Warranty Document

SilentVue®



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Certificate of Warranty & Conformance

SilentVue® Pty Ltd hereby certifies and warrants that all acrylic panel products manufactured and supplied by SilentVue® have been designed, engineered, and tested to meet or exceed the requirements of the governing specifications for transport infrastructure noise walls in Australia.



1. Quality Assurance & Manufacturing Controls

All products are manufactured under a Quality Management System certified to ISO 9001, ensuring consistent compliance with applicable statutory, regulatory, and customer requirements.

2. Standards & Specifications Compliance

SilentVue acrylic panels fully comply with the following standards and technical specifications:

Transport for NSW (TfNSW)

- Specification R271 Design and Construction of Noise Walls
- o Including requirements from TS 03247.1, Edition 2, Revision 7, June 2020

Queensland Department of Transport and Main Roads (TMR)

Specification MRTS15 - Noise Fences and Barriers

Main Roads Western Australia (MRWA)

Specification TS 03247 - Noise Walls

Acoustic & Structural Performance Standards

- o EN 1793-2 Airborne sound insulation performance
- o EN 1794-1 Mechanical requirements for stability and safety
- EN 1794-2 General safety requirements including impact resistance

Optical & Weathering Performance Standards

- o ISO 4892-2 UV weathering resistance of plastics
- o DIN 5036 Part 3 Light transmittance measurement
- Long-term optical performance testing to confirm no more than 5% reduction in light transmission over service life

3. Material & Structural Properties

- Manufactured in either tinted or patterned transparent acrylic, incorporating thin opaque stripes where required to minimise avian strike risk in accordance with:
 - o TfNSW R271 Clause 6.3.7(i)
 - Equivalent provisions in QLD MRTS15 and WA TS 03247
- . Minimum Modulus of Elasticity:
 - o Flexural: ≥ 3100 MPa
 - o Tensile: ≥ 3000 MPa
 - Impact resistance: Tested in accordance with EN 1794-1/2 and meets Class C impact performance at 6.0 kJ (falling debris).
- Optical Performance:
 - o Initial light transmittance ≥ 90% at delivery
 - Light transmittance after long-term UV/weather exposure ≥ 85%



4. Conformance & Durability

- Panels are free from manufacturing defects, inclusions, delamination, or warping.
- Structural and optical performance is maintained throughout the declared service life under normal operational and environmental conditions.
- All edges and fixing points are finished to ensure compliance with noise wall safety, durability, and aesthetics requirements under TfNSW, QLD TMR, and WA MRWA specifications.

5. Warranty Statement

SilentVue warrants that the above-described acrylic panels will:

- 1. Maintain their **structural integrity**, rigidity, tensile strength, and optical clarity for a period of **twenty-five (25) years** from the date of supply.
- Remain compliant with the requirements of TfNSW R271, MRTS15, and TS 03247, provided
 that the panels are installed and maintained in accordance with SilentVue's installation
 guidelines.
- 3. Resist UV degradation, yellowing, and loss of transparency beyond the permissible limits defined in **DIN 5036** and **ISO 4892-2**.

Warranty Conditions:

- This warranty applies only to products installed according to SilentVue's published installation and maintenance instructions.
- Damage caused by improper installation, impact beyond specified limits, or exposure to chemical agents not compatible with acrylic is excluded.
- Warranty claims must be accompanied by documented proof of purchase, installation details, and inspection records.



