



Solar Buildings in ETFE

***Conservatories * Greenhouses * Sun Rooms
Butterfly Farms * Bio Chambers***

Better light transmission and heat retention than structures using glass.

- *Plants grow faster and healthier because they receive the full spectrum of light.*
- *All year Gardening*
- *Get a natural suntan as ETFE allows the UVB tanning rays through better than glass.*
- *Internal temperatures can be up to 50% above ambient*
- *30% higher temperature retention than single thickness glass*

Lightweight ETFE

- *Support Structures require less strength and will therefore cost less.*

Patented design

- *The unique and innovative design allows the premade panels to be slotted together to form a variety of design solutions*
- *ETFE will not support combustion and are safer in use, requiring fewer fire exits than where other plastic construction materials are used.*
- *ETFE exhibits very low co-efficient of friction, which means that dirt finds it very difficult to adhere to the panels; they are thus "self cleaning".*

Using the unsurpassed optical properties of ETFE, in thin gauges, to replace glass, has often been attempted. The many advantages of its use in Architectural Constructions have long been recognised and has been a familiar sight in such structures as the Eden Project and the Beijing Olympic Swimming Pool. But the designs have been cumbersome and high on maintenance costs. The pillowed design relies on a constant air pressure being applied. So the search has been on for simpler, more easy maintenance alternatives. Some have shown promise and others have fallen by the wayside, due mainly to the complexity and therefore the cost, of supporting thin films to be used in direct contact with atmospheric weathering.

In a novel development, a patented modular panels system is now available, (UK Patent Application 0905286.1). This allows double glazed panels in ETFE (treated or untreated) to be fitted as glazing to most applications. This novel concept opens up a wealth of new and exciting possible applications.

The real novelty of these panels is that they are not pressurised, so costly systems to maintain film tension are not required. Retro-fitting to existing structures, such as greenhouses is entirely practical.

So now the massive benefits of a lighter, less fragile and more robust material with better light transmission and heat retention can be enjoyed by a huge range applications in industry, leisure and even retail areas.



Holscot is looking for interested parties, who want to use these panels in novel applications. Exclusive territories and applications are still available. For more information contact

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