

Specifying External Venetians

Precision. Performance. Australian Made.

2026

 **ISO 13785-1**
BCA COMPLIANT
AS 1530.3-1999
CERTIFIED NON-COMBUSTIBLE



FORM AND FUNCTION

Architectural Integration. Thermal Control.

The primary objective of any shading device is to maintain interior temperatures within a comfortable range, typically between 18°C and 25°C. To achieve this without effective shading, significant energy must be expended cooling and heating our homes and workplaces.

Heat gains from the external environment are caused by the passage of solar radiation through glazed window surfaces, walls, and doors. This solar heat gain has a decisive impact on the thermal load of any building. Window design, surface area, and orientation all affect this loading dramatically.

External venetian blinds act as a primary barrier against solar radiation. Utilising the innate properties of aluminium, namely high solar radiation reflection and low absorption values, the evaya ev80 and ev93D systems effectively reduce household energy requirements, carbon dioxide emissions, and ongoing expenditure.

OPERATION AND EFFICIENCY

Dynamic Environmental Response.

As a general rule, the ev80 and ev93D are lowered in the vertical or closed (0°) position and raised in the horizontal position (90°). The slats can be tilted at various angles between these parameters, with a maximum 160° operating range possible for the ev80.

In winter, the blind forms an insulating air pocket which prevents heat loss. In summer, the system blocks up to 85% of solar heat gain before it reaches the glazing, drastically reducing the reliance on artificial cooling.

"Architecture responds to its environment.
External shading is how it listens."



// ESD COMPLIANCE

Meeting the 7-Star Standard.

The National Construction Code (NCC 2022) has significantly tightened energy efficiency requirements across Australia. For new residential buildings, the minimum NatHERS rating has increased to 7 stars, making rigorous thermal performance modelling and dynamic shading devices central to compliance.

External venetian blinds are one of the most effective passive design strategies available to architects. By intercepting solar radiation before it reaches the glass, evaya systems lower the effective Solar Heat Gain Coefficient (SHGC) of a facade from 0.87 down to as low as 0.13. This dramatic reduction in thermal load can improve a NatHERS rating by up to 1 full star.

// THERMAL STABILITY

Peak Load Reduction.

Beyond statutory compliance, the true value of external shading is experienced by the occupants. In peak summer conditions, external venetian blinds have been proven to reduce indoor temperatures by 5–10°C compared to unprotected glazing.

This passive thermal buffering fundamentally changes the HVAC requirements of a building, allowing mechanical systems to be downsized and reducing grid demand during peak periods.

// SYSTEM INTEGRATION

Intelligent Automation.

To achieve optimal Environmental Sustainable Design (ESD) outcomes, shading systems must respond dynamically to changing conditions. The ev80 and ev93D systems are engineered for full integration with Building Management Systems (BMS) and smart home platforms.

Coupled with sun and wind sensors, the blinds automatically adjust slat angles to ensure maximum daylight harvesting while defending against solar gain. This directly supports compliance across five major ESD frameworks: NCC 2022, NatHERS, NABERS, Green Star, and the WELL Building Standard.



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Specifying EVBs for Your Project

Evaya External Venetian Blinds are engineered for seamless integration into any project type, from residential to high-rise commercial. The following checklist covers the key specification and installation considerations to ensure compliant, high-performance outcomes.

SPECIFICATION CHECKLIST

Climate Zones

Suitable for all Australian climate zones.

Wind Loading

Engineered and Wind Tunnel tested to 90 km/h; secure fixing to structural elements required.

Facade Integration

Coordinate with glazing, curtain wall, and facade systems at early design stage.

Glazing Types

Compatible with single, double, and performance glazing systems.

Motor & Controls

Geiger Motors; compatible with Somfy Electronic Controls, BMS, home automation, Somfy wind/sun sensors and KNX weather stations.

Lead Times

Standard lead time 3 weeks; confirm with Evaya at specification stage.

Specification Limits — Zoning & Maximum Dimensions

External venetian blinds must not be specified beyond their stated maximum manufacturing dimensions. These parameters represent the absolute tolerances of the lifting tapes, ladderbraids, Hagofix connections, and bearing hardware. Furthermore, we strongly advise against specifying single continuous blinds that span multiple floor levels, Stairwells and Voids. Different floors inherently serve distinct purposes, for example, a ground-floor living area requiring daylight and openness versus an upper-floor bedroom requiring privacy and darkness. A single blind spanning both zones cannot serve either space effectively. Zoning blinds by floor level ensures optimal thermal comfort, precise light control, and hardware longevity.

WARNING — Awning & Casement Window Incompatibility

External venetian blinds MUST NOT be specified over outward-opening awning or casement windows. EVBs are designed for fixed glazing, sliding windows, or inward-opening windows only. Storm bars, door hardware, and projecting facade elements must be checked for clearance at design stage.

IMPORTANT — Glazing Proximity

External Venetian Blinds are designed and engineered to be positioned directly against windows as part of the building envelope. EVBs are not to be located away from the glazing, for example on open balconies, verandahs, pergolas, or stand-alone portals. Wind tunnel testing clearly demonstrates that inherent wind stability is significantly compromised as the blind is located further from the window and building envelope.

IMPORTANT — Multi-Level Buildings: Maintenance & Access

EVBs installed above ground level require a clearly defined maintenance and access strategy before specification is confirmed. Suitable access methods include maintenance walkways, building maintenance units (BMU), or operable windows. Abseiling from roof anchors is NOT an option. Resolve access requirements at design stage in consultation with the project architect, facade engineer, and WHS consultant.





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Building a Sustainable Future.

ev80 and ev93D External Venetian Blinds

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