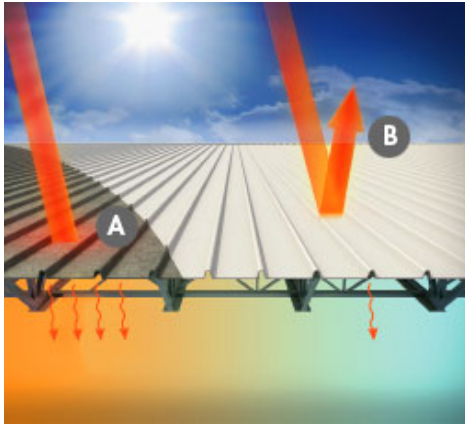


Cool Roof Commercial Solutions

Sustainable Opportunity for Commercial Facilities. In AUSTRALIA, many commercial buildings have Galvanised and Zinalume roofing which act as poor reflectors of solar energy. By reflecting more of the Sun's radiation these surfaces can be 20-35°C cooler which can translate into reduced heat flow to occupancy zones*

The benefits of Dulux® Cool Roof Commercial White



A) Weathered Galvanised Roof

Weathered Galvanised Roof can be up to 70+°C surface temperature. The heat gain to roof can filter to occupancy zones in warm conditions.

B) Cool Roof White

Cool Roof White surface temperature can be 20°C - 35°C cooler². More radiant energy reflected before it's absorbed. Cooler roof surfaces transmit less heat to occupancy zones.

Reflects radiation, lessens heat

Weathered Galv/Zinalume and Dark Coloured roofs often absorb large amounts of solar radiation which can in-turn transmit heat into occupancy zones. Cool Roofs reflect light energy in the first instance - before heat is absorbed, meaning insulation & cooling efficiencies are maximised.

Can help reduce cooling costs

Less Heat penetration can lower cooling energy demand. Comparative Studies identify significant cooling energy savings are possible using Cool Roof Technology. [1]

Can improve occupancy comfort

In non-air conditioned facilities such as workshops and warehousing, cool roofs can translate to cooler working and warehousing facilities.

Can lower carbon foot print in warm climates

By lowering cooling energy demand, Cool Roofs have been identified as part of an effective mitigation strategy, to reduce global carbon emissions.

* Cooling Energy Savings will be influenced by choice of colour, Building Design (including roof pitch, materials & window placement), Insulation & Ventilation, Occupancy Use, Shading, Location, Climate, Roof Pitch & ratio of exposed roof area to floor area. Winter heating offsets may apply.

[1] Significant cooling energy saving potential based on Dulux Case Study: Open Plan Retail Warehouse on like day cooling energy demand & Studies by Lawrence Berkeley Heat Island Group with comparable high solar reflectance (TSR), high emissivity, Cool Roof White as qualified by product TSR and Emissivity data.

[2] 20-35°C cooler surface example based on typical Dulux Case Study results to



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