

## Introduction

The Levolux 9000 range of Aerofoil Fins provides an extremely efficient external sunscreening system that can also enhance the architectural appearance of a building.

Levolux 9000 Fins are non-retractable and can be installed to provide protection to vertical, horizontal or inclined glazing. They can be installed in a fixed position or can be adjustable manually, by motor with switch control, or with a fully automatic system, which can be integrated into the Building Management System.

A fully automated Levolux 9000 Fin system can reduce solar heat gain through the shaded area by up to 95%.

## Features & Benefits

**Aesthetically pleasing** - Fins are manufactured from extruded aluminium sections with aluminium end-caps all of which can be anodised or polyester powder coated to co-ordinate with the building and surroundings.

**Virtually maintenance free** - Stainless steel fastenings and fixings are used, producing a virtually maintenance-free and corrosion-resistant system.

**Reduces energy costs** - The ability to limit solar heat gain can reduce or even eliminate the need for air conditioning.

**Comfortable environment** - Large Aerofoil Fins allow a significant level of natural daylight into the building whilst reducing solar gain. Additionally, the wide spacing allows good outward visibility with less clutter to the sight line. Furthermore, they fit in well with the concept of natural ventilation, and provide excellent control of the internal environment if controlled automatically or linked to the Building Management System.

**Flexibility** - Fins can be installed on new buildings or as part of a refurbishment of an existing building.

**Accessibility** - In order to provide access for maintenance, Levolux 9000 Fins can be integrated into a complete façade system, incorporating walkway, handrail and latchway system.

## The Range

Levolux Aerofoil Fins are available in varying widths from 100mm to 500mm as standard, other sizes can be considered, as can different shapes and materials (for example, steel, timber and glass).

Due to the flexibility of the system, it is generally possible to design solutions to meet the specific requirements of the architect and client.

## System Construction

All components are subject to rigid quality standards and are designed to produce a high performance product with an aesthetically pleasing finish. The main components of the Levolux Aerofoil Fin systems are:

- **First fix brackets** • **Support arms** • **Support structure**
- **Fins** • **Walkway (optional)** • **Control (optional)**.

• **First fix brackets, support arms and structure** can be manufactured from either steel or extruded aluminium, dependant upon each application's building needs and loadings.

• **Fins** are normally manufactured as one piece extruded aluminium sections up to a maximum width, at present, of 500mm. Multi part fins are also available for generally larger width requirements.

Fabricated and perforated fins can be made available in any size dependant upon their location on the structure.

Timber fins can also be supplied in various sizes and profiles.

Our standard range of fins is shown on the back page of this brochure. Nevertheless other sizes and profiles can be considered for particular project requirements.

The method of "fixing" the fins once again can vary greatly depending on the façade and structural requirements together with the degree of shading required. A number of possibilities are shown opposite.

• **Walkways (optional)** can be either steel (grid type) or extruded aluminium "T" sections.

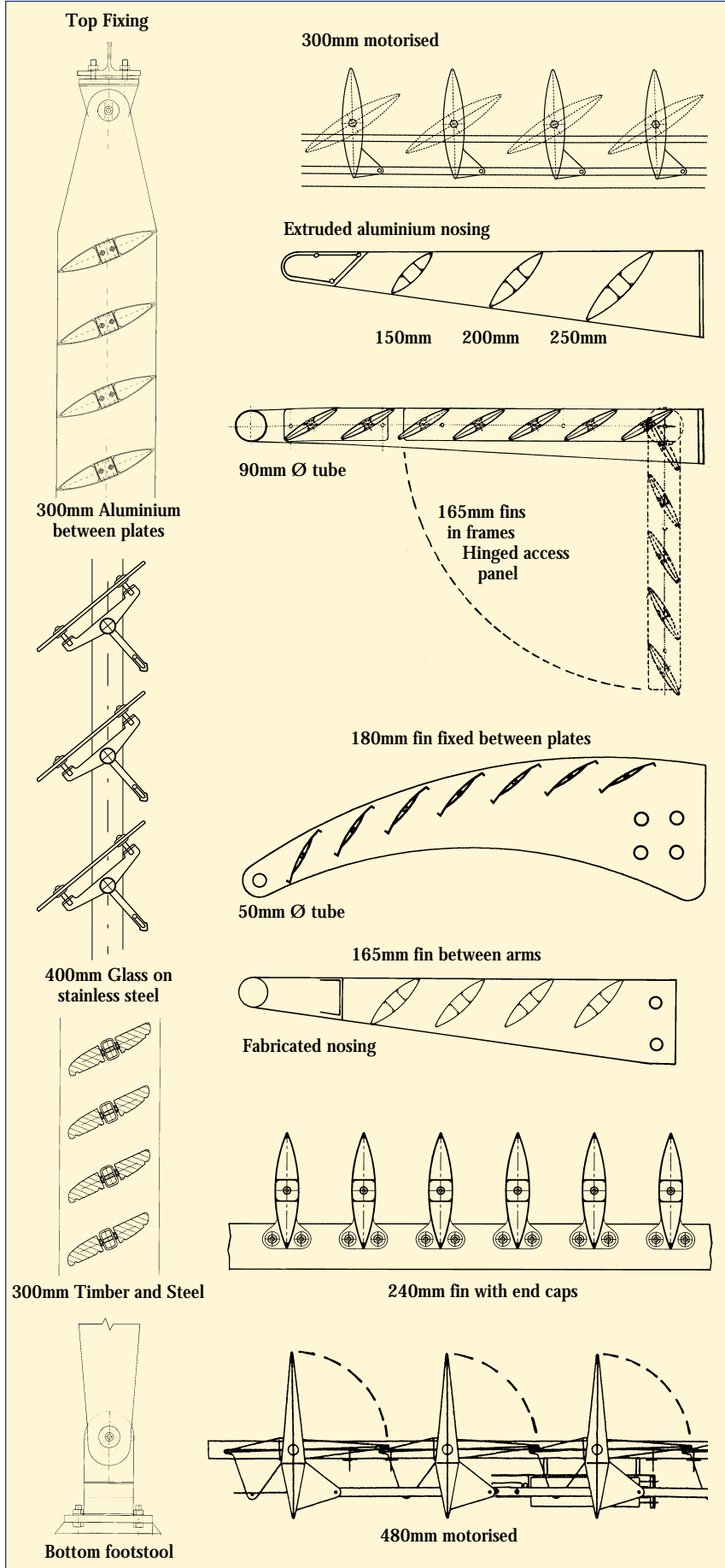
• **Controls (optional)** of various types are available to provide manual, motorized or fully automatic operation. Automatic controls can be stand alone or integrated into the Building Management System.

Aluminium systems can be provided in a wide range of finishes including mill, anodised or polyester powder coated. Steel components can be supplied in stainless steel or can be manufactured from mild steel with a galvanised and/or multi-pack paint finish.

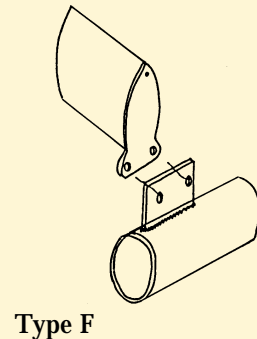
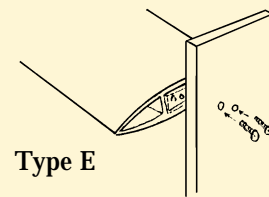
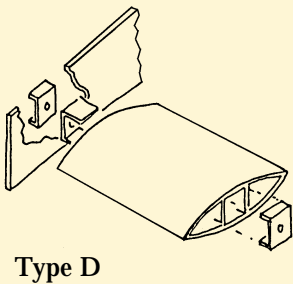
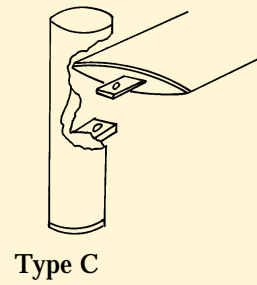
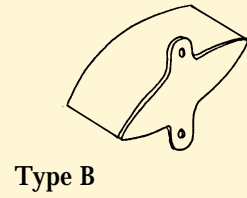
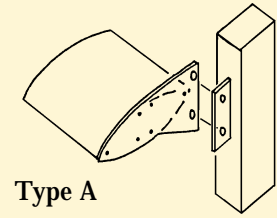
## 3 Year Warranty

All Levolux systems are made of a high-grade material to exacting specifications. This enables us to offer a guarantee providing free of charge replacement parts should any system prove defective within 3 years of installation. This guarantee is conditional on manufacturer's recommended fitting and operating instructions having been followed.





**Typical fixings\***



\*These are indicative only. Many other methods of fixing can be designed to meet specific building requirements

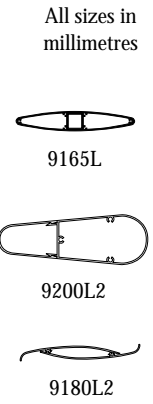
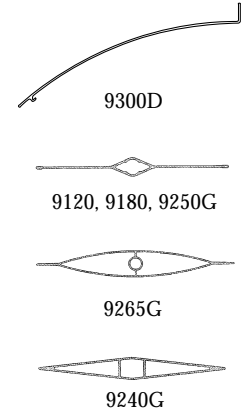
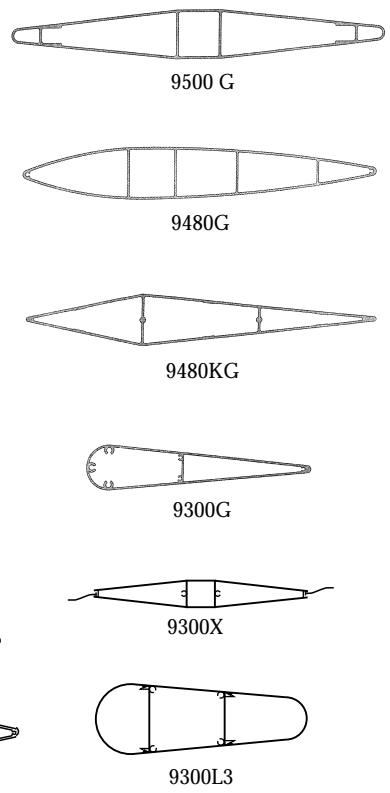
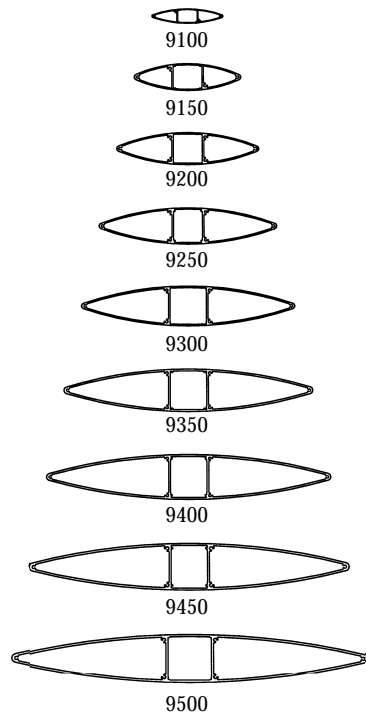


# LEVOLUX

DESIGNED TO CONTROL

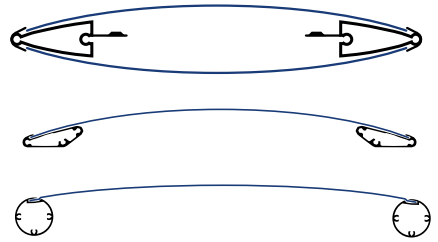
**The Range:**

**a) Extruded profiles**



All sizes in millimetres

**b) Fabricated systems**

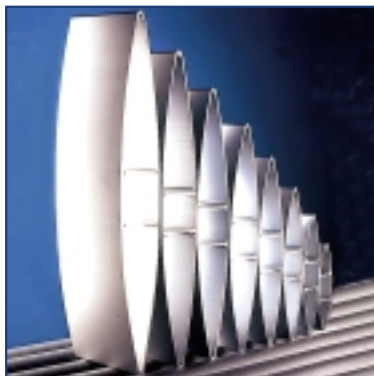


Fabricated Fins, single or double skinned will have nosings designed to suit varying widths.

**Specification**

**Item: External Sunbreaker Fins**  
 External Sunbreaker Fin System to be Levolux 9000 Fins in natural anodised/polyester powder coated\* finish from the Levolux colour range. Colour to be .....+  
 System to be at ..... %adjustable\* with handle and gearbox operation/electric operation\* with switch/ fully automatic\* solar control.  
 Levolux fins to be .....mm in width+, No .....+ from the Levolux standard range.  
 Framework and support system to suit.  
 To suit glazed areas .....mm wide by .....mm high+ all in accordance with glazed area as detailed on drawings Nos.....+  
 Supplied and installed by an approved Levolux distributor. + Insert as applicable \*Delete as applicable.

In line with the policy of continuous product development Levolux reserves the right to alter specifications without prior notice.



**For further information on Levolux sunscreening systems and effective ways to control light, heat and glare please contact:**



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