

## CASE STUDY

## Double skin becomes thermal and solar buffer zone

*The transparent glass tower, No 1 Bligh Street Sydney, is the first project in Australia to utilise a double-skin ventilated facade.*

Horiso's 1,774 motorized 80 mm venetian blind systems will be integrated within a custom design ventilated double skin façade and controlled by a system consistent with the circular design of the building.

The design of the blind pelmets will allow airflow from the back of the blind to travel over the custom-curved head section. Airflow between the double layers of glass will assist in maintaining a constant average temperature within the building, thus avoiding excessive use of HVAC systems.

The blinds will operate automatically within the outer and inner cavities of the ventilated facade. They are designed to reduce solar heat gain while maintaining optimal light and views.

The blind control system enables the motorised venetian blinds to operate using an intelligent motor controller pre-programmed with all

the building's control requirements – including both the geographical location and physical orientation of the building's circular shape. It will operate in conjunction with sun-tracking software that enables individual blinds to react to the variations of the sun's angle of incidence throughout the year.

In addition, the blinds will also react to external light levels. This ensures that the blinds are always at their optimum tilt position to meet the client's light penetration and glare control requirements for transparency.

The focus is on maximum natural light all year round with performance glazing for controlled admission of natural light into a space through windows to reduce or eliminate electric lighting.

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for more information.



The double skin ventilated facade at 1 Bligh Street, a 31 storey building by Grocon and design by Architectus in association with Ingenhoven architects Germany.