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

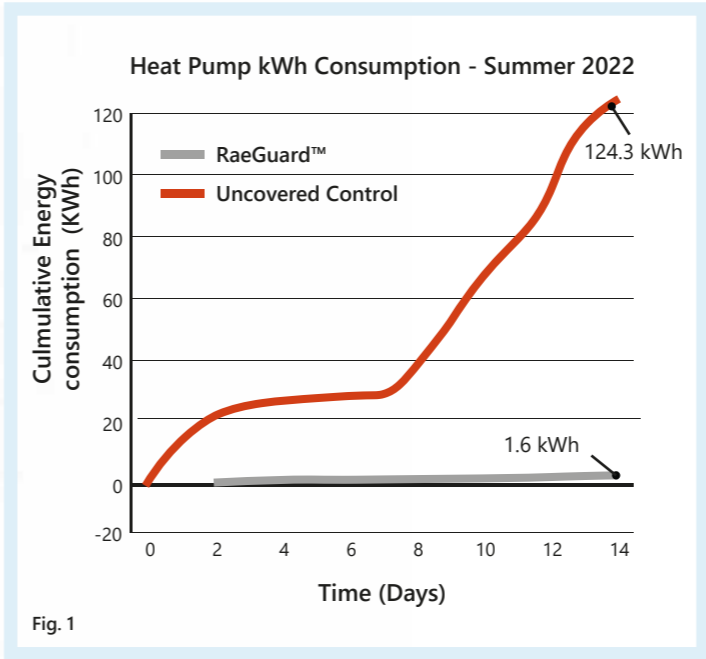
500 Micron



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.

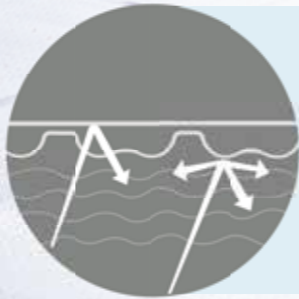
As can be seen in Fig. 1, our testing in the Summer of 2022 showed that a heated pool held at 28.0°C and covered with RaeGuard™ will see a significant reduction in heating costs, when compared to an equivalent pool left uncovered. This represents around 90% of the performance of a standard 5mm foam.

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.

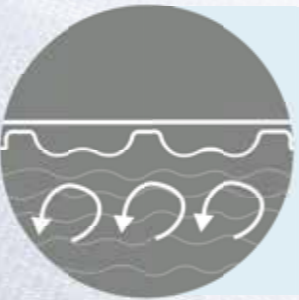
Key Benefits:

- 🔗 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

Polyethylene Film	Dual-Extruded		
UV Protection	140 kLys/yr 0.9% Additive 180 kLys/yr 1.2% Additive		
Colour	Reflective Silver & Titanium White		
Thermal Properties	Vicat Softening Point (1kg) 93°C		
Cold Crack Temperature	-25°C		
500 microns thickness	Bubble Film = 350 micron +/- 10%		
*700 microns thickness	Back film = 150 micron +/- 10%		
Weight per m²	*Woven top layer = 240 micron +/- 10%		
	460gms +/- 10%		
	*637gms +/- 10%		
Overall Bubble Width	2000mm / 2500mm +/- 1%		
Welding Edges	30mm +/- 10%		
Overall Width	2060mm / 2560mm +/- 10%		
Roll Diameter	0.80m +/- 1%		
Roll Length	102m +/- 2%		
Est. Quantity for 120m³ truck	2.5m = 14,535m ² = 57 rolls 2m = 15,912m ² = 78 rolls		
Est. Quantity Containers	20ft = 4,692m ² = 23 rolls 40ft = 11,220m ² = 55 rolls		
Packaging	Packaged in Polyethylene bags		
Core Diameters	Internal 76mm/External 80mm		
Identification	Batch Identification by Q.A. slip and label showing Length/Grade		
Warranty	8 year pro rata warranty		
GEOBUBBLE™ TECHNOLOGY			
Bubble Width x Length	15x30mm		
Bubble Height	5.5mm		
No. of bubble per m²	1943		
*WOVEN TOP SHEET			
	Material	Tensile Strength (N/m)	Tear Strength (N)
Warp	HDPE	50	160
Weft	HDPE	50	160

Company information:
www.plastipack.co.uk

Product information:
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Water storage:
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