

**McKINNA**

# **SUNBLADE AIR SHROUD**

## **MAINTENANCE GUIDE**

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**Environmental Factors**

Cleaning, care, and maintenance is essential to preserve the fine finish of powder coat and to ensure the original performance characteristics are maintained.

The frequency of recommended cleaning will vary depending on ultraviolet light, grime deposition and attack by contaminated moisture which in a coastal environment contains chlorides and in an industrial or urban environment contains chloride and sulfur compounds. Deposited grime such as salt, sulfurs, dirt, and other compounds absorb moisture like a sponge and hold it against the powder coated surface thereby damaging and attacking the coating.

The contaminated surface deposits embed into the coating over time causing more permanent damage which cannot be restored.

**Maintenance**

Powder coated goods must be maintained in accordance with the powder manufacturer's data sheets/tech sheets as per your specified colour.

Areas where salts, pollutants and high corrosivity levels are prevalent should undergo a more frequent cleaning schedule.

At the very minimum cleaning should be done at three-to-six-month intervals (depending on location i.e., Seaside or inland, rural, or industrial etc. In industrial and marine environments, monthly cleaning is advisable; however, the maximum period between cleanings should never be more than three months.) and is often part of the regular cleaning program associated with items such as the windows or balustrades of the property if deterioration of the coating is to be prevented.

**Routine Inspection**

The extent and nature of maintenance will depend on the design of your site area, its geographic location, the amount of weather and sun exposure, and the landscaping near your product. As a guide, it is recommended that normal care and maintenance tasks include:

1. The product and coating is to be inspected every twelve months by the customer and McKinna Group notified of anything unusual that has occurred on the coating surface. It is recommended that a maintenance program should be initiated to remove dirt, dust grease, graffiti or other pollutants, as indicated below.
2. It is to be understood that minor fade or colour changes may not be uniform if surfaces are not equally exposed to the sun and elements.
3. Record Keeping – Log of maintenance carried out in line with recommended areas as above.

**Product Care**

1. Carefully remove any loose surface deposits such as dust with a wet sponge/cloth (non-abrasive) and rub/clean gently.
2. Clean by gently rubbing the surface with a nonabrasive brush diluted with a nonabrasive pH-neutral detergent solution. Most marks or surface contaminants can be removed using a warm water and pH neutral detergent solution.
3. Rinse the surfaces thoroughly after cleaning with clean fresh water after to remove all residue.

**General Warning**

Solvent solutions, agents or abrasive type cleaning products should not be used for cleaning powder coated surfaces as this will severely damage the surface of the material. Do not rub surfaces excessively.

Powder coated aluminium components such as shrouds, are delivered to the building site as finished products. Because of the susceptibility to damage of the coated materials during transportation and installation, special care is necessary in handling the products.

Powder coated aluminium components in storage, or on building sites, should be

(a) Protected from physical damage; and

(b) Stored in a dry location, with spacing to allow the circulation of air between coated surfaces.

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## Compliance

It is the responsibility of the customer to ensure compliance with specific project requirements, wind ratings and that the structural integrity of the building and substrate structure is suitable for connection of the shroud.

Please ensure all installation instructions, fixings and drawings are reviewed and confirmed by the site engineer. McKinna Group does not supply a site specific certificate of engineering as standard.

## Standard Products

Maximum Height and Widths of the product order may be limited by and/or determined by combinations that exceed engineering, material length and/or powder coat limitations.

Customised orders that are made outside of the standard product configuration restrictions of SUNBLADE SHROUD are not covered under this documentation and standard warranty.

## Dissimilar Separation

Dissimilar material separation should be encouraged. To prevent galvanic corrosion, dissimilar metals need to be isolated from each other and not in contact. Contact between dissimilar metals in the presence of moisture, dampness, and humidity such as an electrolyte e.g., salt water, can create galvanic corrosion that may cause a material to be eaten away by corrosion.

## Order Terms & Warranty

All orders are subject to our Terms and Conditions of Trade. Standard Product Warranty is subject to conditions for more details please visit:  
[mckinnagroup.com.au/orderterms](http://mckinnagroup.com.au/orderterms)  
[mckinnagroup.com.au/warranty](http://mckinnagroup.com.au/warranty)

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## Chemical Compositions

Chemical compositions, mechanical properties, tempers and other characteristics certifications, product certifications, data sheets and/or test certificate requests must be made expressly in writing prior to purchase order generation by the customer or at the quotation stage.

Chemical compositions, mechanical properties, tempers, and other characteristics may vary batch dependent.

## Coatings

Finishes and coatings may vary depending on batch from manufactures and its strongly recommend that materials required are processed in one batch and installed in one sequences and direction to minimise finish and coating variations. Access to warranty finishes and coatings must be requested prior to order acceptance due to factors and applications which must be approved prior by suppliers.

## Tolerances

Tolerances to be achieved should be as per general tolerances below:

Fabrication General Tolerances

Fold to fold and fold to edge distances  $\pm 2\text{mm}$

Fabricated dimensions  $\pm 2\text{mm}$  per 1000mm

Angular  $\pm 2^\circ$

Out of straightness 2mm per 1000mm

Flatness Deviation  $\pm 4\text{mm}$  per 1000mm

General Arrangement  $\pm 2\%$

## Thermal Expansion Coefficient

6063 T5

$\lambda = (\mu\text{m})/(\text{m}\cdot\text{K})$

$\mu\text{m} = 23.4 \times 10^{-6} = 0.0000234$

K = Temperature Change e.g.  $(-5^\circ\text{C} - 50^\circ\text{C}) = 55^\circ\text{C}$

M = (Length (mm)) e.g. 1000mm

$23.4 \mu\text{m}/(\text{m} \cdot \text{K}) * 1000 \text{ mm} * 55 \text{ K}$

$= 1287 \mu\text{m}$

$= 1.3\text{mm}$  per Metre at  $55^\circ\text{C}$  K

Note: Thermal expansion factors the  $^\circ\text{C}$  of temperature change in metal temperature not air temperature. It is important to consider metal temperature variations can differ widely from air temperature depending on colour.

**Melbourne Office**

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