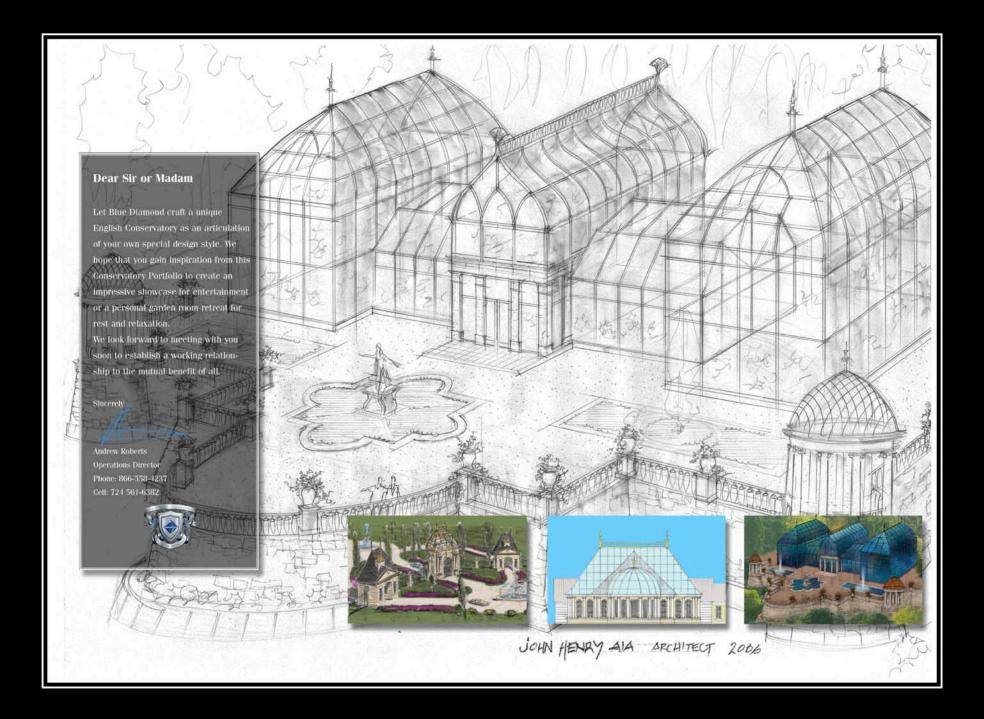
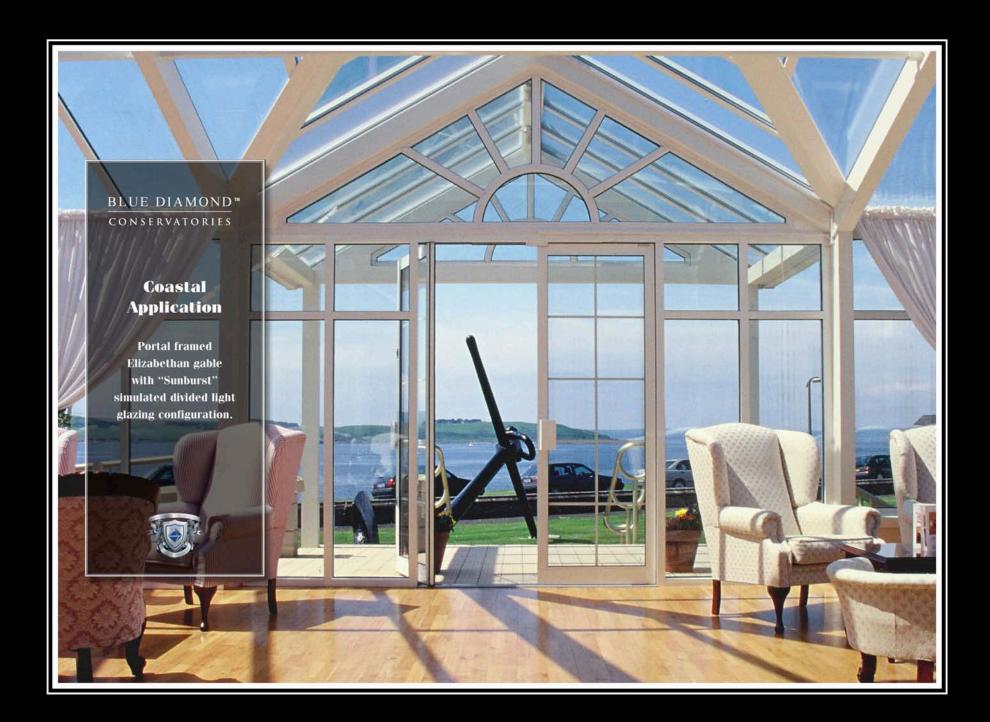


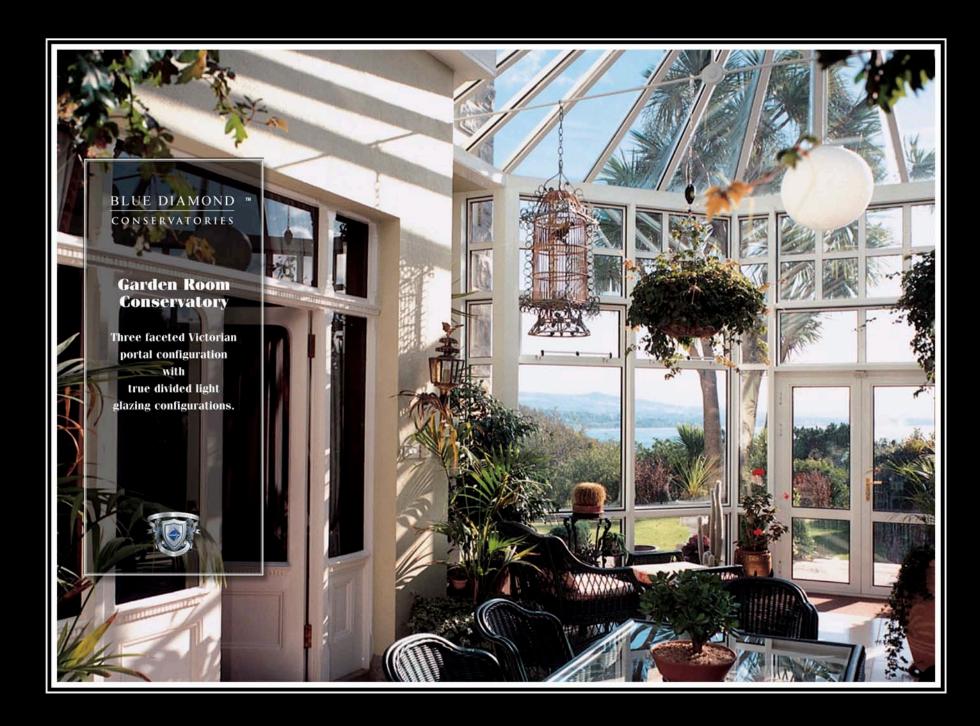
BLUE DIAMOND CONSERVATORIES

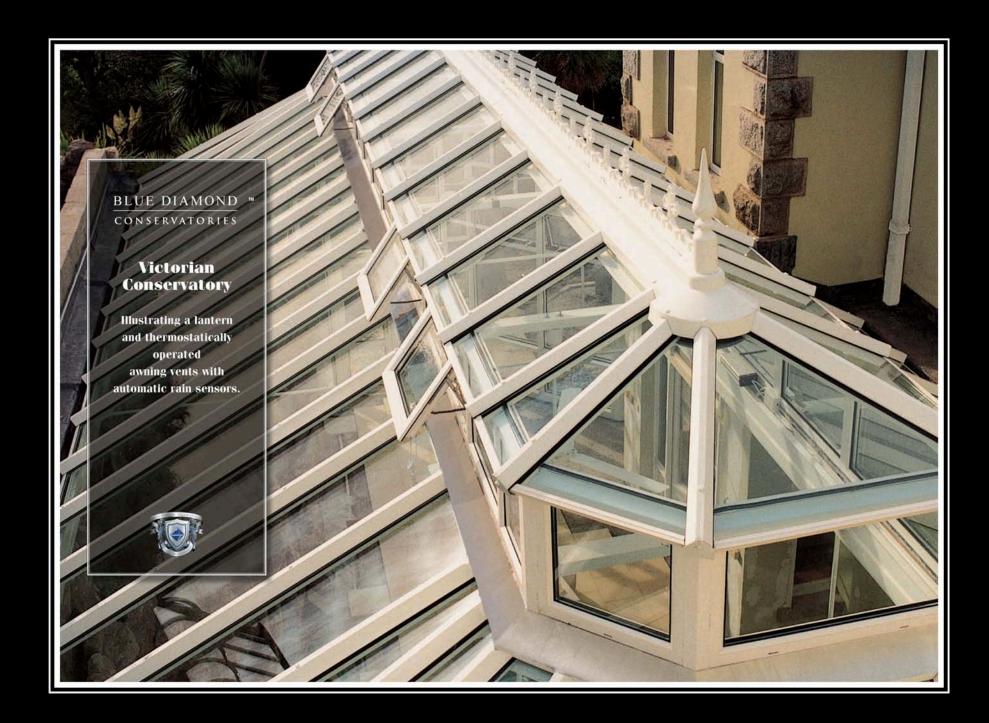
· Conservatories of Distinction ·



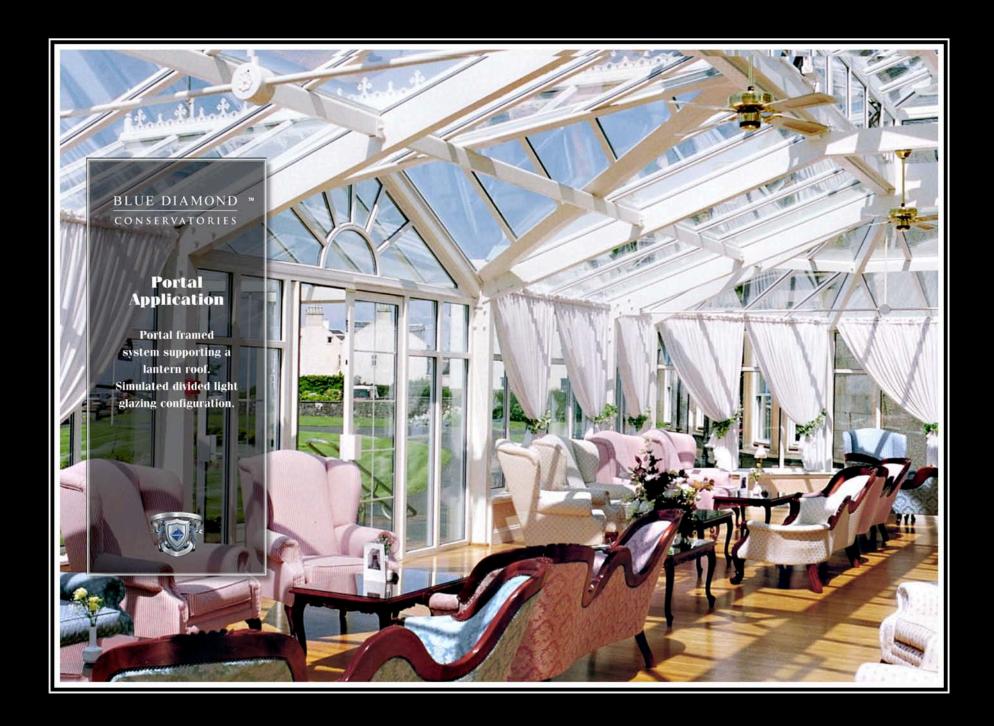


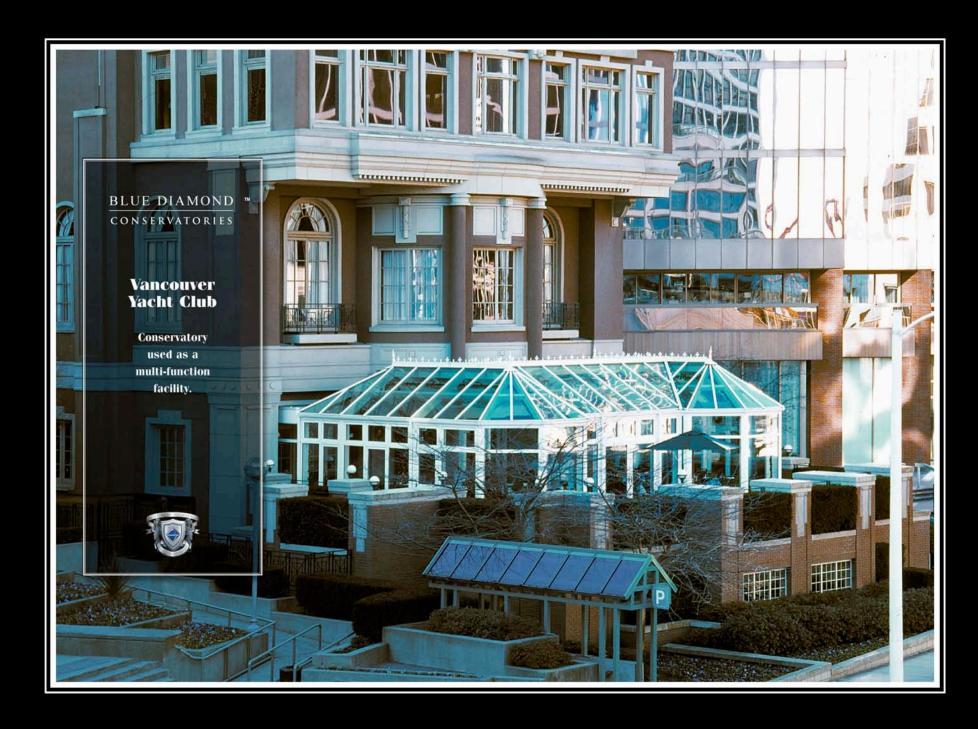






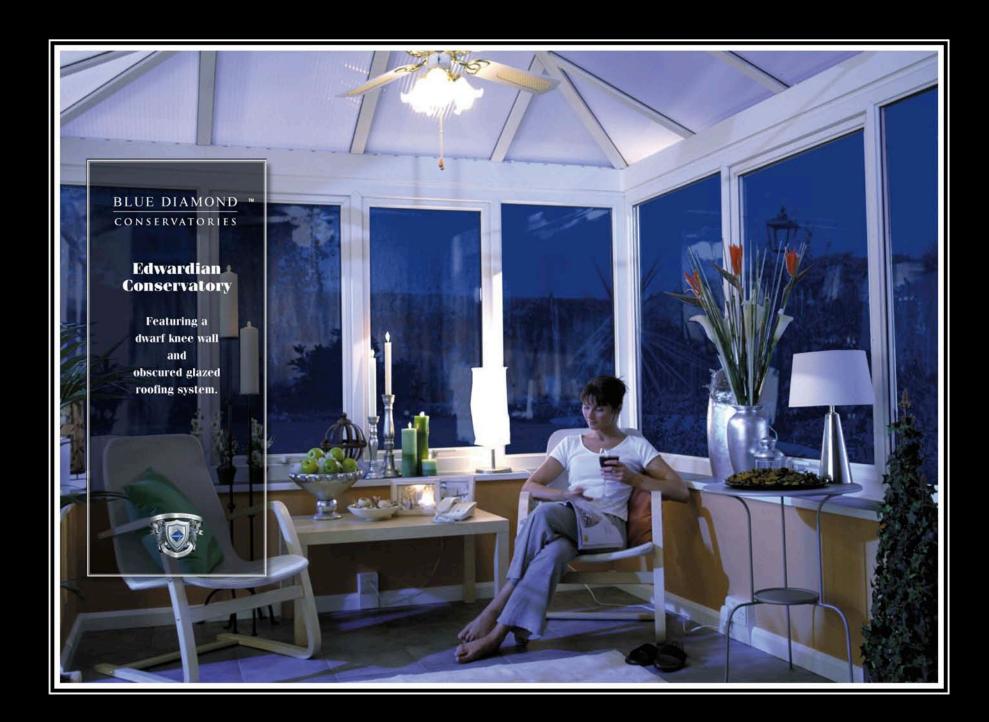




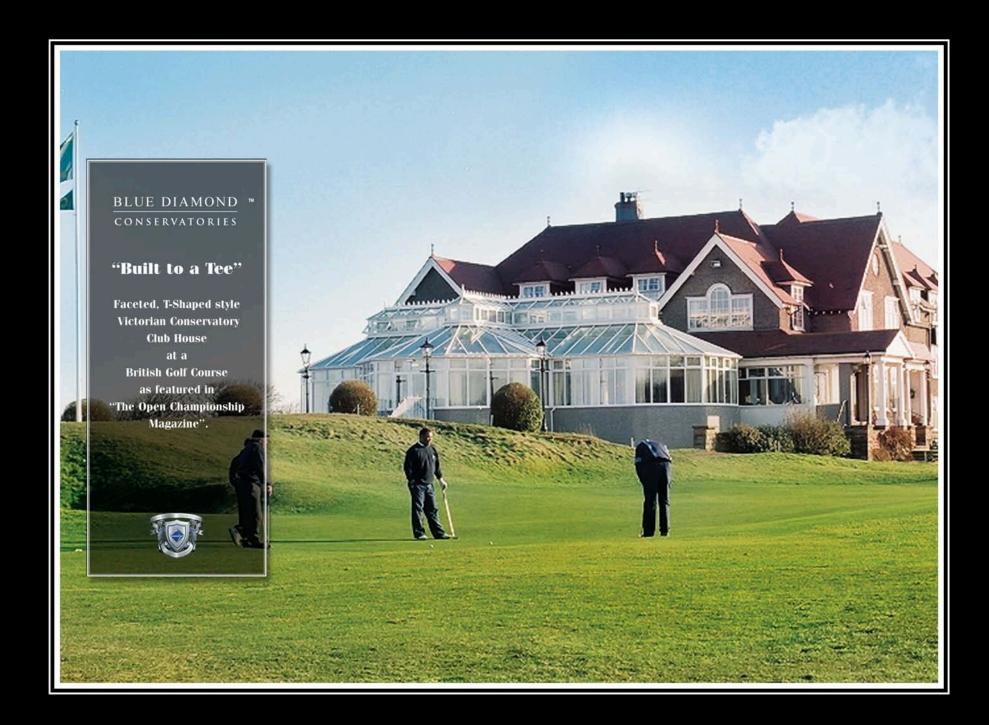




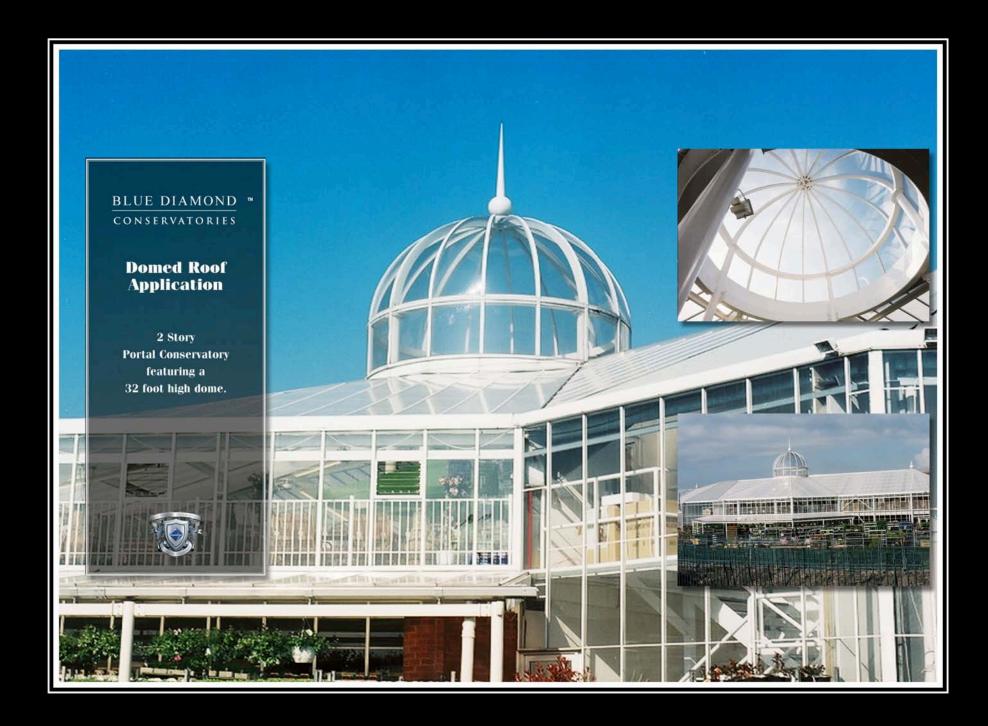














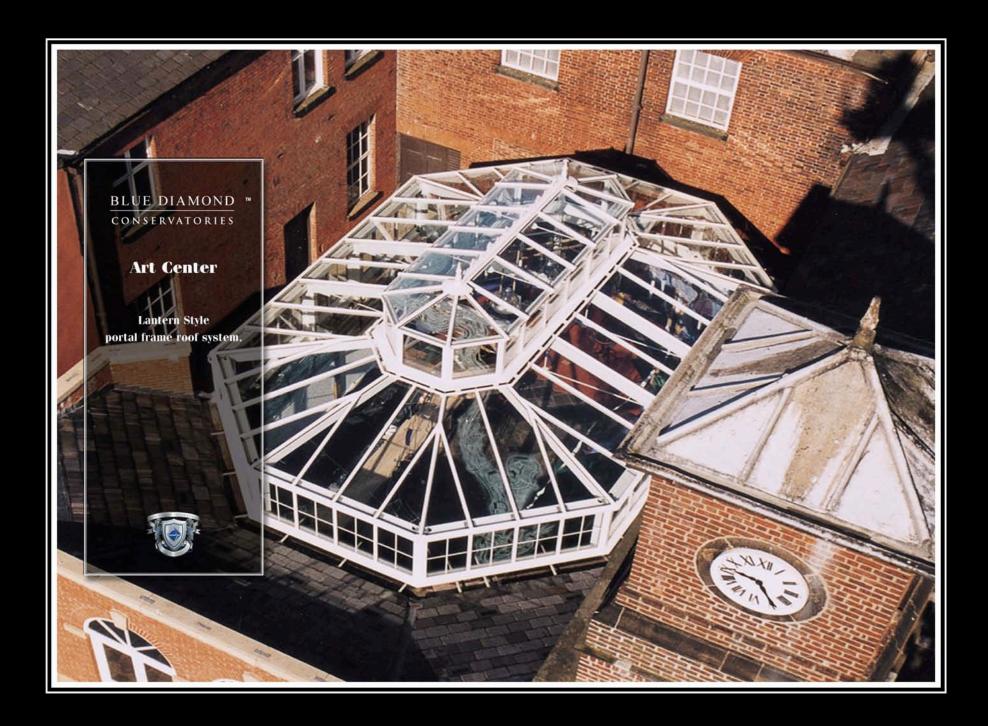


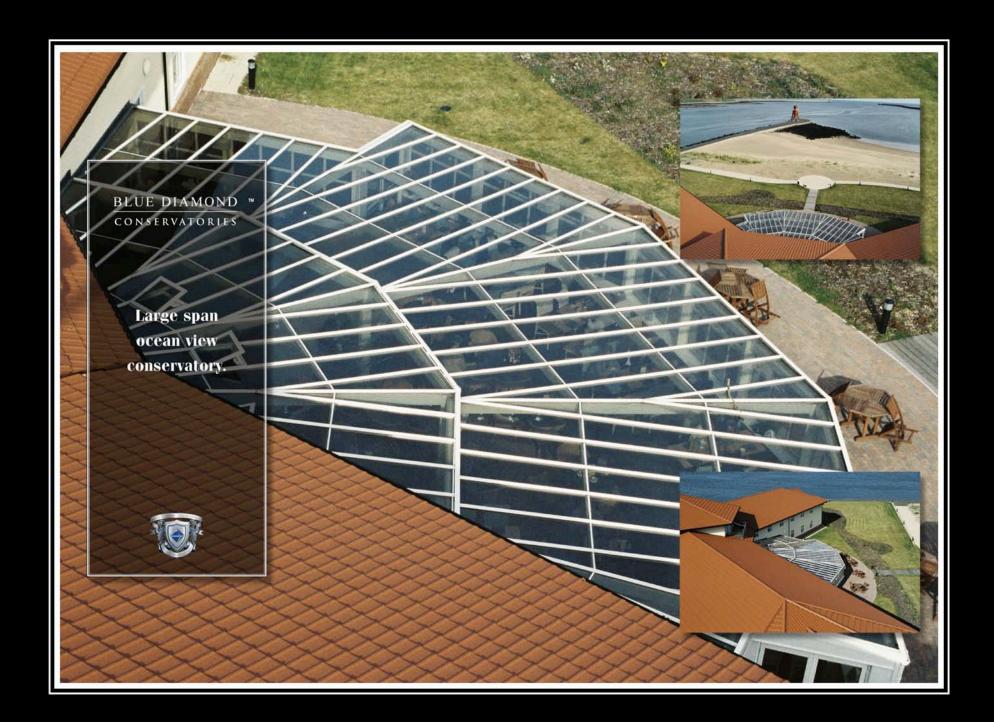


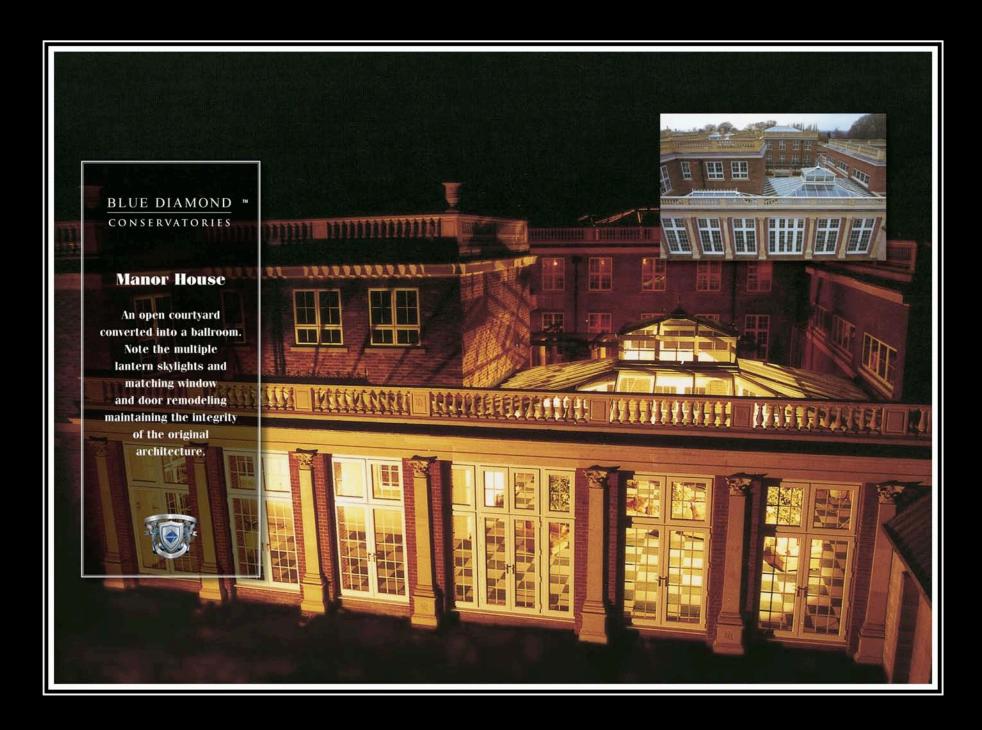






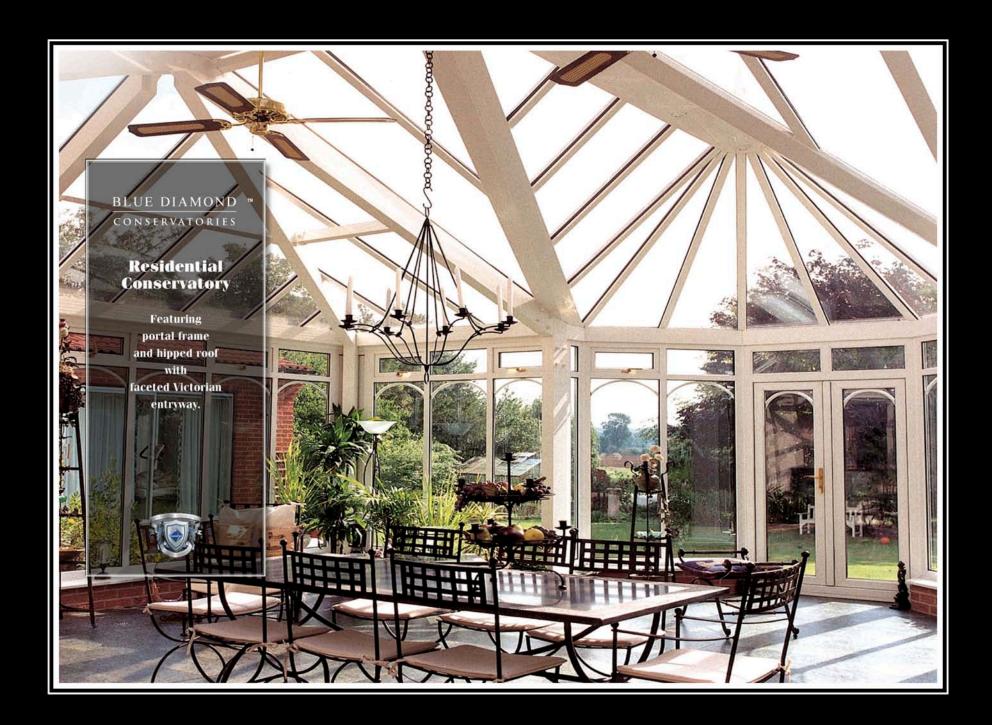














Glass is the largest surface area in any conservatory and damaging UV light can penetrate it to destroy fine furniture and art while a poorly insulated unit can

Transmittance % Reflectivity %

55 24 < 0.5 17 20 63

55 24 < 0.5 17 20 61

54 23 <0.5 17 19 61

10 17

XX XX XX XX

11

57 0.38 0.33

13

16 10

cause energy loss. Blue Diamond Conservatories offers the finest high performance glazing products available in the market. Known as EnviroGlaze II" it is the ultimate solution for year-round protection, comfort and cost savings.

EnviroGlaze II™ North - Frames

Krypton Gas Filled - 5/32"(4mm) Tempered/ 5/32"(4mm) Tempered For climates that have varying degrees of temperature and humidity, experience snowfall and rainfall at least a quarter of the year.

EnviroGlaze II™ South - Frames

Argon Gas Filled - 5/32"(4mm) Tempered/ 5/32"(4mm) Tempered For climates that have high heat indexes and experience high temperatures, humidity, and are exposed to intense UV light most of the year.

EnviroGlaze II™ Roof

BDC EnviroGlaze™ North - Frames

BDC EnviroGlaze™ South - Frames

BDC EnviroGlaze™ Roof 20' Slope

BDC HeatGuard™ Polycarbonate

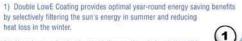
Best of the Rest - Roof 20° Slope

Best of the Rest - Frames

Argon Gas Filled - 5/32"(4mm) Tempered/ 1/4"(6mm) Laminate The perfect balance for all climatic environments specifically designed for horizontal and sloped surfaces which are exposed to the sun all hours of the day.

Blue Diamond Conservatories Glazing Comparisons

Features of EnviroGlaze II™



- 2) Absorbent and reflective insulating coatings helps deflect UV light as well as warm air in the summer and cold air in the winter.
- Dual Stainless Steel Spacers improve thermal performance while maintaining the structural integrity and gas/moisture retention properties required of a spacer bar. Enhances performance of Lowe? coatings and gas filled units.

WHAT'S

ASHRAE Winter

0.11 9.26

0.15 6.67

0.25 4.00

0.25 4.0

0.30 0.16

- Dessicant filling for increased protection against moisture absorption.
- Overall 1-1/8" (28mm) Insulated glass unit is optimal for sound insulation and thermal performance.
- 6) Dual PIB seals prevent air leaks. EnviroGlaze II™ sealants that offer the best possible performance.

Solar Heat Gain Coefficient

0.30

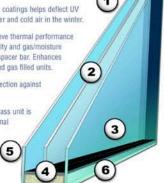
0.30

0.34

0.35

0.35

XX XX



Balance is Key

A well balanced glazing package is critical to energy efficiency. All LowE glass packages provide for a high R-value, but results can vary on SHGC (Solar Heat Gain Coefficient). In climates where energy consumption is dominated by air conditioning, a low SHGC is preferred to help block the heat transference from the sun. In climates, where energy consumption is dominated by heating, a high SHGC is preferred to let the warmth of the sun help heat a structure. Although LowE packages which provide high Rvalues may seem the best choice, it may actually be worse if it has a very low SHGC. Therefore, it is extremely impor-

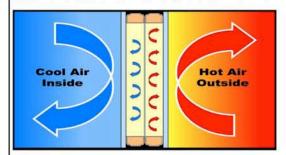
tant that the best glass package

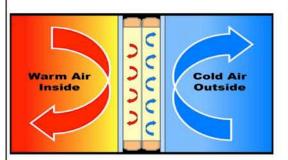
for the region is chosen and EnviroGlaze II™ is one of the most energy efficient glass packages available in any Conservatory today. This critical balance between R-Value and SHGC needs to be achieved without lowering the visible light significantly. EnviroGlaze II™ offers the best visible light to R-Value ratio on the market today.

25 57 0.18 0.15

EnviroGlazeTM data obtained using (Laurence Berkeley Laboratories) • Window 5.2 analysis program American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) • National Fenestration Rating Council (NFRC)

EnviroGlaze II™ features two LowE coated layers combined with a triple glazed unit, producing a greatly superior double insulation barrier. In the spring and summer the hot outside air cannot easily heat the inside pane, so warming of the internal air conditioned cool air is minimized. EnviroGlaze II™ acts as a barrier on both sides of the glass. The cool air on the inside of your home is deflected





off of the glass to maintain a constant cycle of cool air throughout the Conservatory. The hot air outside is deflected the same way to prevent energy loss from inside the home. In the fall and winter, the double insulation barrier helps to prevent the warm inside air from leaking through to the external cold pane. Warm air is deflected off the interior surface of the glass and cool air on the outside, which causes energy loss and discomfort, is prevented from penetrating your home. EnviroGlaze IITM also filters out almost all harmful Ultra-Violet light and retards the damage to furniture, carpets and artwork.

NOTE - Color change or fading is caused by a number of factors of which UV exposure is one of them. See other Blue Diamond Conservatories information sheets on the factors behind color change and fading.