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Energy efficient window & doors with aluplast-technology



For sustainable window and door systems.

With nearly 60 years of combined experience in the uPVC window and door industry in both the UK and Australian markets, it's no wonder Simon Craig and Del Larmour from Living Design Double Glazing are two of the best in the business.

Based in Hastings, Living Design Double Glazing have been manufacturing and installing high performance, German designed and engineered uPVC windows and doors throughout the Mornington Peninsula and surrounding suburbs since 2015, and pride themselves on giving their customers a high-end, energy efficient product at an affordable price.

Locally manufactured, their energy efficient windows and doors are designed to suit the Australian lifestyle and climate; keeping you warmer in winter and cooler in summer, plus providing added security and improving your home's value and street appeal (as featured on The Block in 2023).

Let Living Design Double Glazing control your comfort and security with the very best in uPVC windows and doors; delivering quality you can see inside and out.

## LIVING DESIGN **DOUBLE GLAZING**

# LEAVES NOTHING TO BE DESIRED

Get into the new generation of sliding doors with smart-slide.

### smart-slide

- simple to operate
- recessed threshold solution
- WERS U<sub>w</sub> rating as low as 1.1 W/m<sup>2</sup>K
- glazing and panel thickness up to 41 mm possible double and triple glazed)
- modern classic-line design
- concealed hardware technology
- scheme A (single door) and scheme C (bi-parting doors)
- available in numerous decor designs
- optional bonding inside (adhesive technology)
- Profile depth of 140 mm



for your project.

May be subject to change



### **GREAT STABILITY = LESS MAINTENANCE**

Why compromise? The new smart-slide door makes use of very stable hardware resulting from outstanding innovation. The sophisticated mechanism of the new aluplast sliding door simplifies the hardware technology used, resulting in superior sliding performance for years to come.

#### OUTSTANDING SEALING

smart-slide scores highly for sealing owing to the innovative locking mechanism and the high-quality sealing surfaces with no brushes. Additional locking points offer outstanding sealing and even more security. The interplay between the various technical features ensures the smart-slide achieves extremely good sealing performance against air, wind, sound and driving rain.

### LET'S GET TO THE POINT!

This new generation slider brings a new standard and economy to premium sliding doors. With acoustic performance, airtightness, ease of use, low threshold possibilities and thermal performance exceeding all else at this price point, this slider is the superior choice



All the advantages of a uPVC window with the natural beauty of wood. This impressive surface is available across the aluplast range of window and door systems.

### woodec inspired by nature

### the base colours

The aluplast base colourways have undergone rigorous testing and proven their resilience in demanding UV environments for a span of more than two decades.

This remarkable track record renders them an ideal foundation for your design endeavors.







Sheffield Oak Concrete Similar to RAL 7012

Turner Oak Malt

ap Number 21

Similar to RAL 1001 ap Number 19

Turner Oak Toffee

Similar to RAL 8028 ap Number 22

Turner Oak Walnut

Similar to RAL 8003 ap Number 35



The aludec surface combines a modern, high-quality textured mattealuminium finish with long-term durability. Choose aludec for a simple, sustainable product that looks fantastic and always performs at its best.



aludec Jet Black

Similar to RAL 9011 ap Number 04

aludec DB703

ap Number 07





aludec Umbra Grey

Similar to RAL DB703

Similar to RAL 7022 ap Number 12

aludec Traffic White

Similar to RAL 9016 ap Number 36



Creme

Similar to RAL 9001

# aludec



aludec Anthracite Grey

Similar to RAL 7016 ap Number 03

aludec Basalt Grey

Similar to RAL 7012 ap Number 08

aludec Window Grey

Similar to RAL 7040 ap Number 37

#### aludec Surfmist®

Similar to RAL 2002 ap Number 92

Surfmist® is a registered trademark of Bluescope Steel Limited and is being used to show a match to COLOURBOND®'s steel colour.

### HARDWARE essential background

Hardware has a wide range of functions. It connects the window frame with the sash and allows the operation of windows and doors. For this reason, we would like to present some interesting facts about the Hardware in uPVC windows that will help you with your decision making.



### SASH LIFTER Tilt-and-turn hardware lifts the sash into the correct position with minimal effort and guarantees a long service life.



### LOCKABLE HANDLE When it comes to security multiple options are available. This includes a lockable handle which can increase the window or door security by restricting



### TURNING HANDLE The essential operating control of a window fitting is the turning handle. A simple turn of the handle can open, close, tilt

or fold the window or door.



#### MULTIPOINT LOCKING Increased security thanks to a multipoint locking system. The system guarantees basic security.

Based on the great variety of windows, there are hardware systems for all window types. The hardware is a significant component of the window, especially for handling and security. The hardware for the most common European tilt and turn systems offers the best safety, security and comfort for your home. However, good hardware for casement and sliding systems is also available.



### Glazing – a visible part of the window

The importance of window glass has also been integrated into your window choice. Many solutions are available:

### DOUBLE GLAZING

Double or even triple glazed units are separated by an air or other gas space like Argon, to reduce heat transfer and/or sound transmittance across a part of the building envelope. In modern insulated glass units, the space between the glass panes is kept dry by the use of desiccant and the edges are sealed to eliminate possible condensation and provide superior insulating properties.

#### LOW E-GLASS

Low Emissivity ("Low-E") glass has a special invisible coating bonded to the glass inside the double glazing unit. This coating reduces heat loss from the home, by essentially acting like a "heat mirror" that reflects heat back into your home. Low E can also reduce solar heat gain that can overheat your house, while also insulating your house from the temperature outside. Low-E glass greatly enhances the insulating performance by as much as an additional 60% compared to standard double glazing.

### TOUGHENED GLASS

A type of safety glass processed by controlled thermal or chemical treatments to increase its strength compared with normal glass. Fully toughened glass is approximately 4 to 5 times stronger than heat-treated glass of the same thickness when exposed to uniform static pressure loads.

### LAMINATED GLASS

Two or more panes of glass are permanently bonded together with one or more interlayers. Laminated glass offers good acoustic insulation and a high protection factor against burglary.

### VISIBLE LIGHT TRANSMISSION

VLT is the percentage of visible light passing through the glass. The higher the VLT, the more light is transmitted.

PLEASE NOTE The solar heat gain coefficient should be as low as possible while the light admission should be as



# NOISE REDUCTION

feel the silence & the comfort

Open Window ~ 80 dB (heavy traffic)

Old Window ~ 60 dB (single glazed)

Standard Window ~ 48 dB (double glazed)

uPVC Window ~ 35 dB (Ideal 4000) INFLUENCING FACTORS
1. Frame

### 2. Glazing

3. Glass Packers

PLEASE NOTE Reduction of 10 dB (decibel) will reduce noise by 50 %

### SOUND INSULATION for a better quality of life

dB (decibel) is commonly used in acoustics to quantify sound levels perceived by the human ear. Noise has an immense impact on our quality of life. The results are sleep loss and continuous stress that can cause permanent damage to our health. uPVC windows are an effective protection from noise and create a permanently pleasant atmosphere.

Health Impacts	140 dB	St
inpueto	130 dB	
Hearing impairment caused by short impact Hearing impairment caused by continuing noise	120 dB	
		Ja
		Hi
		0
		Si
Concentration distrurbances Threshold of hearing	50 dB	In
		N
	30 dB	uF
	20 dB	
	10 dB	Be
	0 dB	

### NOISE PROTECTION

Being exposed to permanent, or even only to a short-term but intensive, noise, can lead to a harmful impact on human health. Thus, noise protection is an imperative. We can provide you with the best possible protection against unwanted negative noise effects.



arting aircraft



ckhammer

ighway traffic

pen window

ingle glazed

sulation glass

ormal conversation

PVC window

edroom









## **BAL40 RATED SYSTEMS**

Many Australian homes are located in areas prone to bushfire attack. Changes to the BCA in 2011 and the revision of AS3959-2018, have increased the stringency around the selection of windows and doors for new build or renovation projects in bushfire-prone areas. These changes are intended to reduce the risk of loss of life or damage to property in bushfire areas.

aluplast systems are designed to withstand the harshest conditions. Our BAL40 windows and doors use the latest technology in German hardware and incorporate the latest in soft coat low-e technology. Not only does this create a safer barrier for your home, but it dramatically improves your everyday comfort by increasing the insulating properties of the Double Glazing. This keeps you cooler in summer and warmer in winter. What's more, the need for expensive fire screens and shutters on entrance and sliding doors is eliminated.



## **UNIQUE PROPERTIES**

#### QUALITY - MADE IN GERMANY

Experience and constant development play a crucial role in the production of uPVC windows. With close and cooperative partnerships with reliable and renowned suppliers, we focus on environmental protection, sustainability and guarantee the highest level of quality and performance.

The uPVC windows of aluplast profiles are suitable even for the top ranked Passivhaus-Standard (Passive House Standard). This fact ensures the lowest energy consumption. The extruded aluplast uPVC window profiles are Our profiles are also in compliance with the latest tested according to local standards and are subject Environmental Product Declaration (EPD) according to the to constant quality control. DIN ISO 14025 which reflects the suberb results of the environmental aspects of the uPVC in health – and the whole life circle.

#### **RESPONSIBILITY – FOR THE ENVIRONMENT**

uPVC windows do not only present long-lasting durability but they can also be recycled which is another environmental advantage.

Based on our expertise, we develop innovative high-quality Plastics are up to 100% recyclable without loss of quality. products that set professional standards in our field. Due to the fact that PVC windows are produced aluplast profiles exceed today's requirements for heat and environmentally friendly, the PVC windows noise insulation, burglary resistance and are of elegant can be made out of recyclable material and can be design. To buy our products is to buy long lasting durability, to re-used in the future to extend the lifecycles. choose the finest quality, backed by a solid company with

### Save energy, reduce costs and secure the future - with aluplast.

system has been developed, engineered, tested and manufactured as suitable for use in a BAL40 zone.

Up to 40% of a homes energy loss can come from the window and door area, these parts of the building envelope are the focus of the efforts to save valuable energy and reduce the costs for heating and/or cooling.

### **INNOVATION – AT THE HIGHEST LEVEL**