



The Basics of Building with BASIX®

Creating BASIX® compliant
homes with smarter windows

Viridian[®]
we ♥ glass



What is **BASIX**®?

BASIX® is designed to reduce water and energy consumption in homes across NSW.

The Building Sustainability Index (BASIX®) aims to deliver equitable, effective water and greenhouse gas reductions across the state. It is mandatory, applies to all residential dwelling types and is part of the development application process in NSW.

These environmental outcomes provide a long term financial saving for the homeowner, along with a valuable contribution to the sustainable future of our communities- it's good for all of us.

So, how is **BASIX**® measured?

BASIX® is broken into three main categories that you need to look at to achieve your BASIX® certificate:



Energy

(Increased BASIX® energy target)



Water

(These targets remain the same as previous requirements)



Thermal Comfort

(Increases to the thermal comfort requirements)

What is the role of Glass in **BASIX**® compliance?

Glass plays an incredibly important role in the new BASIX® targets. Particularly in the Energy and Thermal Comfort sections of compliance. Ordinary glass, used in even the best window frame, will always result in poor insulation. Achieving the right amount of natural light without compromising your design and the amount of energy (heating and cooling) lost through its surface is only achievable by using energy efficiency glass.

Use of quality glass will

- Reduce energy usage by insulating and maintaining temperature inside the home. This has huge impacts on the levels of cooling and heating needed to bring the house to comfortable levels, increasing both your Energy and Thermal Comfort rating to help you meet BASIX® requirement.
- Reduce energy usage through a greater availability of natural light leading to less of a reliance on artificial and powered light.

Viridian glass products that are making a big impact on **BASIX®** compliance

Depending on the needs of the build, Viridian have energy efficient products that will help you achieve a BASIX® certificate for your next build. These are the products that you should be considering:

SmartGlass™

Single glazing with Low E

SmartGlass™ is the first level towards a BASIX® compliant home. SmartGlass™ works like the insulation in your walls and ceiling – with its Low-E coating, it increases your home comfort throughout the seasons by reflecting outside heat away in summer and retaining inside heat in winter.

SmartGlass™ can improve glass insulation by up to 39% compared to ordinary glass.

LightBridge™

Double glazing with Low E

For exceptional performance and quality and versatility you should use LightBridge™. LightBridge™ is our highest performing double glazed unit and it provides exceptional climate, energy and acoustic control as well as allowing you more glazing and natural light than ordinary glass. All this without compromising comfort.

LightBridge™ has shown to prevent up to 77% of heat loss throughout all seasons.

Questions and Further Help

If you have any questions about BASIX® and the impact that the right glass can have in getting your certificate, call your local Viridian Glass representative, or speak to your builder or window fabricator.

For more details on the overall BASIX® legislation, you can visit the NSW government site where the requirements are laid out in detail - planningportal.nsw.gov.au/planning-tools/basix