

# **Operation and Maintenance Manual**

Product: Aero Dual Electrical Access standard  
Description: Hinged opening flat roof glass skylight  
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### **General Maintenance & Safety**

In order to maintain your Aero in optimum condition, to prevent invalidating your warranty and increase the life expectancy of the unit you should observe the following points:

- Do not load the glass in anyway, as this may cause damage to the glass and/or framework.
- Do not walk-on the glass – this may cause damage to the glass and/or framework and potentially severely injure the individual.
- Do not use any abrasives or aggressive cleaners on the unit, these products could adversely affect the powder coated finish and glass.
- Under no circumstances should a high-power pressure washer be used to clean the skylight.
- Sunsquare Limited recommend bi-annual general inspections (where possible), you should check the following items:
  - That the perimeter silicone seal (between frame and glass unit) is sound – that adhesion is good and that no cracking or gaps have appeared. In the very unlikely event of discovering a perimeter silicone seal that has deteriorated, Sunsquare Limited should be contacted.
  - This would be an ideal opportunity to clean the outside of the unit (see page 4).

## Cleaning the unit

### **Glass:**

- To clean the glass, any domestic glass cleaning product can be used.
- Use a clean, lint-free cloth for the application of the cleaning product.
- When cleaning the outer glass pane:
  - If the outer pane is particularly dirty, it may be necessary to firstly clean the glass with a mild soapy solution, and then use the glass cleaning product. Again, use a clean cloth and be careful not to mark the glass with the debris as it collects on the cloth – make sure a clean section of the cloth is being used at all times.
  - Avoid unnecessary contact with the perimeter silicone seal.

### **Aluminium framework:**

- A mild soapy solution should be used to clean the powder coated aluminium framework.
- Use a clean, lint-free cloth for the application of the cleaning product.
- Ensure that a clean section of the cloth is being used at all times, if debris collects on the cloth this could potentially affect the powder coated finish of the aluminium framework.

### **Notes on “water ponding”:**

Water ponding on the glass will, over time, cause unsightly watermarks to the outer pane of the double glazed unit.

Water ponding occurs when water collects and is not able to run-off the outside pane of the glass, there are two main reasons that this will occur:

- The glass has been installed too flat (not at the recommended 5 degree pitch).
- There are “water traps”, such as glass mounted flashings – which prevent water run-off.

The SkyView product has been specifically designed to allow water to easily run-off the glass, as the glass unit is structurally bonded to finish flush with the aluminium frame, and therefore there is nowhere for water to become trapped e.g.: glass mounted flashings.

In order to allow the rain water to effectively run-off the glass, we recommend installing the SkyView skylight on an upstand (or kerb) which incorporates a minimum pitch of 5 degrees.

Our fully insulated upstand incorporates the recommended 5 degree pitch; therefore, if you ordered your SkyView with our upstand, water ponding will not occur. You can of course, construct your own upstand, and providing a 5 degree pitch was incorporated then water ponding should not be an issue.

## Electrical Operation

- Aero Dual Electric Access skylights are fitted with 24V actuation system which is powered & controlled via dedicated control panel or higher (depends on specification) control panel as standard.
- Aero Dual Electric Access optionally are supplied with additional PSU 24V 1500VA/900W 7,2Ah battery back-up, which allows to operate the unit in case of mains power cut off.
- **Only Control Panel Supplied by Sunsquare with the unit should be used to operate the skylight.**
- Electrical installation (wiring) of the skylight, Control Panel & any additional (optional) devices can be performed exclusively by competent and qualified technical personnel, satisfying the professional & technical requirements foreseen by the laws in force in the country of installation.
- **Duty cycle of the actuators is 10% of the Aero Dual Electric Access, which means after the full open & close cycle (up to 2Min.) the rest (motors cooling) time is 18 minutes.**
- For use of any additional/optional equipment i.e. rain/wind sensors, remote control, digital keypad etc. please refer to its separate manual instructions issued by the manufacturer.
- Supplied standard indoor 3 button switch allows to open/close the skylight and also stop both operations in any position.
- Key Lock (optional) is designed to prevent unauthorized persons to access the roof by cutting off the 3button switch operation.
- Automatic Opening Ventilation units are supplied with additional connectors to accept the open/close command from third party Fire Alarm system, any potential free relay switch can be used to trigger the open/close operation. This will override indoor switch and key lock.

### **WARNING: MOVING PARTS!**

DO NOT ATTEMPT TO CROSS THE SKYLIGHT DURING OPERATION!  
DO NOT TOUCH ANY PART OF THE UNIT UNTILL THE LID IS STATIONERY.  
FAILURE TO THIS WARNING MAY CAUSE SERIOUS INJURY.

### COSHH & Safe Disposal

#### **COSHH:**

There are no hazardous materials used in the construction of the Aero product.

#### **Safe Disposal:**

Sunsquare Limited is committed to preserving the worlds resources, and only design products using sustainable and recyclable materials. When disposing of an Aero Access product please recycle wherever possible.

The following materials are used in the manufacture of the Aero Access:

Framework	Aluminium Polyamide insert (thermal break)
Base-framework	Aluminium Polyamide insert (thermal break)
Actuation	24v piston actuation
Framework capping	Aluminium
Insulating glass unit	Toughened glass panes, Laminated Glass Aluminium spacer bars
Upstand	Plywood Celotex Insulation Board
Fixings	Frame: stainless steel screws Upstand: galvanised steel angle brackets & BZP screws.