

9.00 Windows

9.01 Generally

The amount of glazing in the building shall be determined on the basis of a life cycle cost analysis of the proposed building including capital cost, operating costs, the cost of glare reduction, maintenance, cleaning and energy.

Care shall be taken to minimise the impact of solar load and internal glare through windows by carefully considering the options of sunshading, the use of solar or tinted glass or a combination of these measures. An analysis of the life cycle costs of the proposed solution shall be submitted for consideration by CLF before a final design solution is adopted.

Windows shall be of commercial quality designed in accordance with all relevant codes and shall be suitable for the specific application taking into account the requirements for security, cleaning, ventilation, maintenance and operability.

9.02 Design Criteria

For the purposes of design, Terrain Category 2.5 shall be used as a minimum.

In air conditioned buildings, not less than 10% of the window area shall be openable so as to provide for ventilation in the event of a system breakdown. Every room and every bay of windows on the perimeter must have at least one openable window. This requirement may be waived if alternative means of achieving this outcome can be provided.

In general, the following energy targets shall be used for the window design:

Window Transmission	<5.8 W/2m ² K
Window Shading Coefficient	<0.45 or shaded
Wall Insulation	>R1.5 m ² K/W

The design of the walls at windows and doors shall ensure that the cavities between the inner and outer walls are suitably flashed and the cavities are closed with the wall material and not aluminium angles.

9.03 Window Styles

Louvres shall be avoided except for special approved applications.

Pivot hinge windows can open outwards or inwards but must be able to be cleaned from within the building. Where an external pathway, link bridge or staircase abuts the external wall of the building, any windows in that wall are not to protrude beyond the face of the wall at that level when opened.

9.04 Window Framing

Windows and doors shall have anodised aluminium frames of an approved colour, consistent with other buildings in the vicinity.

The minimum thickness of anodising shall be not less than 20 microns. All exposed screw fixings, rivets and cut edges etc, shall be coloured

9.09 Teaching Spaces

Windows in teaching spaces shall be located so that no direct sunlight falls on projection surfaces. The extent of windows, the level of natural light entering the space and the potential for uncontrolled light through reflection off surfaces must be assessed and managed to ensure adequate contrast ratios are achieved on all screens. Consultation must be undertaken with ITS on the extent and location of proposed windows as this will also impact on the selection of projectors.