



Information about Double glazing



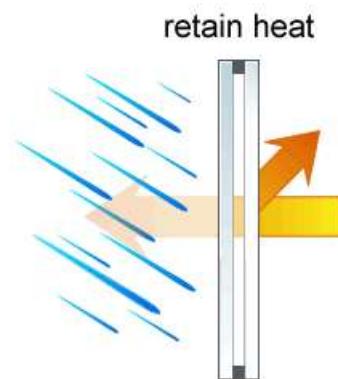
Double glazed windows have for many years been considered an expensive none essential item for your home. It has only been since 2004 when the government decided that all new homes needed to meet a minimum of 4 stars and now beyond that you the consumer have decided to investigate the possibility of double glazing windows and doors.

Fortunately the change in regulations has meant that companies within Australia have invested money into establishing very efficiently run and managed Double glazed manufacturing lines. Hence the product has become much more costs effective. Along with Aluminium companies specially designing windows and door suite to cater for the thickness and weight of Double glazed units.

Considering windows and doors often make up the majority of the external wall space it only seems practically to install windows and doors that will reduce the annual costs of heating and cooling your home. Single glazed windows are often the weakest link in relation to the energy performance of your home. On a cold winter day single glazed window can lose an enormous amount of heat, sitting or standing near them you can feel the cold air seeking through the glass, some traditional central heating outlets are often place over the windows to heat this air before it enters the room. Just imagine the saving in running costs if this air was not as cold.

Think of a Double glazed unit as a speed hump for air. Air will always transfer through a surface but as glass can be a thin as 3mm it's less resistant than walls, ceiling and floors.

Therefore it transfer thought at a quicker rate. A double glazed unit is made up of two pieces of glass that have a spacer between and the outside silicone sealed. The outside air has to penetrate the outer piece of glass move through the air between in the unit and then pass through the inner layer of glass. Therefore it takes longer for both the outside air to move into the home and hence the warmer air stays in the home longer as well.



On average the rate of transfer take about 40% longer, therefore reducing heating and cooling bills by a minimum of 40%. By choosing different glass combination in the makeup of the unit and using argon gas between the layer a higher percentage can be achieved.

Double glazing not only reduces your energy bills but also provides a more comfortable and quieter home with fewer condensation problems. With energy and green house gases Reduction being the future of housing it only seems practical to seriously consider double glazing your windows and doors. The above benefits not only affect costs saving while you're living in the home but also will benefit the home in the resale market.

What is double Glazing?

Double Glazing is insulation for glass windows and doors. By sealing a narrow pocket of still dry air between two separate sheets of glass, you significantly improve the insulating performance of the window. A Double glazed unit can be known as a DGU or a IGU.

How Much More Energy Efficient Is Double Glazing?

As much as 30% of the heat lost from your home is through windows. This could cost you hundreds of extra dollars every year in heating and cooling bills. Double-glazing is extremely energy efficient, cutting these heat losses by up to 50%, reducing the need for extra heating and, in turn, helping the environment.

Is laminated glass or thicker glass as good as double glazing?

There are many types of glass that can be used when double-glazing, however it is the still air between the panes of glass that is the insulator, not the glass itself.

For example, the heat from inside your home escapes through a single-glazed window by heating the glass and escaping. When you double-glaze your windows, the inside heat must first penetrate the inside pane before slowly heating the air between the glass, and finally escaping through the second pane. Heat retention is significantly higher using double-glazing, no matter what type of glass you choose.

Will Double Glazing Stop the Sun's Heat in summer?

Just as Double-Glazing does not stop the flow of sunlight into your home, nor will it stop the heat that is generated by the sun shining through your windows. Your DLG Consultant can advise you on glass option to install into the Double glazed unit that will assist in preventing heat from the summer sun.

Are Double Glazed Windows Vacuum Sealed?

No. If the glass panes were vacuum-sealed, they would collapse towards each other, causing visual distortion and breakage. They are however, hermetically sealed to protect against condensation as well as the penetration of dirt between the glass.

Is Double Glazing Good For Noise Reduction?

The Principal role of thermal Double-Glazing is to insulate your home. Whilst Double-Glazing may reduce the level of outside noise audible within your home, this is not its primary function.

Can I Use Tinted glass when double Glazing?

Yes. There are many types of glass and glazing combinations that can be used when Double – Glazing. Your DLG consultant can advise you on your glazing requirements.

How Large Is The Air Space Between The Glass?

The airspace between the panes of glass in Double-Glazed windows can vary depending upon the glass selected generally the minimum should be 8mm and the Maximum 12mm. In some situations a air gap of 6mm can only be achieved and therefore we suggest having the unit Argon gas filled to enhance the performance.

Do All My Windows Need To Be Double Glazed?

Although you will achieve greater heat retention and energy efficiency if you Double-Glaze all your windows, it is not necessary to do so. Should you choose not to Double-Glaze some windows, you should ensure that the areas with single glazed windows are isolated from your Double-Glazed areas simply by closing the doors separating the areas.

This is to avoid the warm air from your Double-Glazed areas escaping through your single glazed windows.

Do I Have to replace both Pieces of Glass if Only one is Broken?

Yes. To ensure optimum insulation, both whole unit needs to be replaced. However, your window will continue to remain secure and weather- proof until the damage pane is replaced.

How Much Extra Does Double Glazing Cost Compared With Single-Glazing?

Double-Glazing is an approximate 1/3 to 1/2 additional investment compared with single-glazing, however in the long term, heating and cooling costs will be significantly reduced, saving you money.

Web Sites for more information

www.moenglass.com.au

Direct to double glazed Brochure

www.moenglass.com.au/products/doubleglazed/120

www.viridianglass.com.au

www.vantagealuminium.com.au