



# RaeGuard™

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**The Best Cover for Cost  
Effective Heat Retention**

**500 Micron**



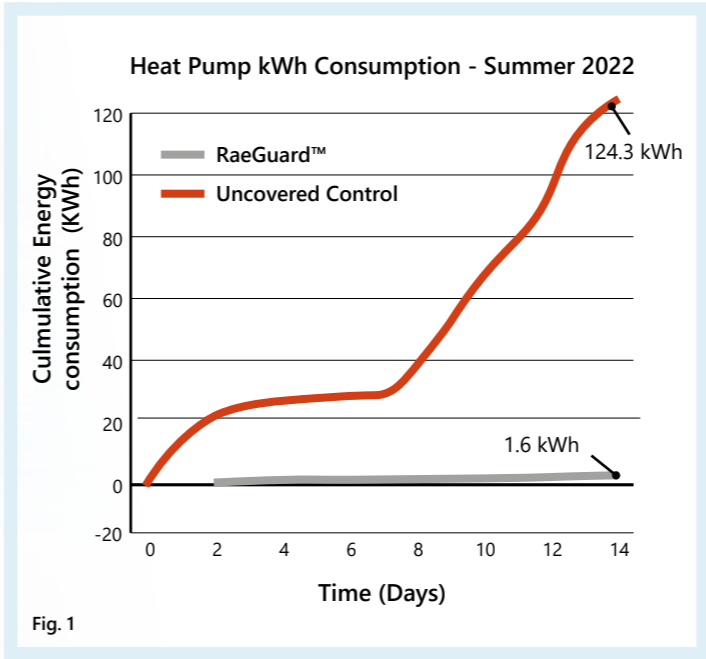
**GeoBubble™**

[www.geobubble.co.uk](http://www.geobubble.co.uk)



# A High Performance Heat Retention Pool Cover

RaeGuard™ is the latest addition to the high-performance Guard product range, designed specifically to maximise heat retention through its tailored reflective properties. Identifiable immediately from its silver top layer and white bubble, RaeGuard™'s unique properties work to actively reduce heat losses from a pool's surface by up to 57%.



RaeGuard™ offers up to 90% of the insulating performance of a traditional 5mm foam, but with a significant reduction in the material cost.

Featuring the unique GeoBubble™ Technology air cell design and enhanced UV stabilisation, RaeGuard™ comes with an 8 year manufacturer's warranty and an 8 year plus expected lifespan. Offering typical payback times of less than a year, RaeGuard™ materials have the potential to save money, energy and resources.

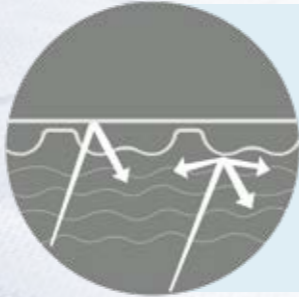
As can be seen in Fig. 1, our testing in the Summer of 2022 showed that a heated pool held at 28.0°C and covered with RaeGuard™ will see a significant reduction in heating costs, when compared to an equivalent pool left uncovered. This represents around 90% of the performance of a standard 5mm foam.

The tests were conducted on identical insulated indoor pools, one covered with RaeGuard™ and one left uncovered to act as a control.

The outdoor pool covered with RaeGuard™ consumed 98% less energy than the uncovered control pool.

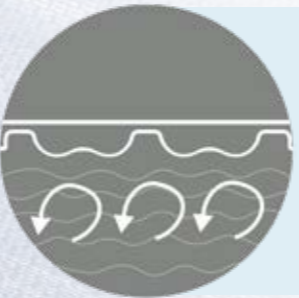
## Key Benefits:

- 🔗 Retain heat and maintain pool temperature
- 🔗 Reduce heating cost by up to 57%
- 🔗 Pay back the cost of a cover within 1 year
- 🔗 Works on both indoor and outdoor pools
- 🔗 Eliminate evaporation by 98%
- 🔗 Reduce debris contamination
- 🔗 Save money and reduce the environmental impact of your pool
- 🔗 8+ years expected lifespan
- 🔗 With GeoBubble™ Technology
- 🔗 Available with reinforcing weave



### Reflect

The specially selected pigments of RaeGuard™'s silver & white layers are designed to reflect and scatter radiative heat, and maximise reflection in the targeted mid-infrared region.



### Insulate

The unique GeoBubble™ air cell provides a substantial barrier layer which works to prevent the transfer of thermal energy away from the surface of a pool.



### Eliminate

When a pool is covered, instead of using energy to turn into water vapour, your pool water retains its thermal energy and stays warmer.

*"Our new cover has been a massive improvement... the pool is holding its temperature much better than before, and there is no noticeable heat loss overnight."*

Ross, Estate Manager  
- Dulwich Prep Cranbrook







## Specification Sheet

<b>Polyethylene Film</b>	Dual-Extruded		
<b>UV Protection</b>	140 kLys/yrs 0.9% Additive 180 kLys/yrs 1.2% Additive		
<b>Colour</b>	Reflective Silver & Titanium White		
<b>Thermal Properties</b>	Vicat Softening Point (1kg) 93°C		
<b>Cold Crack Temperature</b>	-25°C		
<b>500 microns thickness</b>	Bubble Film = 350 micron +/- 10%		
<b>*758 microns thickness</b>	Back film = 150 micron +/- 10%		
<b>Weight per m<sup>2</sup></b>	*Woven top layer = 258 micron +/- 10%		
	460gms +/- 10%		
	*637gms +/- 10%		
<b>Overall Bubble Width</b>	2000mm / 2500mm +/- 1%		
<b>Welding Edges</b>	30mm +/- 10%		
<b>Overall Width</b>	2060mm / 2560mm +/- 10%		
<b>Roll Diameter</b>	0.80m +/- 1%		
<b>Roll Length</b>	102m +/- 2%		
<b>Est. Quantity for 120m<sup>3</sup> truck</b>	2.5m = 14,535m <sup>2</sup> = 57 rolls 2m = 15,912m <sup>2</sup> = 78 rolls		
<b>Est. Quantity Containers</b>	20ft = 4,692m <sup>2</sup> = 23 rolls 40ft = 11,220m <sup>2</sup> = 55 rolls		
<b>Packaging</b>	Packaged in Polyethylene bags		
<b>Core Diameters</b>	Internal 76mm/External 80mm		
<b>Identification</b>	Batch Identification by Q.A. slip and label showing Length/Grade		
<b>Warranty</b>	8 year pro rata warranty		
<b>GEOBUBBLE™ TECHNOLOGY</b>			
<b>Bubble Width x Length</b>	15x30mm		
<b>Bubble Height</b>	5.5mm		
<b>No. of bubble per m<sup>2</sup></b>	1943		
<b>*WOVEN TOP SHEET</b>			
	<b>Material</b>	<b>Tensile Strength (N/m)</b>	<b>Tear Strength (N)</b>
<b>Warp</b>	HDPE	50	160
<b>Weft</b>	HDPE	50	160

Company information:  
[www.plastipack.co.uk](http://www.plastipack.co.uk)

Product information:  
[www.geobubble.co.uk](http://www.geobubble.co.uk)

Water storage:  
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