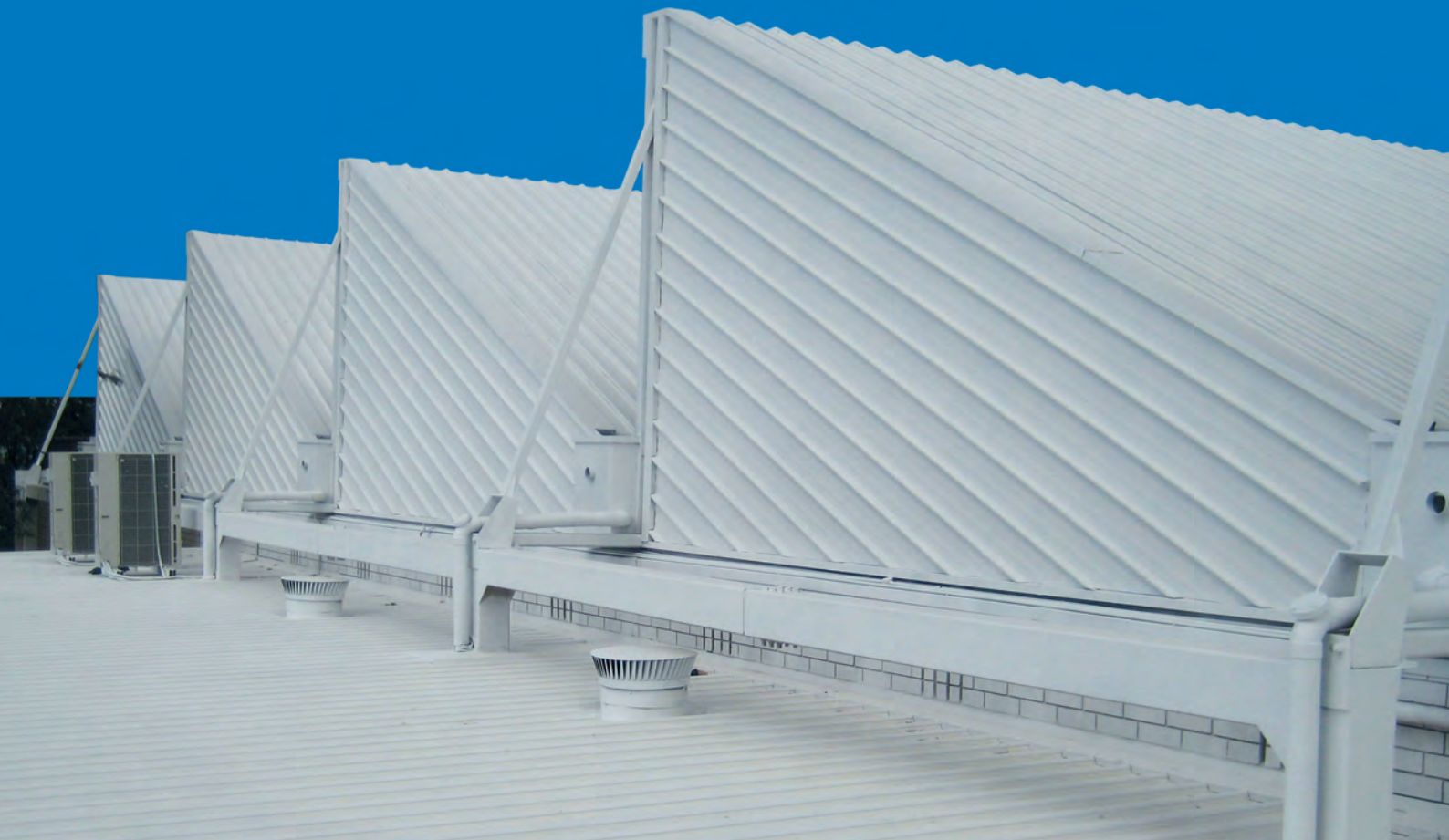




Croydon Leisure Centre



Restoration | Thermal Insulation





Restoration | Thermal Insulation | Asset Protection

Croydon Leisure Centre was beginning to show signs of deterioration & had begun to look highly unsightly from various ground level vantage points.

Maroondah City Council were very keen to adopt the Thermoshield ceramic coating in order increase the insulation properties of the leisure centre in an attempt to significantly reduce the energy consumption for heating & cooling the centre.

Works commenced in January 2009.

In the 12 months following the application, energy consumption had reduced by 20%, which equated to a total net saving of approximately \$50,000.

It is worth noting that electricity prices have risen consistently since 2009 so if the total kilowatt savings are multiplied at today's rates, it results in significantly greater savings.

Since application, the centre has saved in excess of \$200,000+ due to the Thermoshield coating and has prolonged the life of the roof through the ability of the tough ceramic membrane protecting the underlying steel from the elements.

At the rate of annual savings reported & ongoing increases in electricity rates –
We conservatively estimate the project payback was between 2.5 - 3 years

Now the project payback has been realised, the Maroondah City Council is able to allocate \$50,000+ annually into far more constructive areas such as:

- *Promotion and council economic development*
- *Hire additional care staff*
- *Improving community infrastructure and facilities*
- *Expansion of positive community programs*

(rather than servicing ever growing electricy bills...)

Thermoshield coating was chosen at the Croydon Leisure centre for energy efficiency gains.
As a supplementary benefit, it also was able to restore the aesthetics of the building as the roof had become heavily weathered.



Below are more before & after photos of the Croydon Leisure Centre – roof restoration & insulation:



Below [left] is a photo of the finished restoration :



Above [right] shows a progress photo whereby temperatures were recorded to compare the difference between the uncoated metal.

On a 30degree day, the Thermoshield ceramic coating approximately matched the ambient temperature of 31.5 degrees, whereby the dark brown reached temperatures of 82degrees.

This temperature reduction has resulted in an annual saving of approximately 20% or \$50,000 for the Croydon Leisure Centre.

It's worth noting that electricity savings were calculated on 2010 rates. Since then price have risen sharply so the savings are most likely significantly higher if kilowatt savings are multiplied at today's prices.

Our Reference:

LETTERS:THERMOSHIELD2
LEX RITCHIE
9298 4449



11 August 2009

Mr Gavin Batty
Managing Director
Thermoshield Australia Pty Ltd
15 Price Road
KALORAMA VIC 3766

Dear Gavin

**ENERGY AND COST SAVINGS
BY USE OF THERMOSHIELD**

Council used your company to coat the existing metal roof with Thermoshield; including repair and replacement of box gutters and downpipes as needed, at Croydon Leisure and Aquatic Centre. The section of roof is in the Leisure Centre section of the building and the approximate area is 4,100 sq m.

It has been found that over the last year energy savings (gas and electricity) have been in the order of 20%. This means a cost saving of \$50,000 per year. We are extremely pleased with both the visual look of works and the energy savings.

Yours sincerely

**LEX RITCHIE
MANAGER FACILITIES & BUILDING SERVICES**