



Sovereign Windows New Zealand Producer Statement & Technical Specifications

I. The Company – Sovereign Windows New Zealand Ltd

Sovereign Windows New Zealand Ltd is the leading Australasian manufacturer of fiberglass window systems. The company was established in 2010 and became a complying member of the Window Association of New Zealand's proprietary systems manufacturing group. The proprietary systems manufacturing group includes Fletcher Aluminium, APL, ASL, Nalco, MCK and Sovereign Windows.

Sovereign New Zealand has established relationships with the leading international suppliers of fiberglass window systems and supplies not only complete window systems but also protrusion components for use in aluminium window systems and curtain walling applications. Sovereign Windows develop and sell window systems and related window technology within New Zealand, Australia and Internationally.

II. Fiberglass Windows

Fiberglass Window have a long history around the world. They were developed in the late 1970s as an alternative to the first thermally broken aluminium suites and UVPC windows. As a product class they combine the thermal efficiencies of wood and UVPC with the strength and endurance of aluminium systems. Fiberglass windows are the most dimensionally stable window system available. Being 80% silica they are the closet product to glass and have virtually the same expansion and contraction rate. Fiberglass is 1/5000th as conductive as aluminum and fiberglass windows are rated as the most thermally efficient window system available in the world. Fiberglass has a tensile strength in excess of 1400 MPa and are two and a half times stronger then steel. The acoustic performance and operational life significantly exceed all other window systems and they are available in a complete range of styles including tilt and turn, hopper and double hung.

Fiberglass window systems have the widest operating perimeters of any window system. They are available worldwide and every major window company in the world now has a fiberglass window division. Fiberglass windows can be found operating in the world's harshest environments. They are routinely used in areas where temperatures plummet as low as -60°C in the Artic and Siberia and as high as +50°C in the Middle East. Fiberglass windows can handle the extremes of Artic winds and the intensity of desert sand. The abrasion of extreme coastal applications and the rigors of industrial environments. They are completely inert and fully recyclable. As a window system they offer the longest life span of any window system and warranties exceed all other systems available.

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III. Quality Statement

Sovereign Windows New Zealand Limited is a registered proprietary system manufactory with the Window Association of New Zealand. This means that Sovereign Windows has passed all application requirements including meeting all appropriate New Zealand Standards. Compliance with the New Zealand Building code and with specific reference to Sections E2, E2 / AS1 and B2. As part of ongoing certification requirements Sovereign Windows also maintains a quality control system. Which includes a components testing regime for specific component testing to appropriate manufacturing standards.

IV. Building Code Compliance

Windows and doors from Sovereign Windows not only meet, but in most cases exceed, requirements of the NZ Building Code Means of Compliance.

- NZS 4211: 2008 Specifications for Performance of Windows
- NZS 4223 Glazing in Buildings, Parts 1,2 and 3
- NZS 4284-2008 Testing of Building Facades
- NZBC section E2 installation accordance with E2/AS1
- NZBC B2 Durability

Sovereign Windows joinery has been designed and successfully tested to perform under extreme wind pressures deemed appropriate by independent engineers for any wind zones in New Zealand, Australia and the Pacific Islands. Tests have been conducted in a NATA and Telrac registered testing booths to a very high wind loading level giving air and water infiltration at specified loadings in accordance to NZS 4211:2008 and AS 2047:2014. Sovereign Windows meet the stringent requirements for waterproofing and air leakage and have the correct glass to cope with expected wind loads and accidental human impact.

V Environmental Statement

Sovereign Windows offers the most environmentally friendly window system in the Australasian market place. The product is fully recyclable and all window systems are sold with a buy back / recycle policy included. Protruded fiberglass is 80% silica, is a non-hydrocarbon based product unlike UVPC and is completely inert. Protruded fiberglass requires 1/65th of the energy as aluminum does for production. It does not leach or release volatile organic compounds as do other window systems.

Fiberglass windows have the highest thermal performance ratings in the world and Sovereign Windows exceeds all WEERS energy rating requirements for all applications. Sovereign Windows is a member and partner of the EECA Energy star program for Windows ran by the New Zealand Government and offers the highest energy efficiency rating of any of the window systems included in the scheme.

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VI. Warranty

Sovereign Windows Ltd guarantees all of its product under normal conditions of use against failure of materials for fifteen years from date of delivery. This includes all aspects of the supplied joinery given normal maintenance over this time. The warranty for glass is 10 years as per the IGUMA warranty program. This warranty is three times longer than the standard aluminium window joinery warranty offered in New Zealand.

VII. Further Assistance

If you need further assistance, or are unsure about any aspect of the care and maintenance of your fiberglass joinery, please contact your local Fiberglass window and door manufacturer or Sovereign Windows directly.

VIII. Technical specifications: Sovereign Windows Joinery Products

- **Designing:**

Sovereign Windows joinery units have been architecturally designed to the highest quality specifications for commercial and high quality residential applications and are purpose made to architectural specifications to any combination of size or type.

- **Materials:**

All fiberglass protrusion products supplied by Sovereign Windows New Zealand are ester based resin products produced from the highest quality fiberglass thread and matt as per AMA protrusion standards and in accordance with EU and AMA requirements. Aluminum sub components are produced by extrusion from 6060 – T5 aluminium alloy.

- **Finish:**

The paint system used to paint fiberglass protrusion is considered part of the window system and has been specifically designed to enhance the properties of protruded fiberglass. The paint is a marine grade formulation applied post protrusion at a rate not less than 200 microns. The paint system carries a 10 year warranty and protruded fiberglass windows offer the advantage that at any time they can be repainted or repaired while in situ. No other window system offers this advantage. All hardware and aluminum components are either wet sprayed at 200 microns or are powder coated to 40 microns dependent on the required finish.

- **Fabricating**

Sovereign Windows products are currently fabricated at company owned facilities or in conjunction with international contract manufacturers dependent on the application.

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- **Installation Detailing:**

Sovereign Windows and doors are supplied complete with fully recognized architectural hardware and where required full installation details will be provided

- **Installation:**

Before installation the main contractor will ensure that all openings shall be true and square ready for site measure. The window frames are sealed with a continuous non hardening approved sealant to the perimeter giving a full waterproof installation and fixed in accordance to strict trade practice. We specify that all windows are installed in accordance with E2 / AS1 in New Zealand and AWA guidelines in Australia.

- **Manufacture:**

The corners of the frames and sashes are sealed with approved joint sealant and mechanically jointed with stainless steel screws fixed into integral traces within the section. Where applicable corner staking angles and gussets are fitted and all joints left flush and water tight in accordance with strict trade practice and the manufacture's recommendation.

- **Hardware:**

All fasteners, catches, stays etc are forged, cast or extruded from non ferrous materials finished in satin chrome, powder coated or wet sprayed dependent on the application and finish requirements. Hardware is source predominantly from European and North American suppliers.

- **Glazing:**

All glass thickness to comply with NZS. 4223. Glazing is held in by elastomer wedge gaskets to the perimeter of glass and snap in beads that clip into the window frames. Nearly all glazing is internally fitted rather than external thus increasing the weather tightness properties and reducing the health and safety risks of glazing when on site.

- **Weather Stripping:**

All opening vents close against a continuous compression gasket held integrally into the window frame insuring complete weather tightness.

- **Protection and Cleaning:**

After installation the window frames are cleaned down ready for other trades. A protective coating is available, if specified. The main contractor will be responsible for protection and damage, and for final clean down.

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Care & Maintenance

I. Extending the life of Fiberglass Windows

To comply with warranty requirements and to extend the effective life of fiberglass windows a regular maintenance program should be implemented.

In general, cleaning should take place every six months. Although, in high pollutants areas such as industrial areas, geothermal areas or places near the sea, a more frequent cleaning program should be carried out- i.e. every three months. The effects of ultra violet light, atmospheric pollution, airborne slat deposits, moisture & grim can all accumulate over time and should be removed at regular intervals.

- Three steps to cleaning Fiberglass Joinery:
 - Carefully remove any loose deposits with a wet sponge.
 - Use a soft brush (non abrasive), warm water and a mild household detergent solution to remove dirt, dust, salt and other deposits.
 - Thoroughly spray gently off with clean fresh water and dry the glass to avoid any marks developing – avoid forcing water into the building with hose pressure.
- DO NOT USE:
 - Do not remove grime by the use of highly abrasive materials such as sandpaper or steel wool.
 - Avoid using scrapers or similar tools on window glass as it can cause scratches that cannot be repaired.
 - Avoid using chemicals, especially chemical cleaners.
 - Ensure all solvents are kept from contact with vinyl glazing gasket materials, as most solvents damage glazing gaskets.

II. Removing Deposits & Splashes:

Remove immediately any fresh splashes of paint, cement, plaster, mortar or sealants with a soft cloth soaked in water – Do not allow splashes to harden. Where deposits or hard to remove grime is present, cleaning may be by means of a soft cloth dipped in minimal amount of white spirit or turpentine, followed by wiping with a dry rag. Keep all solvent chemicals well away from other parts of the windows to avoid possible chemical attack which may not become obvious for months or years.



III. Cleaning Products:

Acid or alkaline cleaners should not be used, as these will damage the finish and may discolor colored joinery. Some strong solvents such as used for the thinning paints or cleaning up mastics and sealants are harmful to the extended life of the coated surface and should not be used for cleaning purposes. Do not use common solvents such as petrol, Acetates, Dulon Thinners, and Methyl Ethyl Ketone (MEK) or highly acidic, alkaline, common household solvent or alcohol-based cleaners. This also applies equally to other components that make up the window or door.

IV. Chemical Warning:

Using any solvents on your joinery puts at risk – Always immediately rinse thoroughly the entire area with copious quantities of clean water paying particular attention to flushing debris and residues from crevices, joints and drain holes and then dry the glass to avoid any marks developing.

V. Refurbishment of finishes:

All surfaces eventually degrade on prolong exposure to the elements. Change of colour, loss of gloss and some chalking may eventuate after time. For domestic refurbishment we recommend polishing with high quality automotive cream polish in accordance with the polish manufactures instructions. Avoid polishes which also contain cutting compounds, unless the surface is extremely weathered. For badly scratched surfaces use of dap stick or aerosol with colour matched paint. At any time fiberglass windows can be repainted in situ. Please contact the manufacture for specific instructions and recommendations.

To Contact Us

If you have any inquires please contact Sovereign Windows New Zealand Head Office

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