

The SOLARLUX SDL Aura Glass Canopy is a timber / aluminium profile system with the structural members on the inside. The slim line SVL-Oregon pine timber profiles we use ensure maximum transparency of the roof. The applications are for open and enclosed patio canopies and uninsulated wintergardens or glass houses.

Design features:

- | Roof structure with its structural members on the inside.
- | The timber support structure is fabricated and assembled from DIBt approved SVL-Oregon pine. SVL (structural veneer lumber) is a unique derived timber product made up of longitudinally laminated layers of Oregon pine. The SVL profiles have excellent structural properties and are used in two cross sections, depending on the requirements. A further advantage is that the well-known and proven material glulam spruce (BSH Fichte) can be used.
- | All timber profiles are protected from the weather because of the design of the structure with its overhanging roof glazing and rear-ventilated SOLARLUX aluminium system profiles.
- | All timber profiles come with a coated finish according to the SDL Aura colour chart.
- | The gently curved, powder-coated SOLARLUX aluminium system profiles create an aesthetic unity which is elegant and timeless.
- | Roof pitches of 5 to 25° are possible. Other pitches on request.
- | The design provides for 8, 10 and 12 mm thick laminated safety glass, supported on two sides.
- | The roof glass is fixed onto the rafters with SOLARLUX aluminium system profiles.
- | The roof glass forms an overhang over the outer rafters and eaves.
- | The lean-to design makes the installation easy. The rafters are supported by a T bracket and visibly bolted on.
- | The glazing division bar is interlocked with the rafter. The cascade type drainage system ensures the best possible drainage, also in the area of the division bar should any condensation occur.
- | The supports are SOLARLUX aluminium system profiles which can be set back from the eaves.

Service Features:

- | For design and estimating during the planning stage, structural analysis tables are available on SVL-Oregon pine and glulam spruce (BSH Fichte) for preliminary dimensioning purposes. Structural calculations for the system chosen for the property under consideration can be available at short notice.

- | The measurements for the glass are given with the acknowledgement of the order if the patio roof was ordered to be delivered for on-site glazing.
- | The patio roof is supplied pre-fabricated and pre-assembled which means that installation times are noticeably reduced. The patio roof can therefore be installed on site without much additional preparatory work.
- | The roof system does not require any siliconing.
- | The preferred upright panels for this application are Solarlux SL 20, SL 20R, SL 25, SL 25R, SL 25 XXL, SL 35 and SL 45.
- | A special feature is the direct glazing of the non-standard fixed glazed areas when the patio is turned into a SOLARLUX Glass House. Thus, savings can be made on a window which would have been costly to manufacture.

Coating of timber profiles:

- | Prior to surface treatment all edges are rounded to prevent later peeling of the paintwork.
- | Protection from blue and rot is achieved by dipping in wood preservative which also eases consistent, streak and patch-free colouring of the wood. The treatment also provides specific UV protection.
- | Dip-priming acts as pre-treatment and staining for subsequent coating.
- | Characteristics: water-soluble, consistent surface effect, UV protection, moisture control and rapid drying.
- | The intermediate and final coat is applied by spraying with a water-soluble, highly transparent and satin high-build stain.
- | Characteristics: good weather resistance, high permanent flexibility, easy to clean, without unpleasant odours.
- | Sanding between coats.