



Product Name:

Sovereign- Pultruded Fibreglass **6 Star WERS** Windows and Doors

Overview:

Range of 5 Star WERS rated energy efficient windows and doors made from pultruded fibreglass. Suitable for residential, commercial and institutional applications.

Product Description:

Sovereign offer a range of single and double glazed, pultruded fibreglass windows and doors. Designed to achieve 5 Star energy ratings, windows and door styles are available to meet various project requirements (casement, awning or fixed, sliding, double/single hung).

The products are energy efficient, with low thermal “U-Value” ratings and air infiltration results, reducing the need for heating and cooling, and associated energy consumption and greenhouse gas emissions. This also has the significant economic benefit of reducing building running costs.

The pultruded fibreglass used, with an epoxy resin base, is a low embodied energy material, requiring significantly less heating during frame production than comparative PVC and aluminium frames. Sovereign windows and doors are highly durable and require little maintenance (recommended annually). A warranty of 15 years on the frame (wear & tear) is offered and the product range has a life expectancy of approximately 50 years.

Sovereign offer a product take-back scheme, where any glass can be recut for smaller sizes or put back into glass recycling streams. Frames can be either redressed and reused, or ground/shredded to be used as filters or filler for other products, such as asphalt. Waste generated during production is also recycled in this way.

All exposed surfaces are coated in a two-pack gloss acrylic polyurethane finish (see minor Issues of Concern).

Products are compliant with relevant Australian or International Standards. Sovereign state the window and door products will greatly assist in Building Code of Australia and BASIX compliance.

Issues of Concern/ Red Lights?

Minor Issue- VOCs in two-pack gloss acrylic polyurethane coating:

The VOC content of this solvent-based finish used on these products is approximately 400g/L. However, after the curing process (approx. 7 days), the solvents have evaporated and there is virtually no VOC emissions from the end product for purchase.

Recyclability:

Sovereign offer a product take-back scheme. The long lifetime of the windows and doors (approx 50 years) means this may currently be an infrequent service. However, it is nevertheless a significant scheme, as otherwise the likelihood of this material being recycled is very low.

Assessment Comparison:

Standard windows and doors.

Indicative Cost:

Prices vary across product options. Please contact Sovereign directly to confirm pricing.

Manufacture/Fabrication:

Windows Manufactured in Australia, Profiles made in Canada, hardware imported from USA.

State Availability:

New Zealand, WA, VIC, TAS, SA, QLD, NT, NSW, ACT

Assessment Criteria Satisfied

ENERGY/GREENHOUSE
<p>Low energy in production Potential less GHG/ODP down stream</p>
HABITAT & LAND
<p>Reduced terrestrial impact</p>
RESOURCE DEPLETION & EFFICIENCY
<p>Reuse potential Eco packaging Reduce material use</p>
OTHER VITAL SIGNS
<p>Independent Verification Doc Manuf Claim Australian Standard</p>