

SUNBLADE AIR SHROUD

SPECIFICATION GUIDE

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A distinctive, thin aesthetic profile for modern architecture.

Crafted from high-quality aluminium, the Sunblade Air Shroud offers superior durability and weather resistance, while enhancing privacy and natural light shading.

Designed as a light weight product, providing the strongest wind ratings in the Sunblade Shroud series.

Seamless integration with popular facades, providing a stunning contemporary exterior building feature.

Sunblade Shrouds are engineered to meet Australian standards. This innovative collection features multiple configurations to suit a variety of design requirements and preferences for easy architectural specification.



2.0 BENEFITS

Boasting a highly adaptable and meticulously engineered design, intentionally developed to support the broadest range of architectural projects.

Shrouds can be used to enhance open spaces and windows.

Usage: Commercial & Residential.

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Multiple Configurations

Specially designed for broad wind region suitability while providing multiple configurations to suit every project - with easy specification and ordering.

Australian Made

Locally made in Victoria by McKinna Group with over 70 years of experience manufacturing high quality architectural building products.

7 Year Warranty

Our products are backed by an industry leading warranty to ensure peace of mind and lasting durability.

Non-Combustible

Tested thoroughly to ensure compliance with Australian building standards including AS1530.3

Wind Regions

Engineered to balance the adaptability architects need with strong compliance, designed in accordance with TC2 Wind Region A - N1, N2, N3 Region B N4.

Easy Installation

Installation of Sunblade Shrouds is a straightforward process, suitable for multiple substrates. We can also provide install services for large projects.

Solar Shading

Embrace the benefits of solar shading, improving building energy performance in peak summer with uninterrupted views.

Eco Friendly

The ability to specify low VOC coatings in combination with high quality aluminium material provides for a recyclable product.

Low Maintenance

Integrating a natural fall on horizontal surfaces to allow water run-off and easy maintenance, providing a long lasting stunning feature.

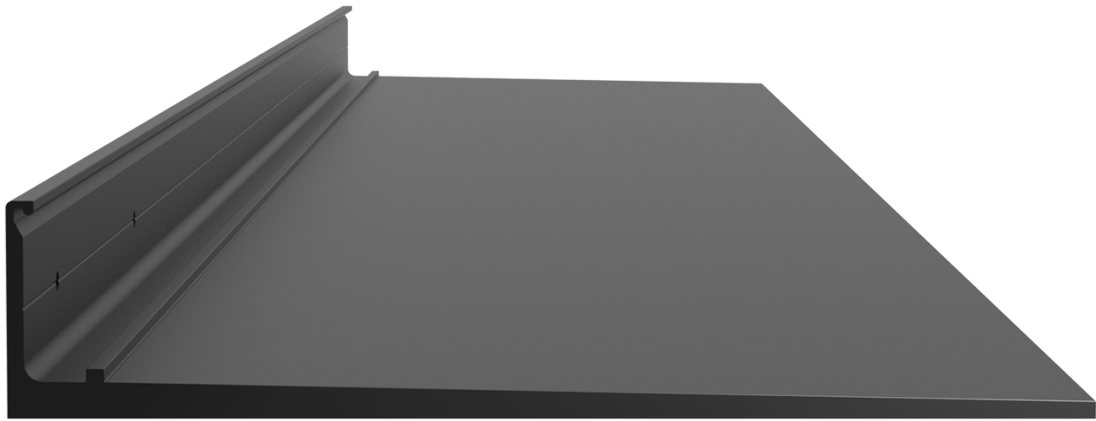
3.0 SPECIFICATION

Sunblade products adhere to Australian standards and provide consideration for building sustainability through solar shading.

Each shroud is made to suit varying applications and sizes with fall on horizontal surfaces to allow water run-off and integrated returns at rear for fixings.

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Category	Shroud	Supplied As	Welded / Modular Unit
Profile Name	SUNBLADE AIR SHROUD	Profile Depth	Fixed 300mm
Profile	Fixed 60mm (10mm-5mm Taper Nose)	Profile Type	Extrusion
Material	Aluminium 6063 T5	Material Weight	6.90 kg/m ²
Max Height	6500mm* (Configuration Dependant)	Density	2.70g/m ³
Max Width	6500mm* (Configuration Dependant)	Wind Regions	A TC2 (N1, N2, N3) B TC2 (N4)
Fixing Flange	Fixed 50mm Flange	Certification	AS1530.3
Fixing Suitability	Steel, LGS, Timber, Concrete & Brick	Thermal Expansion	23.4x10 ⁻⁶ /K

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

*Material Weight Excludes Fixing Cover Section

SUNBLADE
AIR SHROUD

McKINNA

STANDARD CONFIGURATIONS

Detailed order information for specific dimensional restrictions for each standard product type are available online.

Window frame for illustrative purposes only and not included in the system.

AIR SINGLE BLADE



SB-AIR-1T

AIR TOP & BOTTOM



SB-AIR-2TB

AIR ANGLE LEFT



SB-AIR-2AL

AIR ANGLE RIGHT



SB-AIR-2AR

STANDARD CONFIGURATIONS

Detailed order information for specific dimensional restrictions for each standard product type are available online.

Window frame for illustrative purposes only and not included in the system.

AIR OPEN BOTTOM



SB-AIR-30B

AIR OPEN SIDE LEFT



SB-AIR-30SL

AIR OPEN SIDE RIGHT



SB-AIR-30SR

AIR STANDARD



SB-AIR-4S

4.1

CORNER CONFIGURATIONS

Detailed order information for specific dimensional restrictions for each standard product type are available online.

Window frame for illustrative purposes only and not included in the system.

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AIR CORNER EXTERNAL



SB-AIR-6CE

AIR CORNER INTERNAL



SB-AIR-6CI

5.0 PROJECT INSPIRATION

McKinna Group has provided shrouds for multiple projects across Australia. From residential applications to large scale commercial builds.

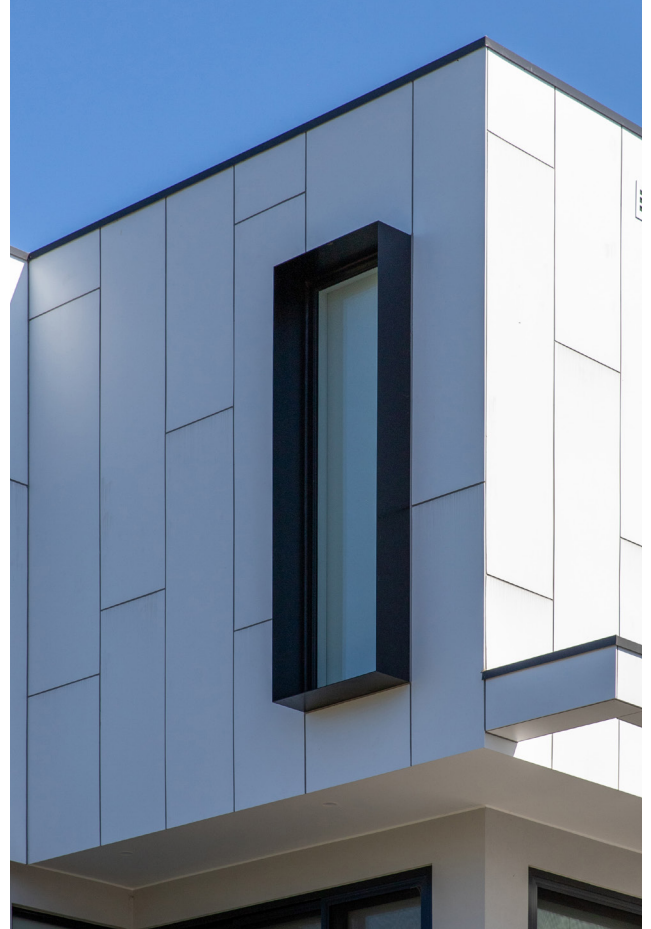
To view more projects and inspiration please visit our website: mckinnagroup.com.au

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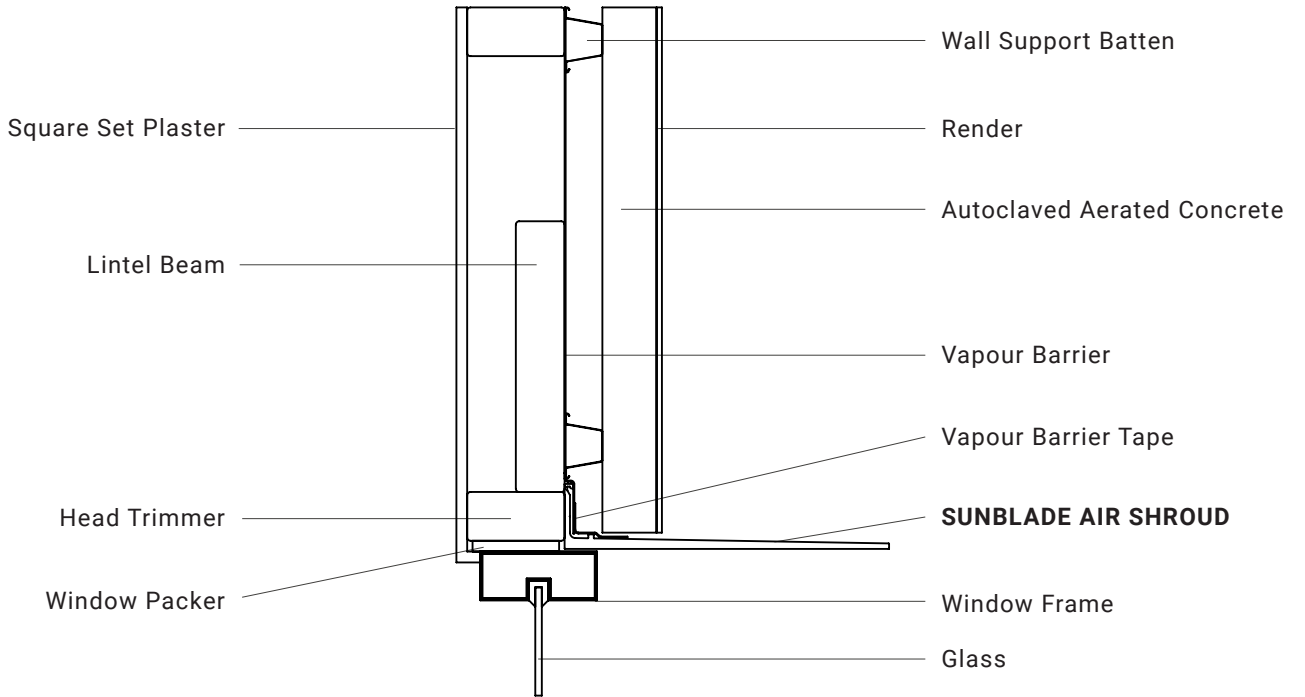


6.0 TYPICAL SETUP

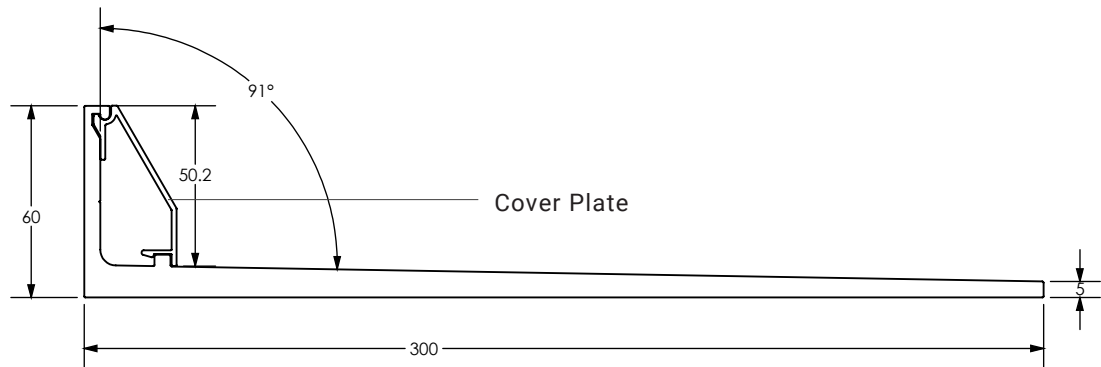
Example below is a Timber substrate.

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SUNBLADE AIR SHROUD

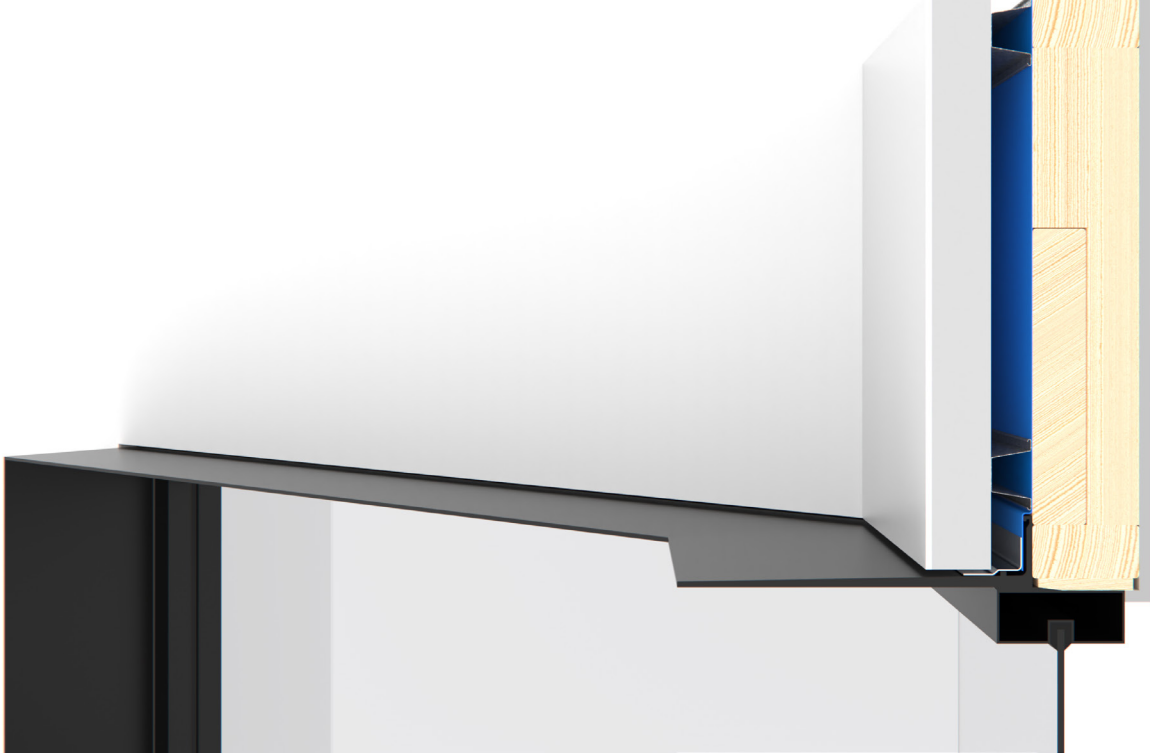


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SECTION VIEW

Designed to support multiple substrates, the images below provide close up details to show a typical setup.

Please contact us for further information about project specifics and fixing details.



7.0 ORDERING INFORMATION

Work with McKinna Group to incorporate our products into your upcoming project.

Specification

Our team are ready to assist with architects and builders.

Ordering

Details and product forms are available online for easy ordering.

Commercial Projects

For large projects with multiple requirements or units please send through your plans and details.

Visit our website
mckinnagroup.com.au

sales@mckinnagroup.com.au

03 9580 4440

PRODUCTION PROCESS

McKinna Group strives to create an efficient and straight forward ordering process for all customers. Standard lead times are 4-6 weeks from order acceptance.

Project scope, order size and coating requests may impact production timelines. Our delivery fleet specialises in careful transportation of goods for building sites.

Job Received

Direct specification request or project plans submitted for quotation.

Order Accepted

Product details confirmed and submitted to customer for acceptance.

Payment Received

Deposit is paid to proceed with the order.

Draft Drawings

Workshop drawings issued for site measure and unit specification.

Production Approval

Customer approves the final drawings for production in our Victorian facility.

Manufacturing

Fabrication and assembly of your chosen product.

Coating Treatment

Coating treatment is applied to the units based on chosen powder and colour.

Quality Assurance

Dedicated QA officers run through an inspection process to ensure compliance.

Dispatch & Delivery

Goods are carefully packaged and delivered to the project address.

SUNBLADE products are proudly manufactured in Australia by McKinna Group.

Contact Details

Tel 03 9580 4440

Email - sales@mckinnagroup.com.au

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 mckinnagroup.com.au/warranty

Document Disclaimer

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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 ± 1 mm

Fabricated dimensions ± 1 mm per 1000mm

Angular $\pm 1^\circ$

Out of straightness 2mm per 1000mm

Flatness Deviation ± 4 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.





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