

LOUVRE WINDOWS

A breath of fresh air for
Aged Care Facilities



Safetyline
jalousie

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There is no doubt that louvre windows have always provided the best solution for maximising air flow and ventilation in buildings.

In the past however, traditional louvre windows have been overlooked due to safety, security, fire and other regulatory obstacles.

Safetyline Jalousie, in conjunction with its strategic partners, has developed a solution to overcome these obstacles and deliver innovative ventilation options for all buildings.

There's no longer any need to compromise on ventilation.



Creating a more comfortable living environment

At the heart of every aged care facility is a desire to protect and promote the health and wellbeing of its residents. In particular, preventing the spread of infection is vital. According to the World Health Organization (WHO), there is moderate evidence available to suggest that insufficient ventilation is associated with an increase of infection risk¹. Further to this, there is evidence to suggest that high ventilation rates could decrease the risk of infection². The WHO recommends health care facilities install adequate ventilation in all patient care areas to help prevent airborne infections.



How is adequate ventilation achieved? Louvre windows provide the perfect solution for achieving improved ventilation in aged care facilities. In an appropriately designed building, louvre windows maximise breezes when in an open position, allowing for cross-ventilation. In fact, louvre windows allow twice as much air to circulate when compared to traditional window designs. Louvres can be automated or adjusted manually, allowing individual control over the level of ventilation and temperature.

In addition to the benefits of improved health and wellbeing, natural ventilation can also help minimise odours within a facility, because fresh air is continuously circulating.

¹ Natural ventilation for infection control in health-care settings- WHO guideline 2009. Editors: James Atkinson, Yves Chartier, Carmen Lúcia Pessoa-Silva, Paul Jensen, Yuguo Li and Wing-Hong Seto. Page 21.

² Natural ventilation for infection control in health-care settings- WHO guideline 2009. Editors: James Atkinson, Yves Chartier, Carmen Lúcia Pessoa-Silva, Paul Jensen, Yuguo Li and Wing-Hong Seto. Page 19



Eliminating security and safety concerns



Whilst we can't live without fresh air – it is literally what we need to breathe – a safe and secure environment is also very important, especially in aged care facilities. With an ageing population, it is even more important to ensure aged care facilities are planned using clever design to achieve the best residential environment. It is possible to achieve the benefits of good ventilation, and ensure safety and security, simply by choosing the right louvre windows.

Safetyline Jalousie louvre windows provide the safety and security needed for aged care facilities thanks to a unique impenetrable security system. The windows can be automated and integrated with climate control systems or other sensor-activated control systems.

There's also no danger of falls through Safetyline Jalousie louvres, meaning they can be left open even when used high above ground level. This is because the louvre opening width is just 106cm, making it impossible for even a small child to fall through.

Safetyline Jalousie louvre windows are also among the only windows on the market that already comply with the recent changes to the National Construction Code (NCC) without any modification or additional hardware. The changes apply to all windows two metres or more above the ground.

In addition to its security benefits, Safetyline Jalousie louvre windows also provide improved sound insulation.

In recent tests carried out at the National Acoustic Laboratories in accordance with Australian Standard AS 1191-2002, Safetyline Jalousie louvre windows achieved a weighted sound reduction index of $R_w (C;Ctr) = 32dB (0;-1)$. This reduction is equivalent to the noise of very loud traffic being reduced to that of an average office. If Viridian VLam Hush glass is used, a result of 35dB can be achieved.



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Decreasing energy consumption for a sustainable future

Sustainable design is important for all aged care facilities. With operating costs on the rise, any decrease in energy consumption is a bonus. Improved ventilation using louvre windows reduces the need for reliance on cooling and heating systems, thereby reducing energy expenses.

Louvre windows maximise cooling breezes when in an open position, allowing for cross ventilation of a facility when the windows are strategically placed. When the louvres are closed, Safetyline Jalousie's weather-proof seals provide maximum protection from the elements, as well as sealing in cool air if air-conditioning is used or warm air when using heating in winter. Safetyline Jalousie's maximum air infiltration is significantly lower than the industry standard at an impressive 0.25L/s m². Glass louvres can also be installed using tinted or low-e glass to reduce solar heat, which is ideal for hot climates. Energy bills can therefore be reduced all year round.



Meeting Industry Certification and Standards



The Department of Health and Ageing uses a certification and accreditation assessment instrument to determine whether residential aged care facilities are eligible for building certification. By installing Safetyline Jalousie louvre windows, meeting the criteria is one step closer.

When it comes to fire safety (25 points), Safetyline Jalousie louvre windows can be connected to building management systems and automatically shut in the case of a fire. To minimise hazards (12 points), Safetyline Jalousie louvres pivot from the top, leaving no protruding elements or sharp edges on

the inside of the building. In ensuring privacy and space (26 points), complete privacy is achievable when Safetyline Jalousie louvres are fitted with frosted glass or aluminium louvres.

In terms of occupational health and safety and access mobility (13 points), using louvre windows provides improved ventilation and subsequently a decreased infection risk. For heating and cooling (6 points), Safetyline Jalousie louvre windows seal completely to ensure the effectiveness of mechanical heating and cooling. Louvre windows provide natural light and ventilation (6 points).

When it comes to security (12 points), Safetyline Jalousie provides the ultimate in secure louvre windows with an impenetrable system, and meets the NCC requirements.

In addition, Australian Standard AS2047 specifies mandatory / minimum standards for windows (including cyclone ratings) and Safetyline Jalousie louvre windows easily meet all requirements.

Safetyline Jalousie Louvre windows – the ideal natural ventilation solution for aged care facilities:

- No compromise to SECURITY
- No sacrifice in air flow to achieve PRIVACY
- EASY TO OPERATE with simple mechanisms
- HAZARD FREE with no protruding elements
- PROTECTIVE with internal insect screens
- VERSATILE and STYLISH

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