

# PRODUCT BRIEFING - VIRIDIAN COMFORTPLUS™

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## Selection guide

Viridian **ComfortPlus™** is a high performance residential glass solution that can be used to maximise your home's glazing potential, economically managing both the heat of summer and cold of winter.

## Applications

Where solar control and insulation are required in a single glass, Viridian **ComfortPlus™** provides excellent daylight transmission and low reflectivity for houses and apartments.

## Considerations

Viridian **ComfortPlus™** is a 6.38mm laminated safety glass incorporating solar control and enhanced insulation through its exclusive coating. The coating is applied during the glass manufacturing process which is permanently 'bonded' to the glass surface and is extremely hard and durable. However, its appearance and surface are not the same as standard glass. It requires different cleaning and should be protected during construction from contamination. A degree of haze and coating colour can be observed under certain lighting conditions and samples should be viewed to ascertain the suitability of Viridian **ComfortPlus™** for the application under consideration. This review should include consultation with your building designer / energy adviser to ensure that the properties of the glass match the requirements of the design concept and building standards.

Where colour consistency is important, only use one thickness. For large projects, please consult with Viridian. Viridian **ComfortPlus™** is not designed to prevent surface condensation and its insulating capacity is reduced should this occur. Viridian **ThermoTech™** and Viridian **ThermoTech™ with LowE** insulated glass units, are recommended in these situations.

As Viridian **ComfortPlus™** is a solar control glass, a thermal assessment may be necessary where shading of the glass may occur. This issue should be discussed with your design professional or window fabricator.

## Performance comparison chart

Product	Daylight	Solar	Insulation
Standard Glass	89	0.86	5.9
ComfortPlus Clear	82	0.68	3.6
ComfortPlus Neutral	59	0.51	3.6
ComfortPlus Green	71	0.5	3.6
ComfortPlus Grey	40	0.5	3.6
Thermotech (IGU)	80	0.76	2.7

Standard Glass is 3mm VFloat™ clear.

ComfortPlus™ is a 6.38mm thickness.

ThermoTech™ Unit is a 3mm VFloat™ clear / 12mm air / 3mm VFloat™ clear make-up.

Daylight – is the product's visible light transmission as a percentage.

Solar – is the solar heat gain coefficient (SHGC). The lower the number, the better the performance.

Insulation – is the product's U Value. The lower the number, the better the performance.

Typical measured values of Viridian production are provided.

All performance data is calculated using LBL window 5.2 software, NFRC 100-2001 conditions have been used.

Performance data is centre of glass values.

\*Please note Viridian **ComfortPlus™** Clear 82 is designed to promote passive solar heat gain, refer to [viridianglass.com](http://viridianglass.com) for more information.

## Care guide

Viridian **ComfortPlus™** has a very thin coating on the interior glass surface which cleans differently to ordinary glass. The following guidelines are recommended for the best hand cleaning results.

### General cleaning

Hand cleaning of the coated (interior) surface of Viridian **ComfortPlus™** to visibly remove accumulated dust or fingerprints can be accomplished using a number of different glass cleaning products. The exterior surface of the glass is not coated so can be cleaned in the same fashion as ordinary glass.

### Recommended general cleaning products

- Windex® Glass & Surface (clear liquid, not blue, available from supermarkets), produced by S.C. Johnson & Son.
- A mixture of one part vinegar with ten parts clean water.
- In addition to the above products, commercially available vinegar-based glass cleaners have generally demonstrated an ability to provide a clean, streak-free glass surface.
- Viridian does not recommend the use of ammonia-base and alcohol-base glass cleaners because these products tend to leave visible streaks.

### General cleaning procedure

- Flood the glass surface with the spray-on cleaning solution or with a cloth saturated with the cleaning solution. Be generous with the amount of solution applied.
- Scrub the wetted surface with a clean, lint free towel or cloth.
- Wipe dry with a dry, clean, lint free towel or cloth. Do not use a squeegee on the Viridian **ComfortPlus™** coated (interior) surface.
- To prevent streaking, stop wiping when the glass is almost dry and there is a uniform film of moisture left on the glass surface.

### Spot cleaning

Occasionally spot cleaning may be required to remove stubborn dirt or foreign materials which adhere to the Viridian **ComfortPlus™** surface. Spot cleaning products work to remove markings from grease, oil, tape adhesive and crayons or other waxy materials as well as paint and rub-off marks from plastics.

### Recommended spot cleaning products

- Acetone (available from hardware stores)

### Spot cleaning procedure

- Apply a small quantity of the cleaner listed above to a clean, wet cloth or towel.
- Rub on areas of glass needing spot cleaning.
- Wipe clean using a dry, clean, lint free towel or cloth followed by a general cleaning procedure.

### Specialised cleaning

Do not use razor blades, steel wool or other metallic objects on the Viridian **ComfortPlus™** coated surface. If metallic objects contact the coated surface, a thin layer of metal removed from the object may be deposited onto the Viridian **ComfortPlus™** surface. This results in a discoloured stain, which is difficult to remove using normal cleaning procedures.

### Recommended specialised cleaning products

- Hydrochloric acid (available from hardware stores).

### Specialised cleaning procedure

- Carefully follow the chemical manufacturer's safety instructions.

- Apply a small quantity of the specialised cleaning product listed above to a wet, clean cloth or towel. A cotton bud may be used for thin line type marks.
- Rub on areas of glass needing cleaning.
- Wipe clean using a dry, clean, lint free towel or cloth followed by a general cleaning procedure.
- Ensure that the cleaner does not come into contact with framing materials.

**Further information**

Please visit [viridianglass.com](http://viridianglass.com) or freecall 1800 810 403

For Viridian disclaimer and warranty details please visit our website [viridianglass.com](http://viridianglass.com)

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