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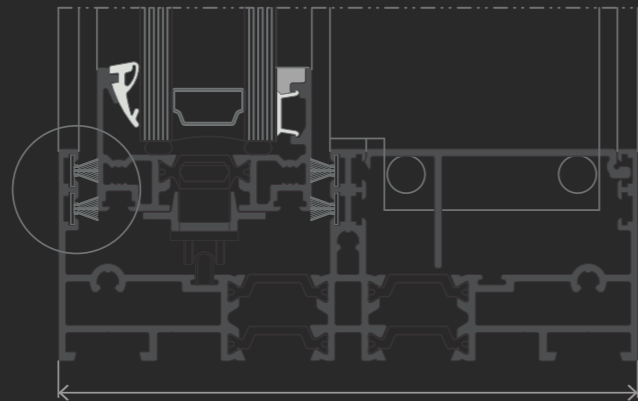
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Building B

DECOALUSYSTEMS

A New Generation of Aluminum Systems

A NEW GENERATION OF ALUMINUM SYSTEMS

COMFORT, LIGHT AND ARCHITECTURAL FREEDOM



The AS 75, AS 110 PASSIV, AS 178HS PRO SLIM and ILUSIA aluminum system ranges are designed for contemporary architecture, with a focus on large glazed surfaces, minimalist profiles and high technical performance. All systems provide excellent energy efficiency, superior airtightness, and high resistance to wind and weather conditions, making them suitable for both premium residential projects and modern commercial developments.

A distinctive feature of these ranges is the combination of elegant design and advanced functionality. Slim profiles, fully glazed corners and the possibility of creating large openings result in bright, panoramic spaces. At the same time, the systems allow the integration of modern technologies such as automated sashes, smart home solutions and high-performance glazing with enhanced thermal and acoustic insulation, providing comfort, safety and a lasting premium appearance.





AS 75

Three-chamber
aluminum system

Energy Performance	Thermal transmittance coefficient U_w up to $0.67 \text{ W/m}^2\text{K}$, ideal for energy-efficiency. The system with a 3-chamber profile and 4 thermal variants ensures excellent comfort.
Security	RC2, RC3 and RC4 anti-burglary security, providing high protection. Superior water tightness and wind resistance, class C5.
Durability	Robust aluminum construction with a 75 mm installation depth, ensuring long-term durability and resistance to intensive use. Air permeability performance class 4.
Glazing	Compatible with glazing units from 16–66 mm, including double or triple glazing. Provides sound insulation of up to $47(-2;-6) \text{ dB}$, ensuring a quiet indoor environment.
Aesthetics	Modern aluminum design, available in the AS 75 INDUSTRIAL variant with a distinctive style. Allows premium finishes in RAL colors, special textures, and fully glazed corners.



AS 75

Three-chamber
aluminum system



Modern Design and Architectural Flexibility

The AS 75 system stands out through its elegant aluminum design and the ability to create a wide range of constructions, including curved forms or fully glazed corner solutions. Also available in the INDUSTRIAL version, featuring a contemporary look enhanced by flat or spatial decorative beads, the system offers complete customization freedom for modern projects.



Superior Safety and Resistance

The robust aluminum construction ensures long-lasting durability and excellent resistance to extreme conditions. The AS 75 system achieves RC2, RC3 and RC4 burglary resistance classes, offering enhanced protection for residential and commercial buildings. In addition, its airtightness and wind resistance performance are certified at superior levels.



High Thermal and Acoustic Insulation Performance

With thermal insulation values of up to $U_w = 0.67 \text{ W/m}^2\text{K}$, the AS 75 system meets the most demanding energy efficiency standards. The three-chamber structure and the four available thermal variants contribute to a high level of indoor comfort and excellent sound insulation of up to 47 dB.



Advanced Functionality and Smart Compatibility

The AS 75 system enables the creation of large sashes up to 3,000 mm in height and weighing up to 200 kg. Compatibility with smart home solutions, low balcony thresholds, and optimized production through the use of shared gaskets and accessories make this system a practical and modern solution for premium construction projects.



AS 110 PASSIV

Five-chamber aluminum system

Energy Performance	Uw up to 0.51 W/m ² K for passive houses and low-energy buildings. The 5-chamber system ensures top-level thermal insulation and excellent energy efficiency performance.
Security	Robust aluminum construction. Wind resistance class C5/B5 and water tightness E1950. Designed for maximum stability.
Durability	Profiles with a 110 mm installation depth and certified mechanical resistance class 4. The 5-chamber technology improves the rigidity and durability of the entire structure.
Glazing	Compatible with glazing from 47-74.5 mm, including triple glazing for high energy efficiency and acoustic comfort. Supports heavy glass units up to 300 kg.
Aesthetics	Minimalist design with a sash perfectly aligned to the exterior and slim profiles for increased natural light. Available in a wide range of finishes and RAL colors.



AS 110 PASSIV

Five-chamber aluminum system



Passive Performance and Energy Efficiency

The AS 110 PASSIV system is designed for passive windows and delivers one of the highest thermal insulation levels on the market. With a Uw coefficient starting from 0.51 W/m²K and Passive House Darmstadt certification, the system significantly reduces energy consumption and enhances indoor comfort.



Robust Construction and Large-Scale Glazing

The innovative 5-chamber technology ensures excellent structural rigidity and enables the creation of large glazed surfaces adapted to modern architecture. The AS 110 PASSIV system supports sashes up to 3,500 mm in height and 300 kg, maintaining stability even with heavy triple-glazed units.



Acoustic Insulation and Superior Resistance

The advanced construction of the AS 110 PASSIV system delivers excellent sound insulation and airtightness performance. Certifications in air permeability class 4 and water tightness E1950 ensure effective protection against noise, air drafts, and extreme weather conditions.



Elegant Design and Modern Functionality

The sash perfectly aligned with the frame on the exterior provides a minimalist and elegant appearance, typical of premium construction. The AS 110 PASSIV system includes low profiles for increased natural light, aesthetic hardware covers, and the possibility of integrating insect screens or modern smart home solutions.



AS 178HS PRO SLIM

Sliding and lift-and-slide door system

Energy Performance	Thermal transmittance coefficient U_w up to $0.7 \text{ W/m}^2\text{K}$, ensuring optimal comfort in all seasons. The warm threshold and insulated profiles help reduce energy losses.
Security	RC2 anti-burglary security, providing additional protection for modern homes. Robust locking systems enhance safety.
Durability	Sashes up to 600 kg and large dimensions up to 3,300 mm. The ANTI-BI-METAL technology ensures stable operation regardless of temperature variations.
Glazing	Compatible with glazing units up to 59 mm, including high-performance double or triple glazing. Provides sound insulation of up to 45 (-2;-7) dB for excellent acoustic comfort.
Aesthetics	Ultra-slim design with a 25 or 50 mm central mullion for panoramic glazing. Available in RAL colors and GLASS LINE version with all-glass appearance.



AS 178HS PRO SLIM

Sliding and lift-and-slide door system



Minimalist Design and Impressive Glazed Surfaces

The AS 178HS PRO SLIM system is designed for large-scale sliding doors, featuring extremely narrow profiles and generous glazed surfaces. The ultra-slim central mullion of only 25 mm or 50 mm delivers a modern and elegant appearance, maximizing natural light and strengthening the connection between interior and exterior spaces.



High Thermal and Acoustic Performance

With thermal insulation values of up to $U_w = 0.7 \text{ W/m}^2\text{K}$ and sound insulation of up to 45 dB, the AS 178HS PRO SLIM system delivers excellent indoor comfort in all seasons. The ANTI-BI-METAL technology ensures proper operation and long-term durability of the profiles regardless of temperature variations.



Comfort, Functionality and Automation

The AS 178HS PRO SLIM system ensures smooth and comfortable operation thanks to lift-and-slide technology and the option for automated sashes. The low and thermally insulated threshold provides easy access, while compatibility with various opening configurations allows seamless integration into modern residential projects and premium spaces.



Strength and Architectural Flexibility

The robust construction allows the creation of impressive sashes, up to 3,300 mm in height and weighing up to 600 kg. The AS 178HS PRO SLIM system is available in all construction configurations, including fully glazed corner solutions without a mullion, offering maximum freedom in the design of contemporary spaces.



ILUSIA

Sliding Doors with Slim Profiles and Concealed Frame

Minimalist Design and Total Transparency

The ILUSIA system redefines the concept of panoramic views through ultra-slim profiles and frames completely concealed within the wall. Versions with perimeter gaps or concealed frames create the effect of a full glass wall, maximizing natural light and providing a seamless connection between indoor and outdoor spaces.

Impressive Dimensions and Modern Functionality

The robust construction allows the creation of sliding doors up to 2,700 mm in height with sash weights of up to 250 kg. The ILUSIA system is available in configurations with two, three or four tracks and can incorporate either manual or automated operation for enhanced comfort.

Weather Tightness and Technical Performance

The ILUSIA system delivers outstanding weather tightness and resistance to environmental conditions, thanks to innovative dual-component sealing strips and a specially designed linear drainage solution. Certified values for air permeability, water tightness and wind resistance ensure comfort, reliability and long-term performance in everyday use.

Innovation and Architectural Flexibility

ILUSIA enables the creation of fully glazed corner solutions and pocket door systems, making it ideal for premium contemporary projects. The exceptionally slim central mullion, measuring only 20 mm or 25 mm, together with the optional magnetic sliding system, transforms ILUSIA into an exclusive and forward-looking architectural solution.

Energy Performance	Uw thermal transmittance coefficient of up to 1.8 W/m ² K for panoramic glazed surfaces. Dual thermal break lines for enhanced thermal performance.
Security	Robust construction and concealed profiles provide safety and protection in everyday use.
Durability	Rigid profiles hidden within the wall and screw-assembled frames ensure long-term structural stability. Certified water tightness class 7A and wind resistance class C3.
Glazing	Compatible with 26–32 mm glazing, available with double or triple glazed units. The possibility of creating fully glazed corners enhances the brightness of interior spaces.
Aesthetics	Minimalist design with a concealed frame and an ultra-slim central mullion of only 20–25mm. Premium design and uninterrupted glazed surfaces without obstructions.

ILUSIA
 Slim-Profile Sliding Doors with Invisible Frame

