

SYSTEMS GUIDE

COOL ROOF 
With **InfraCOOL**® Technology

COOL ROOF COMMERCIAL

Dulux® AcraTex® Cool Roof Commercial with InfraCOOL® Technology is a heat reflective membrane system for galvanised iron, Zinalume® and pre-coated metal roofing.

The Cool Roof Commercial System comprises:

- Inspection and surface preparation
- Two coat Cool Roof System installation
- Cool Roof Installer program
- Cool Roof Material Warranty
- Workmanship Guarantee when applied by Registered Cool Roof Installers

Cool Roof System components are:

AcraTex Roof Bond GI with *InfraCOOL* Technology

- Water based
- High build, heat reflective primer
- Direct adhesion to GI and *Zinalume*

AcraTex Cool Roof Commercial with *InfraCOOL* Technology

- Water based
- High build, heat reflective membrane top coat
- Low glare White for maximum solar reflection and roof surface cooling efficiency
- X-linking membrane technology

The guide is not intended to cover all aspects of specification requirements.

For full specification information refer to individual Duspec Specification relative to substrate type and condition.

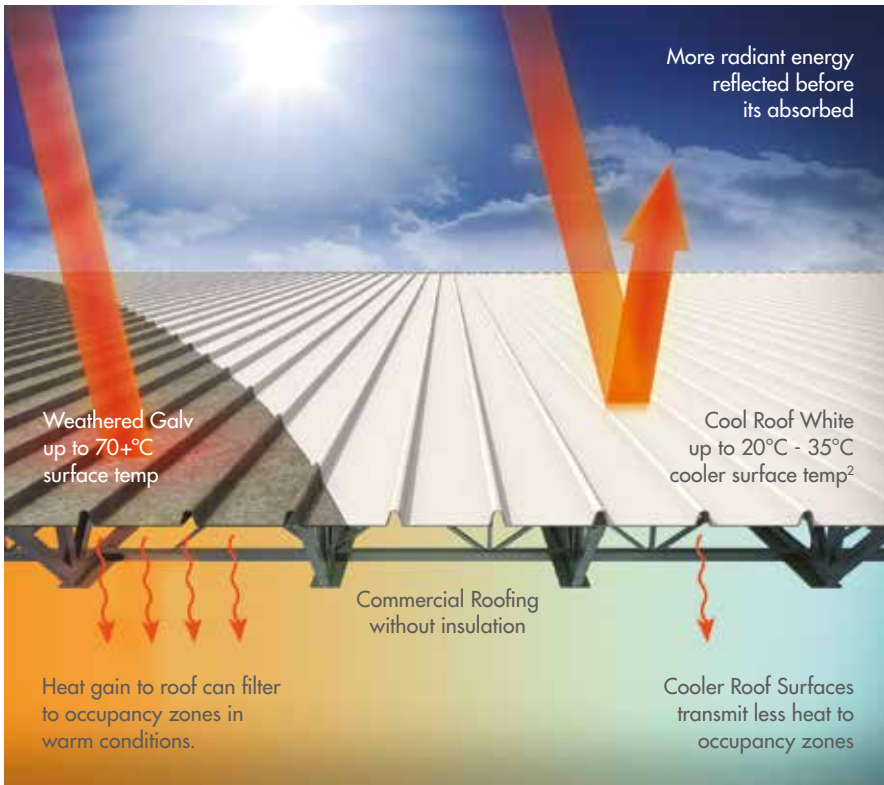


HOW...

COMMENTS For detailed specification refer to the relevant system Duspec	SPREAD	WFT	DFT	RANGE
	m ² / L / coat	micron / coat	micron / coat	
Where full Waterproofing plus Heat Reflective performance is required refer to Dulux Representative for Membrane 105HP with InfraCOOL specification options				PREPARATION
Refer to relevant Duspec Surface Preparation Sheets for full detail: - Galvanised Iron: PZC 012 - Zinalume: PZS070 - Pre-coated Sheet Steel: PCS063				
Remove rust by power wire brushing or hand tool. De-dust. Spot prime ensuring full wetting and coverage of effected areas. Allow to dry overnight.	6	165	75	CORROSION TREATMENT
Remove rust by Abrasive Blast cleaning (broad area) or power wire brush (isolated area). De-dust. Spot prime ensuring full wetting and coverage of effected areas. Allow to dry overnight.	6	150	125	
Aged coating should be tested for adhesion (cross hatch - PASS) and then solvent sensitivity (Test coat UMP - NO Wrinkling / Lifting). If suitable for coating, apply Luxaprime UMP by Airless Spray.	6	185	50	
Full Coat Application after preparation and spot priming as defined. Apply by Airless Spray. Allow 24hr cure. Application of COOL ROOF Commercial topcoat must then follow-on within a 24-72 hour overcoat window for maximum adhesion.	6	150	125	
The Cool Roof component (after corrosion treatment) will be 2 coats, @ 75 micron DTF (min.) as defined by substrate (ie): 1 coat Roof Bond GI + 1 Coat Cool Roof Commercial or 2 coats Cool Roof Commercial	5	150	75	TOP COATS
	5	150	75	

*Due to the variable nature of Previously Painted roofing, Dulux offers NO warranty on systems over these substrates

THE BENEFITS OF DULUX COOL ROOF COMMERCIAL WHITE



A. Reflects Radiation, Lessens Heat

Weathered Galv/Zincalume 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.

B. 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

C. Can Improve Occupancy Comfort

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

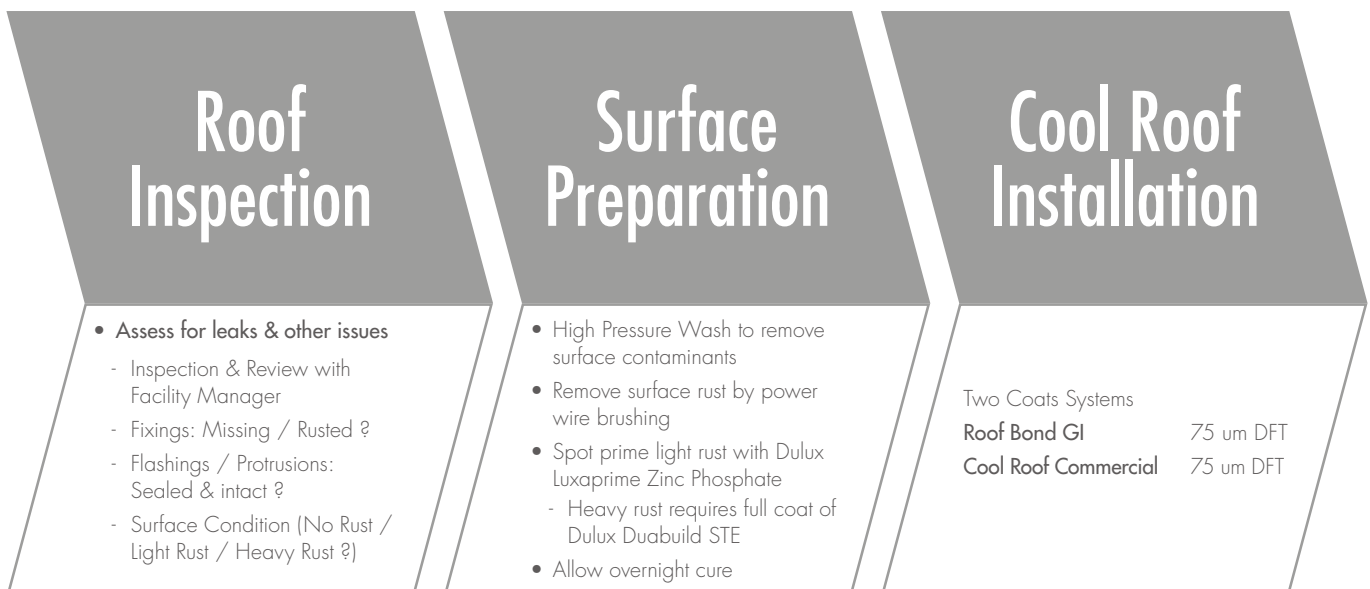
D. Can Lower Carbon Footprint in warm climates

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

Studies in regions of the USA such as California and Florida (with similar climate patterns to parts of Australia) identify significant potential benefits that Cool Roofs may offer: • Energy Savings • Lower Peak Energy Demand • Improved health & Comfort • Greenhouse emission reductions

[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 Oct 2012. Winter heating offsets may apply. 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.

TYPICAL PROCESS...



Visit acratex.com.au for full product and system information.

For general enquiries call **13 23 77**

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