

The Solarlux “SDL Akzent Vision” Wintergarten is a thermally insulated aluminium profile system where the structural members are located on the inside. The slim line T-profile design is highlighted by the structural stainless steel ropes making visible the flow of forces, setting new standards in wintergarten design. By installing the appropriate units, glazing, ventilation and shading facilities, the EnEV¹ requirements for heated wintergardens of habitable room standard are met.

Design features

- | The roofing system is fully thermally insulated. Relevant test certificates as required by EN ISO 10077 have been obtained.
- | The gently curved powder-coated profiles create a pleasing sense of aesthetic unity. The design is elegant and timeless.
- | Roof pitches of 5° to 45° are possible. The junction to the wall makes installation work simple. The hinge-type profile joint adapts to the pitch of the roof.
- | The design provides for roof glazing from 28 to 42 mm supported from 4 sides. The glazing rebate depth, glazing rebate ventilation and drainage, all meet the requirements of the glazing industry.
- | Due to the partially perforated 60 mm slim T profiles, a wintergarten of the highest transparency is achievable.
- | A special feature of the “SDL Akzent Vision” wintergarten is the flow of forces made visible by cable bracing and stainless steel components. Where there are special structural requirement the bracing is implemented by a steel understructure.
- | The units are fitted with the necessary distance from supports and the gutter so that expansion of the units due to temperature fluctuations can be absorbed without causing problems. The gap is filled by expanding foam tape (Kompriband) for expanding foam.
- | The units are fitted with the necessary distance between the unit rebates and the supports as well as the eaves. Thus dimensional inaccuracies of the building structure and components are compensated for.
- | The thermally insulated supports with external unit rebate are suitable for all unit thicknesses from 50 to 80 mm and are fitted without any visible screw joints. The beading on the inside is carried out with glazing beads to the supports and the eaves.
- | The side rafters supplied ensure the same thermal insulation below the rafter without any additional beading as with the entire profile system. The 24 mm high rebate at the outside with additional gasket makes it possible to fit the units without difficulty, even under the side rafters. Below the side rafters, the units are beaded on the inside with aluminium strip material.
- | The glazing division bar is interlocked with the rafters and is thus capable of transferring the load from the glass to the rafters. The cascading type of drainage is the most effective way of channelling away condensation that may also be formed in the area of the transom and wall rail.
- | Gutter connectors are used to interlock and clamp together gutters at any angle.
- | For the ventilation of wintergardens, customers can choose high-grade roof-lights which can be operated manually or electrically. In addition automatically controlled metering fans and cross-flow fans can be employed.
- | In order to estimate design costs during the planning stage, tables for structural calculations are available for preliminary dimensioning purposes. Structural calculations for the system chosen for the property under consideration can be available at short notice.
- | The roof structure of the wintergarten is delivered pre-fabricated and pre-assembled which means that installation times are noticeably reduced. The wintergarten can therefore be installed on site without much additional preparatory work. All end pieces are already mounted, the openings for the downpipe, if detailed, drilled, the bolted joints of the rafters pre-drilled and bolts / connectors inserted into the profiles and all ventilation holes drilled. The adjustable foot plates make an exact alignment of the roof structure easy.
- | The well-proven roofing system does not require silicoining.
- | The precise dimensions of the units are available from the drawings of the order acknowledgement and can be used for the manufacture of the units which can take place concurrently and would be available at the time of delivery of the roofing structure. In the case of single-pitch roofs, the dimensions for the glass are provided with the order acknowledgement. In the case of other types of roof, the dimensions are made available approximately 1 week prior to delivery. Thus the installation of the complete wintergarten comprising of roofing structure, glazing and units can take place in one go. Thus installation costs are reduced and end users guaranteed satisfied.
- | Preferred upright units are Solarlux SL 60e, SL 70e, SL 80 / SL 81 and SL 82.

¹ EnEV German energy saving regulations (Energieeinsparverordnung)