

Infinitt E™ | Low-E Glass



INFINITT E IS A SPECIAL LOW-E COATING THAT IS DESIGNED TO INCREASE THE THERMAL PERFORMANCE OF WINDOWS AND REDUCE HEAT TRANSFER.

Low E coatings are designed to reflect long wave radiation from the inside and outside of the building. They are generally non-reflective and highly transparent.

A passive (hard coated) low-e coating will help to prevent heat escaping the building during winter, and at the same time allow short wave radiation from the sun to warm the building - a very effective way to increase the thermal efficiency of a building situated in a cold climate.

A soft coated low-e coating must be incorporated into an insulating glass unit or laminate as the surface is less durable than the hard coated surface. The soft coat however has a lower emissivity

and will prevent heat from entering the building as well as from escaping. This coating is recommended for hotter climates where the interior of a building must be kept cool.

The coatings are perfect to use in IGUs and in conjunction with a tinted coating in order to control the solar gain.

Benefits:

- Improve thermal efficiency of windows
- Improved thermal insulation
- Promotes passive solar heat gain
- Improved solar control performance when used in conjunction with tinted coatings.

APPLICATIONS

- Office Buildings
- Hotels
- Commercial Facades
- Institutional Buildings
- Residential Facades

PERFORMANCE/ SPECIFYING

Infinitt E low-E coating increases the thermal performance of windows by reflecting the long wave heat radiation. This is best measured using the U-Value, which is a measure of the rate of heat gain or loss through glazing due to temperature differences of the internal and external environments. All glass must be engineered to specific code and design, please contact Woods Glass to find out more information.

CLEANING/ MAINTENANCE

Normally when cleaning glass, a vinegar-based glass cleaner or mild dish soap and water with a soft, lint-free cloth or paper products is recommended. A squeegee or soft cloth may be carefully used to dry the glass and help avoid water spots.

It is not recommended to use petroleum-based cleaners or solvents as they can streak the glass and weaken the seal between the glass and frame. Avoid washing in direct sunlight to reduce streaking on the glass.

Never use razor blades, steel wool, putty knives or abrasive pads as they may damage the glass, particularly on toughened glass.

RANGE

Many different thicknesses and tints are available for Infinitt E. It can also be applied to laminated glass, IGUs and combined with other products to increase solar control. Infinitt E comes in both soft and hard coatings and specification is dependant upon the climate where it will be installed. Woods are able to supply many options so please contact us to discuss special requirements.

BUILDING CODES

- NZS 4223.1 'Glazing in buildings - Glass selection and glazing',
- NZS 4223.3 'Glazing in buildings - Human impact safety requirements',
- AS/NZS2208 - Building safety glazing materials

GLASS TYPES

Monolithic, Laminated, Toughened, IGU

Glass Type	Make-up	U Value
4mm Float	4	5.88
4mm Infinitt E	4	3.67
IGU Clear	4/6as/4	3.14
IGU Argon	4/8as/4	2.71
IGU Infinitt E	4/6as/4	2.53
IGU Infinitt E Argon	4/8as/4	1.83

KEY

- as = airspace
- A = Acoustic
- IGU = Insulating Glass Unit

Please ensure the current data sheet is consulted prior to specification. If in doubt please contact Woods Glass.