

ISPT FIND A PASSIVE SOLUTION TO IMPROVE NABERS ENERGY RATINGS.

USING WINDOW FILM TO OPTIMISE BUILDING ENVELOPE IMPROVEMENTS.



CATEGORY: SOLAR WINDOW FILM
CHALLENGE: INCREASE NABERS ENERGY RATING & TENANT COMFORT

CASE STUDY #103

THE NATIONAL AUSTRALIAN BUILT ENVIRONMENT RATING SYSTEM (NABERS) IS A TOOL THAT HAS BEEN WIDELY ADOPTED THROUGHOUT THE AUSTRALIAN PROPERTY INDUSTRY AND IS AIMED AT DRIVING GREATER SUSTAINABILITY IN THE BUILT ENVIRONMENT.

Many energy conservation approaches, such as optimising HVAC systems, can be incredibly costly and extremely time consuming for building owners. So when ISPT developed a project to improve the energy efficiency of some of their key assets, they started by focusing on envelope upgrades first. Creating a more efficient building envelope through passive solutions (such as window films) enables the maximum possible building performance to be reached, significantly reducing emissions, and increasing energy efficiency - before investing in more expensive solutions.

CHALLENGE:

PARAGON were appointed to install solar window film solutions that would not only help uplift the NABERS Energy ratings of several key ISPT assets but would also improve tenant comfort.

Window films that are designed to reduce the amount of solar energy entering a building work by blocking more than 99% of UV light and 85% of total solar energy while reducing the amount of infrared light entering the building and decreasing varying amounts of visible light entering the building, depending on how dark the film is.

PRODUCT USED:

3M™ PRESTIGE 40: Industry-leading, spectrally-selective film designed to keep everyone cool, comfortable and protected. Allows 40% of natural light and rejects up to 97% of infrared light. Contains non-metallised nano-ceramic technology that provides lower reflectivity than glass.

SOLUTION:

After consultation with all relevant stakeholders one suitable solar window film was determined to achieve ISPT's goals; 3M® Prestige 40.

High-performing, technologically designed window film that provides minimal change to building aesthetics. PARAGON successfully installed the chosen film across 5 individual properties in 3 different cities within requested timeframes and caused little disruption to daily operations.

Most importantly, a solar window film solution helped ISPT achieve their energy efficiency and comfort goals.