



### THIS STRUCTURE

Under went a re cladding in the fall of 2007. Instead of re-cladding it with the good OLD twin wall polycarbonate, we installed new multi walled polycarbonate. The total reduction in heating at design conditions was 250,000 BTU's per hour. Folks that is huge.

Now consider if this was a new build. Sure there was a small premium for the multi wall product, but when you consider the additional cost of the related heating equipment as related to the old cladding. It simply becomes a wash. Your project totals will just about be the same. But ... now for the good news. For each and very year of operation you will be savings those hard earned dollars and putting them in YOUR pocket instead of the utility company.

Now, That is a wise investment.

#### Energy Savings/ Conservation.

Since the start of model year 2007 we have been furnishing 8 mm triple wall polycarbonate on all our greenhouse projects.

Why you ask ? We wish for you to save some of your hard earned money.

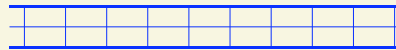
Triple Polycarbonate saves approximately 8 to 13% on uour heat loss.

Suggestion. Insist on Triple wall polycarbonate on all your new projects and retrofits. If you supply doesn't wish to furnish them ... dump them. It's as simple as that folks.



8 mm Twin Wall Polycarbonate- one air space

At - 20 def. F outdoor conditions a 1000 sq. ft. of the above will loose 53,100 BTU's per hour



8 mm Triple Wall Polycarbonate- Two air spaces

At - 20 def. F outdoor conditions a 1000 sq. ft. of the above will loose 46,800 BTU's per hour. Hey folks that is a savings of 6,300 BTU's per hour. Big deal right. How about the per year savings. Well how does 12,877,200 BTU's savings per year, based on an average outdoor temperature of 49 deg. F. during the heating season sound. It is true.

### ENERGY CONSERVATION

Whenever possible energy conservation should be the golden rule of reduction of operating costs.

The first rule of the golden rule should be conservation of energy requirements due to careful selection of cladding types. If chosen unwisely or simply selected because they are cheaper, this approach will bleed your operation dry on the operating costs.

Here's a case in point. Using 8 mm triple wall polycarbonate verses 8 mm twin wall polycarbonate will reduce your heat loss by 11%. All which we may add. At very little extra cost.

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# 8 MM TRIPLE WALL

## POLYCARBONATE



### ENERGY EFFICIENCY

In todays energy environment the cost to heat greenhouse structures have imposed great challenges to the viability and success of any greenhouse operation where they be an established business or a new business.

Careful selection of thermally efficient cladding systems is just like putting money in the bank.

# 8 mm Triple Wall Polycarbonate



## NOT CONVINCED

*Here's a greenhouse project constructed in 2007 using 8 mm triple wall polycarbonate. There is over 5,700 sq. feet of exposed polycarbonate wall area on the gutter houses and 1800 sq. feet on the freestanding houses. That's 5500 sq. ft. of exposed area. This location faces those ugly -20 deg. F many hours of the heating season. Based on local weather data this house uses 876,687,600 BTU's / yr. less heat than if it was clad in twin wall.*



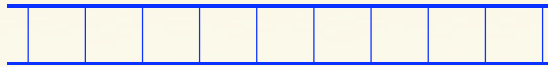
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Ah the age old reason why not. The shade issue. hey is very very little difference in the shade factor. And really when you consider the increased dewpoint temperature of the cladding, the less the condensation, so really in a true greenhouse environment the triple wall product will impose less shade.



## 8 MM POLYCARBONATE COMPARISON

	TRIPLE WALL	TWIN WALL
SHADE	81	80
U VALUE	0.52	0.59
WEIGHT ( LS./SQ.FT)	0.35	0.35
DEWPOINT TEMP.	HIGHER	LOWER

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