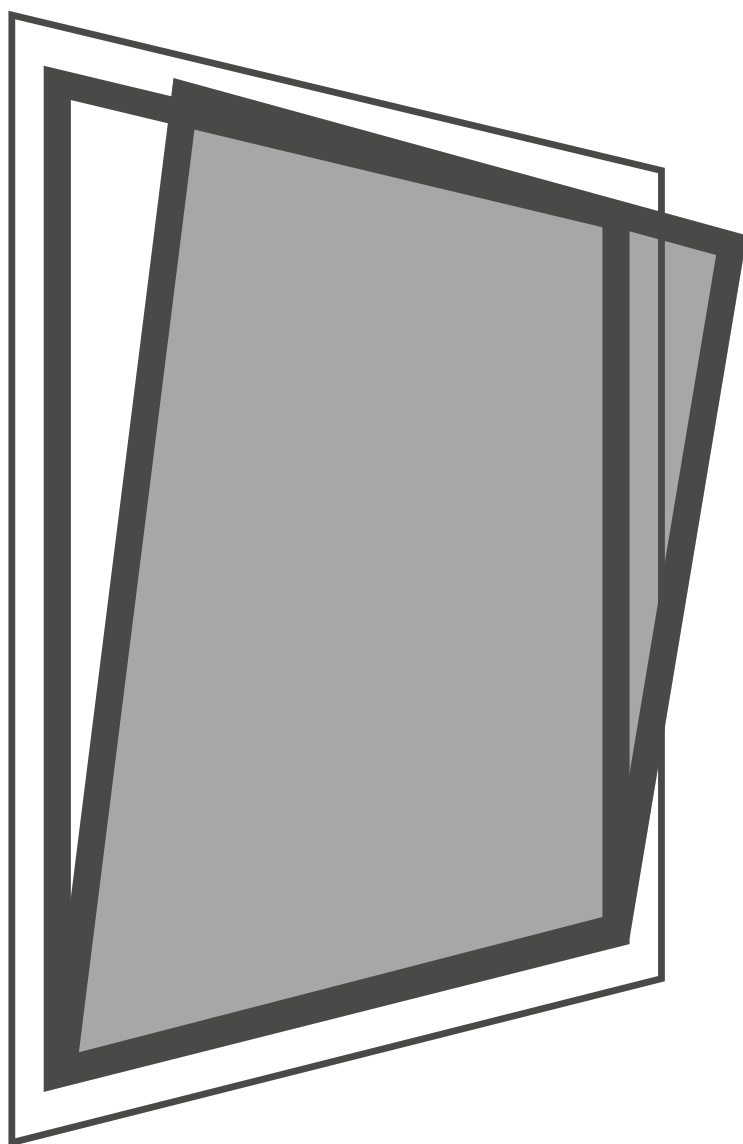


ECOLINE · HIGHLINE WOODLINE · COMBILINE

Windows



PRODUCT DATA SHEET

ALUMINIUM WINDOW SYSTEM

ECOLINE · HIGHLINE



Four-panel bi-folding door with four top lights, as well as one tilt-and-turn window with top light on the right and left

DESIGN VARIANTS

- Fixed, tilt and turn-and-tilt elements possible
- Segmented elements with fixed posts in the frame or attached to one of the elements
- Panel inwards-opening, left or right version possible
- RC2/RC2N version available as an option
- Tilt or turn-and-tilt panel can be integrated into the frame-side hinged panel of a folding system with concealed fittings

FITTINGS

- Fittings for one-hand operation in profiles
- The turn or tilt functionality is realised by a turn-and-tilt fitting
- Choice of surface-mounted or concealed fittings
- Optional operation of the tilt function with rod and hand lever or motorised is possible
- High-quality, stainless steel Solarlux designer handles
- Lock monitoring optional
- The following options can be integrated: Panel lifter, opening limiter and turn lock

PROFILE SYSTEM

- Highly heat-insulated aluminium profile system in two overall frame depths: 67 mm Ecoline and 84 mm Highline
- Edged profiling
- Minimum sight line of the panel profile of 78.5 mm
- Segmented thermal break profile made of fibreglass-reinforced polyamide
- Mitred panels joint connected by corner connections that are glued and pressed together on the inside to create a sturdy joint
- Controlled drainage

SEALING SYSTEM

- The seal encompasses three all-round sealing levels
- Sealing levels are not interrupted by fittings
- Sheathed foam seals with optimum sliding properties
- Available with optional convection chamber interruption seal for improved thermal transmittance
- When using additional insulation or sealing components, up to four individual layers of sealing are possible

Highline profile cross-section

	ECOLINE WINDOW SYSTEM	HIGHLINE WINDOW SYSTEM
Material		
Aluminium	●	●
Wood	○	○
Wood/aluminium	○	○
Profile		
Building depth frame	67 mm	84 mm
Building depth panel	77 mm	94 mm
Sight line fixed element frame	0 - 72 mm	0 - 87 mm
Sight line panel	78,5 mm	78,5 mm
Sight line panel butt joint	173 mm	173 mm
Frame height	max. 2,400 mm	max. 2,400 mm
Glazing		
Glass thicknesses	5 - 36 mm can be used	22 - 60 mm can be used
Dry glazing	●	●
Thermal insulation value		
Thermal transmission coefficient i.a.w DIN EN ISO 10077-1	$U_w \geq 1.17 \text{ W/m}^2\text{K}$	$U_w \geq 0.88 \text{ W/m}^2\text{K}$
Panels		
Panel weight	max. 130 kg	max. 130 kg
Panel width	Min. 800mm, not taking wind and impact loads into account	Min. 800mm, not taking wind and impact loads into account
Special sizes available on demand	●	●
Impermeability		
Resistance to wind load in accordance with DIN EN 12210	B4	B4
Water tightness in accordance with DIN EN 12208	8A	9A
Air permeability in accordance with DIN EN 12207	3	3
Burglar resistance in accordance with DIN EN 1627-1630	RC2/RC2N	RC2/RC2N
Sound reduction index in accordance with DIN EN ISO 10140-2	32 dB	32 dB
Resistance to repeated opening and closing i.a.w. DIN EN 12400	2	2

WOOD & WOOD/ALUMINIUM WINDOW SYSTEM WOODLINE · COMBILINE

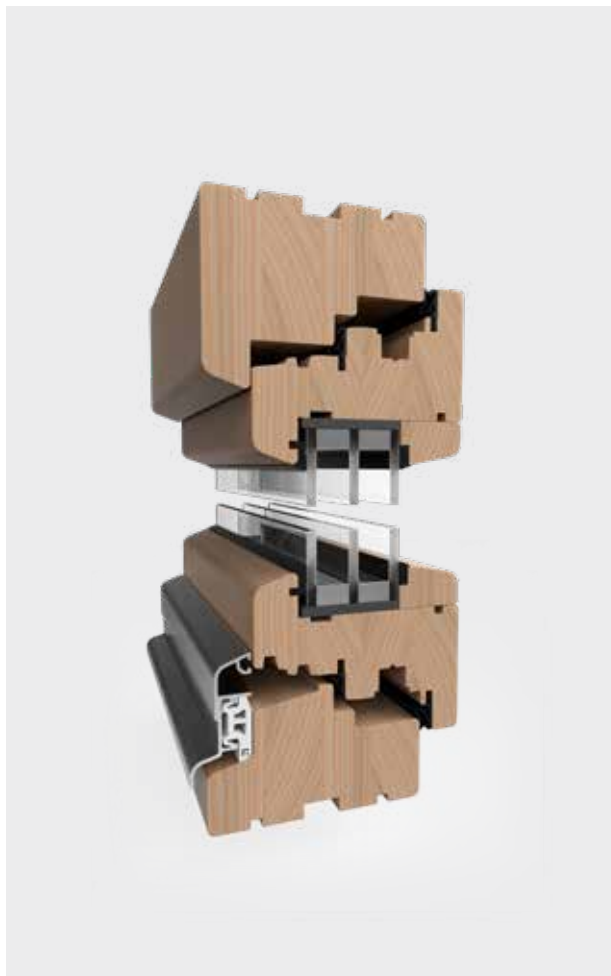


SDL Avantgarde wood/aluminium wintergarden with Combiline bi-folding door as well as Combiline window system with tilt-and-turn element and model panes



SDL Avalis spatial concept with all-glass corner, four-panel Woodline bi-folding door as well as Woodline window system with turn-and-tilt and fixed elements

Woodline profile cross-section



WOODLINE PROFILE SYSTEM

- Thermally insulated Woodline wooden window or door system with 91 mm building depth in the panel and sub-frame profile
- Sight line all round of 72 mm with fixed window or 100 mm with element with panel
- True divided light glazing bars in various dimensions
- Outer aluminium floor cover on the horizontal panel profile can be selected

MATERIAL TREATMENT & PROCESSING

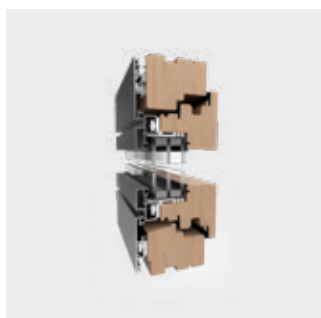
- Multi-laminated, high-quality wooden beams made using selected rifts and half-rifts
- Edged (R2) wooden panel frame profiles
- Frame parts are joined and fixed with a counter dowel connection
- The panels are manufactured with a form-fitted Plug-Tec corner joint. A rounded collet fits exactly into the slot on the counter-piece, and an additional screw connection makes for an even sturdier joint.
- Controlled drainage
- Lower frame profile can be formed individually in different sight lines
- A construction connection of external and/or internal window sill can be provided

Combiline profile cross-sections



MINIMUM PROFILE (MP)

- Panel almost completely covered by an edged aluminium cover (sight line 88 mm)
- In closed position, all-round visible panel line of 10 mm



FLUSH-MOUNTED PROFILE (FP)

- Wooden frame on the exterior completely faced with an angular aluminium cover (68 mm sight line)
- Panel sheathed by a box-shaped profile (25 mm sight line)
- Continuous flush mounting between panel and frame on the exterior

COMBILINE PROFILE SYSTEM

- Thermally insulated Combiline wood/aluminium window or door system with 89.5 mm building depth in the sub-frame profile, with edged aluminium cover on the outside
- Sight line all round of 87 mm with fixed window or 100 mm with element with panel
- The building depths of the panel frames depend on the design variants of the aluminium covers
- True divided light glazing bars with outer aluminium cover, in different sight lines, optional

WOOD & WOOD/ALUMINIUM WINDOW SYSTEM

WOODLINE · COMBILINE

SEALING SYSTEM

- The seal encompasses two all-round sealing levels with constant crack dimensions and even seal pressure between panel and frame
- Sealing levels are not interrupted by fittings (with concealed fittings)
- Additional seal against driving rain vertical on both sides and bottom optional

DESIGN VARIANTS

- Window elements with fixed glazing
- Moving panel with rebate, inwards-opening
- Turn / tilt / turn-and-tilt functionalities
- Single and multi-panel windows and doors
- Two-panel elements as forend or with fixed vertical post
- Fixed elements with same sight line heights as movable panels optional
- When the Woodline window element is coupled with the Woodline bi-folding door, a flush transition is produced between the inner and outer side of the frame profiles, wood-sheathed flat steel is positioned on the inside as static bolt, the static profile is available from solid wood as an option

FITTINGS

- The window/door system can either be executed with surface-mounted or concealed fittings, visible fittings are used for model elements
- Operation is by turning the surface-mounted handle through 90° or 180°
- High-quality Solarlux stainless steel handle in edged design
- Tilt elements can either be operated by an operating handle, a rod with hand lever or a surface-mounted gear with crank
- A visible e-drive with push switch operation is possible as an option

SECURITY































- Lockable window handles can be selected
- Lock monitoring with reed contacts optional
- Broken glass alarm for connection to the on-site alarm system available on request

	WOODLINE WINDOW SYSTEM	COMBILINE WINDOW SYSTEM
Material		
Aluminium	○	○
Wood	●	○
Wood/aluminium	○	●
Profile		
Building depth frame	91 mm	89 mm
Building depth panel	91 mm	96 mm (MP), 105 mm (FP)
Sight line fixed element frame	0 - 72 mm / 0 - 100 mm	0 - 62 mm / 0 - 101 mm
Sight line panel	72 mm	72 mm (FP, MP)
Sight line panel butt joint	160 mm	170 mm
Frame height	max. 2,400 mm	max. 2,400 mm
Glazing		
Glass thicknesses	28 - 48 mm can be used	28 - 52 mm can be used
Dry glazing	●	●
Thermal insulation value		
Thermal transmission coefficient i.a.w. DIN EN ISO 10077-1	$U_w \geq 0.8 \text{ W/m}^2\text{K}$	$U_w \geq 0.8 \text{ W/m}^2\text{K}$
Panels		
Panel weight	max. 130 kg	max. 130 kg
Panel width	Min. 400mm, not taking wind and impact loads into account	Min. 400mm, not taking wind and impact loads into account
Special sizes available on demand	●	●
Impermeability		
Resistance to wind load in accordance with DIN EN 12210	C3	C3
Water tightness in accordance with DIN EN 12208	9A	9A
Air permeability in accordance with DIN EN 12207	4	4
Burglar resistance in accordance with DIN EN 1627-1630	RC2/RC2N	RC2/RC2N
Sound reduction index i.a.w. DIN EN ISO 10140-2	32 dB	32 dB
Resistance to repeated opening and closing i.a.w. DIN EN 12400	2	2

SURFACE TREATMENT & COATING

OUR COLOURS

Solarlux standard colour options, which include around 30 RAL colours, offer all the colours of the rainbow in matt and gloss finishes, at no extra cost. This allows every window to match furnishings and the house design. We use our own in-house coating plant – one of the most modern in Europe – for top surface quality.

 RAL 1015	 RAL 6009	 RAL 7024	 RAL 8019	 RAL 9005
 RAL 3011	 RAL 7004	 RAL 7035	 RAL 8022	 RAL 9006
 RAL 5003	 RAL 7006	 RAL 7038	 RAL 8077	 RAL 9007
 RAL 5008	 RAL 7015	 RAL 7039	 RAL 9001	 RAL 9010
 RAL 5014	 RAL 7016	 RAL 7040	 RAL 9003	 RAL 9011
 RAL 6005	 RAL 7021	 RAL 8017	 RAL 9004	 RAL 9016

SURFACE QUALITY

- Air-conditioned wood storage with automatic air humidification creates the conditions for exceptional surface quality
- The frame and panel bodies are fully machine-primed on all sides, then sanded by hand and finished using a water-based varnish applied by precise coating robots
- Finish in glaze shades, opaque RAL or NCS colours, as well as oiled surfaces as standard with premium quality from Remmers. This enables the Remmers System Guarantee to be obtained. It goes without saying that paints from sikkens, Adler or Teknos can also be used.
- Optionally, selected glaze colours or RAL or NCS colours can be executed with a 10-year guarantee to preserve the surface.
- Aluminium profiles are anodised, fittings are executed with a galvanised surface

ENVIRONMENT

- Sustainable manufacturing
- FSC® (Forest Stewardship Council)
- PEFC™ (Programme for Endorsement of Forest Certification Schemes)
- COC (Chain-of-Custody)
- Certified disposal in accordance with DIN EN ISO 14001: 2009

OPERATIONS

- In-house production control
- Tested in accordance with DIN EN 1090, design class EXEC1 & EXEC2, certified in accordance with DIN ISO 9001



