up to wall clip allows for the creation of an expansion gap between the last terrace paver and the wall.

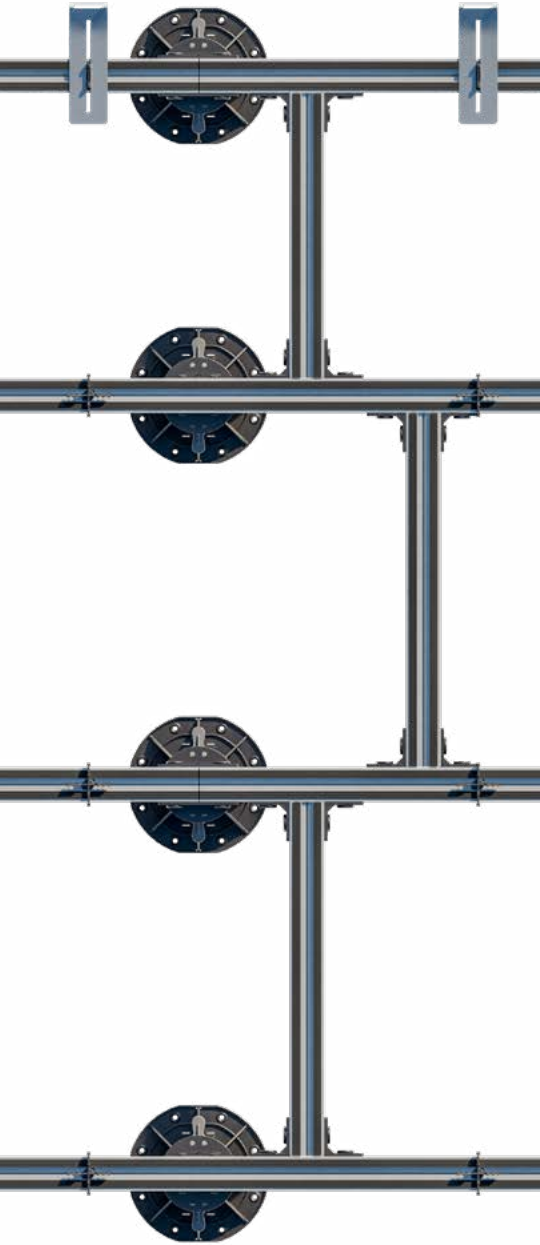
Material Properties: The clip is made of stainless steel, which allows for minor changes in the width of the gap due to thermal expansion.



Technical Information

Overall dimensions: 157 × 50 × 18 mm
Additional height: 0,7 mm
Temperature range: -20°C / +65°C
Material: Stainless Steel
Color: Gray

ADEC-WA-(200)	
Quantity 200 pcs.	Art. No. 109.060221



EFFICIENCY, DURABILITY, AND AESTHETICS – ADVANTAGES THAT DRIVE THE CHOICE

AluDeck has been designed to solve real challenges faced by contractors and to provide investors with the highest quality. Its advantages over competing systems stem from unique structural features.

- **Linear Support Instead of Point Support:**

Pavers rest with their entire edge on the joist, rather than on the point tabs of a spacer. This ensures better load distribution and reduces paver deflection by over 21%, directly decreasing the risk of cracking.

- **Screwless and Tool-free Assembly:**

Innovative ALC, ACC, and AVC connectors, along with the „click“ mounting system for attaching joists to pedestals, eliminate the need for drilling and using screws to build the structure. This not only accelerates the work but also prevents potential installation errors.

- **Full System Solution:**

AluDeck is a comprehensive system that includes joists and dedicated accessories for joining, positioning, and edge finishing. This allows for structural optimization and solves every installation problem within a single, consistent standard.

- **Compatibility and Versatility:**

The system is fully compatible with a wide range of DD Pedestals, including the STANDARD, MAX, SPIRAL, and CLEVER LEVEL series.

ALUDECK – THE PROFESSIONAL CHOICE FOR DEMANDING MARKETS

The AluDeck system is the answer to market expectations where quality, durability, and speed of execution are paramount. It is the preferred solution in countries such as Germany, the Netherlands, France, and the United States.

Dedicated Applications:

- Large commercial and public terraces.
- Prestigious residential and apartment terraces.
- Inverted roofs and technical decks.
- Pedestrian walkways and surfaces with increased strength requirements.

Benefits for Professionals:

- **For Architects:** Design freedom thanks to a stable and rigid substructure that guarantees a perfectly level plane and an aesthetic finish for years to come.
- **For Contractors:** Significant reduction in installation time (up to 20%) and simplified work thanks to the „click“ and screwless connection systems. Fewer leveling points mean higher efficiency and lower risk of errors.
- **For Investors:** A guarantee of a durable and stable structure that will not require adjustments or repairs. Higher final quality translates into the value and prestige of the entire investment.

ALUDECK IS AN INVESTMENT IN STABILITY, SPEED, AND DURABILITY