

# Project Case Study

Stonnington Hill  
Malvern VIC 3144  
Completed Jun 2019



## Project Type:

Multi-residential, retrofit

## Window Styles:

Awning / Patio Sliding

## Window Colour:

White

## The Challenge

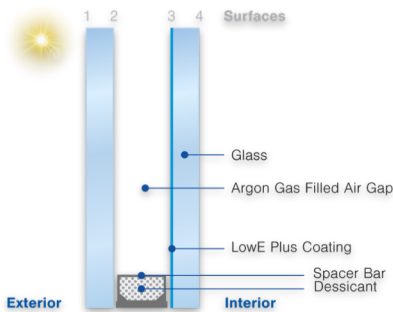
A 1960s apartment block in Malvern, Melbourne, had significant environmental and structural issues. The timber window frames were rotting, leaking air, and peeling paint, with some at risk of collapsing. Poor solar control caused overheating, glare, and furniture fading in summer, while inadequate insulation led to heat loss and condensation in winter. Noise from a nearby busy road, childcare centre, and service station added to residents' discomfort. These problems highlighted the urgent need for upgrades to improve sustainability and liveability.



Integrated glazing units from Australian Glass Group product LowE Plus with Clear for highest clarity and visible light transmittance – while also delivering excellent insulation performance (low U-value).

**Specification**

- Outer: 4mm Clear Toughened
- Spacer: Argon Gas
- Inner: 4mm LowE Plus Toughened



**The Solution**

The installation of larger windows and improved acoustics has significantly enhanced living conditions in a 1960s Malvern apartment block. Replacing single glazing with double glazing delivered immediate acoustic benefits, drastically reducing noise from traffic and other external sources. Paired with uPVC frames, the upgrades improved thermal comfort while offering durability, security, and low maintenance.

These improvements have transformed the aesthetic and functionality. Larger windows and improved ventilation, maximize natural light and the flow between indoor spaces and balconies, creating a brighter, more open environment. “The difference is night and day. We can now enjoy natural light without drawbacks,” noted one resident. The project has also reduced energy bills and created healthier living spaces, boosting the overall quality of life. Apartment owners have seen added value, with increased rental potential due to the upgraded features.

This transformation shows the potential of innovative glazing solutions to address environmental challenges while improving efficiency and aesthetics. Overwhelmingly positive feedback from residents reflects the project's success and the impact of cutting-edge technology and design on daily living.



BEFORE ▲ AFTER ▼



BEFORE ▲ AFTER ▼



uPVC frames, accredited to the Profile Industry Code of Practice, supplied by German manufacturer, Kommerling.

