Effortless Convenience: How Window Coverings Can Boost Workplace Productivity





Workplaces that are adorned by natural light and expansive views counteract the negative impacts of job stress and positively influence general well being.

Over the last few decades, technological changes and new behaviours in the workplace have affected employee productivity and efficiency. With increased daily job demands, and an increase in employee responsibilities and autonomy, there has also been an amplified level of workplace stress and time pressures. Not only has this led to increased sickness absence and presenteeism,¹ which costs the Australian economy about \$34 billion annually,² but productivity levels in the workplace have also decreased dramatically. There are various factors that affect employee productivity in the workplace. In 2016, Harvard Business Review reported that physical location has large effects on employee performance.³ From a design point of view, this can be narrowed down to lighting, ventilation, comfort and health and wellness. For this reason, this whitepaper will discuss how window coverings can boost workplace productivity and uncover the considerations that architects, designers and business owners should keep in mind when aiming to boost productivity within the workplace.



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Key Factors Affecting Productivity

In early 2018, ABC News stated that most Australian's spend 90 percent of their time indoors.⁴ Accordingly, well-designed indoor environments are essential in ensuring people are well positioned to be productive and performing at their best.⁵ Thinking specifically about the workplace, adequate lighting, well-maintained temperatures and good ventilation have been proven to be a great motivator for increased levels of productivity.⁶ Today, employers are aware that the workplace environment plays a crucial role in overall employee experience, allowing them to attract, engage and retain talent.

Adequate Lighting Levels & Maintaining View-Through Keeping in mind that the physical work environment plays a part in boosting overall employee satisfaction, research⁷ suggests that there is a direct correlation between productivity and natural light.

Unlike artificial lighting, natural daylight supports the regulation of Vitamin D, serotonin and melatonin, which not only reduces levels of absenteeism⁸ but also decreases eyestrain and headaches by 51 – 63 percent,⁹ thus increasing employee productivity.

As a way to maximise natural light and views surrounding the interior, architects and designers are increasingly specifying floor-to-ceiling windows. While initially chosen for this reason, large windows often become concealed with blinds and curtains as employees look to combat heat and glare. While heavy blinds and curtains do provide opportunities to save on energy costs, the loss of viewthrough and natural lighting can restrict productivity. As a result, designers and specifiers should opt for window coverings that are able to maintain view-through and keep natural light levels at a premium.

Indeed, workplaces that are adorned by natural light and expansive views counteract the negative impacts of job stress, and positively influence general wellbeing.

<u>Glare</u>

Research¹⁰ indicates that 75 percent of window coverings remain in the same position everyday in a bid to reduce glare. In workspaces, glare can occur from undressed windows and incorrectly installed artificial lighting. Defined as the phenomenon caused by extremely bright light sources or strong brightness contrasts in the visual field,¹¹ glare can often trigger visual discomfort and compel employees to reposition themselves to counter the sun or track light reflections. With an ever-increasing reliance on digital mediums, glare is becoming a growing factor in workplace environments. With computers screens, phones and video conferencing the norm in office environments, acceptable daylight luminance levels have been effected.¹² As screen clarity remains a priority, it is important that specific lighting and performance levels are controlled in order to prevent glare and maximise efficient working conditions.

Visual comfort is achieved when daylight exposure, view-through and glare control are in balance.

Comfort & Ease Of Use

The Department of Energy reported¹³ that smart management of commercial window coverings can reduce heat gain by up to 77 percent – and these same practices can reduce heat loss in the winter. Not relying on air-conditioning or heating systems will also save energy costs and long term running costs with proper window coverings.

Using window coverings manufactured with the correct materials and colours that can reflect heat from the sun will also allow for a comfortable room temperature. Cornell University conducted an experiment¹⁴ to test commercial employee productivity levels and discovered that overall output increased by 150 percent when thermostats and window coverings were set to the ideal room temperature.

Conclusion

When considering products to specify for any commercial interior, it is possible to specify window coverings that allow natural light in, maintains view through, limits glare and increase thermal comfort.¹⁵

In Australia, as employees spend more than 40.2 hours a week at work that environment greatly influences performance and mental framework. To create a productive workplace, designers and architects need to develop a strategy that supports and enables efficient, happier and healthier employees. This can be done with simple design elements that often get overlooked, like window coverings. A good human centred design workplace creates flexible and inclusive spaces, allowing for personalisation but also comfort.¹³



Verosol

For over five decades, Verosol has been the global leader in metallised fabrics. Verosol developed the only proven process for coating textiles with reflective metals. This unique and innovative process is called SilverScreen. SilverScreen is used on window coverings to regulate heat and light in buildings. This high-performance fabric can reflect up to 85 percent of solar radiation before it turns into heat.

Using SilverScreen within commercial environments not only adds view-through irrespective of the sun's intensity, but also provides heat insulation due to the low E-coating. Made out of phthalate-free PVC coated glass fibre yarns, SilverScreen is flame retardant, dust repellent and can save approximately 20 percent of energy consumption in air-conditioned buildings and 10 percent in a non-airconditioned buildings. The technology of bonding reflective metals increases natural light levels within the interior and allows employees to function in an environment where both heat and light are controlled. Hence, employees no longer experience disruptive heat next to the window, and productivity is improved because ambient light is properly managed as a design consideration.

Smart management of commercial window coverings can reduce heat gain by up to 77 percent.



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- 6 ibid
- ⁷ Jeanne C. Meister, "The #1 Office Perk? Natural Light." Harvard Business Review, 3/09/2018, https://hbr.org/2018/09/the-1-office-perk-natural-light
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- ¹² "Lighting Guidance for Offices." Warwick: Health & Safety Services, https://warwick.ac.uk/services/ healthsafetywellbeing/guidance/officelighting/
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Verosol SilverScreen Range Metallised Fabrics

	RANGE	PERFORMANCE	BENEFITS	_
	SilverScreen 202 Performance	85% Solar Reflectance 3% Solar Transmittance 12% Solar Absorptance 2% Openness Factor	Highest Solar Reflection Highest Protection Highest Energy Savings Highest Glare Reduction	
mance View Through	SilverScreen 203 Performance	82% Solar Reflectance 4% Solar Transmittance 14% Solar Absorptance 3% Openness Factor	High Solar Reflection Best View Through Significant Glare Reduction	
	SilverScreen 205 Performance	77% Solar Reflectance 6% Solar Transmittance 17% Solar Absorptance 4% Openness Factor	Improved View Through Best Blend of Performance and View Significant Glare Reduction	Price Savings
Solar Performance	SilverScreen 833 Clearview	79% Solar Reflectance 4% Solar Transmittance 17% Solar Absorptance 3% Openness Factor	180 Degree Viewing Angle Best Off Axis Vision Through PVC Free Significant Glare Reduction	Pri
Greener	SilverScreen 802 Enviro	77% Solar Reflectance 3% Solar Transmittance 20% Solar Absorptance 2% Openness Factor	Strong Performance Unbeatable Green Solution PVC Free CRADLE to CRADLE Certified Significant Glare Reduction	
ee ee	SilverScreen 103 Earth	62% Solar Reflectance 6% Solar Transmittance 32% Solar Absorptance 3% Openness Factor	Good Performance Great Value PVC Free Significant Glare Reduction	
PROVEN OVER 50 YEARS				
	SilverScreen Originals 816, 812, 878, 890	PERFORMANCE 44% to 70% Solar Reflectance 0-23%	Roller Blinds Pleated Blinds Curtain Fabrics Fire Retardant PVC Free	

Openness Factor