



TITANE

WINDOWS & DOORS (TAS)

A new standard in bushfire safety and insulating performance

Bushfires are natural phenomena and as such are unpredictable in their intensity, duration and progress. The ability of a house to survive a passing bushfire becomes very important. Until now there has been no readily acceptable window and door solution which combines energy efficient and sustainable performance solutions, but also proven additional bushfire resistance.

Gold 70 and PremiDoor the bushfire resistant profiles from KÖMMERLING have been designed especially for use in Australia's bushfire areas to help protect both human life and property.

The window and door profiles systems from KÖMMERLING have been successfully tested to requirements of AS 3959: 2009 and AS 1530.8.1: 2007 – construction of buildings on bushfire-prone areas. Gold 70 and PremiDoor also passed the standard including Bushfire Attack Level 40. The tests were realized in association with Viridian PyroGuard 40 TM Glass.

The PVC-U window and door systems from KÖMMERLING are designed to help home owners balance the need for bushfire safety with aesthetic freedom. There is no need for specific metal screens or bushfire resistant shutters and home occupants can continue to reap the benefits of windows and doors, such as natural light, ventilation and unobstructed views to the outdoors.

PVC-U profile the best performance for insulating capacity

The PVC-U window and door profiles systems make the house also more comfortable and energy efficient by improving the thermal insulation of the home. The occupants can benefit from savings on air conditioning in summer, heating in winter and on energy bills all year round.

The material of the structural frame influences the thermal insulation of the window and directly the energy consumption or the CO₂ emissions. The Environmental Modelling Laboratory Department in Spain has tested the materials PVC, aluminium and wood and the most efficient is PVC!

(You can find the different values in the table below)

Of course The KÖMMERLING PVC-U window and doors systems fulfil the requirements of the Australian Standards AS 4420 and AS 2047. They are tested according to NFRC Rating and are WERS tested. KÖMMERLING fully support the Government approach to reduce the greenhouse gases to windows.



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Advantages of PVC-U window and door profiles systems from KÖMMERLING:

Tested and certified bushfire resistance according to AS 3959: 2009 and AS 1530.8.1: 2007 including BAL 40

Protection from radiant heat and ember attack

Energy efficiency and sound insulating performance

greenline: Lead free stabilised material

Steel reinforcements for maximum structural performance, security and durability

Tabelle comparison PVC, Wood und Aluminium

Windows	Electrical consumption (kWh)	CO2 emissions (kg)	recycle material (Kg)				Total Material recycled	% of total material
			Glass	Pvc	Steel	Alu mini um		
30% recycled PVC with double glazing	1,740	730	21.4	21	6.7	49.2	93.40%	
0% recycled PVC with double glazing	1780	742	21.4	21	6.7	49.2	93.40%	
Wooden with double glazing	2045	886	21.4			21.4	61.00%	
Wooden with single glazing	2633	1155	10.7			10.7	45.00%	
30% recycled aluminium with break and double glazing	3244	1418	21.4			40.8	62.2	94.10%
0% recycled aluminium with break and double glazing	3819	1672	21.4			40.8	62.2	94.10%
30% recycled aluminium without break and double glazing	3838	1681	21.4			40.8	62.2	94.10%
0% recycled aluminium without break and double glazing	4413	1935	21.4			40.8	62.2	94.10%