

CASE STUDY

# Green Square Library



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# Somfy – your partner in every phase of the project



## Specification

Somfy can assist during the planning stages for a more professional and considered approach. Somfy's Project and Services experts provide the support you need to meet the requirements of each project and make sure that every solution is correctly specified.



## Commissioning

Somfy offers a range of services depending on your project location and size. Our Projects and Services team, including Somfy Electrical Services, a specialist electrical contractor for solar shading installation, supports projects with electrical installation, project commissioning and/or project management.



## After-Sales Support

Somfy offers one-off troubleshooting, visits to adjust/optimize settings and check functionality and ongoing maintenance agreements in order to give the solution a long lifespan and optimum performance.

# Somfy's superior solutions at the centre of a flourishing community

At the heart of Australia's largest urban renewal development, Green Square Library redefines the traditional concepts of a library with an imaginative and striking design. The innovative underground library which boasts a subterranean garden, open air amphitheatre and 6-storey glass tower achieved a 5 Star Green Star Public Building Design Certification from the Green Building Council of Australia. The space plays with function and form to deliver an architectural geometry vision to the flourishing community.

The building utilised complex engineering techniques to create an open space with 40 skylights, ensuring the interior is flooded with natural light. With a focus on sustainable design and construction, the tower is composed of an ultra-clear, cavity façade with automated blinds to ensure high levels of optical, thermal and acoustic performance. Additionally, 15-non cavity blinds feature in the façade of the entry triangle.

A total of 109 Sonesse 50 RS485 motors were used in the project; selected as the motor of choice for its superior performance and quiet operation. Accompanied by 32 KNX RS485 Motor Controllers, the Somfy KNX RS485 Blind Control System works seamlessly with the sensor station positioned on the roof to automatically

control window coverings through sun and cavity temperature control whilst providing a graphical user interface output for monitoring purposes.

The sensor station and its 4 sun sensors connects to 4 internal cavity façade temperature sensor probes to monitor the internal façade temperature and adjust the blinds' position accordingly. Individual control is also made possible via KNX Wall switches, providing the occupants with the convenient option of local control.

The Sonesse powered roller blinds were manufactured by Verosol, and installed by BMC Commercial Solutions to ensure perfect integration into the inspiring project, designed by Sydney architects Stewart Hollenstein.

Somfy provided support at every stage of the process, with its Projects team and Somfy Electrical Services team installing and commissioning the Blind Control System.

The Sonesse 50 RS485 digital motor offers easy integration and installation, providing positional feedback of the blind during move and when reaching the upper and lower end limits; it is designed for accurate alignment thanks to the increment encoder technology of the RS485 motors. As with all motors in the Sonesse range, the quiet, superior strength motor is recognised



throughout the industry for meeting the needs of even the most high-performing projects. The KNX RS485 motors controllers can also be controlled either individually or by groups allowing for custom zoning and functionalities.

Quiet, adaptable and intuitive, Sonesse motors are designed for all types of projects from commercial to residential, including new builds and renovations.

## Project details

### Location:

Green Square,  
New South Wales

### Type of Building:

Public Library 23,000m<sup>2</sup>

### Owners:

City of Sydney

### Architect:

Stewart Hollenstein

### Certification:

5 Star Green Star Public Building Design

### Commissioning:

Somfy Electrical Services

### Somfy Solutions:

109 Sonesse 50 RS485 motors,  
32 KNX RS485 Motor Controllers,  
Somfy KNX RS485 Blind Control  
System and Smoove Wall  
Mounted Controls

### Manufacturer:

Verosol

### Installer:

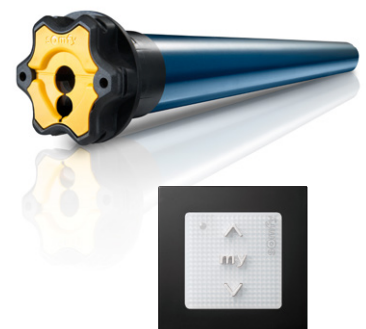
BMC Commercial  
Solutions

### Builder:

John Holland

### Façade Contractor:

JML-Craft (Façade Consultant)



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