

The advantages of Softline and Duoline systems:

Aesthetics

Innovative design, extraordinary elegance, functionality and vast possibilities to select colors for the interior and exterior thanks to wide color range of aluminum and wood.

Safety

Modern solutions, i.a. innovative Maco Multi Matic KS ferrules, guarantee enhanced burglary protection.

Perfect Quality

The high quality components applied in both systems, i.a. the use of selected wood, guarantee perennial, reliable durability.

Construction stability

Laminated profile for Softline and the solid wood and aluminum construction for Duoline ensure outstanding woodwork stability.

Energy efficiency

Materials and solutions adopted in both systems, i.a. the innovative sealing system, guarantee great thermal insulation parameters:

- for Duoline system - at 0,79 W/(m²K)* level
- for Softline system - at 0,80 W/(m²K)* level

Durability

The applied profile, ecological varnish with primer and impregnation against pest and fungus, and aluminum board that protects the wood against UV rays and water flowing from the glass, ensure perennial woodwork durability and solidity.

* Coefficient calculated with the application of 4/18/4/18/4 - 0.5 W/(m²K) package for reference window Duoline 88 mm /Softline 88 1230 x 1480 made of meranti wood

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Softline & Duoline

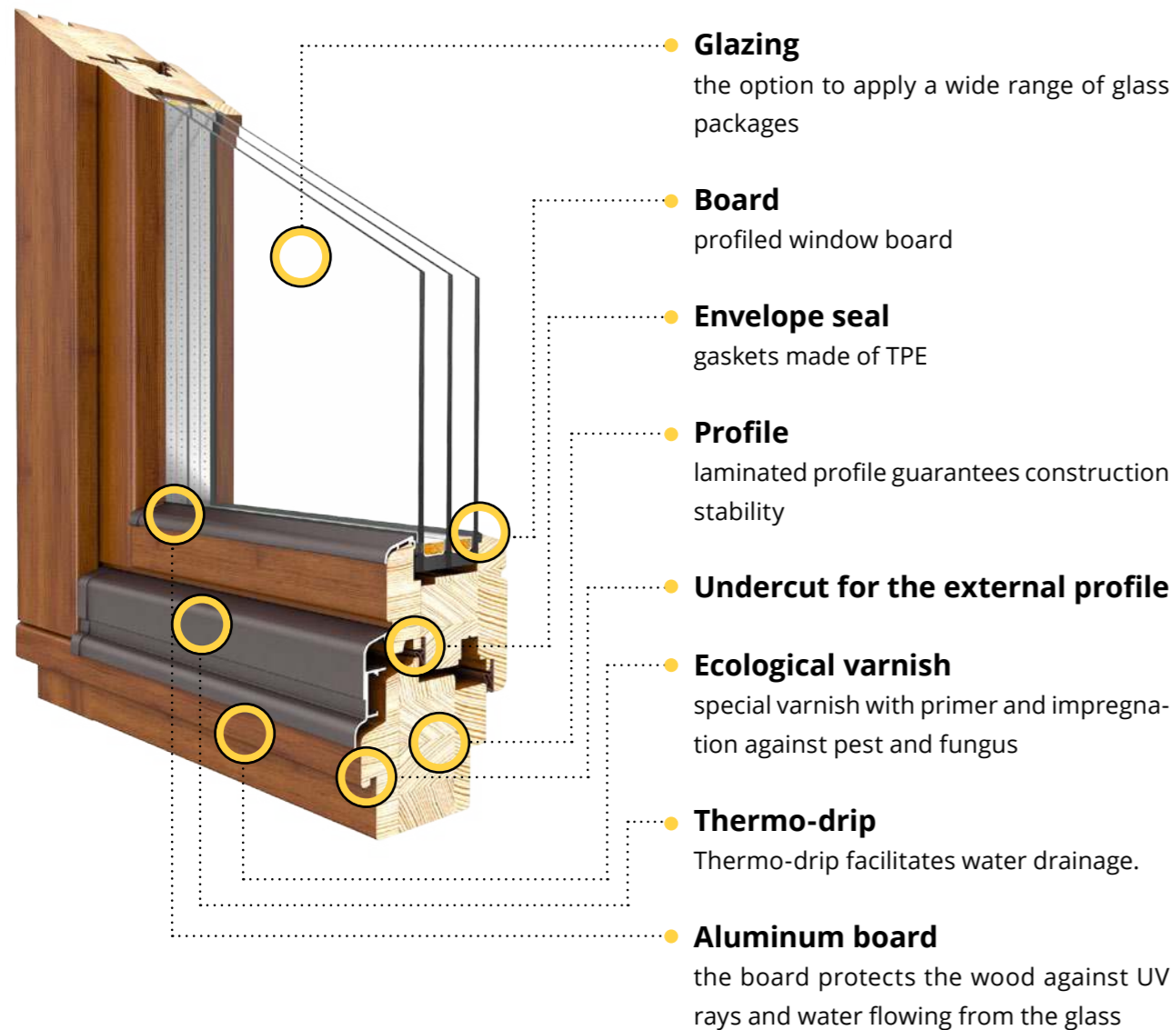
WOOD SOFTLINE SYSTEM AND
WOOD AND ALUMINIUM DUOLINE SYSTEM

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Softline wood system

Windows made in **Softline system**, of pine or meranti wood are an expression of classic beauty and elegance. We offer wood systems of 68 mm, 78 mm and 88 mm depth. The woodwork is made of solid, laminated wood, dried to the proper moisture, with the right density (minimum 450 kg/m³ of meranti wood). The lower sash edges are protected by aluminum drips, and the application of thermo-drip adjusted to the window shape

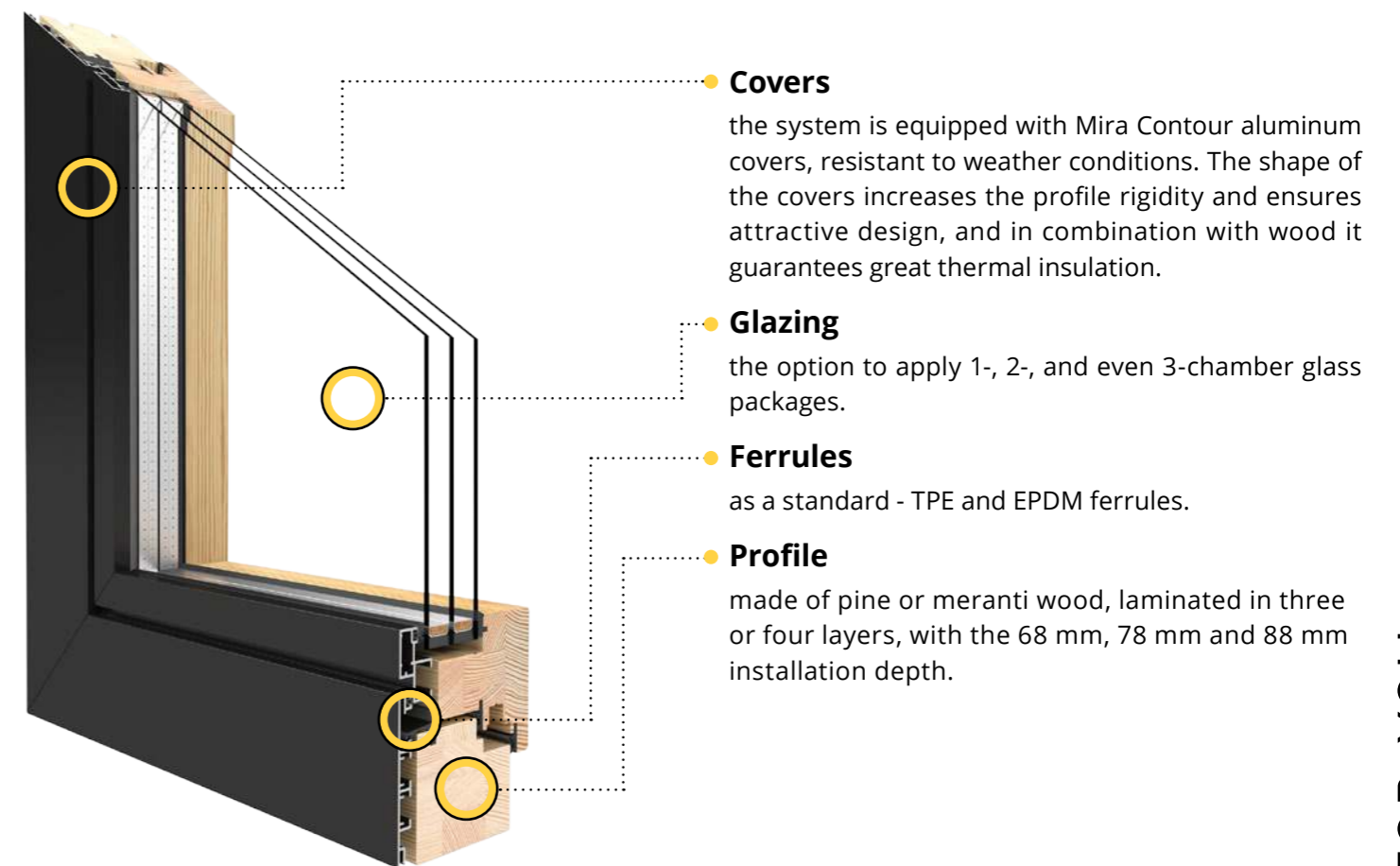
constitutes not only elegant finishing but also perfect protection against the impact of external factors. The system of woodwork painting with the use of opaque, staining varnish, water-thinnable, ensures top-quality coating.



Wood and aluminium Duoline system

The Wood and aluminum **Duoline system** is an expression of innovative solutions offering the perfect combination of aluminum and the aesthetics of wood. The system fulfills the strict requirements of energy efficient and passive buildings. Duoline is characterized by the classic shape of aluminum edges, typical for modern constructions and the latest trends in architecture. The possibility to select pine or mahogany profile and a thickness of 68mm, 78mm or 88mm offer excellent opportunities to create various technical solutions. The external aluminum

cover, resistant to weather conditions and the proper connecting system increase the window stability and improve static parameters as well as energy efficiency and sound insulation. The system offers a wide range of design regarding shapes and colors, which enables to integrate the window with the building façades.



Did you know that...

Duoline system is the result of months of work of the company R&D department and it stands out for modern structure, durability and great technical parameters that comply with the requirements of energy-efficient and passive buildings.



Wooden windows in Softline system have been given the Green Brand award for the extraordinary properties and pro-ecological character.

Terrace systems » Lift and slide HS » DUOLINE HS



HS DUOLINE

Elegant, durable lift and slide doors in wood and aluminum technology.

Features

1. High-quality wooden profiles available in three depth options and in three wood types, ensuring classic look that matches perfectly the flat interior.
2. A number of colour combinations both for wooden profiles and the aluminium clads.
3. A possibility to produce large-size glazing that guarantees access to daylight in the room.
4. Aluminium profile stability and safety combined with MACO fittings.
5. Easy to maintenance and care.
6. Focus on ecology thanks to the application of natural wood and special water-based types of varnish
7. Freedom in interior design cose great selection of covering (RAL) and transparent paints.
8. High level of energy efficiency and sound insulation ensured by the optimum quality of materials used for production, special sealing system and the proper glass packages.

Technical data

Spacer frame	Steel galvanized frame in standard. Swisspacer Ultimate available in various colour options.
Profile	Possibility to choose between three wooden profiles: 68mm, 78mm, 88 mm in three types of wood: three- or four-layer solid square timber: meranti 450+, pine and larch.
Fittings	Lift and slide MACO in standard with two locking bolts and micro ventilation bolt.
Colour range	Great selection of covering (RAL range) or transparent paints.
Gaskets	-
Threshold	-
Reinforcement	-

Two-glass package of 24 mm thickness with thermal transmittance coefficient of $U_g = 1,0 \text{ W}/(\text{m}^2\text{K})$ according to PN-EN674 in standard. The possibility to apply three-glass packages.

- For Duoline 68 mm – max. glass package is 42 mm with thermal transmittance coefficient of $U_g = 0,6 \text{ W}/(\text{m}^2\text{K})$.
- For Duoline 78 mm - max. glass package is 48 mm with thermal transmittance coefficient of $U_g = 0,5 \text{ W}/(\text{m}^2\text{K})$.
- For Duoline 88 mm – max. glass package is 50 mm with thermal transmittance coefficient of $U_g = 0,5 \text{ W}/(\text{m}^2\text{K})$ with three-glass package

Glass with enhanced sound insulation, tempered, safety, anti-burglary, ornament, and solar protective available to use.