

WELDED FRAMES

PVC-Aluminium Systems **GEMINI** for windows and doors

- ➔ Professional and complete cladding system for the production of PVC-aluminium windows and doors
- ➔ Aluminium profiles supplied as ready-made frames: **welded** or **crimped corners**
- ➔ **Perfect integration** of aluminium claddings into the PVC system – separate construction of PVC and aluminium
- ➔ **QUALICOAT SEASIDE** quality of powder coating



Colours



Eco friendly



Protection

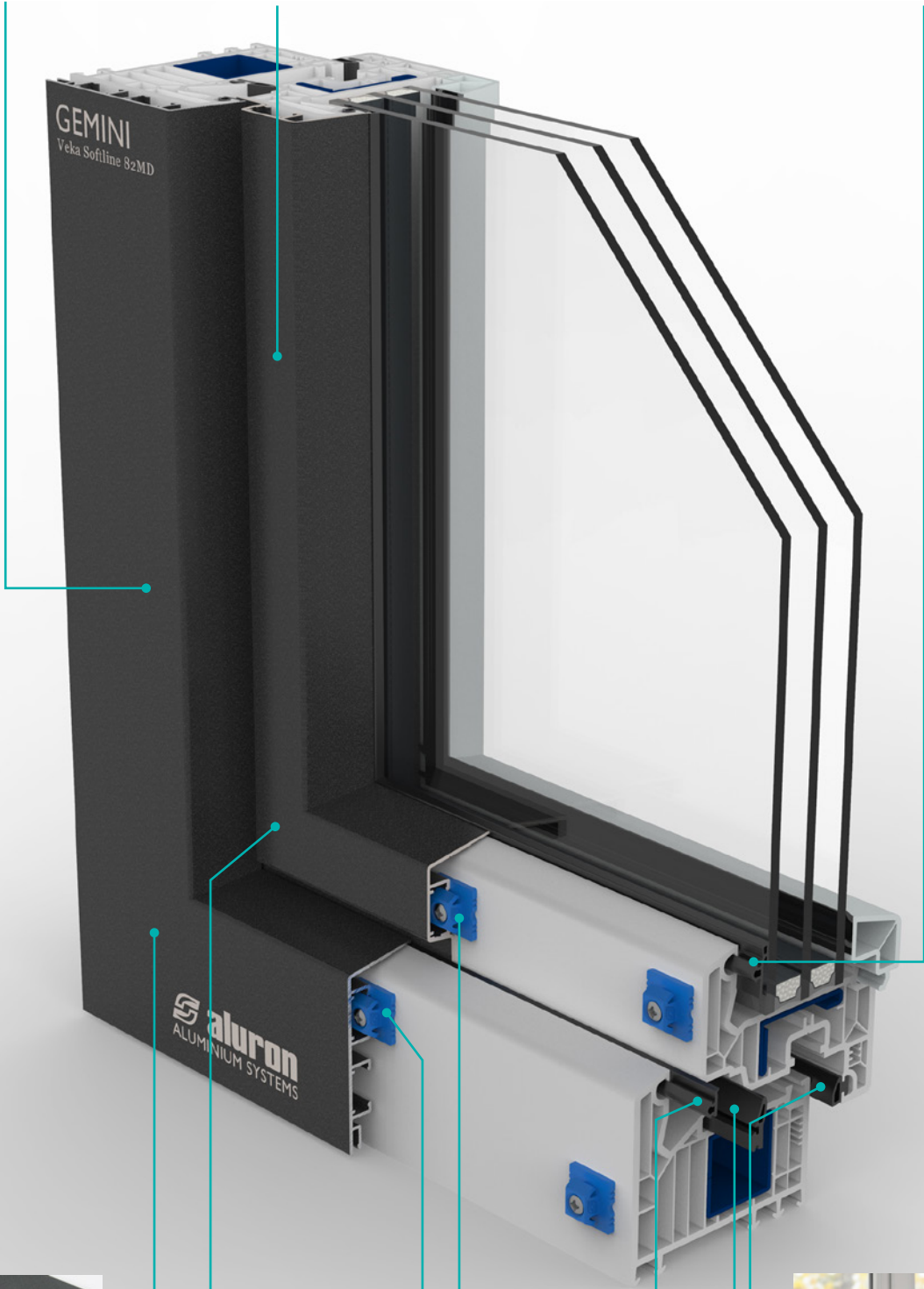
Upgrade PVC to PREMIUM

PROFILES AND ACCESSORIES

Aluminium frame claddings

Aluminium sash claddings

Original PVC system gaskets or universal ALURON system gaskets



Welded or mechanically joined corners of aluminium frames

GEMINI system assembly clip - screwed to the body of the window

Original PVC system gaskets



ALUMINIUM FRAMES
Perfectly flat welded corners

EASY CARE
Everyday comfort



GEMINI aluminium claddings for PVC windows combine the elegance and practicality of ALU with the highest thermal performance of PVC. The customer receives a unique product that is aesthetically pleasing, prepared for long-

term use, and at the same time easy to maintain and preserve. The claddings do not interfere with the original PVC system solutions.

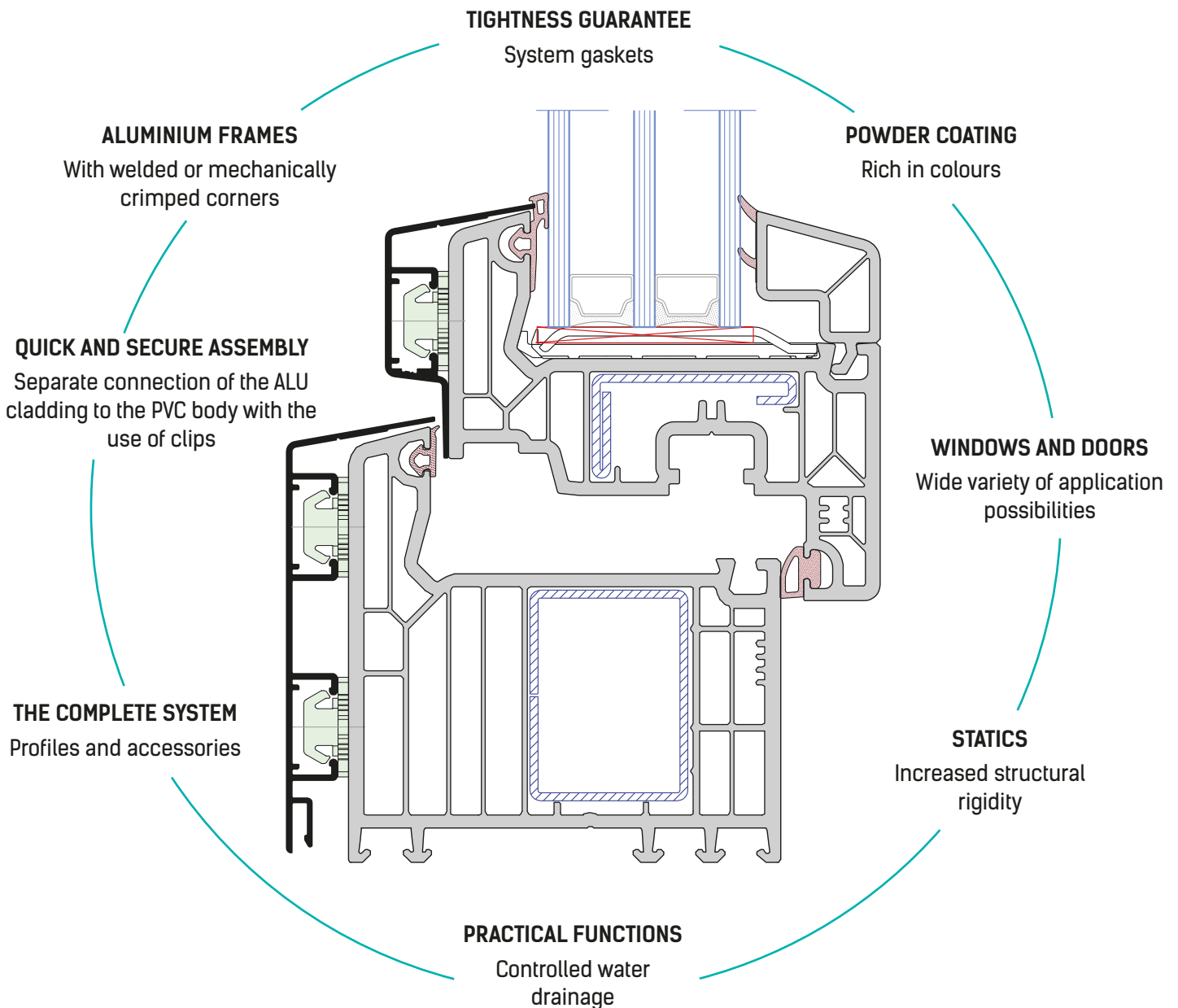
WHY ALUMINIUM?

The use of aluminium on the outside increases the level of protection against weather and UV effects. At the same time, it makes it possible to match and harmonise the external colour and design of the plastic window with the aluminium or wood-aluminium joinery.

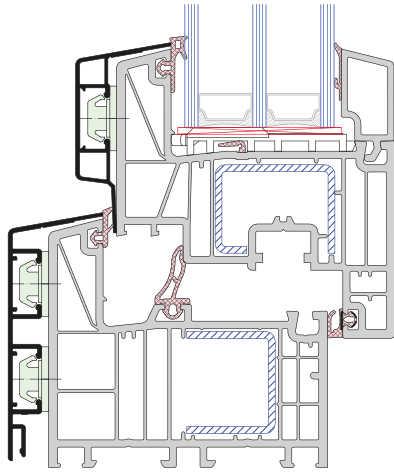
HOW DOES IT WORK?

Gemini systems designed for PVC-ALU windows are based entirely on the design solutions envisaged by the PVC system providers and consist of a perfect fit of aluminium claddings. This achieves optical elegance while maintaining top performance.

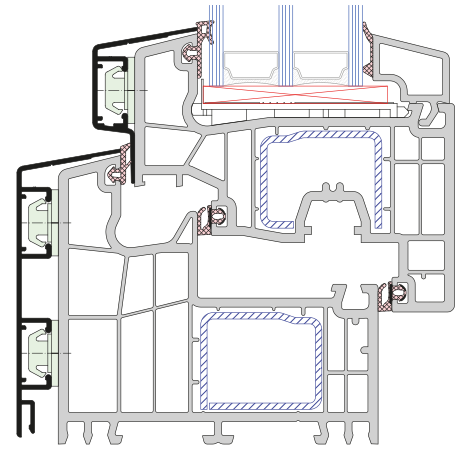
KEY FEATURES



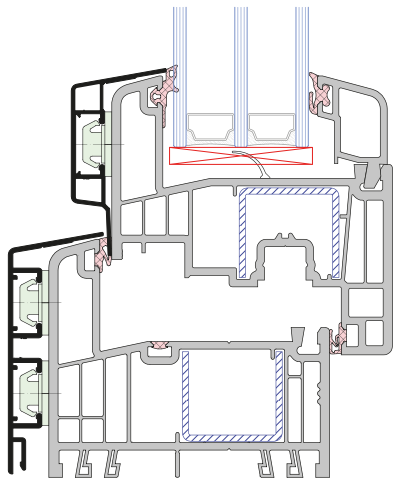
GEMINI 6E82 **SALAMANDER**
pvc-aluminium windows



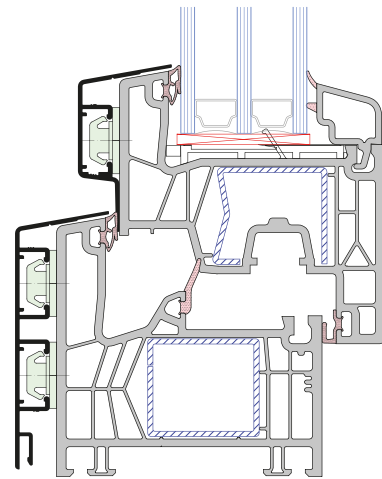
GEMINI 6E92 **SALAMANDER**
pvc-aluminium windows



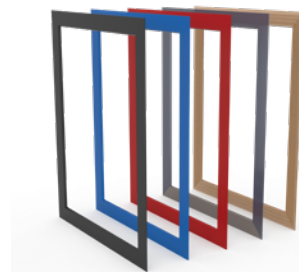
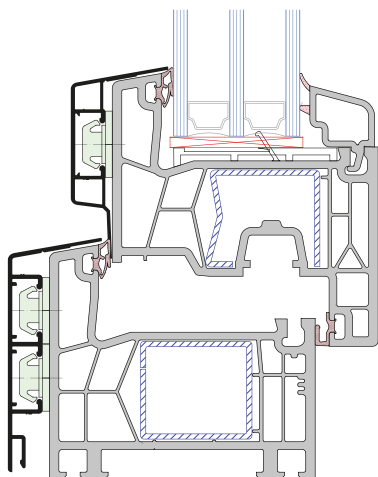
GEMINI 9000 S **GEALAN**
pvc-aluminium windows



GEMINI 76 MD **KÖMMERLING**
pvc-aluminium windows



GEMINI 76 AD **KÖMMERLING**
pvc-aluminium windows



COLOURS
Powder coating

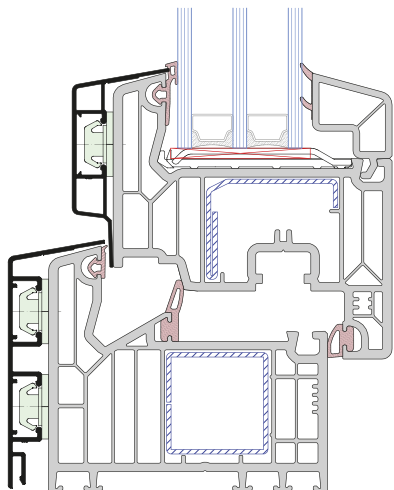
Aluminium profiles are powder-coated in Aluron's own modern paint shops, in **Qualicoat** or **Qualicoat Seaside** quality. An unlimited number of colours and wood-imitation decors are available.



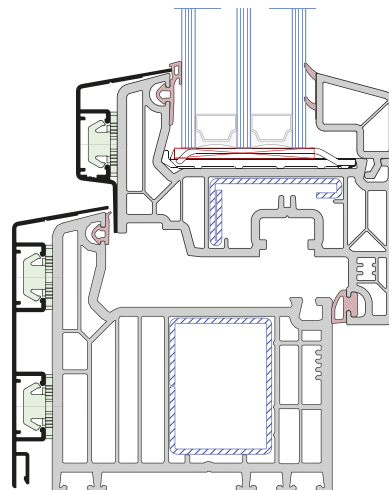
READY FOR ALL WEATHER CONDITIONS

Protection against weather and UV

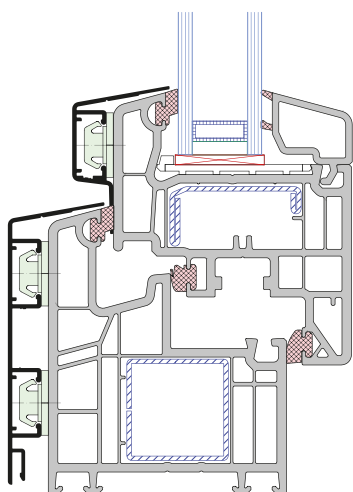
GEMINI SOFT LINE 82 MD VEKA
pvc-aluminium windows



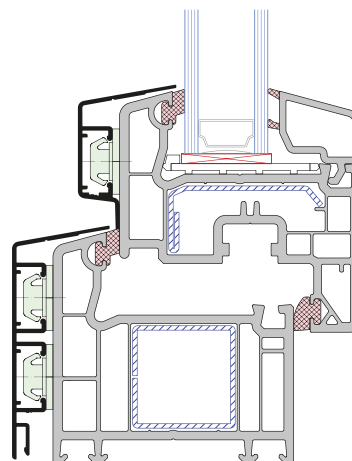
GEMINI SOFT LINE 82 AD VEKA
pvc-aluminium windows



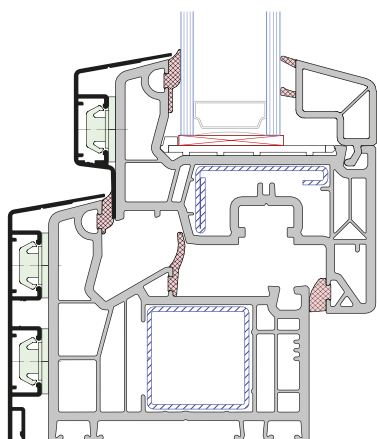
GEMINI SOFT LINE 70 MD VEKA
pvc-aluminium windows



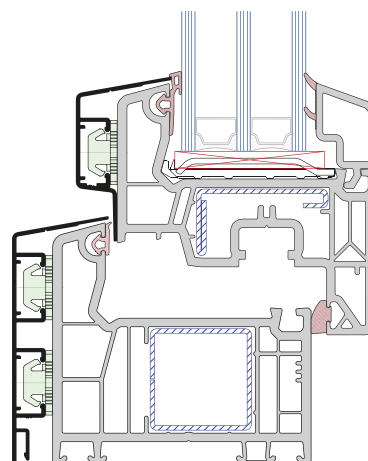
GEMINI SOFT LINE 70 AD VEKA
pvc-aluminium windows

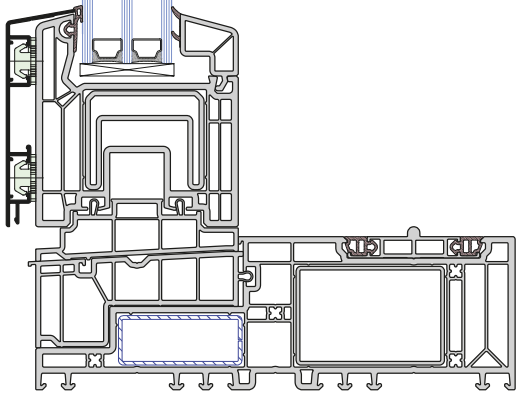
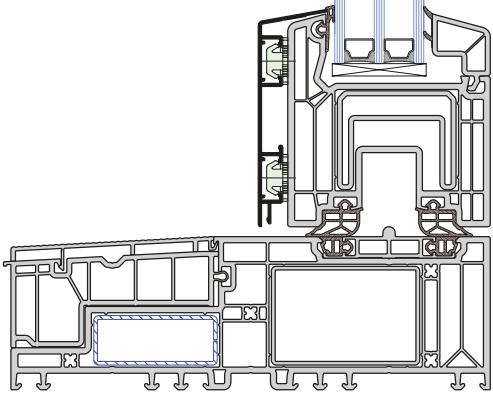
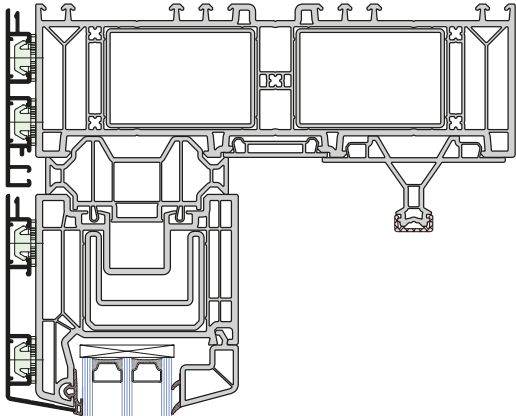
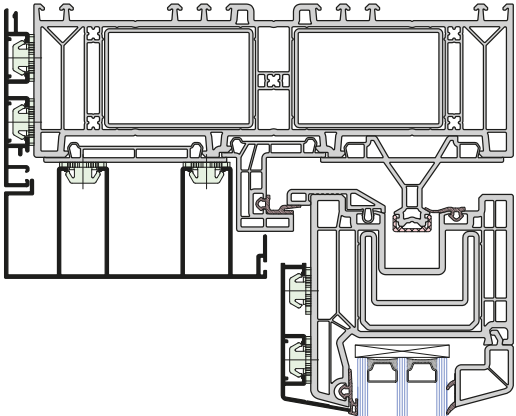


GEMINI SOFT LINE 76 MD VEKA
pvc-aluminium windows



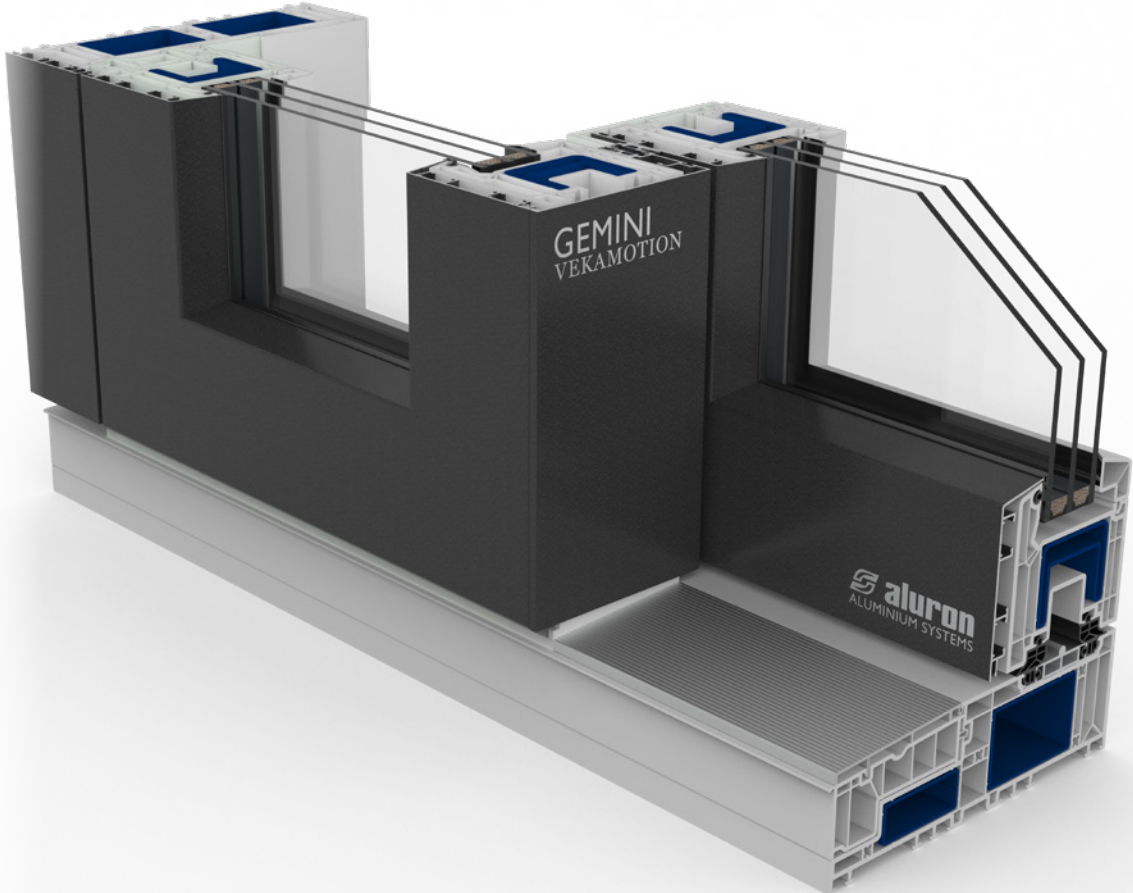
GEMINI SOFT LINE 76 AD VEKA
pvc-aluminium windows

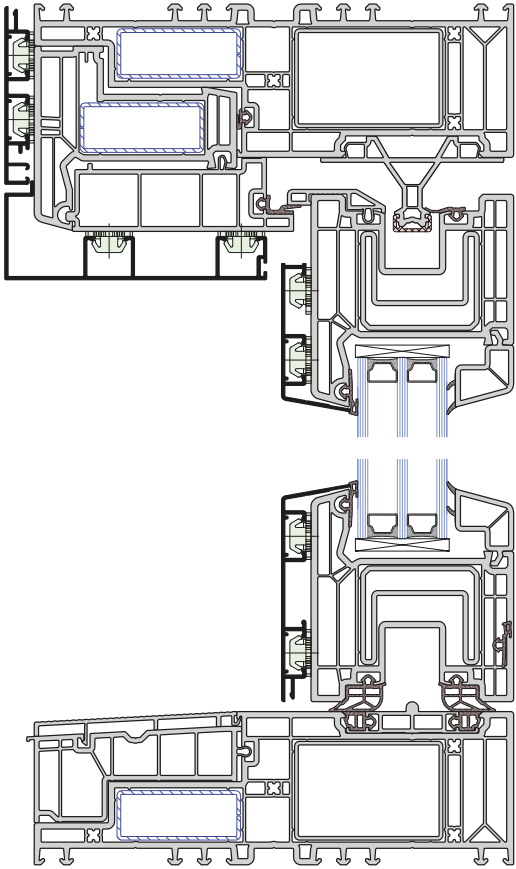




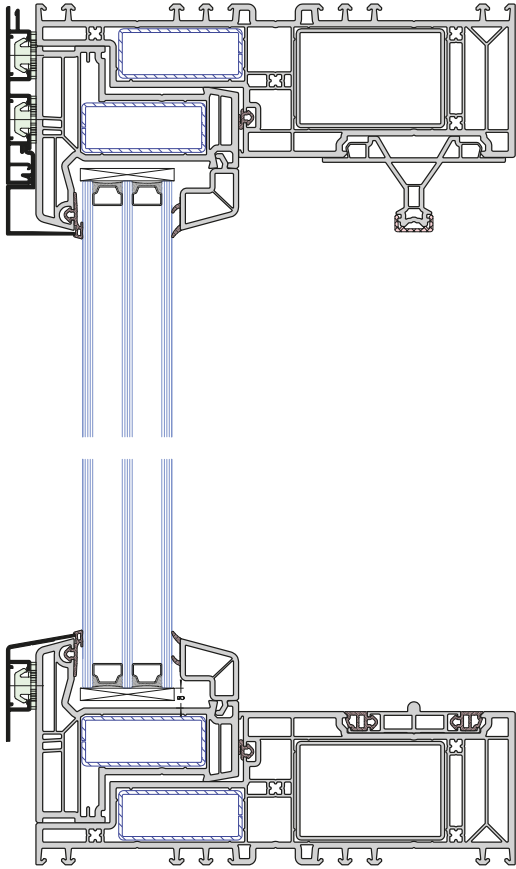
Vertical cross-section through the active sash

Vertical cross-section through the fixed sash

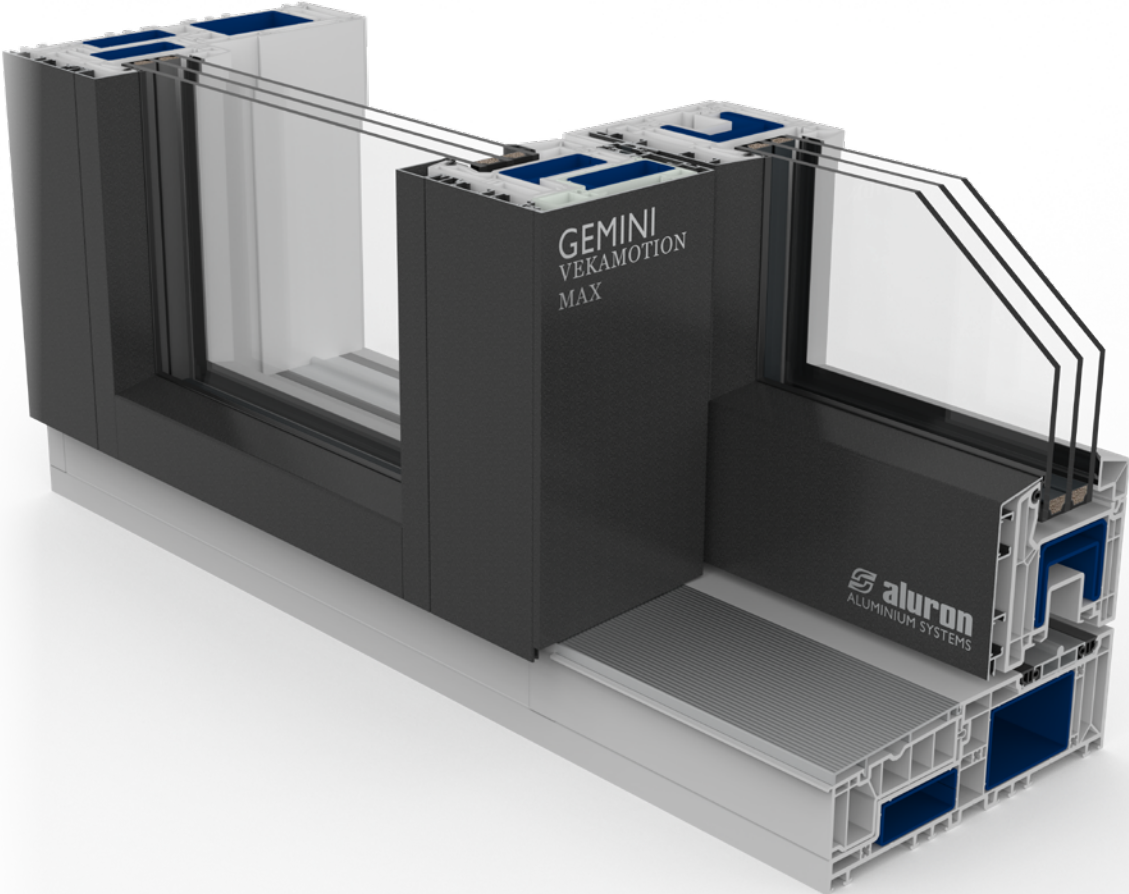


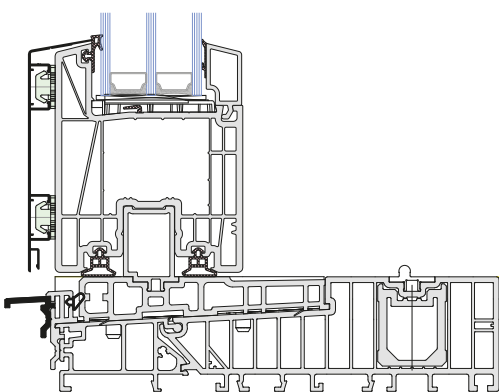
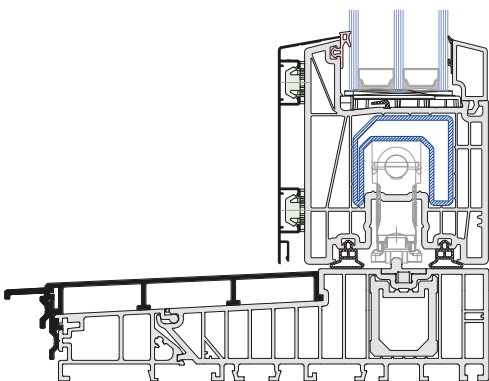
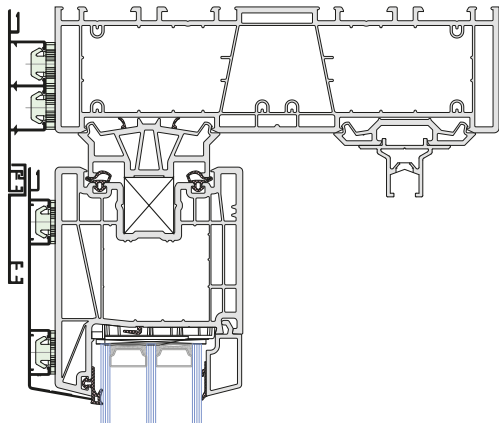
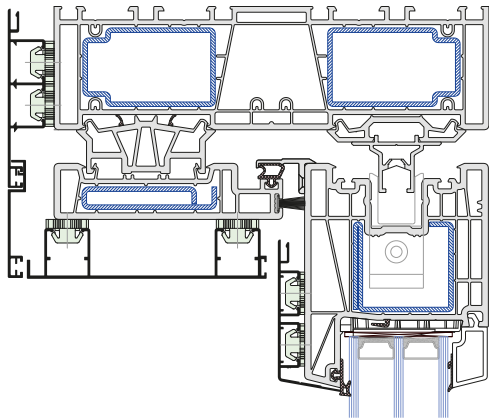


Vertical cross-section through the fixed sash



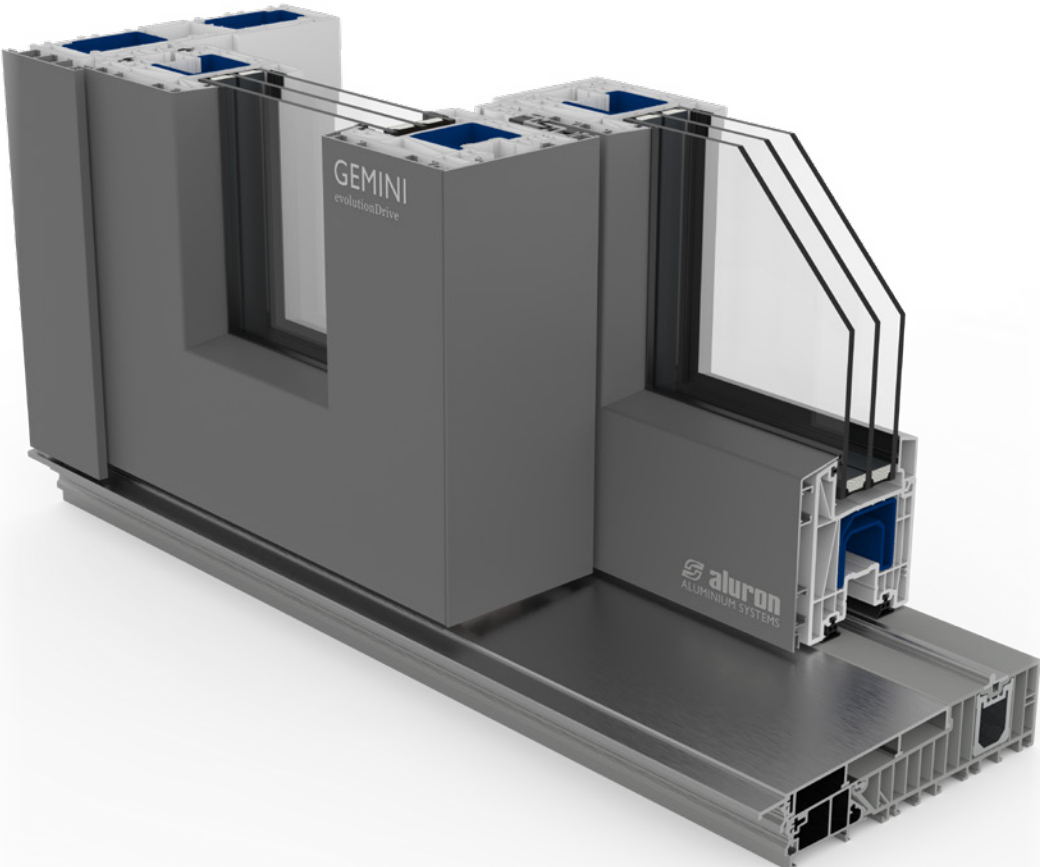
Vertical cross-section through the active sash



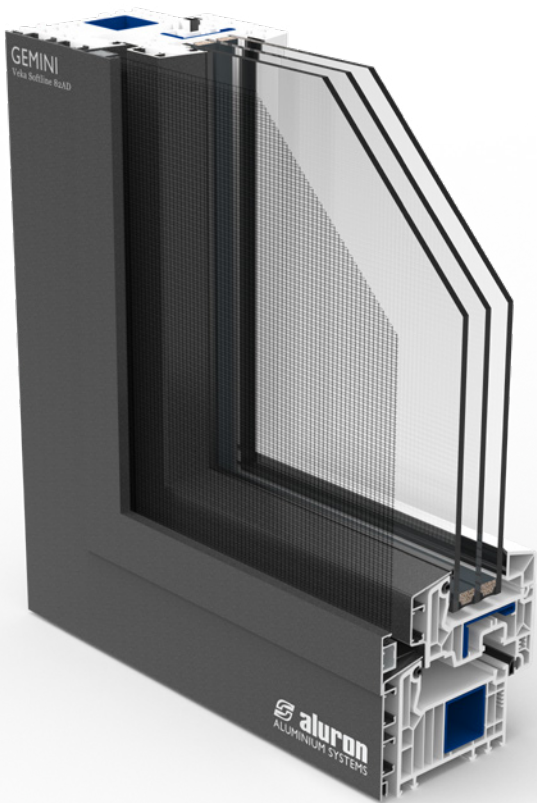


Vertical cross-section through the active sash

Vertical cross-section through the fixed sash

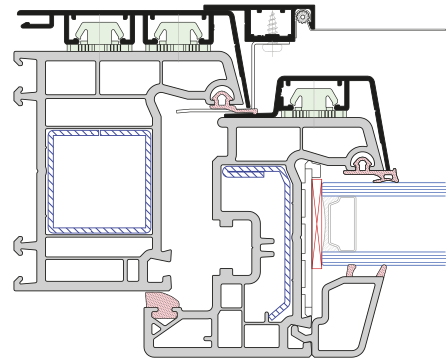


GEMINI INSECTA

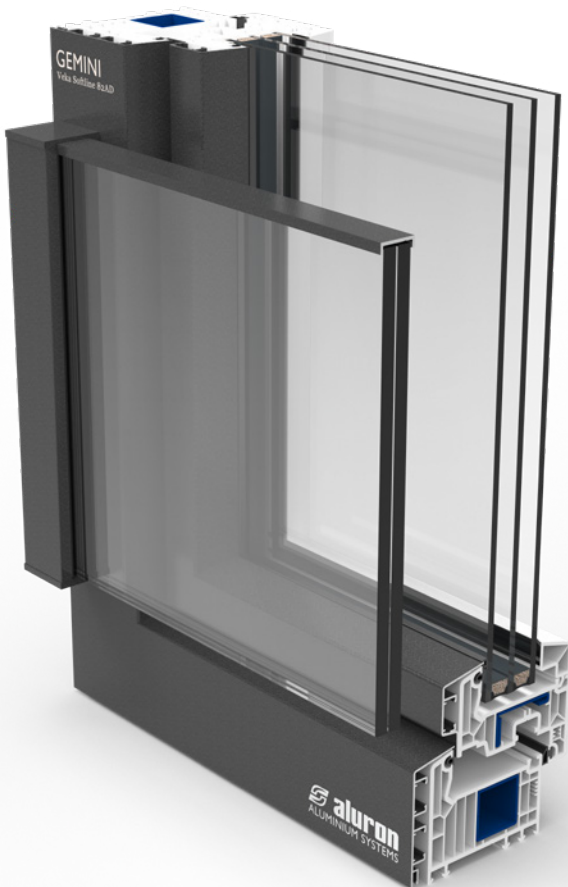


GEMINI INSECTA – Mosquito nets for windows, doors, and sliding doors

The frame mosquito net consists of an aluminium frame, a net with a gasket, a brush gasket, mounting clips, brackets, and hinges. The GEMINI INSECTA mosquito net is offered in a processed form, as a ready-made mosquito net frame, in the ordered dimensions, profile colour, net and the selected equipment.

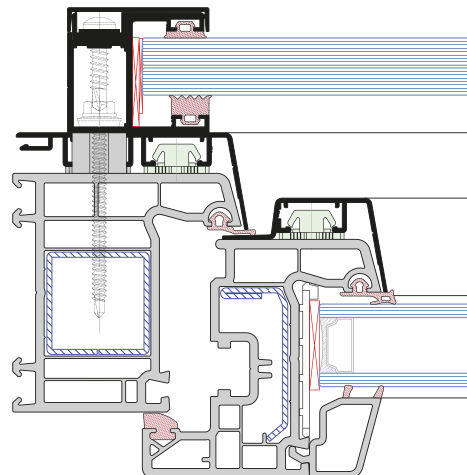


GEMINI VGB



GEMINI VGB – window balustrades

Having a protective and decorative function, also known as French balconies. The open balcony space is separated from the outside and protected by a glass barrier and aluminium profiles system. In system VGB, the overhead aluminium profile is screwed to the window structure from the outside. The offer includes prefabricated aluminium profiles, cut to size, with holes and cuttings provided for assembly and a set of necessary accessories.



READY-TO-INSTALL ALU CLADDINGS WITH WELDED CORNERS

Aluminium profiles can be supplied as ready-to-install frames. The **welding of aluminium frame corners**, offered by Aluron, allows the effect of a perfectly flat, uniform surface, without any visible joining of the material.

WELDING (A)

An innovative way of joining the corners of aluminium frames, resulting in a flat surface with no visible corner joints after painting.

CRIMPING (B)

Alternatively, the **mechanical method of joining the corners of aluminium frames**, using mounting brackets with the cut edges visible is used.

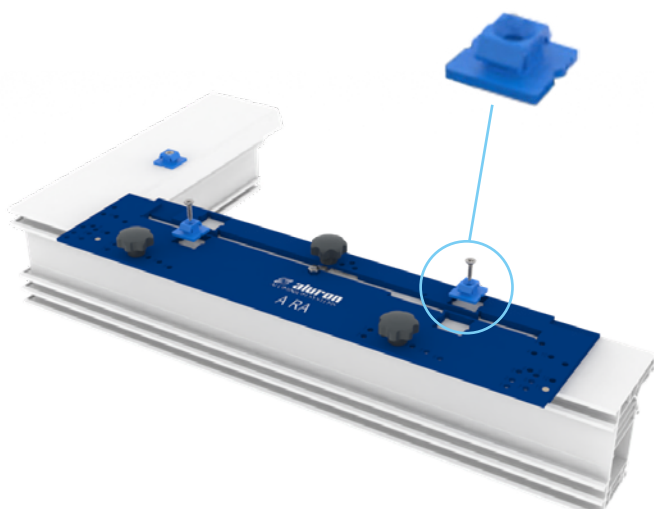


SEPARATE CONNECTION OF ALU CLADDING AND PVC BODY

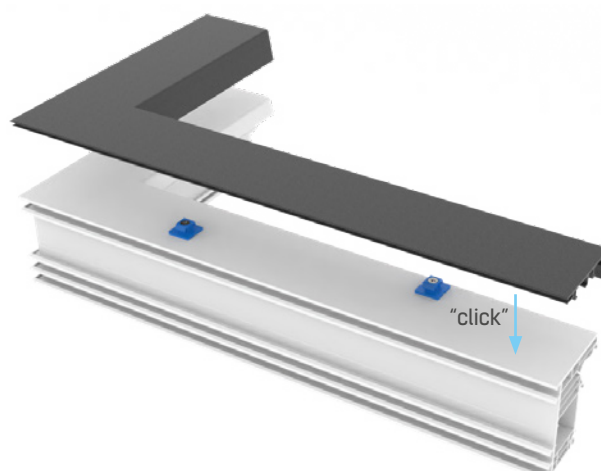
Aluminium frames form an separate structure concerning the PVC window. They are installed with the use of **system clips**, in the final assembly process, after the window has been glazed. This guarantees the separation of the

two different materials, and consequently the correct and safe operation of the window under varying temperature conditions.

GEMINI system clips



GEMINI system assembly templates



Assembly of aluminium frames with clips

CONTROLLED WATER DRAINAGE

Depending on individual requirements, **different types of drainage** are provided. The aluminium end plug offered by Aluron (Fig. 3), can be painted in the colour of the claddings.

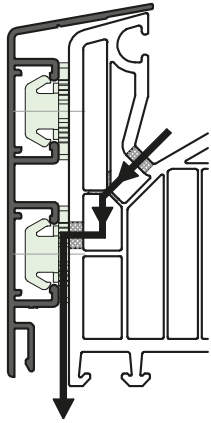


Fig. 1 - Water drainage - front

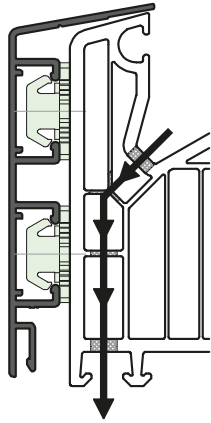


Fig. 2 - Water drainage - bottom

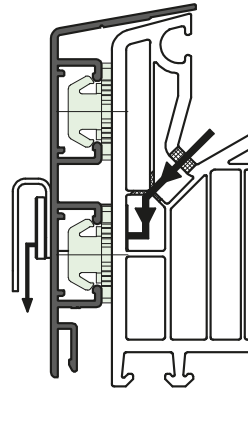
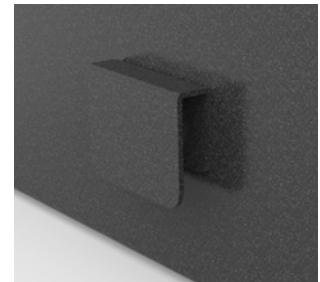
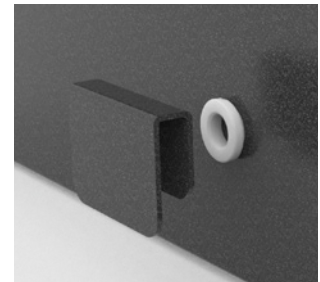


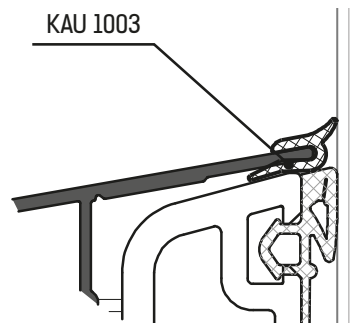
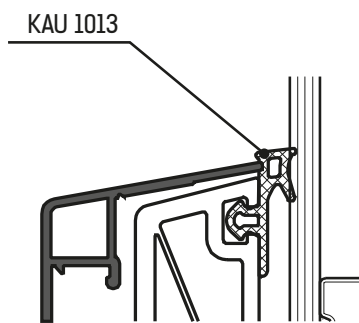
Fig. 3 - Water drainage - front + aluminium end plug



TIGHTNESS

PVC-ALU constructions are distinguished by their exceptional weather resistance and acoustic comfort. To ensure tightness, **original gaskets** supplied by PVC system

manufacturers are used. As an option, ALURON offers **universal system gaskets** that can be used interchangeably or additionally, depending on their intended use.



INCREASED CONSTRUCTION RIGIDITY

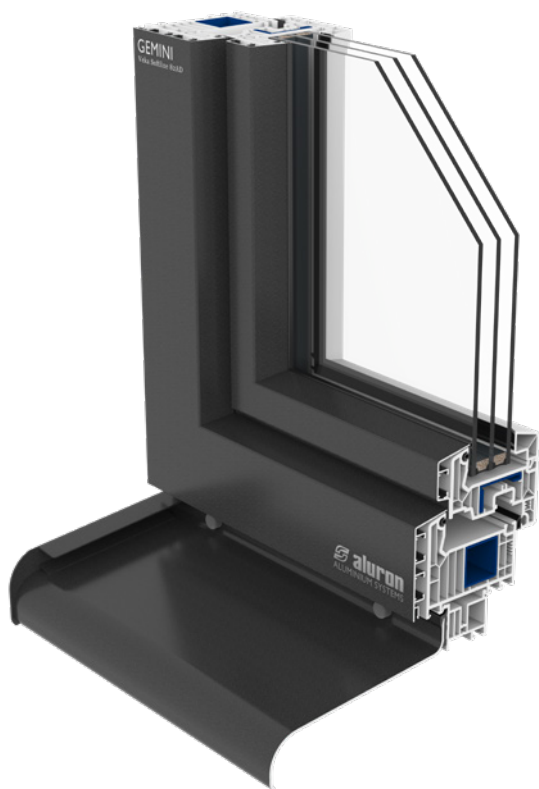
The use of aluminium overlays has a positive effect on the statics of the window or door.

Their application significantly increases the rigidity of the entire element.

This makes it possible, among other things, to manufacture larger windows and doors than those required for PVC construction.



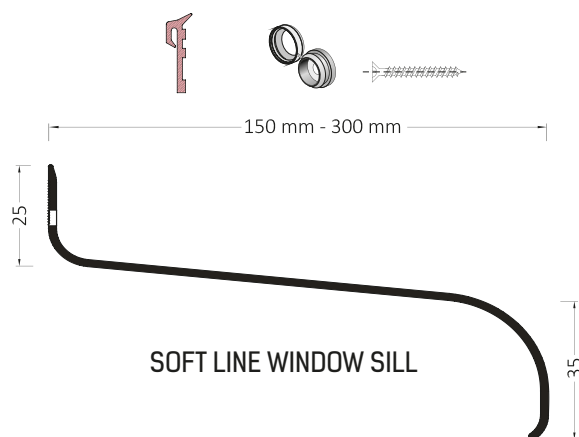
ALUMINIUM WINDOW SILLS



Soft Line aluminium window sill

THE SOFT LINE WINDOW SILL SYSTEM STANDS OUT:

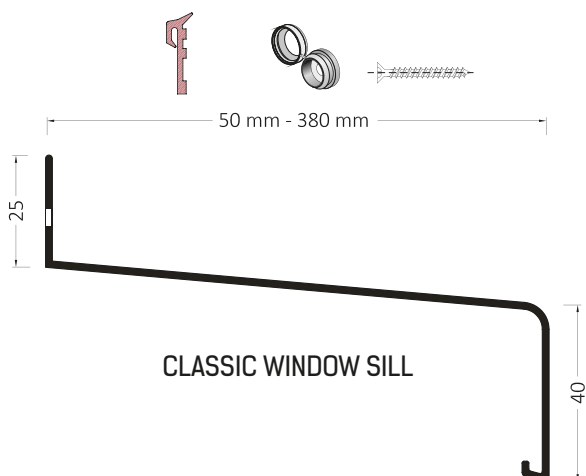
- Rounded shape of the aluminium profiles
- Window sills available in the widths ranging from 150 mm to 300 mm
- Extruded profiles with high rigidity
- Wide range of accessories



SOFT LINE WINDOW SILL

THE CLASSIC WINDOW SILL SYSTEM STANDS OUT:

- Angular shape of the aluminium profiles
- Variable sill widths between 50 mm and 380 mm
- Extruded profiles with high rigidity
- Wide range of accessories including sill support for thermo facade

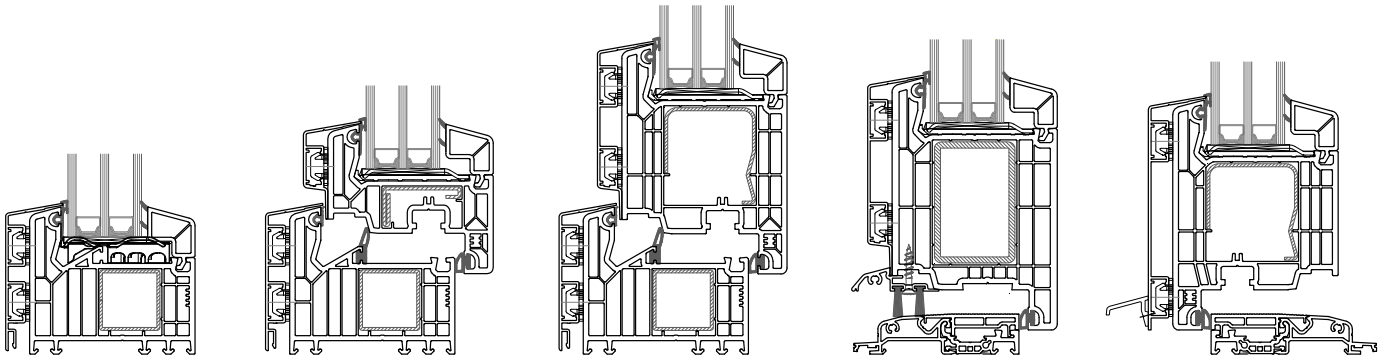


CLASSIC WINDOW SILL

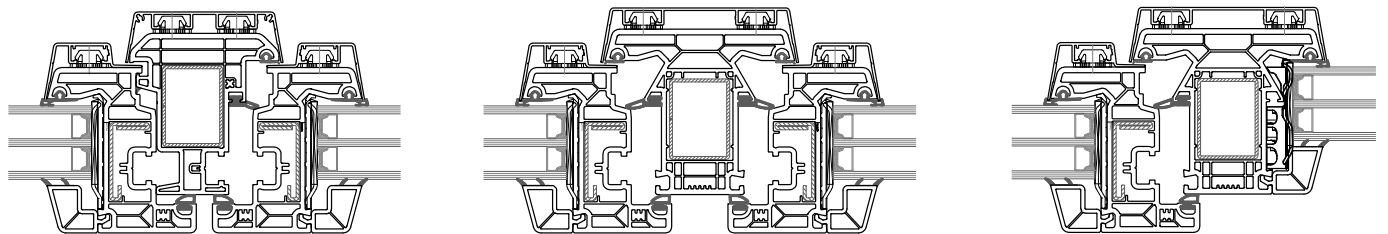


Classic aluminium window sill

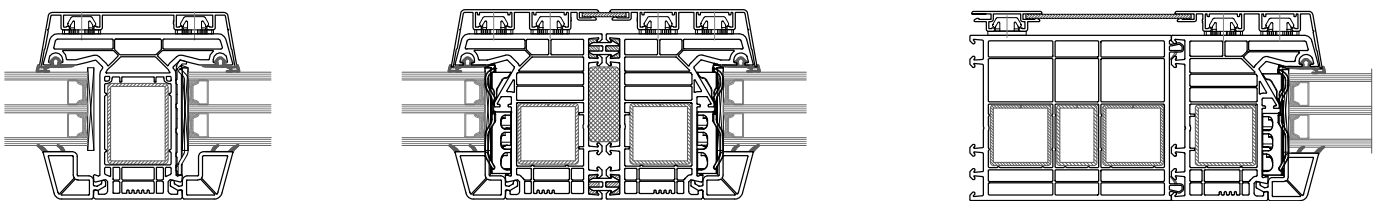
APPLICATION



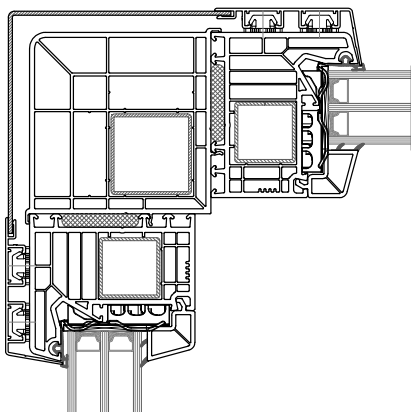
Fixed glazing, single-leaf windows and doors



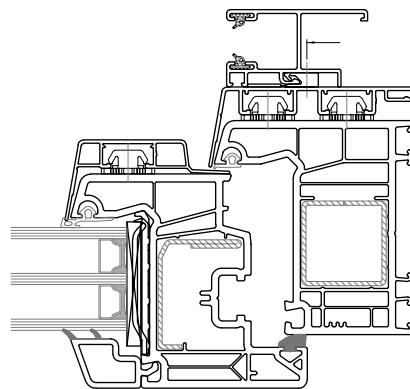
Flying mullion, fixed mullion, transom bars



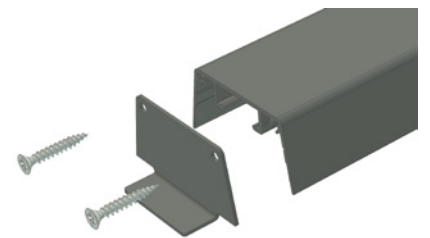
Sash bars, connectors, expansions



Corner profile



Roller-blind profiles



Flying mullion:
aluminium end plugs in the profile colour

ALURON – YOUR BUSINESS PARTNER

SEE MORE!



ALURON plant
employs > 400 people | 30,000 m² of space



Vertical and horizontal powder coating plants



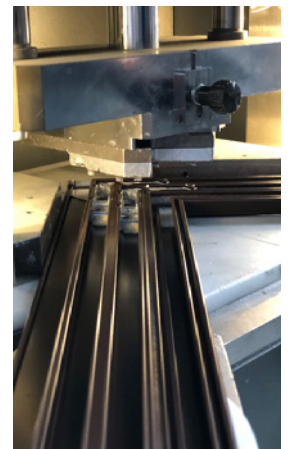
Own vehicle fleet



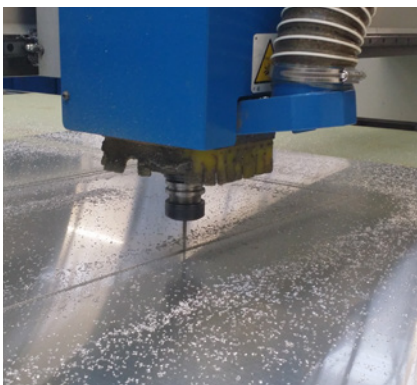
Performance test bench for curtain walls, windows and doors



Welding of aluminium



Manufacture of aluminium profiles and frames



Professional CNC machining



Engineering | Profile design | Toolmaking



The high-bay warehouse



Profile bending and sheet metal folding



Specialised packaging for aluminium frames



COLOURS

Aluminium claddings are characterised by practically unlimited colour possibilities, not available with a standard PVC window. Powder coating in RAL, NCS, a wide range of special colours, wood-like decors as well as anodising is available.

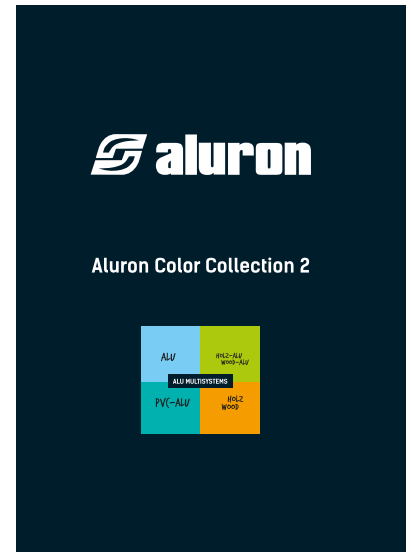
Powder coating

Colours available throughout the range in gloss levels
MAT, STRUCTURE, METALISED STRUCTURE.

Wood imitation – sublimation painting without film.
wood-like decors in MAT gloss level.

ALURON Color Collection 2

ACC 2 is an individual and exclusive colour palette available only under the ALURON brand. It contains more than 60 customised, modern, and interesting colours.



COLOUR GROUPS:

AR – MAT
RAL MAT powder coating



AR – FS
RAL FS powder coating



AM – FS
Metallic FS powder coating



QUALICOAT CLASS 2

ANODIZED & EFFECT COLORS

AA – C anode colours: C0, C33, C34

AA – R anode imitation –
powder coating

AD – MAT
MAT wood-like decors

STANDARD COLOURS:

AR-RAL9005-MAT	AR-RAL1013-MAT
AR-RAL7016-MAT	AR-RAL3004-MAT
AR-RAL9007-MAT	AR-RAL6005-MAT
AR-RAL7042-MAT	AR-RAL5010-MAT
AR-RAL9006-MAT	AR-RAL8001-MAT
AR-RAL7035-MAT	AR-RAL8007-MAT
AR-RAL9016-MAT	AR-RAL8017-MAT
AR-RAL9010-MAT	AR-RAL8019-MAT



Certified powder coating quality

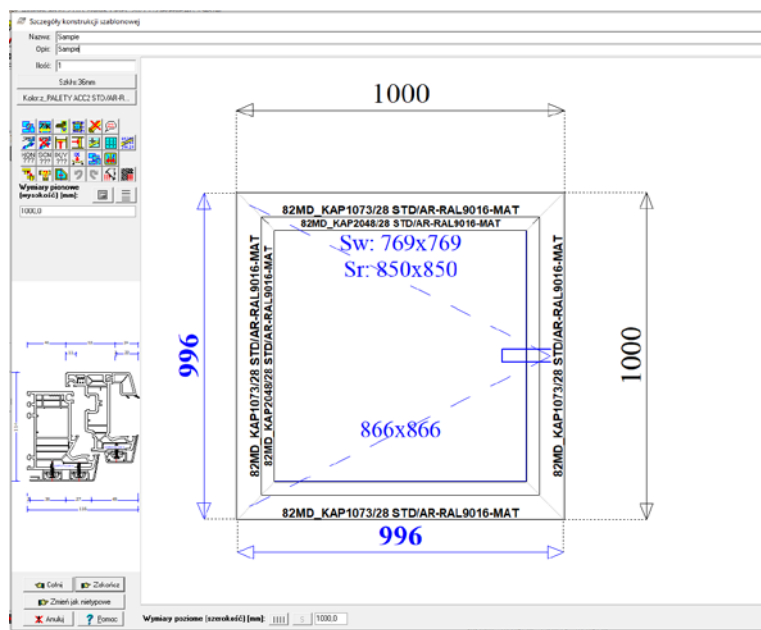


Powder-coated coatings are distinguished by their high resistance to temperature variations, UV or mechanical damage. Powder coating is offered in **QUALICOAT** quality and optionally in **QUALICOAT SEASIDE** for additional corrosion protection.

Surfaces that imitate the structure of wood without the use of typical film (veneer), using modern painting technology based on the phenomenon of sublimation: **DECORAL heat transfer**. Aluminium profiles are also available in anodised versions.

GEMINI for PVC-ALU

Customer software



ALURON proprietary software for quotations and electronic ordering.

System catalogues



Printed and electronic technical catalogues

BENEFITS PACKAGE

FOR THE USER:

- Wide range of colours
- Aesthetics and functionality typical of PREMIUM products
- Welded corners of aluminium claddings
- Improved performance: tightness, weather resistance, acoustic comfort, and structural statics
- Safe operation: separate construction of ALU overlays and PVC body
- Ease of recycling and replacement of the cladding in case of damage: demountable product
- No labour-intensive maintenance

FOR THE MANUFACTURER:

- Complete aluminium system including profiles, clips, end plugs, and other accessories
- Wide range of available designs
- Aluminium claddings can be ordered ready-made, in any colour
- Ease and fast installation in manufacturing conditions
- Also offers window sills, metal sheets and metal sheets folding
- Optional aluminium profile bending
- Proprietary software for pricing and electronic ordering



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