The background of the advertisement is a photograph of a modern lounge area. In the foreground, there are several teal-colored armchairs arranged around a circular glass coffee table. The room features large floor-to-ceiling windows that offer a view of a tropical landscape with palm trees. The overall color palette is dominated by teal and blue tones.

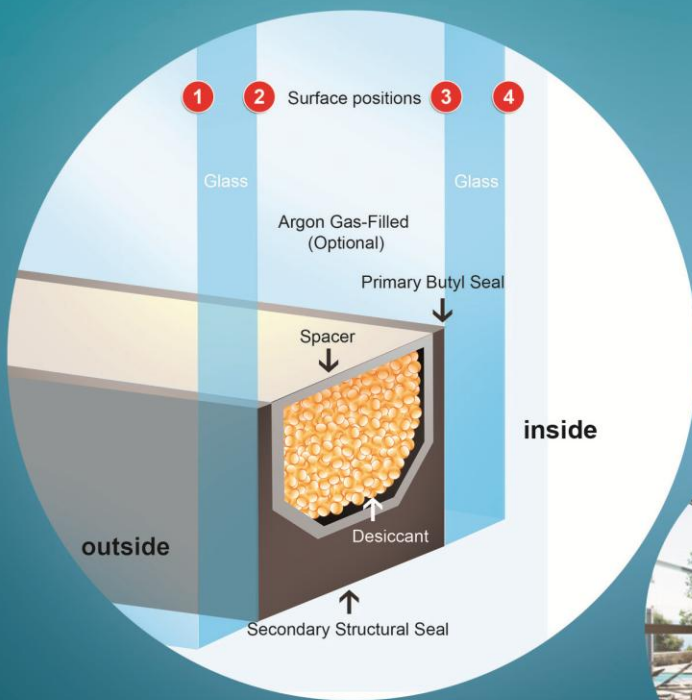
YOUR
WINDOW
TO EFFICIENCY

ThermaPro[®]
Insulated Glass Unit
Double Glazed

Glass panels in residential and commercial establishments play a significant role in maintaining a comfortable living and working environment. Glass has been widely used because it can allow amounts of daylight in your home, plus it provides greater aesthetics and protection against the elements. However, ordinary glass panels can transmit unwanted excess heat especially in warm, humid places like the Philippines. What people do to counteract the heat is through heavy usage of air conditioning which leads to excessive energy consumption.

Through modern advancements in glass manufacturing, Glasstemp introduces the **ThermaPro®** Insulated Glass Unit – an effective means of improving insulation performance of virtually any infrastructure in the most economical, sustainable, and natural way.

ThermaPro® Insulated Glass Units by Glasstemp consists of two or more sheets of glass separated by a hermetically sealed hollow aluminum spacer that features desiccant and an air-filled space that can absorb humidity. This hollow space can significantly cut down heat or cold buildup, reduce noise penetration, and decrease UV transmission, making this glass unit an energy-efficient alternative to ordinary glass paneling.



ThermaPro® Insulated Glass Units are manufactured on a made-to-order basis. Glass panes are cut to size and washed for optimum clarity while air spacers of specified thicknesses are cut and assembled into the required overall dimensions. An adhesive sealant holds the spacer and glass together. Each unit is then sealed on the edges using structural silicone sealant to prevent humid air from entering the units, guaranteeing a clear view any time of the year.

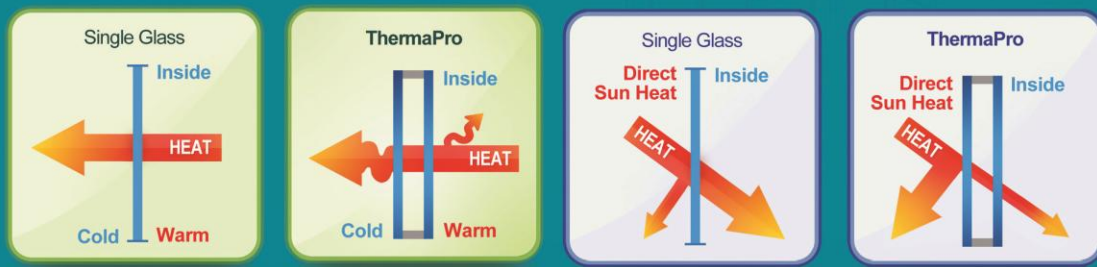
Exceptional Functions

Lower UV transmissions

ThermaPro® reduces direct heat from the sun more efficiently than ordinary single glazing. It limits harmful UV transmissions that can potentially do damage on your indoor furniture and fixings made from wood, leather, or ceramic materials.

Temperature control

Ordinary single glass panes cannot efficiently block heat coming from direct sunlight. ThermaPro® gives you better temperature control in your home by effectively blocking excess amounts of heat from transmission, re-radiation, conduction and convection. In addition, ThermaPro® can also cut the amount of heat transferred from inside your home during cold climates potentially being the most efficient, cost-effective, and environment friendly thermal control system you may have ever installed in your home.



Condensation control

Condensation on windows can potentially damage window frames and sills and seep into walls and other adjoining areas. ThermaPro® reduces the likelihood of condensation by forming a thermal barrier between the inside and outside of your home. Plus, the hollow desiccant and air-filled space between a ThermaPro® prevents the buildup of moisture within the unit, assuring you a clear view from your home, day or night, summer or rain.

Features and Benefits

- Low energy costs
- Improved comfort
- Low UV transmission
- Noise reduction
- Increased security
- Increased wind load strength

**For High
Performance
Glazing, Use
Soft Coat
Low-E Glass**

Our Commitment

ThermaPro® Insulated Glass Units can be customized to meet performance needs or to conform to your specific project requirements. Our insulated glass units can be composed of glass panes with thickness that range from 3mm to 15mm. Diversity with the choices of glass material with air spaces of varying widths allows you to have a unit of up to 48mm thick. Glasstemp also offers the largest insulated glass units in the Philippines with a maximum size of 2450 mm x 3150 mm.

Glass performance data is available upon request.

Applications

Today, ThermaPro® can be seen in:

- Windows of residential and commercial establishments
- Small and large fixed panels
- Curtain walls
- Conference rooms, studios, control rooms, refrigeration machines

Standard Conformance

- Flat Glass Specification (**PNS 193:2012 ICS 81.040.20**)
- Standard Specification for Heat-Treated Flat Glass – Kind HS, Kind FT Coated and Uncoated glass (**PNS ASTM C 1048:2005**)
- Glass in Building – Laminated Glass and laminated safety glass – Part 5: Dimensions and edge finishing (**PNS ISO 12543-5:2011**)
- Glass in building – Laminated Glass and laminated safety glass – Part 6: Appearance (**PNS ISO 12543-6:2011**)
- Glass in building - Coated glass – Part 1: Physical defects (**PNS ISO 11479-1:2012**)

Unique ThermaPro® Combinations

- Clear Float Glass
- Tinted Float Glass
- Reflective Coated Glass
- Soft Coat Low-E Glass
- Hard Coat Low-E Glass
- Tempered Glass
- Laminated Glass



ThermaPro®
Insulated Glass Unit



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