

DAYLIGHTING DONE RIGHT: WHY AUTOMATION IS RIGHT FOR YOUR SPACE

Prepared for Mecho by ThinkLab

Humans are creatures of habit when it comes to the built environment. Window shades tend to be brought down but rarely, if ever, brought back up. With demand for spaces that promote health, wellness, and optimal performance, well-designed daylighting strategies are more crucial than ever.

Automated shading maximizes natural daylight potential, provides access to views, creates a clean façade, and promotes happier and healthier occupants.

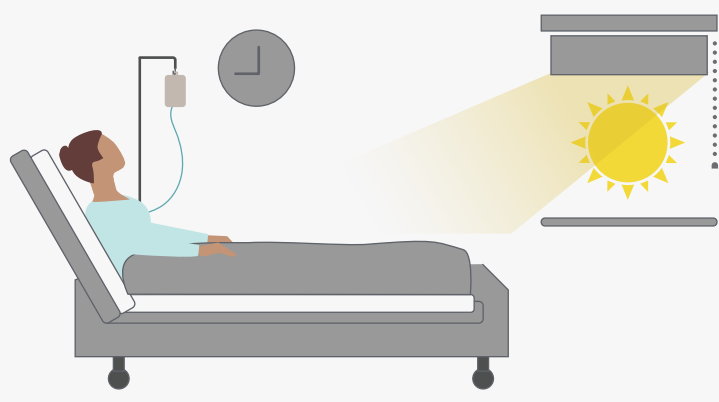
Occupant Health and Wellness

Benefits to the occupant:



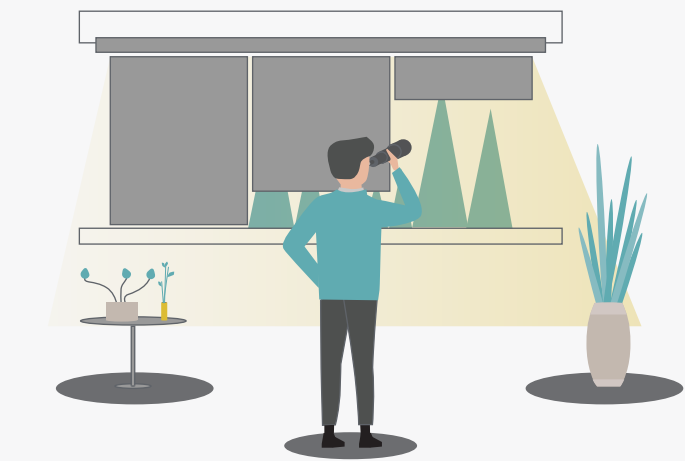
Happier employees and lowered stress:

- Access to sunlight regulates natural serotonin and melatonin, reducing stress and improving sleep quality. Workplaces with more daylight have positive effects on working relationships, leading to greater retention and lower turnover.



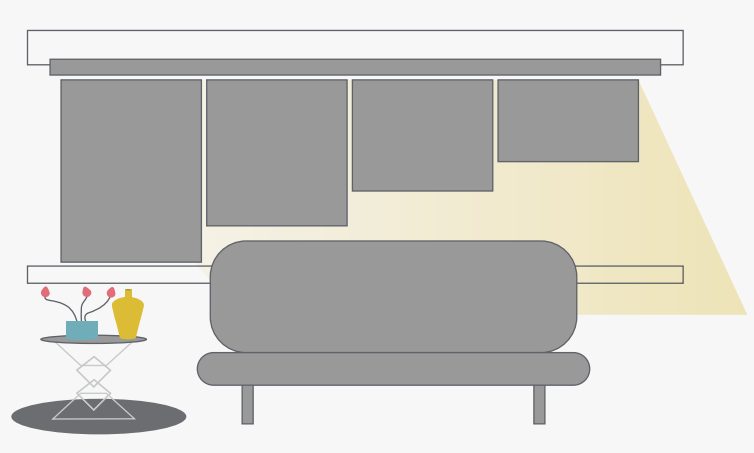
Improved patient recovery:

- Patients with greater access to daylight and views have faster recovery rates and require lower amounts of pain medication.



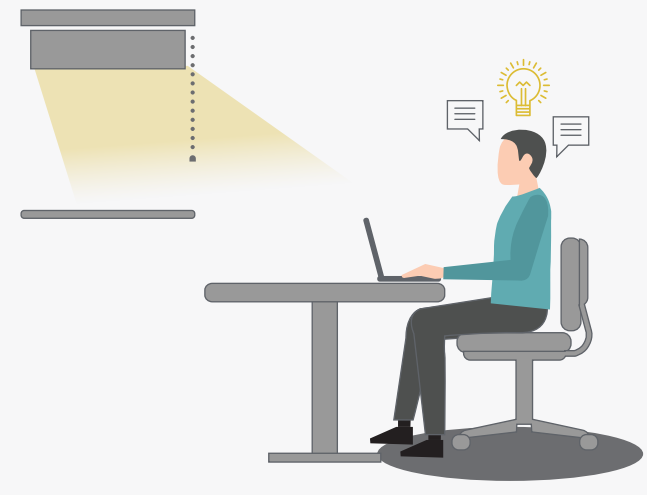
Biophilia:

- Automated shading enables access to views and usable and diffused daylight, which are important elements of biophilic design. Natural light and its variations help eye development and reduces eye strain caused by artificial light.



Comfort:

- An ideal balance of daylighting protects occupants from unwanted heat and glare throughout the day.



Increased productivity and alertness:

- Exposure to natural light increases concentration and decreases mistakes. This is especially critical in healthcare settings.

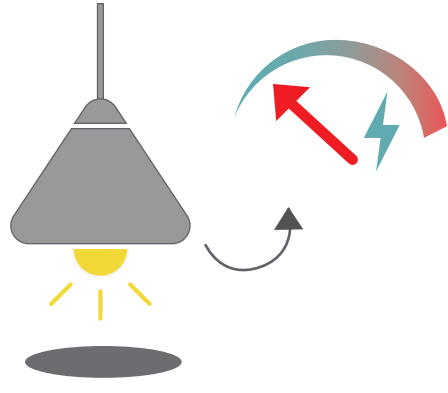


Better student outcomes

- Daylight and views improve student test scores, learning rates, and reduce absenteeism.

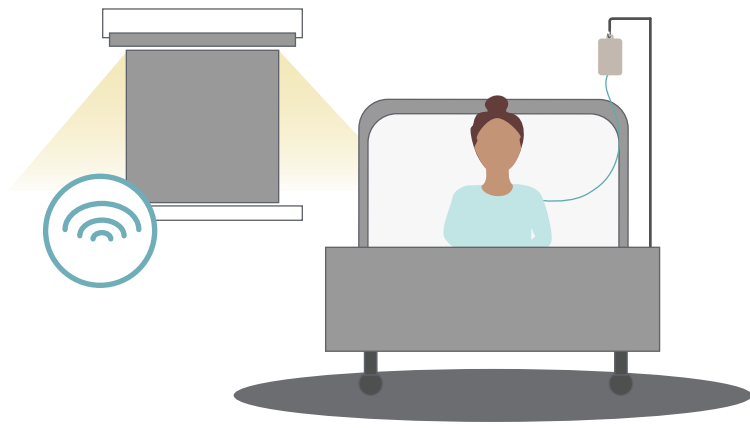
Efficiency & Performance

Benefits to the Facility:



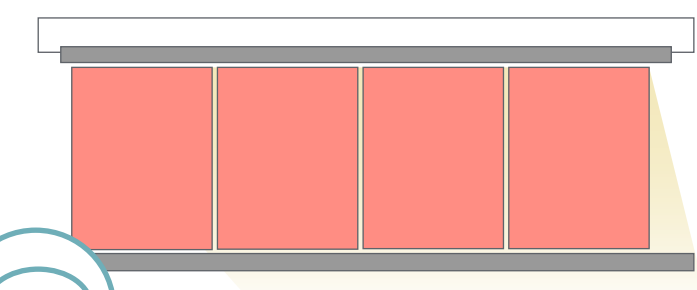
Electricity Savings:

- Lower artificial light use = electricity savings. Automated shades save up to 37% electricity compared to manual shades.



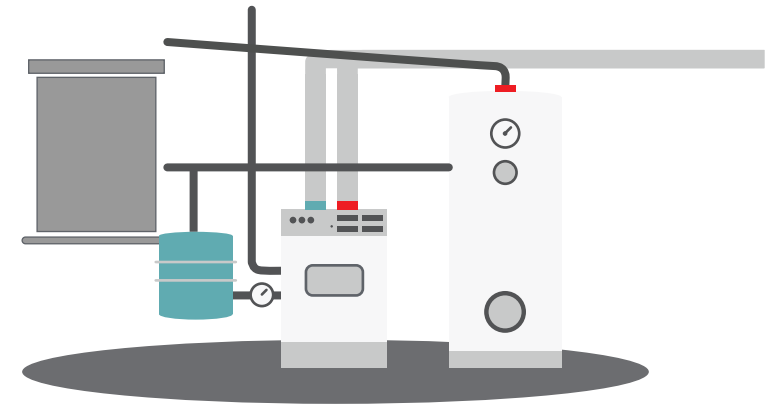
Optimized Healthcare:

- Automated shading in healthcare enables optimal daylight for patients and reduces nurse responsibility to adjust shades.



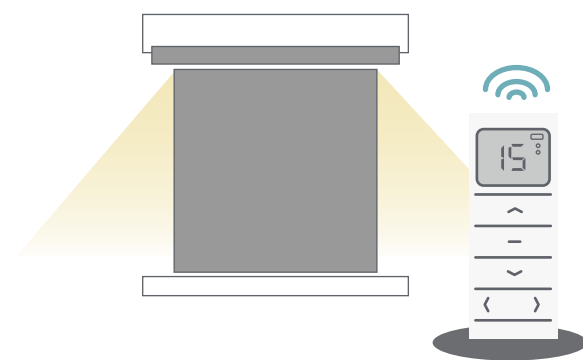
Purposefully aligned:

- Shade bands remain aligned to create a unified aesthetic from the exterior vantage.



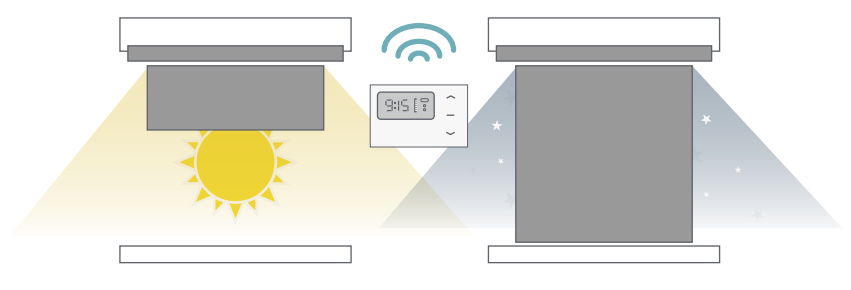
Improved HVAC performance:

- Proper shade and insulation control = improved HVAC performance. In most buildings, incorporating daylighting strategies creates energy savings from 15-40%.



Maximize Available Daylight:

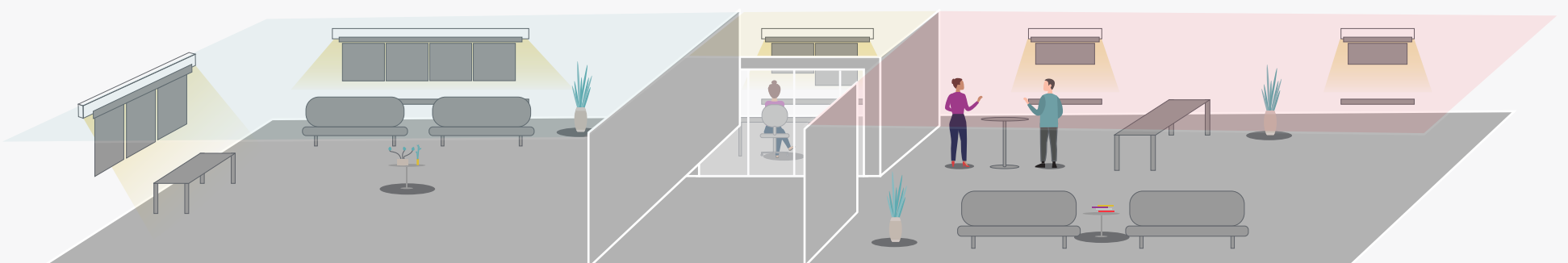
- Programmed automated shades can allow just the right amount of light to capitalize on the benefits of daylight while addressing glare, building insulation, and privacy.



Touchless Technology:

- Automation reduces touch points by eliminating chains and switches.

Automated shading solutions are scalable across different project sizes



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