

AQUAFLEX

The UK's leading Liner specialists



Price Book
2021

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Aquaflex Ltd



AquaflexLtd

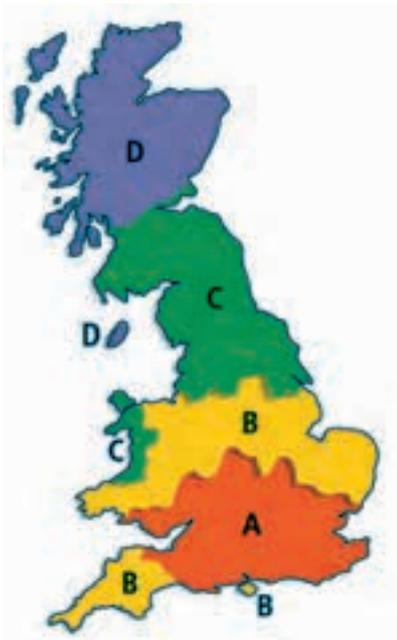
#aquaflexpooliners

Call Aquaflex today **Tel: +44 (0)1722 328873**

Terms & Conditions - see inside back cover

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D Rest of Scotland and Islands, Isle of Man, Northern Ireland

C Fife, Lothians, Lanarkshire, Ayr, Borders, Dumfries & Galloway, Northumberland, Cumbria, Durham, Lancs, N.W. & E. Yorkshire, Mersey, Manchester, N Lincs, Anglesey, Gwynedd, Cardigan

B S. Yorks, Conwy, Flint, Cheshire, Derbyshire, Notts, Lincs, Denbigh, Staffs, Rutland, Shropshire, Leics, Cambs, Norfolk, Suffolk, Powys, Pembroke, Carmarthen, Devon, Cornwall, Isle of Wight

A West Midlands, Northants, Hereford & Worcester, Warwicks, Beds, Essex, Gwent, Glamorgan, Gloucs, Bucks, Oxon, Herts, Berks, London, Wilts, Surrey, Somerset, Hants, Kent, Dorset, Sussex

	Liner* Measure	Leak Detection	Tube Dome Installation**	Cable Dome Installation**
Band A	£366	£443	£620	£698
Band B	£438	£540	£775	£853
Band C	£540	£631	£973	£1,037
Band D	Price on application			

*These prices are based on the assumption that the pool is empty with the old liner removed. There will be a surcharge of £100 if the old liner needs to be removed by Aquaflex. In the event of an abortive trip (e.g. the pool contains water, or access to site is denied) there will be a charge of £200.

** Domes – POA for Aquaflex Air Structures installations over 1248 sq.ft.

2021 Carriage Charges

The following table can be used to calculate carriage charges for single and multiple consignments delivered to the account holders address. Please note that we have been forced to introduce heavily increased carriage charges for **solar covers** as all carriers now charge such items on a volume basis. This seriously affects the larger covers (over 48m²) as they are very large but very light items. We have also introduced a surcharge for leading edges as these invariably increase the volume even further. We are pleased to be able to hold the £13.80 surcharge for deliveries to other addresses (i.e. to site). Additionally, savings can be made when sending multiple items together. Use column A to determine the price of the most expensive item in the consignment and then use columns B & C to work out the prices of the second, third etc. items (see the examples at the bottom of the page).

Please be aware that although we will do our best to keep to these prices for 2021, they are liable to change at short notice due to possible fluctuations in fuel prices and currency rates.

Special Overnight Carriage

	Multiple consignments		
	First A	Second B	Third C
Carriage Group 1	£64.50	£41.60	£40.60
Carriage Group 2	£55.70	£33.80	£32.80
Carriage Group 3	£35.90	£18.80	£16.70
Carriage Group 4	£31.20	£16.70	£14.60
Carriage Group 5	£223.60	£223.60	£223.60
Carriage Group 6	POA	POA	POA

Deliveries to Non-Account Holders' Addresses

£13.80 per consignment

Carriage Groups

Group 1

Liners over 80m² (over 862 ft²)

**Solar covers OVER 48m²
(plus £9 for leading edge)**

Group 2

Liners between 50m and 80m² (539-862 ft²)

Group 3

Liners under 50m² (under 539 ft²)

Felt (Full rolls)
Easitanks - Large

Group 4

**Solar Covers up to
48m² (plus £9 for
leading edge)**

Debris Covers
Domestic Rollers
Foam Underlay
Felt (half rolls)
Linerlock
Easitanks - Standard
Easitanks - Small
DIY Aquaspoiler

Group 5

Air Structures (Domes) with fan units
All palletised items

Group 6

Reinforced Solar Covers - over 15ft wide
Commercial Rollers
Slatted Covers
Bar Covers
Foam Covers

For multiple consignments the higher figure will always take precedence, e.g. see examples below.

Example

LINER (Group 2)	£55.70	First
FELT-LARGE (Group 3)	£18.80	Second
LINERLOCK (Group 4)	£14.60	Third
EASITANK-Stan (Group 4)	£14.60	Fourth
TOTAL CONSIGNMENT	£103.70	

There will be a minimum charge of **£8.90** for any items sent by Royal Mail. Please note that Aquaflex cannot be held responsible for late delivery or any other poor performance by the carrier. We recommend that delivery is secured before workforce is sent to site to prevent the possibility of time wasted and costs incurred.

Special Items

1. Surcharge for before Noon next day delivery (add to Overnight rate)	£24.00
2. Surcharge for before 10.30 AM next day delivery (add to Overnight rate)	£69.00
3. Surcharge for Saturday delivery (add to Overnight rate)	£39.00
4. Small items will go by post if possible. Otherwise please ring for price	POA
5. Surcharge for solar covers with accompanying leading edges	£9.00
6. Aquaflex Slatted Safety Cover	POA
7. Abortive deliveries	£25.00

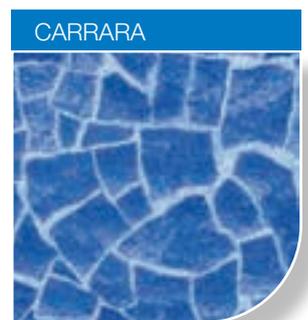
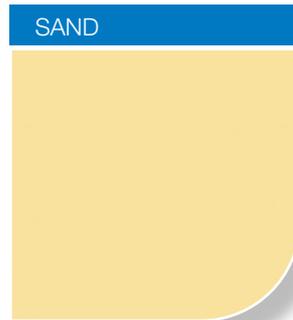
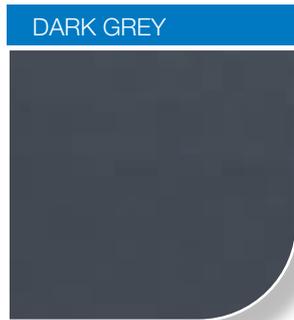
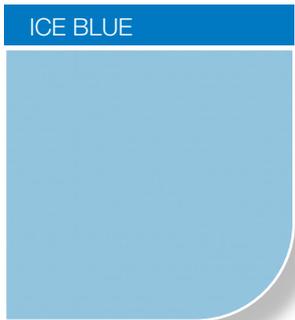
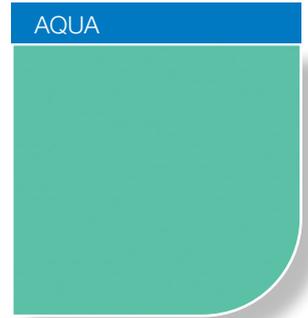
Swimming Pool Liners

Supplying the swimming pool trade for over 25 years, we are proud to have developed the pre-tailored pool liner so almost anything is possible.

A wide range of steps can be incorporated into a pre-tailored liner, which has been made even easier with the new 'Ready built liner steps' manufactured by Heatform. We are excited to offer these step units new for 2021. More details can be found on pages 8-9.

New patterns have been added to our collection this year, with Slate and beachcomber on our standard liner range and Blue Stone and Esagono Mosaic added to the Pearl range.

Liner Range



WARNING: If the pool has an automatic salt chlorination system without the correct dosing control, there is a great danger that the pool water will be over chlorinated. This will result in colour/pattern loss of the pool liner. PLEASE SEEK SPECIFIC ADVICE FROM YOUR SALT CHLORINATOR SUPPLIER.

PearlRange

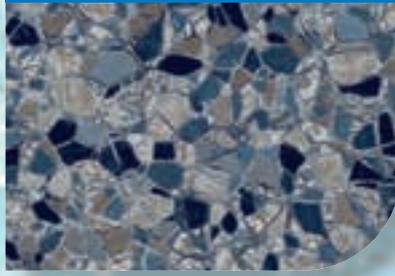
The Pearl range provides a gleaming shimmering effect, using specially formulated pearl effect pigments. These reflect the light in unpredictable ways, giving a sparkling character to the whole pool.

The Pearl liners create a timeless jewel-like effect being the perfect answer for those seeking to add an element of drama and brilliance to their swimming pool environment.

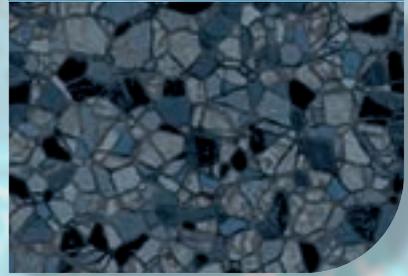
MOSAIC WAVE



BUTTERFLY BLUE



BUTTERFLY GREY



BLUE STONE



ESAGONO MOSAIC

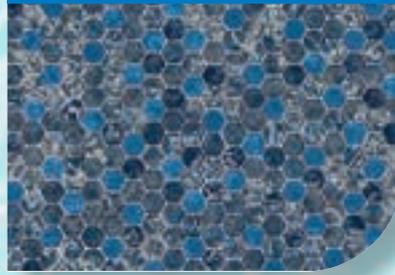


Image courtesy of Splish Splash Pools

Pre-tailored pool steps



Photograph supplied by Ascot Pools



Photographs supplied by Chiswell Pools



Photograph supplied by Swimming Pool Solutions

Liner step sections can be incorporated into a pre-tailored liner.

Aquaflex has revolutionised what can be done with a pool liner. Gone are the days when anything out of the ordinary was deemed impossible.

Aquaflex has pioneered the incorporation of lined steps into a pre-tailored liner.

The benefits are enormous, for renovating old and new pools where a less expensive option than a fibreglass or acrylic step is desired. Moreover the problem of matching the colour of the liner to the colour of the step disappears.

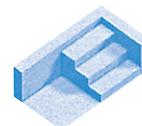
Almost any size and shape of step can be lined in this way, as long as clear and accurate drawings are supplied. **The only stipulation is that there must be an absolute minimum of 6" (0.15m) of water covering the top step in order to prevent movement of the liner.** The sketches below give an idea of the selection of step designs that are possible. Step edges should be finished with a very small "pencil" radius to prevent sharp edges and sand bags or other ballast should be used during filling to help keep the liner in position.



Corner Step



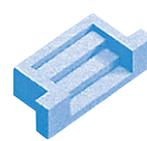
Curved Step



Inside Step



Roman Step



Square Step

Anti-slip (Strongly recommended for steps)

1mm Anti Slip Material for step treads, Diving Blocks and Shallow areas of the pool.

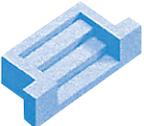
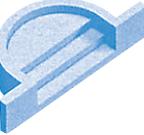
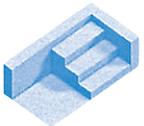
The material conforms to the European Standard EN 13451 -1 and achieves the highest safety classification (Class C) for slip resistance for incorporation into pretailored pool liners.

Colours available: White, Ice Blue, Blue, Sand, Light Grey and Dark Grey



Liner Step Sections

The designs illustrated below simply show the basic designs that can be used when incorporating a lined step into a pool liner. The prices should only be used as guide figures as no two steps are ever quite the same design. Aquaflex recommends that 1mm Anti Slip material is used for the step treads - see page 6.

All Product Category A			1.00mm Plain Anti Slip on treads			Without Anti Slip on treads			
Type of Step	Max no. of steps	Max length of bottom step	on Plain Step	on Patterned	On Pearl step	Plain or Plain/Tile Step	All Pattern	All Pearl	
	CORNER STEP	3	6'	£859	£991	£1,090	£746	£862	£948
	4	6'	£928	£1,060	£1,166	£806	£921	£1,013	
	3	8'	£950	£1,106	£1,217	£825	£961	£1,057	
	4	8'	£1,018	£1,175	£1,293	£885	£1,021	£1,123	
	3	10'	£1,040	£1,198	£1,318	£904	£1,042	£1,146	
	4	10'	£1,108	£1,267	£1,394	£963	£1,101	£1,211	
	SQUARE STEP	3	4'	£950	£1,106	£1,217	£825	£961	£1,057
	4	4'	£1,040	£1,198	£1,318	£904	£1,042	£1,146	
	3	6'	£1,018	£1,175	£1,293	£885	£1,021	£1,123	
	4	6'	£1,108	£1,267	£1,394	£963	£1,101	£1,211	
	3	8'	£1,119	£1,279	£1,407	£973	£1,112	£1,223	
	4	8'	£1,187	£1,347	£1,482	£1,031	£1,171	£1,288	
For steps across full width of pool - cost as square step at 8' wide (see above)									
	CURVED STEP	3	6'	£1,018	£1,152	£1,267	£885	£1,001	£1,102
	4	6'	£1,086	£1,220	£1,342	£943	£1,061	£1,167	
	3	8'	£1,108	£1,267	£1,394	£963	£1,101	£1,211	
	4	8'	£1,176	£1,336	£1,469	£1,022	£1,161	£1,277	
	3	10'	£1,198	£1,359	£1,495	£1,042	£1,182	£1,300	
	4	10'	£1,266	£1,428	£1,570	£1,100	£1,241	£1,365	
	ROMAN STEP	3	6'	£1,176	£1,336	£1,469	£1,022	£1,161	£1,277
	4	6'	£1,266	£1,428	£1,570	£1,100	£1,241	£1,365	
	3	8'	£1,277	£1,439	£1,583	£1,110	£1,251	£1,377	
	4	8'	£1,345	£1,508	£1,659	£1,169	£1,311	£1,442	
	3	10'	£1,378	£1,543	£1,697	£1,198	£1,341	£1,475	
	4	10'	£1,446	£1,635	£1,798	£1,257	£1,421	£1,563	
	INSIDE STEP	3	4'	£1,152	£1,314	£1,445	£1,001	£1,141	£1,256
	4	4'	£1,244	£1,406	£1,546	£1,080	£1,222	£1,344	
	3	6'	£1,220	£1,382	£1,521	£1,061	£1,201	£1,321	
	4	6'	£1,311	£1,474	£1,622	£1,140	£1,281	£1,409	
	3	8'	£1,323	£1,486	£1,635	£1,149	£1,292	£1,421	
	4	8'	£1,390	£1,555	£1,710	£1,209	£1,351	£1,486	

All Aquaflex liners have full lacquered protection.

Anti Slip material is available in White, Ice Blue, Blue, Sand, Light Grey, Dark Grey and can be applied to plain or patterned steps.

Ready Built Liner Steps

Heatform™ step units have been developed to fit in to any liner pool, new or refurbished, quickly and easily.

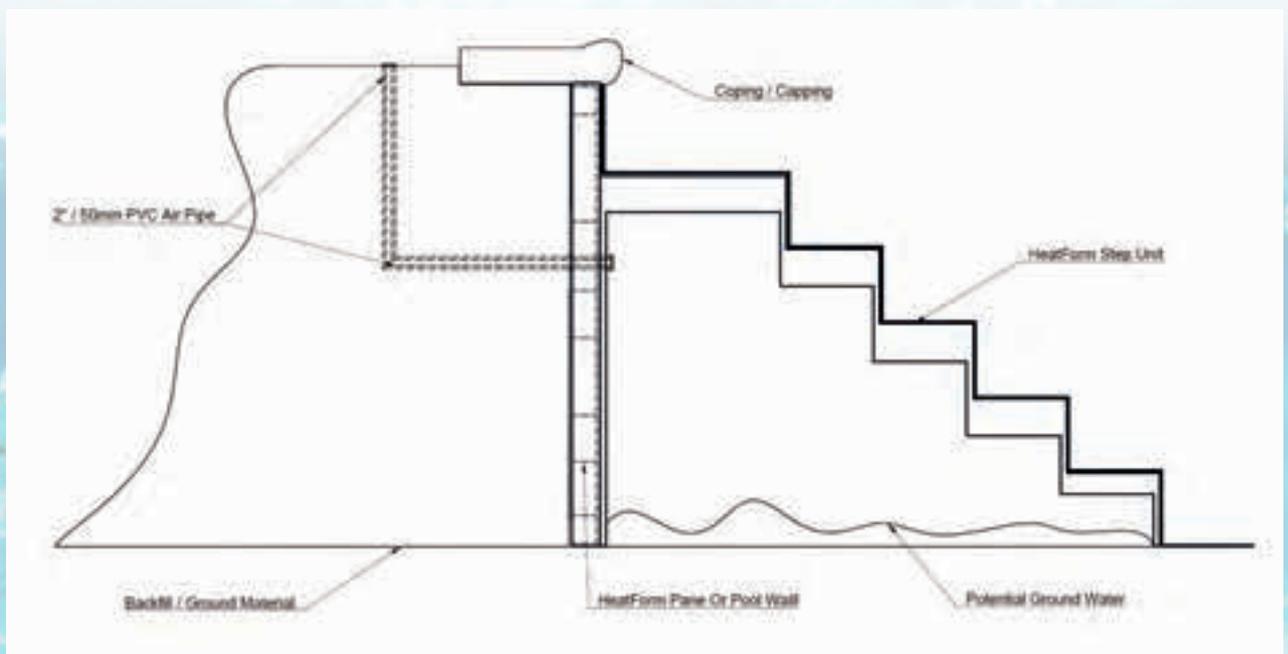
Heatform™ steps are available in a range of styles and varying heights to suit a wall depth of up to 1.5m

Designed with the end user in mind, all Heatform™ step units have a riser height of 240mm, and tread depth of 300mm, providing comfortable and easy access into the pool.

The Heat Form steps are simply installed in the pool shell prior to installing the pool liner. Suitable for installation in conjunction with both on-site lining and pre-tailored lining systems the Heat Form Steps are an easy and quick solution to adding an elegance to any liner pool.

All models are available, from stock, in two separate heights (1.2m for 1.5m pool depth and 0.9m for 1.2m pool depth). However due to their construction we can supply them made to measure at any height below the 1.2m on order.

Please note: due to the installation method of the steps under the pool liner, if there is any chance of ground water coming into the pool shell it is recommended to install a vent kit through the wall. This is to allow any trapped air to be released and avoid any damage to the pool lining. Please see below an illustration of a vent installation.



Ready Built Liner Steps

At a glance

Heatform™ steps are designed to fit tight against two walls of the pool, creating a sleek and modern finish to any pool liner.

Available in two sizes, 1.2m high to suit 1.5m high walls and 0.9m high to suit 1.2m walls.

Product Benefits

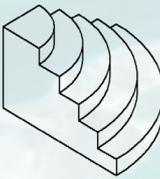
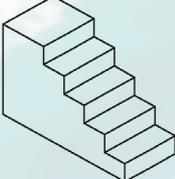
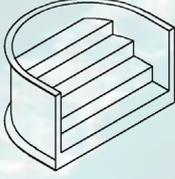
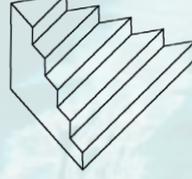
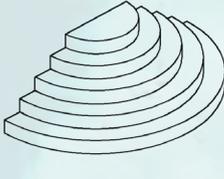
- Insulated with 100% recycled PET plastic
- Easy to install/maintain
- Reduces install time
- Reduces install cost
- Stock held for fast turnaround of orders

Key Points

- Suitable for all liner pool construction
- Tread insulation to eliminate sound and cold spots
- 240mm step risers to reduce drop off
- 3 different shapes - corner straight and curved
- Can be site lined or used with a pre-tailored liner

Prices

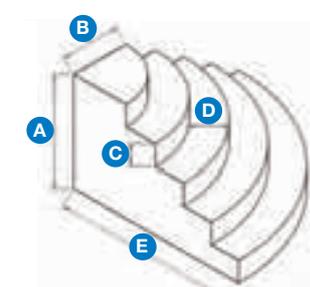
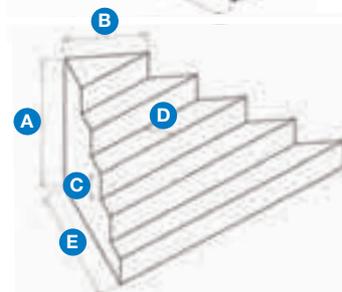
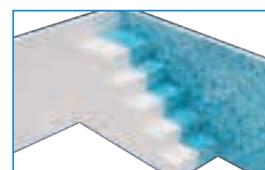
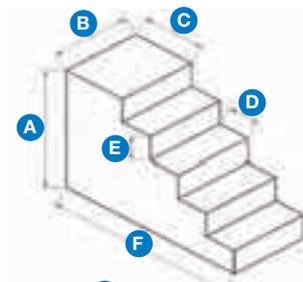
Discount code L

Curved	Straight	Roman	Corner Straight	Full Span Curved
				
£1385.00	£1156.00	£2970.00	£1385.00	£2770.00

Straight Units	1.5m Walls	1.2m Walls
A Unit	1200mm	900mm
B Width	750mm	750mm
C Top step (L)	600mm	600mm
D Tread Depth	300mm	300mm
E Riser Height	240mm	240mm
F Unit Length	1800mm	1500mm

Corner Units	1.5m Walls	1.2m Walls
A Height	1200mm	900mm
B Top step (L)	727mm	727mm
C Riser Height	240mm	240mm
D Tread Depth	300mm	300mm
E Unit Length	2424mm	2000mm

Curved Units	1.5m Walls	1.2m Walls
A Height	1200mm	900mm
B Top step (L)	637mm	637mm
C Riser Height	240mm	240mm
D Tread Depth	300mm	300mm
E Unit Length	2000mm	1670mm



Liner DIY Costing Procedure

You can always ring the Aquaflex sales office on 01722 328873 for an instant quotation or, if you prefer, you can use the following method to calculate the retail price for yourself. First you need to know the wall and floor area of the pool. This is done as follows:

1. Find the floor area by multiplying the width by the length.

Notes:

- a) For circular flat bottoms, multiply the diameter by itself.
- b) For oval, kidney or irregular pools, multiply the maximum length by the maximum width.
- c) For L-shaped pools, divide the pool into two rectangles and calculate each area separately.
- d) For pools with bay areas, calculate each area separately.

2. Then if the pool is:

- a) Flat bottom or slope (rectangular, oval or circular) Multiply by 1.0
- b) Flat bottom or slope (kidney, irregular, L-shaped or with bay) Multiply by 1.2
- c) Hopper or wedge (rectangular) Multiply by 1.3
- d) Hopper or wedge (oval) Multiply by 1.5
- e) Hopper or wedge (kidney, irregular, L-shaped or with bay) Multiply by 1.7

3. Find the depth of the sidewall of the pool.

- a) For reasons of material width, use the following table to determine the costing depth:
- b) For vertical walled sloping pools, the deepest depth of side wall should be used.
- c) For overlap liners, add 6" (0.15m) to the pool wall height.

Imperial Measurements	Depth Costing Factor	Metric Measurements	Depth Costing Factor
Up to & including 3'6"	3.5	up to & including 1.067m	1.067
between 3'6" & 4'7"	4.6	between 1.067m & 1.402m	1.402
between 4'7" & 5'8"	5.7	between 1.402m & 1.737m	1.737
between 5'8" & 7'0"	7.0	between 1.737m & 2.134m	2.134
Over 7'0"	use actual depth	Over 2.134m	Use actual depth

4. Find the wall area by multiplying the perimeter of the pool by the depth costing factor of the sidewall.

Notes:

- a) For circular pools, the perimeter is: the diameter x 3.142
- b) The perimeter of straight sided oval pools is calculated as follows:



5. Add the floor area to the wall area. This is the total area.

6. Multiply the total area by the square foot or square metre price from the table on page 11

WARNING: If the pool has an automatic salt chlorination system without the correct dosing control, there is a great danger that the pool water will be over chlorinated. This will result in colour/pattern loss of the pool liner. PLEASE SEEK SPECIFIC ADVICE FROM YOUR SALT CHLORINATOR SUPPLIER.

Costing Table

7. Add the following for special extras:

Country Leisure or Rovel Step cut out (placed on flat floor area)	£28.74
Country Leisure or Rovel Step cut out (placed on Wedged or Sloping floor area)	£74.20
Please be aware that there are several types of G R P corner steps. If you cannot identify the one in the pool please contact the Aquaflex Team who will be happy to assist. We also have templates which we can send to you for a nominal fee of £5.00 plus VAT.	
Tailored toe ledge around hopper;per foot of perimeter of pool	£0.49
Surcharge for "rectangular" pools which are one or more of the following: (1) Diagonals vary by more than 2" (0.05mm) (2) Dimensions are not symmetrical (e.g. the 2 "E"measurements are unequal) (3) Walls are not vertical	add 5% to cost of liner
Liner motifs and logos	See page 16
Surcharge for lined pit at one end of rectangular pool: calculate as normal using total length and then:	add 10% to cost
Surcharge for liner adapted for Thermapool installation	add 5% to cost
Surcharge for Anti Slip material on base of liner - charge only for the area of the part of the pool affected - Price per square metre	£18.83
Black Lane Markers, per linear foot (flat bottoms and slopes only)	£7.63

Costing Table for Swimming Pool Liners

Product Category	Material	Price per Square Metre	Price per Square Foot
The Aquaflex Liner Range			
A	Plain	£24.879	£2.311
A	Plain +Tile	£27.830	£2.585
A	Deluxe	£34.891	£3.241
A	Pattern	£35.603	£3.308
A	Deluxe (Pearl Range)*	£40.124	£3.728
A	Pattern (Pearl Range)*	£40.944	£3.804

* See page 5 for Pearl range

Note 1: Small Liners - Anything less than 35 square metres will incur a surcharge

Note 2: "Deluxe" refers to a liner which has a patterned floor with plain walls and a tile band

Note 3: Patterned floor and walls with tileband (price as all patterned)

Note 4: All Aquaflex 0.75mm (0.030") liners have full lacquered protection (see page 78 for details)

Note 5: The Aquaflex liner range refers to pretailored (bag type) liners within a gauge range of 0.70mm - 0.75mm (28-30 thou)

Carriage Information for Liners		
Group 1	Liners over 80m ² (862ft ²)	see page 2
Group 2	Liners between 50-80m ² (539-862ft ²)	see page 2
Group 3	Liners less than 50m ² (539ft ²)	see page 2

Swimming Pool Liners

Standard Pool Sizes in Metric

Product Category A		Total Sq Mtr	The Aquaflex Liner Range			
			Plain	Plain +Tile	Deluxe	Pattern
3m x 6m	Hopper	41.40	£1,031	£1,153	£1,445	£1,475
3.5m x 7m	Hopper	52.85	£1,315	£1,471	£1,844	£1,883
4m x 8m	Hopper	65.60	£1,632	£1,826	£2,289	£2,336
4m x 9m	Hopper	72.80	£1,812	£2,026	£2,540	£2,592
5m x 10m	Hopper	95.00	£2,364	£2,644	£3,316	£3,383
5m x 12m	Hopper	112.00	£2,787	£3,118	£3,909	£3,988
5.5m x 11m	Hopper	111.65	£2,778	£3,108	£3,897	£3,976
5.5m x 12m	Hopper	120.80	£3,006	£3,363	£4,215	£4,302
6m x 12m	Hopper	129.60	£3,225	£3,608	£4,522	£4,615
3m x 6m	Flat Bottom	39.60	£995	£1,112	£1,395	£1,423
3.5m x 7m	Flat Bottom	49.70	£1,247	£1,396	£1,749	£1,785
4m x 8m	Flat Bottom	60.80	£1,525	£1,706	£2,139	£2,182
4m x 9m	Flat Bottom	67.20	£1,686	£1,885	£2,363	£2,412
5m x 10m	Flat Bottom	86.00	£2,155	£2,410	£3,022	£3,084
5m x 12m	Flat Bottom	100.80	£2,525	£2,825	£3,541	£3,614
5.5m x 11m	Flat Bottom	100.10	£2,507	£2,804	£3,516	£3,588
5.5m x 12m	Flat Bottom	108.00	£2,705	£3,026	£3,794	£3,871
6m x 12m	Flat Bottom	115.20	£2,885	£3,227	£4,045	£4,128

Standard Pool Sizes in Imperial

Product Category A		Total Sq Ft	The Aquaflex Liner Range			
			Plain	Plain +Tile	Deluxe	Pattern
10' x 20'	Hopper	459.98	£1,064	£1,190	£1,491	£1,522
12' x 24'	Hopper	614.38	£1,421	£1,589	£1,992	£2,033
14' x 28'	Hopper	789.57	£1,826	£2,042	£2,560	£2,612
14' x 30'	Hopper	839.30	£1,941	£2,170	£2,721	£2,777
15' x 30'	Hopper	884.97	£2,046	£2,289	£2,869	£2,928
16' x 32'	Hopper	985.57	£2,279	£2,549	£3,196	£3,260
16' x 38'	Hopper	1,150.36	£2,659	£2,975	£3,729	£3,805
18' x 36'	Hopper	1,202.36	£2,779	£3,109	£3,898	£3,977
20' x 40'	Hopper	1,439.96	£3,329	£3,723	£4,668	£4,764
10' x 20'	Flat Bottom	440.00	£1,018	£1,138	£1,427	£1,455
12' x 24'	Flat Bottom	576.00	£1,331	£1,490	£1,868	£1,906
14' x 28'	Flat Bottom	728.00	£1,683	£1,883	£2,361	£2,409
14' x 30'	Flat Bottom	772.00	£1,785	£1,997	£2,503	£2,554
15' x 30'	Flat Bottom	810.00	£1,873	£2,094	£2,626	£2,680
16' x 32'	Flat Bottom	896.00	£2,072	£2,317	£2,904	£2,964
16' x 38'	Flat Bottom	1,040.00	£2,404	£2,689	£3,371	£3,441
18' x 36'	Flat Bottom	1,080.00	£2,497	£2,793	£3,501	£3,573
20' x 40'	Flat Bottom	1,280.00	£2,959	£3,310	£4,149	£4,235

Please note these prices do not apply to our Pearl range see page 5 for details

These prices can be used for any beaded liner conforming to the following criteria.

- Pools must be rectangular with the diagonals equal to within 2" (0.05m).
- The side walls must be vertical with the wall depth not varying by more than 2" (0.05m) with an angled side to base joint. Covets (wall to floor radius) of up to a 6" radius (0.15m) are acceptable.
- The component dimensions of the pool (see the Aquaflex Liner Order Form at www.aquaflex.co.uk) must be consistent across the pool (e.g. the two "E" measurements on a hopper must be equal). If the pool does not satisfy these criteria, please consult the notes at the foot of page 11.
- The maximum side wall depth allowable is 3'6" (1.067m) for hoppers, and 4'1" (1.245m) for flat bottoms.
- For liners with overlap fixing or any other non-standard liner please use the costing formula on pages 10 and 11.

Swimming Pool Liners - Pearl Range

Standard Pool Sizes in Metric

Product Category A		Total Sq Mtr	The Pearl Liner Range	
			Deluxe	Pattern
3m x 6m	Hopper	41.40	£1,662	£1,696
3.5m x 7m	Hopper	52.85	£2,121	£2,165
4m x 8m	Hopper	65.60	£2,632	£2,686
4m x 9m	Hopper	72.80	£2,921	£2,981
5m x 10m	Hopper	95.00	£3,813	£3,890
5m x 12m	Hopper	112.00	£4,495	£4,587
5.5m x 11m	Hopper	111.65	£4,481	£4,572
5.5m x 12m	Hopper	120.80	£4,847	£4,947
6m x 12m	Hopper	129.60	£5,200	£5,307
3m x 6m	Flat Bottom	39.60	£1,604	£1,637
3.5m x 7m	Flat Bottom	49.70	£2,011	£2,053
4m x 8m	Flat Bottom	60.80	£2,460	£2,510
4m x 9m	Flat Bottom	67.20	£2,718	£2,773
5m x 10m	Flat Bottom	86.00	£3,475	£3,547
5m x 12m	Flat Bottom	100.80	£4,072	£4,156
5.5m x 11m	Flat Bottom	100.10	£4,044	£4,126
5.5m x 12m	Flat Bottom	108.00	£4,363	£4,451
6m x 12m	Flat Bottom	115.20	£4,652	£4,747

Standard Pool Sizes in Imperial

Product Category A		Total Sq Mtr	The Pearl Liner Range	
			Deluxe	Pattern
10' x 20'	Hopper	459.98	£1,715	£1,751
12' x 24'	Hopper	614.38	£2,290	£2,337
14' x 28'	Hopper	789.57	£2,944	£3,004
14' x 30'	Hopper	839.30	£3,129	£3,193
15' x 30'	Hopper	884.97	£3,299	£3,367
16' x 32'	Hopper	985.57	£3,675	£3,749
16' x 38'	Hopper	1,150.36	£4,289	£4,376
18' x 36'	Hopper	1,202.36	£4,483	£4,574
20' x 40'	Hopper	1,439.96	£5,368	£5,478
10' x 20'	Flat Bottom	440.00	£1,641	£1,674
12' x 24'	Flat Bottom	576.00	£2,148	£2,192
14' x 28'	Flat Bottom	728.00	£2,715	£2,770
14' x 30'	Flat Bottom	772.00	£2,879	£2,937
15' x 30'	Flat Bottom	810.00	£3,020	£3,082
16' x 32'	Flat Bottom	896.00	£3,340	£3,409
16' x 38'	Flat Bottom	1,040.00	£3,877	£3,957
18' x 36'	Flat Bottom	1,080.00	£4,027	£4,109
20' x 40'	Flat Bottom	1,280.00	£4,772	£4,870

These prices can be used for any beaded liner conforming to the following criteria.

- Pools must be rectangular with the diagonals equal to within 2" (0.05m).
- The side walls must be vertical with the wall depth not varying by more than 2" (0.05m) with an angled side to base joint. Covs (wall to floor radius) of up to a 6" radius (0.15m) are acceptable.
- The component dimensions of the pool (see the Aquaflex Liner Order Form at www.aquaflex.co.uk) must be consistent across the pool (e.g. the two "E" measurements on a hopper must be equal). If the pool does not satisfy these criteria, please consult the notes at the foot of page 11.
- The maximum side wall depth allowable is 3'6" (1.067m) for hoppers, and 4'1" (1.245m) for flat bottoms.
- For liners with overlap fixing or any other non-standard liner please use the costing formula on pages 10 and 11.

Swimming Pool Liners

Circular Above Ground Pool Liners

Product Category	Plain A	Pattern A	Pearl Range A
10' Dia (3'deep)	£524	£749	£862
12' Dia (3'deep)	£684	£978	£1,125
15' Dia (3'deep)	£959	£1,372	£1,578
12' Dia (4'deep)	£684	£978	£1,125
14' Dia (4'deep)	£863	£1,235	£1,420
15' Dia (4'deep)	£959	£1,372	£1,578
16' Dia (4'deep)	£1,060	£1,517	£1,745
18' Dia (4'deep)	£1,276	£1,826	£2,100
20' Dia (4'deep)	£1,511	£2,161	£2,486
21' Dia (4'deep)	£1,635	£2,340	£2,691
24' Dia (4'deep)	£2,035	£2,912	£3,349
25' Dia (4'deep)	£2,177	£3,116	£3,584
28' Dia (4'deep)	£2,634	£3,769	£4,334

Oval Above Ground Pool Liners

Product Category	Plain A	Pattern A	Pearl Range A
4' deep			
10 x 15'	£732	£1,048	£1,205
12 x 18'	£962	£1,377	£1,584
12 x 20'	£1,055	£1,510	£1,736
12 x 24'	£1,240	£1,775	£2,041
14 x 28'	£1,577	£2,257	£2,595
15 x 27'	£1,599	£2,288	£2,631
15 x 30'	£1,759	£2,517	£2,894
15 x 38'	£2,186	£3,127	£3,597
16 x 24'	£1,505	£2,154	£2,477
16 x 32'	£1,951	£2,791	£3,209
18 x 33'	£2,180	£3,120	£3,588

Flat Sheet Swimming Pool Liners & Tile Bands off the roll

Product Category	Price per Sq Mtr	Price per Sq Ft
A Plain	£19.17	£1.7811
A Pattern (0.750mm)	£28.77	£2.6729
A Pearl Range - see page 5	£34.53	£3.2075
A Various Tile Bands - See pages 15-16	£5.87	£1.7903

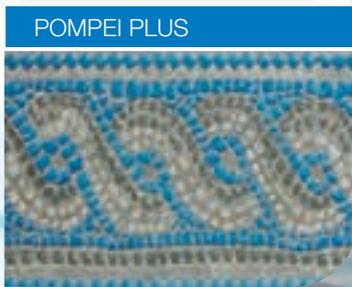
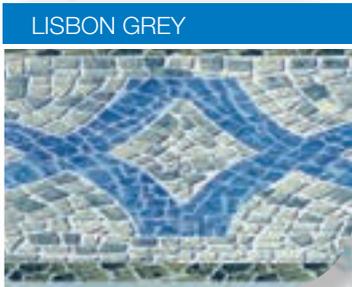
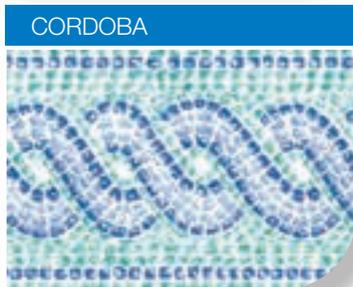
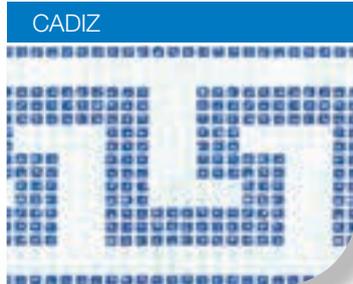
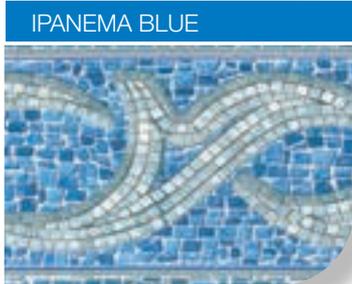
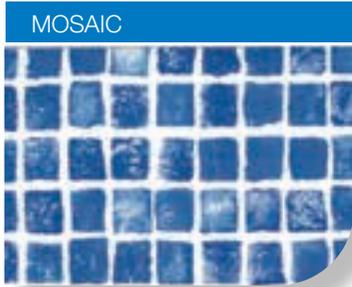
All tile bands are approximately 10" (0.25m) wide. All Aquaflex liners have full lacquered protection (see page 78 for details)
 The Aquaflex liner range refers to pretailored (bag type) liners within a gauge range of 0.70mm - 0.75mm (28-30 thou)
 "Deluxe" and "Pattern" prices do not apply to Pearl liners - please see page 13

Carriage Information for Liners

Group 1	Liners over 80m ² (862ft ²)	see page 2
Group 2	Liners between 50-80m ² (539-862ft ²)	see page 2
Group 3	Liners less than 50m ² (539ft ²)	see page 2

Call Aquaflex today **Tel:+44 (0)1722 328873**

Tile Band Range



Tile Band Range

IPANEMA SAND

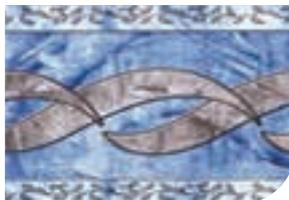


Note: Whilst we have taken every care to reproduce the patterns and colours of our liners, due to the limitations of photo reproduction we recommend that you study the samples in our liner swatches, at your local stockist. All Tilebands are 0.75mm (030")

PLEASE NOTE:

These patterns are whilst stocks last

ATLANTIC BLUE



GENOVA SAND



MYKONOS PLUS



DELPHOS TERRACOTTA



IBIZA BLUE



MALLORCA SAND

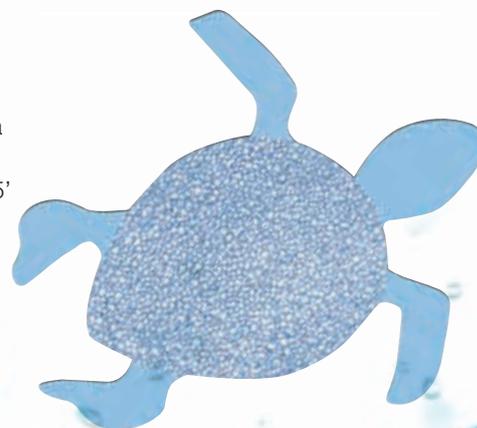


Motifs

Motifs, such as the ones shown below can be welded onto your liner. We have a few motifs readily available, however any simple design can be accommodated. Please note that the standard motifs shown vary in size between approximately 5' (1.52m) long for the turtle, and approximately 7' (2.15m) long for the dolphin. For larger motifs, please ring for a quotation.



Dolphins are sold separately (shown in grey & black with white eye)



Shown in Coral & Ice Blue

Product Code	Description	Price
A	Dolphin, Seahorse, Butterfly etc.	£428

Important Information Concerning Patterned Liners

Patterned liners need particular care as a combination of low pH and even slightly high levels of chlorine can damage the pattern and lead to premature ageing. The following guidelines should be carefully followed – particularly the pH recommendations.

pH:	7.4 – 7.6
Stabilised Free Chlorine:	1.0 – 1.5ppm
Chlorine Stabiliser (Cyanuric acid):	25 – 70ppm
Alkalinity:	100 – 175ppm
Water temperature:	32C maximum – Ideal is <27C

pH level

The ideal range is 7.4 to 7.6 – Never let the pH level drop below 7.2 as this will have a damaging effect on the liner.

Be careful when using domestic “test strip” type test kits – these tend to bleach out when the pH level is below about 6.5 giving dangerously misleading readings. For accurate readings we strongly recommend a hand-held electronic pH meter.

Chlorine and Chlorine Stabiliser

Acceptable levels for free chlorine vary with the amount of stabiliser (cyanuric acid) in the pool. Broadly speaking – the more stabiliser you have in the pool, the more free chlorine you need to disinfect efficiently. Ideally, all PVC lined pools should contain cyanuric acid within the range of 25 -70 ppm – preferably towards the lower end of this range. A level of less than 25ppm combined with a pH of less than 7.2 and/or a free chlorine level of higher than 2.0ppm can cause the liner to form wrinkles or the pattern to flake off. Stabilised free Chlorine levels should be kept below 1.5ppm – prolonged levels between 1.5 and 2.0ppm may shorten the life of the liner.

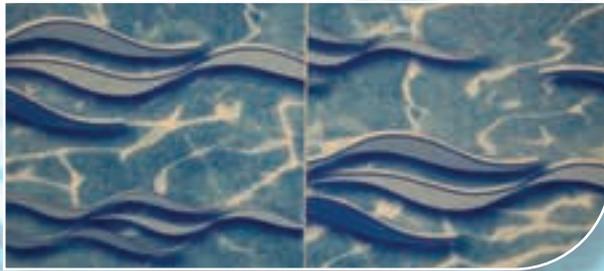
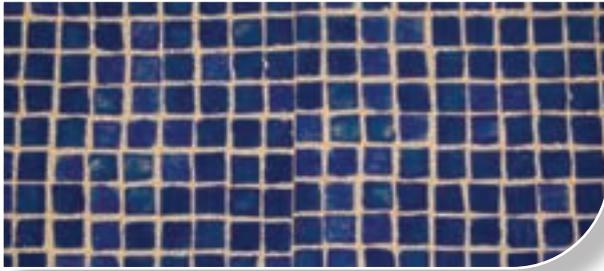
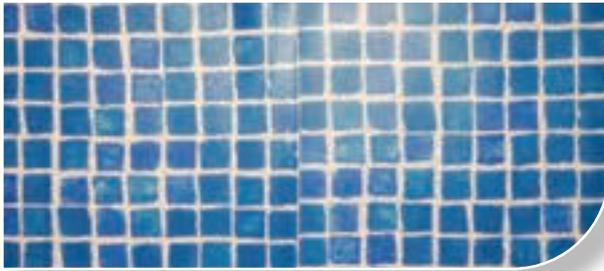
Alkalinity

Total alkalinity levels should be kept in the range between 100-175ppm. Levels below this make the pH level of the pool much more difficult to keep stable.



Picture courtesy of Home Counties Pools, Hot Tubs & Endless Pools

Pattern Match



Please take care when considering patterned liners and tilebands which feature a regular repeat as these will not necessarily match along the joins.

We can minimise the effect of pattern mismatch by placing the vertical join on the tilebands behind skimmers or roman ends. It is important that you advise us of the precise position of the tileband join to minimise this problem. As a default, we will place the sidewall join in the centre of the shallow end wall, unless otherwise requested.

As a result of the high stretch factor, it is not possible, during manufacture, to align the pattern between the strips of material that make up the liner. Similarly, great care must be taken when ordering a liner with a different colour base from the side wall, for a pool where the wall to floor join is uneven, the possible “wandering join”, could be unsightly.

Aquaflex Ltd cannot be held responsible for patterns not matching.

WARNING: If the pool has an automatic salt chlorination system without the correct dosing control, there is a great danger that the pool water will be over chlorinated. This will result in colour/pattern loss of the pool liner. PLEASE SEEK SPECIFIC ADVICE FROM YOUR SALT



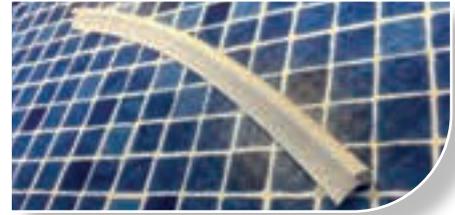
Liner Accessories

Aquaflex provide a large range of Liner Accessories relating to liner installation, maintenance and repair.

Liner Accessories

Linerlock Wedging

Standard wedging fills in that sometimes unsightly gap between the liner beading and the top of the linerlock. It also helps secure the beading into looser linerlock. Also available in Blue please see page 21 for prices.



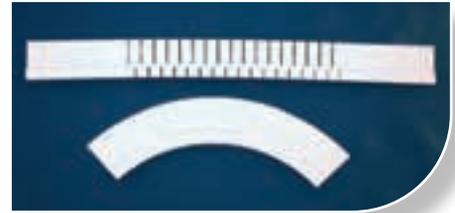
Linerlock: top fixing and side fixing

Exclusively from Aquaflex is our top fixing linerlock with pre-drilled holes for faster installation either with screws or masonry nails. Side fixing linerlock is ideal for renovating old pools where it is desirable not to disturb the coping stones.



Linerlock radius corners: flexible and rigid

Rigid corners are suitable for all standard 7" radius corners (i.e. 6" radius of coping). The flexible corners are ideal for corners with different radii.



Felt Underlay

Useful in situations where time is of the essence and a perfectly smooth screed cannot be achieved, especially during renovations. Felt provides extra protection for the liner and also helps to hide any imperfections in the shell of the pool. Also now available new Deluxe Felt, see page 22 for details.



Foam

Foam is an alternative to felt and can be used on the pool walls.



Alkorplus metal remover

A valuable product in the fight against fungal and bacterial staining of pool liners.



Sealant

A must for sealing around the top of pools.

Liner repair kits

Ideal for small repairs to torn or punctured liners. Repairs can even be performed underwater. It is important not to use too much adhesive and to make sure the material is clean.



Liner Accessories - Prices

Underlay			
C	Deluxe Grade Felt Underlay (Size 2m x 50m)	each	£693.34
C	Standard Felt Underlay: Small (Size 2m x 25m)	each	£294.50
C	Standard Felt Underlay: Large (Size 2m x 50m)	each	£565.63
C	Standard Felt Underlay: Large (Size 2m x 50m)	per 5 rolls	£2,676.21 = £535.25 per roll
C	Standard Felt Underlay: Large (Size 2m x 50m)	per 10 rolls	£4,943.39 = £494.34 per roll
D	Foam Underlay (8mm thick, 25m x 1m)	each	£272.08
E	Underlay adhesive : 500ml spray can	each	£5.12
E	Underlay adhesive : 500ml spray cans	Box of 12	£58.25 = £4.85 per can
Linerlock and Wedging			
C	Top fixing Linerlock: in 3m (10') lengths	single length	£9.76 = £0.976 per foot
C	Top fixing Linerlock: in 3m (10') lengths	50 lengths	£443.47 = £0.887 per foot
C	Top fixing Linerlock: in 3m (10') lengths	100 lengths	£837.73 = £0.838 per foot
C	Top fixing Linerlock: in 3m (10') lengths	300 lengths	£2,461.69 = £0.820 per foot
C	Solid Radius corners for Top fixing Linerlock	per set of 4	£16.93 per set of 4
C	Flexible Radius corners for Top fixing Linerlock	per set of 4	£22.86 per set of 4
C	Side fixing Linerlock: per 3m (10') length	each	£20.59
C	Linerlock Wedging (Standard Profile)	300m roll	£421.87 = £1.406 per metre
C	Linerlock Wedging (Standard Profile) - BLUE	300m roll	£483.52 = £1.612 per metre
E	Sealant for Linerlock Wedging (HB-40)	300ml tube	£10.12 per tube
Liner Repair Kits			
E	2 oz Repair Kit	each	£10.08
E	16 oz (1 pint) Tin of Liner Adhesive	each	£46.80
Other Accessories			
B	Aquaflex Liner Clean	1 Litre container	£10.02
B	Alkorplus 81059 Metal Remover	1 Litre container	£75.07
B	Alkorplus 81059 Metal Remover	6 x 1 Ltr pack	£436.13
n/a	Aquaflex Liner Vac (110 volts)	each	£719.00
E	Plastic Corner Inserts (1.07m)	per set of 4	£84.02
E	Plastic Corner Inserts (1.50m)	per set of 4	£103.78
E	Easitanks (Water Storage)	See page 66 for prices and information	

For the most up to date information, please visit www.aquaflex.co.uk and select 'download brochures'.

Deluxe Felt/Underlay Adhesive



Aquaflex Liner Clean

Aquaflex Liner Clean is the recommended non abrasive PVC Liner/Tileband cleaner. It will deal with the most stubborn scum line deposits and calcium build up.

It has been specifically designed to remove build up of scale, scum and body fats from most wet surfaces, without affecting the pH levels or TDS levels of the pool water.

This multi purpose descaler is suitable for use on PVC pool liners, tiled surrounds, acrylic spas and fibreglass. **WARNING: Do not use on stainless steel or chrome**

Directions: Use as supplied. Apply to surface and leave for 5 minutes. Agitate with a soft brush or cloth and then rinse with clean water. For general cleaning Aquaflex Liner Clean can be diluted up to 40:1.

Alkorplus Anti-Stain

ALKORPLUS anti-stain 81059 is a mineral product, concentrated to 30%. The product neutralises various metal ions such as copper, lead, tin, cadmium, silver, etc... (an ion: the form taken by a metal or metal salt when dissolved in water).

One of the principal causes of the aesthetic problems associated with swimming pool liners is the presence of dissolved metal. The problems take the form of staining and discolouring which is very difficult, if not impossible, to remove. It is, therefore, important to remove the traces of dissolved metal before the staining appears. ALKORPLUS anti-stain product offers a simple, safe, and effective system for reducing the presence of dissolved metal in swimming pool water.

It is important to shake the product thoroughly before use. The product is neither toxic, nor irritating. Under no circumstances should the product be mixed with an acid as it gives off an irritating and inflammable gas. This technique is not compatible with other disinfecting methods, that are based on the presence of dissolved metal in the pool water (such as copper sulphate and electrophysical systems). The treatment of pool water by means of the ALKORPLUS anti-stain is compatible with flocculating products based on aluminium salts.

ALWAYS READ THE COMPLETE INSTRUCTIONS BEFORE USE.



Deluxe Felt Underlay

Thicker, tougher and more dimensionally stable than the Standard Felt, this is the underlay that Aquaflex has used for many years for both commercial and domestic site lined swimming pools. It is now available in roll form for easy use with pre-tailored swimming pool liners.

The Deluxe Felt Underlay is 400g/sq mt. as apposed to 300g/sq mt. for the Standard Felt underlay. This gives even more protection for the liner against any imperfections in the pool shell so is ideal for renovation work as well as for new builds. Please see page 21 for prices.

Underlay adhesive

This adhesive is essential for fixing underlay to the pool walls and floor surfaces.

It is easy to use with no mess.

We recommend using 4 cans of adhesive per full roll of felt (100 Sq. Mtrs)

Without using an adhesive the underlay is liable to move about and form unsightly rucks under the liner.

These can be ordered singularly or in boxes of 12

For prices see page 21.



Aquaflex Air Structure

With installation only taking approximately 4 hours, you can start enjoying your air structure the same day you receive it. In not only protects children and animals from the pool, it keeps out leaves and other debris reducing cleaning time. It will cut your chemical and heating costs as well as help warm the pool by solar gain.

Aquaflex Air Structure

DIY Costing for Air Structures	Structure Only	Structure with Fan
UP TO 1300 SQ.FT. (121 SQ.MT.)	area (sq.ft) x £2.40 + £2665	add £1740
UP TO 2000 SQ.FT. (186 SQ.MT.)	area (sq.ft) x £2.78 + £2531	add £1740
OVER 2000 SQ.FT. (186 SQ.MT.)	area (sq.ft) x £2.85 + £2783	add £1740

Product Category	Size of Air Structure	Sq.ft.	Structure Only	Structure with Fan
D	16 x 28	16 x 28 = 448	£3,738	£5,476
D	18 x 32	18 x 32 = 576	£4,045	£5,783
D	18 x 36	18 x 36 = 648	£4,217	£5,956
D	20 x 36	20 x 36 = 720	£4,390	£6,129
D	20 x 40	20 x 40 = 800	£4,582	£6,321
D	22 x 40	22 x 40 = 880	£4,774	£6,513
D	22 x 44	22 x 44 = 968	£4,985	£6,724
D	24 x 44	24 x 44 = 1056	£5,196	£6,935
D	24 x 48	24 x 48 = 1152	£5,426	£7,165
D	26 x 48	26 x 48 = 1248	£5,657	£7,395

Nb: Max size manufactured 50' x 100'

Extras	
D Extra Zip Opening	£140.95
D Fan Box Complete (without motor)	£1,013.90
D Fan Lid	£258.72
D Fan Box	£785.48
D Speed Controller with Safety Trip	£587.36
D Fan Motor	£867.06
D Fan Unit Complete	£2,382.08

Extras	
D Eyebolts	£5.17
D Rawlplugs	£1.07
D Shackles (Stainless Steel)	£11.72
D Water Tubes (per linear metre)	£16.69
D Water Tube Caps	£5.24
D Zip Panel	£72.25
D Zip Fixings (40)	£14.10

Installation costs - see page 1

Features:-

- Made from tough UV protected vinyl
- Scuff proof materials at ground level
- Two different anchor systems to suit your site
- Replacement zip mechanism
- Zip flap door for easy access
- Door position to suit your requirement
- Low level models available
- Weather proof fan housing
- 3 year structure guarantee (applies only to Northern latitudes, refer to Aquaflex if dome site is in Southern Europe)
- Available in special shapes and sizes



Zip Fixings



Structure Height

As a rough guide, the height of the structure will be approximately half the width - e.g.: a 20' wide structure would be about 10' high. The height will vary with the material, temperature and width of the structure. If it is essential that the height is kept below a certain level, then Aquaflex should be advised. We will be able to manufacture a special low profile structure. Always check with the local Government Planning Office prior to purchase.

Inflation Fans

The structure is inflated using a fan mounted in weather proof housing. The air funnel of the fan housing is placed under the water tube or cable fixing, alleviating the need to cut holes in the fabric of the structure.

Planning permission is not normally needed for air domes but it is advised that you check with your individual local authority.

Call Aquaflex today **Tel:+44 (0)1722 328873**

On-Site Lining

Aquaflex carries out the major proportion of the Alkorplan installations in the United Kingdom and will only consider using the tried and tested Alkorplan material. In our opinion Alkorplan material is the best pool lining system on the market with the highest reputation throughout Europe and beyond.

An Alkorplan swimming pool can increase the value of a property. By being adaptable to the most complicated shapes, the prospective pool owner is free to select the type of swimming pool which is most suited to the contours and layout of his or her garden and the architectural style of the house.

Alkorplan is the perfect way to renovate old leaking tiled or painted concrete pools. It is very easy to clean and maintain.

Aquaflex Site Lining Range



Image courtesy of Aquastyle



Image courtesy of Aquastyle



Image courtesy of Aquastyle

Commercial and Residential Pools



Image courtesy of Aquastyle



Image courtesy of Aquastyle



Image courtesy of Astral



Image courtesy of Hamilton Pools



Image courtesy of Wrightfields



Image courtesy of Spish SplashPools



Image courtesy of Swimming Pool Solutions

Strength and Versatility

Image courtesy of Campbell Pools

The Ultimate in Flexibility

When it comes to negotiating tight corners, complicated shapes and unusual sizes, the Aquaflex Pool Lining System offers the ultimate in flexibility.

Strength and Versatility

The Aquaflex Pool Lining System is ideal for both commercial and residential pools - and comes into its own particularly on renovating and refurbishment of sites.

The System's main selling point is its exceptional strength. The material, which incorporates a polyester reinforced mesh, is 1.5mm thick which enables it to withstand intensive use and severe knocks from even the most enthusiastic swimmers. It also has a special formula that includes a UV stabilising treatment which can withstand exposure to all extremes of weather, retaining its properties year after year.

Guaranteed for 16 years, with a life expectancy nearer to 20 years, the System can be used on new or existing constructions including concrete, cement render, brick or block, steel or aluminium, timber or fibreglass builds. The System is ready for installation in any swimming pool irrespective of shape; rectangle, oval, kidney, circular, trapezoidal, completely irregular, with or without lined steps etc.

The Aquaflex Pool Lining System can be comfortably run at temperatures up to 32°C (90°F) without any detrimental effect on the expected life of the lining. Even at temperatures up to 35°C (95°F) the lining will give many years of service and is still covered by a more limited 5 year guarantee.

See the Aquaflex website for more details - www.aquaflex.co.uk

The Method

Before the Aquaflex team is called in, the shell of the pool would be prepared or built by the main pool contractor using standard liner fittings: skimmers, inlets, lights, sumps and linerlock.

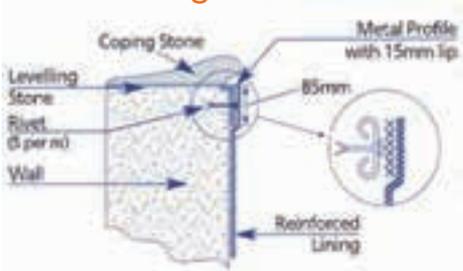
The Aquaflex team start by gluing felt underlay to the base and sides of the pool. Generally they would then weld a bead to the top of the sidewalls. There is an option for a different type of fixing whereby PVC coated metal is fixed to the pool and also underneath the coping stones. In this instance the liner is then welded directly onto the metal profile. This system is particularly useful when renovating old pools especially when it is important not to disturb the coping stones.

The sidewall is then clipped into the linerlock (or welded to the metal profile) and cut to the correct depth. The base of the pool can now be lined and the sidewalls welded to the base. The material is overlapped by 50mm and welded by hot air gun.

All welds are scribe-tested and sealed with liquid PVC mastic.

All our in-house Aquaflex teams are qualified Renolit approved installers.

Metal Fixing



Beaded Fixing



Options

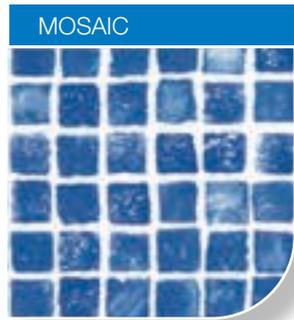
There are several colour and pattern options available as well as anti slip for the base and steps.

Other options include lane lines and demarcation lines.

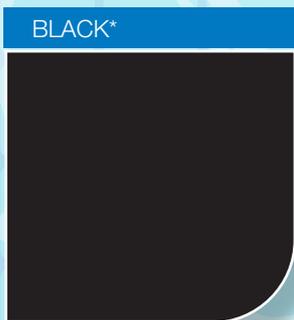
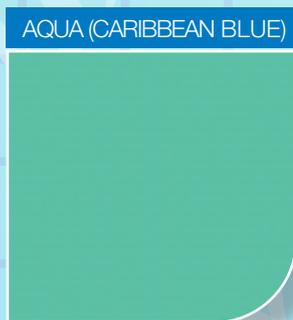
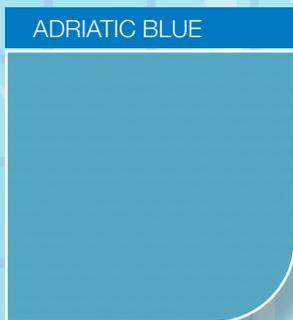
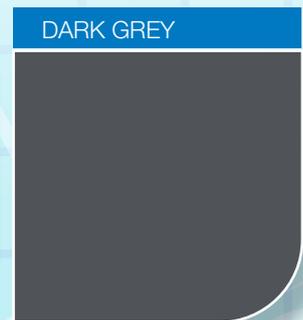
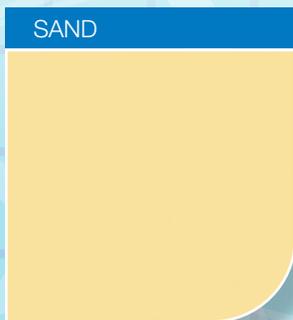
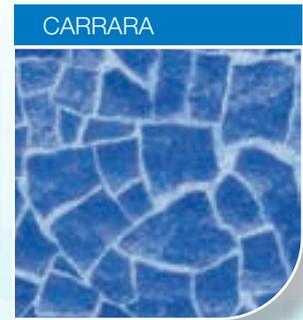
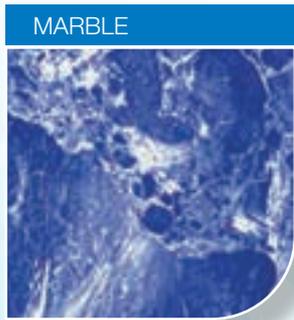
Visit our website www.aquaflex.co.uk

Aquaflex Site Lining Material

WHILST STOCK LASTS



Please note this material is 2mm embossed



*Additional costs apply
- Premier Range

WARNING: If the pool has an automatic salt chlorination system without the correct dosing control, there is a great danger that the pool water will be over chlorinated. This will result in colour/pattern loss of the pool liner.

PLEASE SEEK SPECIFIC ADVICE FROM YOUR SALT CHLORINATOR SUPPLIER.

**TOUCH/
CERAMICS RANGE**
please see page 31-32
for touch and our new
ceramics range



The Premier Range

The Premier Range

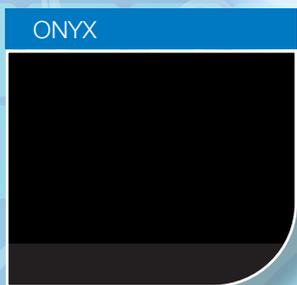
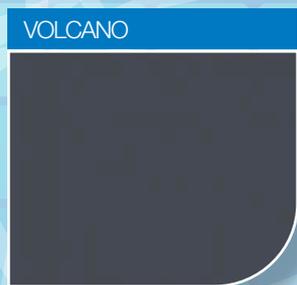
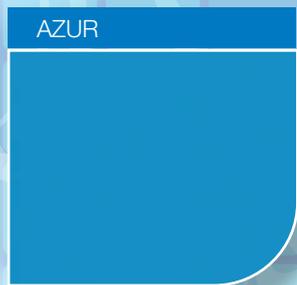
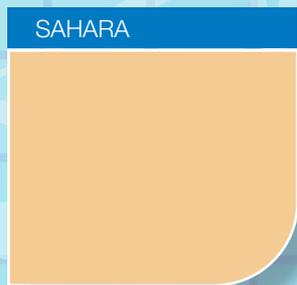
“The first chlorine-resistant reinforced membrane for swimming pools, even under extreme conditions”

The Premier Range is a soft, flexible, reinforced membrane. It is the result of the most advanced technological development in pool liners. It will withstand the wear and tear of regular, everyday use by large numbers of bathers and the resultant high level of pool cleaning chemicals.

The Premier Range protective shield prevents the membrane from becoming discoloured, repels dirt and does not allow bacteria to cause irreparable staining.

The Premier Range, has an extremely dense protective shield that covers the entire surface, both on the front and reverse sides. It cannot be penetrated by chemical agents or bacteria and is highly resistant to random grazing and scratching.

For this reason The Premier Range offers:



Guarantee

 **15** Years

Watertightness

Guarantee

 **5** Years

On Colour

Guarantee

 **5** Years

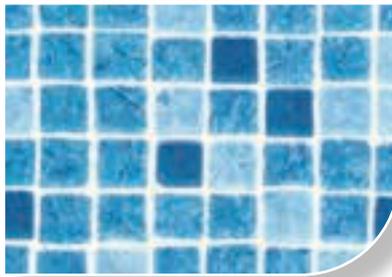
Anti Stains

Anti Slip

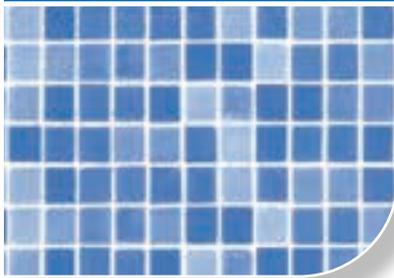
We strongly recommend using anti-slip on steps, and in some cases, the base of the pool can also be site lined with anti-slip.

The following colour options are available:

PERSIA BLUE



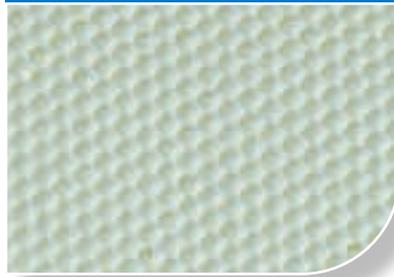
BYZANCE BLUE



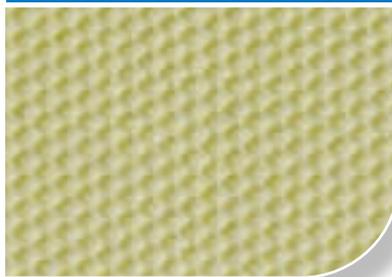
CARRARA



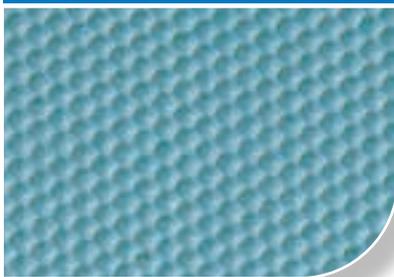
WHITE



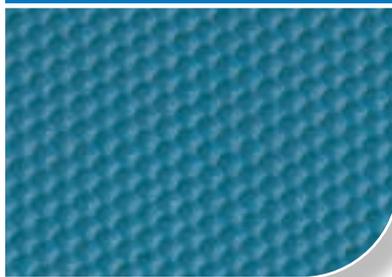
SAND



ICE BLUE



BLUE



LIGHT GREY



DARK GREY



Image courtesy of Hamilton Pools

Aquaflex Touch

The **Touch** range is manufactured in extremely tough 2.00mm material and is the only pool lining to have a natural looking texture incorporated into it. This unique texture means that the **Touch** material has a tactile element which is utterly unique.

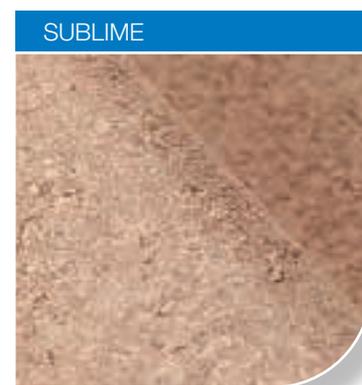
The patterns are designed to give a natural feel and appearance, giving the sensation of swimming in a natural pool or lagoon whilst never compromising on the high protection aspect expected from all Alkorplan products. The multiple layers of acrylic varnish ensure a finish which will look fantastic for years and years, withstanding all kinds of punishment endured in a swimming pool environment.

The 3D embossed **Touch** range is presented in seven different patterns; **Touch** Origin which is new for 2021, **Touch** Elegance, **Touch** Relax, **Touch** Authentic, **Touch** Vanity, **Touch** Prestige and **Touch** Sublime all designed to give a beautiful natural looking pool.

Touch “Feel the difference”

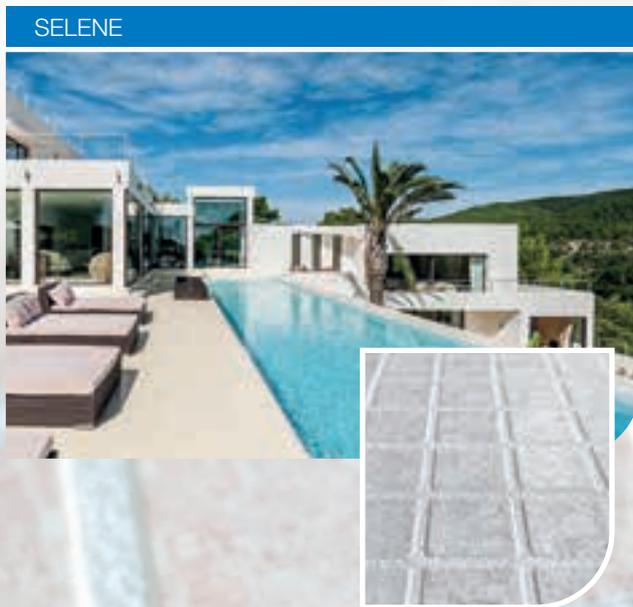


“Unique in every way”



The Ceramics Range

Constantly finding new and exciting directions for swimming pool linings is always a difficult challenge, but we believe that the new range of Ceramic materials definitely manages to achieve this. Built on the basic design of the Persia range of prints, the Ceramic patterns combine the traditional “mosaic tile” effect with a beautifully textured 3D finish which both looks and feels totally new and original.



The Ceramic range comes in four stunning new colours; Selene, Etna, Sofia and Atenea – all simulating vitreous tiles. Like the Touch range, the Ceramic materials are 2mm embossed, reinforced pool-lining membranes, and are fully compatible and interchangeable with the existing colours and patterns in the Aquaflex Site Lining Range.

Aquaflex Synergy



This perfect blend of Aquaflex Pool Lining System and Ceramics offers a unique and beautiful combination transforming any pool giving it a sophisticated and elegant look.

The installation of Aquaflex Synergy is similar to that of the normal Aquaflex Pool Lining System but with the additional installation of a 300mm heavy weight PVC coated metal profile around the top perimeter of the pool.



Once the pool has been lined, using a special adhesive, ceramic tiles are laid onto the PVC coated metal. The tiles, of your choice, are then grouted in the normal way, achieving a beautiful tiled finish at the waterline of the pool.

Our large range of Aquaflex Pool Lining System materials can be married with any complementary ceramic tiles.

So create something beautiful and request a quote now for the Aquaflex Synergy, simplicity at its best.

Photographs supplied by Pooltec Maintenance

Togetherness

“Offering the best of both worlds”

Liners for Reservoirs, Ponds and Lakes

Aquaflex provides the complete range of PVC materials, from the smallest back garden pond liner to the largest reservoir. Flat sheet liners can be supplied in one piece to almost any size required, although in practice, it is not advisable to take pre-tailored sheets any larger than 100m². Liners larger than this would require on-site welding. Please call our site lining department for assistance.

Liners for Reservoirs, Ponds and Lakes

Product Code	C	C	C
Gauge (metric)	0.50mm	0.75mm	1.00mm
Gauge (Imperial)	.020"	.030"	.040"
approx weight	0.65kg/m ²	0.96kg/m ²	1.28kg/m ²
max. rec. size	12m x 12m	No Limit	No Limit
Warranty (exposed)	5 Years	10 Years	10 Years
Warranty (buried)	10 Years	20 Years	25 Years
Price (per M ²) Flat sheet	£9.92	£12.87	£16.06
Price (per M ²) Tailored	£15.93	£21.39	£26.82



* For tailored liners see Costing Procedure on pages 10 and 11 (Liners smaller than 35m² will incur a surcharge) then use the prices in the table above. Alternatively, please ring the Aquaflex sales office on 01722 328873 for a quotation.

Carriage Information for Liners

Group 1	Pond Liners over 80m ² (862ft ²)	see page 2
Group 2	Pond Liners between 50-80m ² (539-862ft ²)	see page 2
Group 3	Pond Liners less than 50m ² (539ft ²)	see page 2



1



2



3



4



5

Pictures showing large ornamental lake installed by the Aquaflex site lining team.

Water Features



- Lakes
- Streams
- Flight Ponds
- Ornamental Ponds
- Storage Tanks
- Golf Course Lakes
- Water Lagoons
- Reservoirs

Aquaflex liners for reservoirs, ponds and lakes

Aquaflex provides the complete range of PVC materials, from the smallest back garden pond liner to the largest reservoir. Flat sheet liners can be supplied in one piece to almost any size required, although in practice, it is not advisable to take pre-tailored sheets any larger than 100m².

Liners larger than this would require on-site welding.

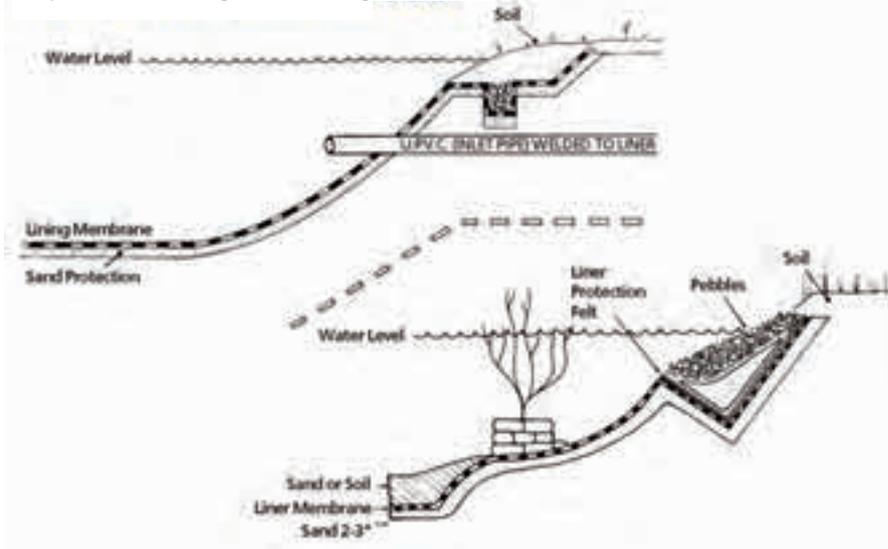
Aquaflex's specially formulated pond/reservoir lining material offers outstanding performance and value for money. See page 35 for prices.



- High tensile strength
- Good resistance to surface abrasion
- Resistant to root penetration
- U.V. Stabilised
- Life expectancy - 20 years plus
- Comprehensive range of materials
- Can easily accommodate complex water feature designs
- Easily repaired
- Design advice available



Typical Edge Fixing Detail

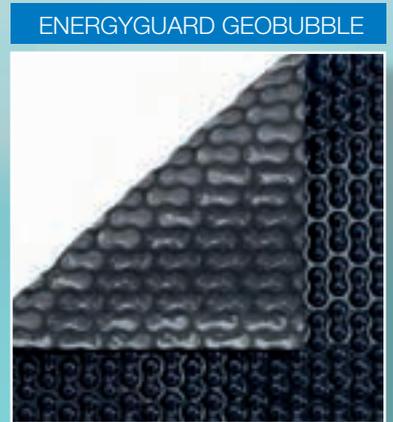
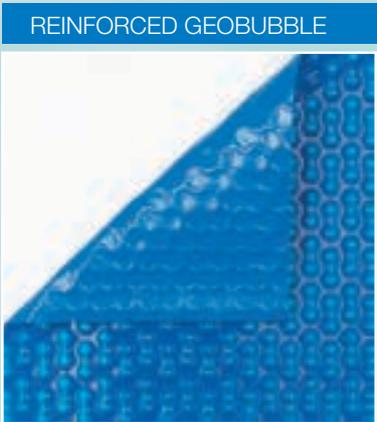
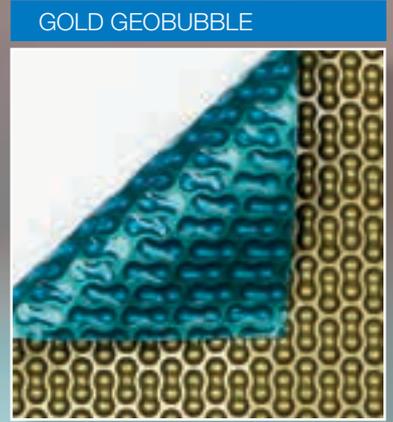
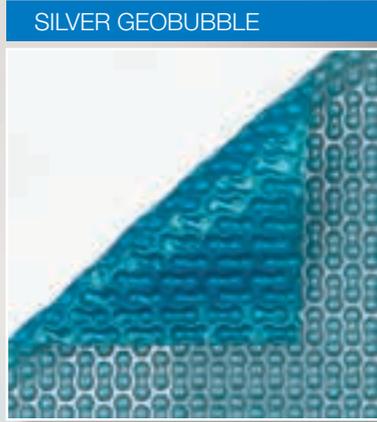


On-Site & Pre-Tailored System using Flexible Membranes or Flat Sheet (supply only)
 Professional Installation Service
 Specifically for: Private, Commercial, Agricultural and Leisure Features

Solar Covers

Aquaflex provides the complete range of solar covers for heat gain/retention in swimming pools. From the economy grade 400 blue covers, mainly for above ground pools, through the efficient SolGuard/EnergyGuard product range, up to the more robust Reinforced covers, Aquaflex has it covered.

Aquaflex Solar Covers



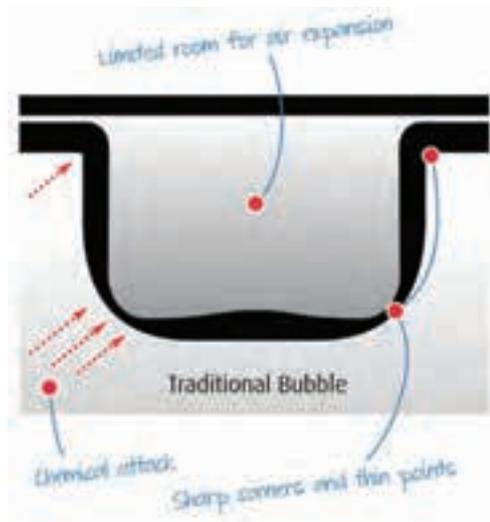
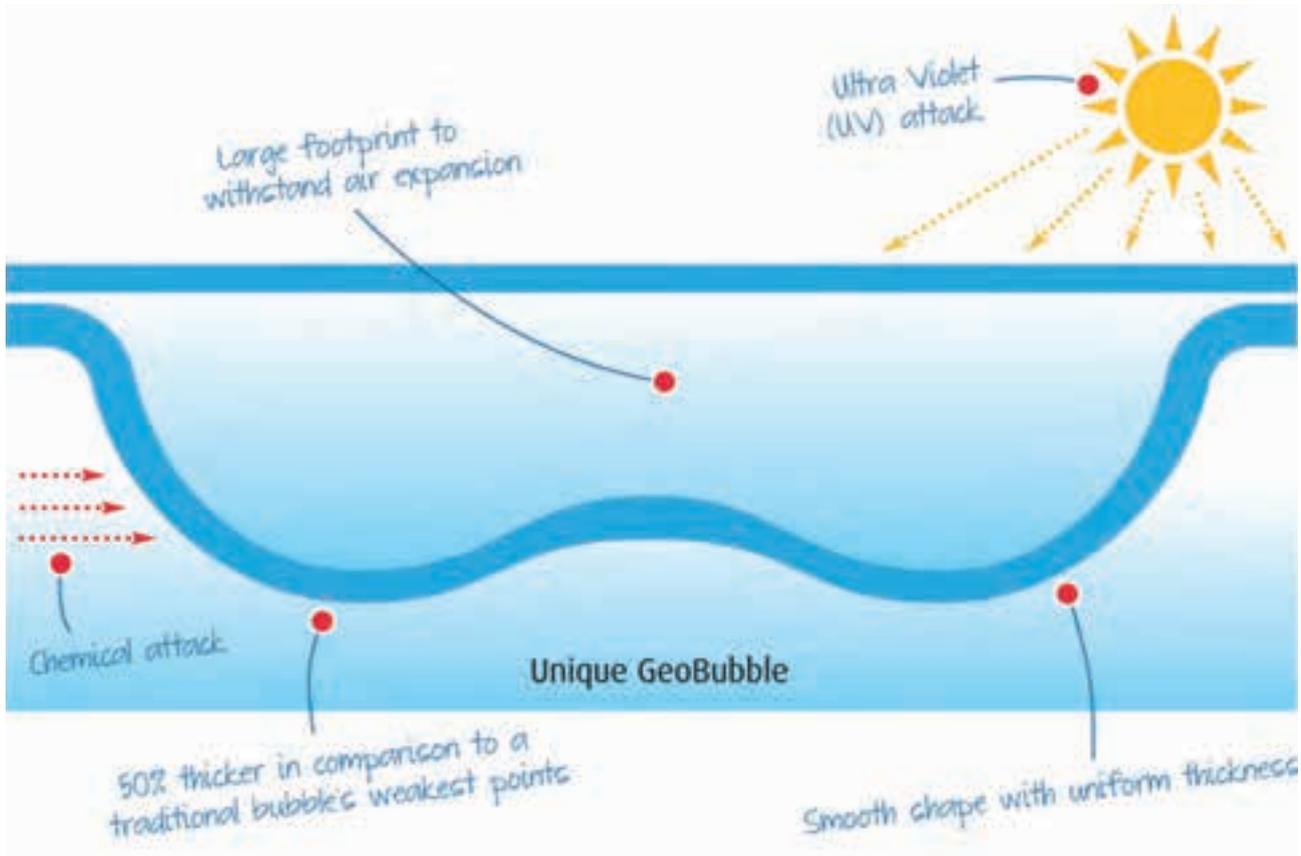
Make the most of the sun

Don't forget to protect your cover, with a roller storage cover - see page 42

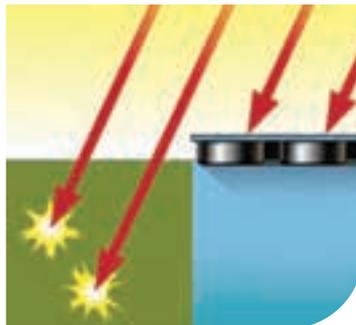


Geobubble Technology

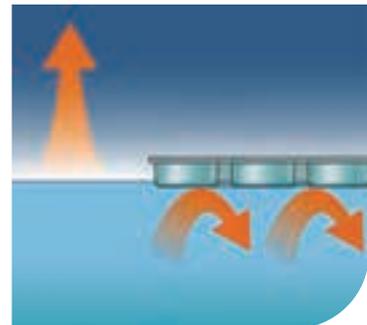
GeoBubble technology combined with high performance Guard materials will give you a longer lasting cover with the highest energy and chemical saving efficiencies.



... scientifically designed to be more resistant to chemical and UV attack for longer than a traditional shape bubble, and as a result its expected lifespan will increase by 25%+. Eliminating weak and thin points gives you a stronger pool cover that can withstand chemical and Ultra Violet (UV) attack which leads to premature failure.



Absorb the sun's energy

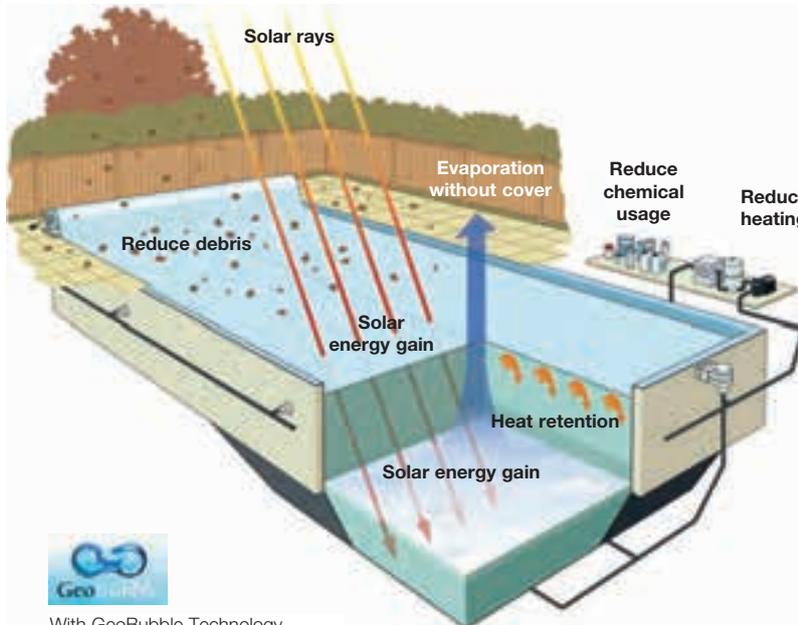


Retain heat

Solar Covers



Cover material that maximises solar gain to heat your pool



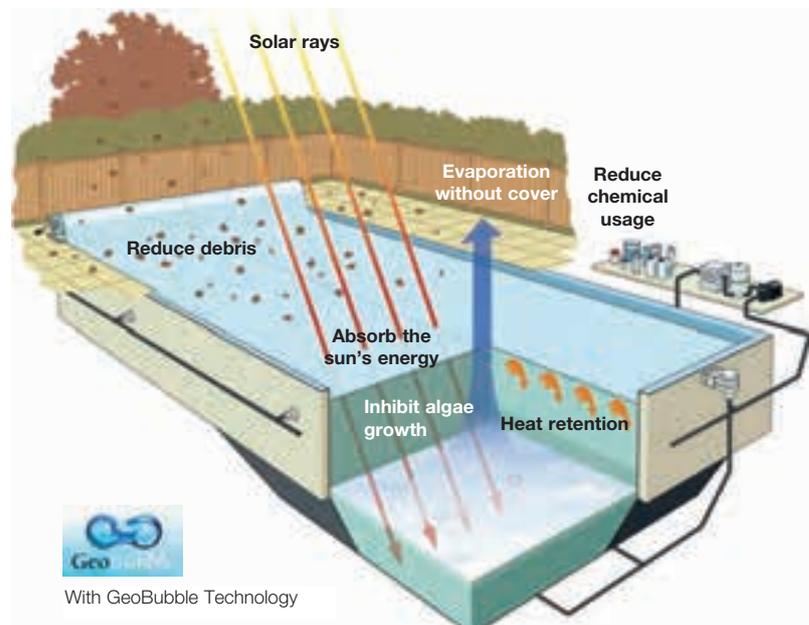
With GeoBubble Technology

- Increase pool temperature by up to 8°C
- Eliminate water evaporation by 98%+
- Reduce chemical consumption by up to 40%
- Reduce energy consumption by up to 70%
- Reduce debris contamination
- Save money
- 6 year pro rata warranty



Cover material that beats swimming pool algae

- Inhibit algae growth
- Reduce filtration/pump time by up to 50%
- Eliminate water evaporation by 98%+
- Reduce chemical consumption by up to 70%
- Reduce energy consumption by up to 50%
- Absorb the sun's energy
- Reduce debris contamination
- Save money
- 6 year pro rata warranty



With GeoBubble Technology

Aquaflex Solar Covers

All Aquaflex solar covers are invoiced to the nearest rounded up square metre as per the tables below. Aquaflex solar covers are made **slightly oversized on the length to allow for possible shrinkage (please see page 83)** - bear this in mind before trimming to size on site. Sol Guard is now available in two special grades. The Standard 140 is suitable for UK conditions. The 180 grade has been specially formulated to deal with the harsh conditions in hot sunny climates such as the Middle East or North Africa.

Aquaflex (Geobubble) Range

Product Code	Bubble Type	Cover Price per Sq.Ft.	Cover Price per Sq.Mtr.	Shaped 5ft Radius Roman End
F "400" Blue	Geobubble or Round	£0.694	£7.466	£41.693
F "400" Silver	Geobubble or Round	£0.828	£8.910	£48.602
F "500" Gold	Geobubble only	£0.957	£10.301	£54.929
F SolGuard - "140 Grade"	Geobubble only	£1.190	£12.805	£68.935
F SolGuard - "180 Grade"	Geobubble only	£1.295	£13.938	£75.039
F EnergyGuard & CoolGuard	Geobubble only	£1.190	£12.805	£68.718
F "400" Black	Geobubble only	£0.812	£8.740	£48.808
F Reinforced	Geobubble only	£1.612	£17.342	£87.710

Other carriage Information

Please note reinforced covers will incur considerably high carriage costs, due to the fact that these covers can not be folded. Always request a carriage quote as these can vary from £250.00 up to and over £500.00

For other solar covers see carriage information on inside front cover.

* Black and Reinforced covers will be available in round bubble only until stocks run out - after which they will only be available in Geobubble.

Important! - Unsymmetrical Solar Covers

To prevent excessive wastage of material and to keep prices to a minimum, Aquaflex solar covers are not generally made symmetrical – in other words the welds will not necessarily be equidistant from the edges. If a symmetrical appearance is required, this can be accommodated with a small surcharge – Please contact the office for pricing.

Aquaflex Summer Cover Pricing

1. Standard price as above, applies to all rectangular covers before any additions for bays, etc.
2. Non bordered covers will be priced up to the nearest whole sq mtr e.g. 4.5m x 8.2m = 36.9sq mtrs - priced as 37sq mtrs.
3. Covers with integral shaped Roman end sections will be priced as for the rectangle from which the cover was shaped.
4. Covers less than 20 sq ft will incur a surcharge; price on application.

For the most up to date information, please visit www.aquaflex.co.uk and select 'download brochures'.

New carriage information for 2021

Please note that we have been forced to introduce heavily increased carriage charges for solar covers as all carriers now charge such items on a volume basis. This seriously affects the larger covers (over 48m²) as they are very large but very light items. We have also introduced a surcharge for leading edges as these invariably increase the volume even further. We are pleased to be able to hold the £13.80 surcharge for deliveries to other addresses (i.e. to site).

Aquaflex Solar Covers

Aquaflex Leading Edges

Product Code	SOLARGLIDE	Price
F	SOLARGLIDE for covers up to 12' (3.66m) wide cover	£121.28
F	SOLARGLIDE for covers up to 16' (4.88m) wide cover	£136.71
F	SOLARGLIDE for covers up to 20' (6.09m) wide cover	£160.97
F	SOLARGLIDE for covers up to 24' (7.31m) wide cover	£203.96
F	SOLARGLIDE for covers over 24' (7.31m) wide cover	POA
F	Charge for Factory fitting (all sizes)	£63.47

Product Code	DIY AQUASPOILER	Price
K	DIY AQUASPOILER - covers up to 12' (3.66m) wide	£198.15
K	DIY AQUASPOILER - covers up to 16' (4.88m) wide	£241.00
K	DIY AQUASPOILER - covers up to 20' (6.09m) wide	£267.78
K	DIY AQUASPOILER - covers up to 26' (7.92m) wide	£305.16
K	DIY AQUASPOILER - covers over 26' (7.92m) wide	POA

Product Code	SUPERGLIDE	Price
F	SUPERGLIDE - covers up to 16' (4.88m) wide	£241.14
F	SUPERGLIDE - covers up to 20' (6.09m) wide	£294.72
F	SUPERGLIDE - covers over 20' (6.09m) wide	POA

Extras and Accessories

Product Code	Description	Price
F	Reinforced border at Roller End (Hemming)	£1.77 per Lin ft. £5.81 per Lin Mt
F	Sleeve to take Towing Kit	£2.66 per Lin ft.
F	Extra for shaping free form covers	£0.23 per sq.ft.
F	Towing Kit (Pipe, End Caps and Rope)	£122.85 each
C	Blue SmartClic Connectors: each	£0.93 each
C	Blue SmartClic Connectors: per 100	£93.50 per 100
F	Webbing (50m on a roll)	£1.20 per metre
F	Aquaflex Roller to cover Attachment Kit	£50.52
E	Foam Rods	£5.62 each
E	Popper/Straps - Set of 6 (NOT SmartClics)	£26.88 per pack

Product Category	Description	Price
C	Roller Storage Cover for Covers up to 15' wide	£127.85
C	Roller Storage Cover for Covers up to 20' wide	£139.36
C	Roller Storage Cover for Covers up to 24' wide	£161.90
C	Roller Storage Cover for Covers over 24' wide	POA

UV Protection Sheets

Product Category	Description	Price
E Silver/Black	Polyethylene, 0.9m wide - cut to length	£1.52 per Lin Mt
E Silver/Black	Polyethylene: per 200m x1.83m roll	£349.80 each
E Deluxe Blue/Black	Protection Sheet, 1.0m wide - cut to length	£2.41 per Lin Mt
E Deluxe Blue/Black	Protection Sheet, Whole roll (1m x 100m)	£164.34 each

Carriage Group 4 - see page 2

Solar Cover Accessories

Providing the swimming pool trade all the necessary accessories to cater for solar covers of all shapes and sizes, residential and commercial.

Accessories



Aquaflex Edge Seal - for solar covers to suit Deck level and Infinity pools

A neat solution to the problem of exposed edges to solar covers on both Deck Level and Infinity pools. The ingenious new Aquaflex Edge Sealing strip has a weighted hem hanging approximately 5" (127mm) under the edge of the cover to keep it in place and protected from the wind. For Deck Level pools the Edge Seal would be on all four sides, whilst for Infinity pools it would only be required on the relevant side(s) of the cover.

Product Code	Description	Price
F	Aquaflex Edge Seal - per linear metre	£24.57
F	Aquaflex Edge Seal - per linear foot	£7.49

Roller Storage Cover

Covers left on rollers for extended periods, especially during the winter should be protected from the elements. The Aquaflex Roller Storage Cover is made from robust green reinforced PVC specifically designed for outdoor use.

Product Category	Description	Price
C	Roller Storage Cover for Covers up to 15' wide	£127.85
C	Roller Storage Cover for Covers up to 20' wide	£139.36
C	Roller Storage Cover for Covers up to 24' wide	£161.90
C	Roller Storage Cover for Covers over 24' wide	POA



Aquaflex Roller to cover Attachment Kit

This universal kit provides a simple method for attaching any type of solar cover to any type of roller.

Each kit comes complete with all the straps, toggles, screws and washers required as well as a drill bit.



Product Code	Description	Price
F	Aquaflex Roller to cover Attachment Kit	£50.52

Aquaflex Leading Edges

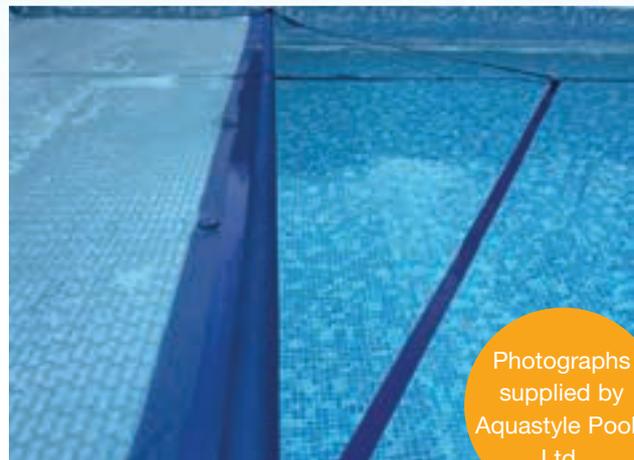
Superglide Leading Edge



Product Code	Description	Price
F	Superglide - covers up to 16' (4.88m) wide	£241.14
F	Superglide - covers up to 20' (6.09m) wide	£294.72
F	Superglide - covers over 20' (6.09m) wide	POA

The Superglide Leading Edge which complements the Aquaflex range, gives a towing edge which is more rigid than the Solarglide but far simpler to assemble than the Aquaspoiler. We believe that the simple, streamlined and effective design of the new Superglide Leading Edge will quickly establish it as the primary leading edge combining as it does, the best qualities of its sister towing edges.

The Superglide Leading Edge stops just short of either side of the pool to allow for radius corners to be incorporated as required. In the "rest" position the sleeve containing the pipe folds back neatly on to the surface of the cover. The pipe, with its flush joiners and endcaps, is easily inserted into the sleeve - the installation is really that simple!



Photographs supplied by Aquastyle Pools Ltd.

Aquaflex Leading Edges



Aquaflex Solarglide

The Solarglide leading edge incorporates a foam filled towing bar which enables the pool owner to pull the solar cover off the roller onto the pool with ease. It can be supplied either in kit form for retro fitting to an existing solar cover, or factory fitted as part of a new cover. This enables the cover to be positioned easily on the pool with the minimum of effort.

Prices shown on page 42.

AquaSpoiler... the ultimate DIY leading edge



The AquaSpoiler is extruded using ABS material (with extra UV stabiliser) which makes it strong, light and buoyant. The closed-cell foam is totally encapsulated so won't get mouldy and unsightly debris won't get trapped inside any part. The different component parts all snap together to make a very rigid boom. This is all done in the factory as well as pre-drilling the holes to connect the AquaSpoiler to the cover.

To connect the AquaSpoiler to the solar cover the revolutionary new SmartClic connector is used. These screw tightly together to prevent them coming apart.

The AquaSpoiler is so strong that it does not need a 3 point rope attachment. There is just one central pulling point used in the centre of each boom with a detachable rope which can then be coiled up and safely stored away.



Fig 1



Fig 2

After a couple of seasons, an ordinary leading edge can end up looking like the pictures see Fig 1 and Fig 2

Like any leading edge the AquaSpoiler will also encounter chemical deposits. However, unlike other types of leading edges, they can be easily cleaned off. Although initial costs may be higher, long term savings are achieved because the SmartClic unscrews enabling you to detach the AquaSpoiler easily from the old cover so that you can re-use it on a new one.

Prices shown on page 42.

Call Aquaflex today **Tel:+44 (0)1722 328873**

The Monaco

The Monaco domestic roller, offering luxury at affordable prices.



The Monaco Standard

(product code L)

Comes with

- Standard features as described
- Standard steering wheel

Small For pools up to 16 feet wide (4.88m)	Large For pools up to 20 feet wide (6.40m)
£665	£695
£785 with castors	£815 with castors



The Monaco Deluxe

(product code L)

Comes with

- Standard features as described
- Stylish, marine standard, deluxe steering wheel

Small For pools up to 16 feet wide (4.88m)	Large For pools up to 20 feet wide (6.40m)
£810	£845
£930 with castors	£965 with castors



The Monaco Premier

(product code L)

Comes with

- Standard features as described
- Stylish, marine standard, deluxe steering wheel
- Factory fitted SmartGear, a unique 3 to 1 reduction gearbox which really does make light work of winding a cover off a pool. SmartGear has been designed to be retro-fitted so one can be added to the Monaco Standard or Deluxe at a later stage.

Small For pools up to 16 feet wide (4.88m)	Large For pools up to 20 feet wide (6.40m)
£1,150	£1,181
£1,270 with castors	£1,301 with castors



The Monaco Standard X

(product code L)

Comes with

- Standard features as described
- Standard steering wheel
- Factory fitted SmartGear 3:1 reduction gearbox

Small For pools up to 16 feet wide (4.88m)	Large For pools up to 20 feet wide (6.40m)
£995	£1,045
£1,115 with castors	£1,165 with castors

The Monaco Extras



Monaco rollers come complete with an anodised aluminium tube which has extra grooves for optimum strength. This tube will not sag under the weight of a solar cover and is so strong that it can also be used for a semi-commercial reel.

The clamping bar is extra long and round for added strength and both clamping bar and tube are easily adjusted, located and fixed into position by heavy duty allen key bolts.

The unique design of the yoke with its integrated rollers, or "coaster bearings", makes the operation of the reel extremely easy.

The stands are made from 1¾" stainless steel for extra stability. Because of the strength and stability of the reel, we believe that in most site conditions, deck anchors will not be necessary.

The special reinforced ends, or "feet", are adjustable for uneven paving and castors can be retro-fitted at any time.

Product Code	Description	Price
E	Deck Anchors (per pair) Standard	£45.15
E	Deck Anchors (per pair) Long	£49.35
E	Set of Castors (six)	£120.00
E	Replacement Castors (each)	£21.00
L	SmartGear 3:1 Gearbox Retro (to fit Monaco domestic reels)	£299.25

Carriage Group 4

The Monaco Sunreel



Monaco SunReel (remote controlled)

The Monaco sunreel comes complete with a remote control fob. If the fob is lost or damaged the reel can still be operated using the 3-way switch. The Monaco SunReel Extra also includes the IP65 rated battery charger.

As the reel is operated by remote control it means that the Solar Pack can be sited away from the reel system to optimise the best solar gain. For example it could be positioned on top of the plant room or on a wall and this means it can also be used for indoor pools. A cable link can be supplied to bespoke lengths.



Product Code L	Monaco SunReel (remote controlled)
Small, for pools up to 15' wide	£2,331.00
Large, for pools up to 21' wide	£2,384.00
Optional Extras	
Cable Link	POA

To comply with the terms of the warranty it is essential that the correct battery charger is used. This can be supplied as an optional extra, see above. Use of any other chargers will render the warranty void.

Carriage Group 6

Visit our website www.aquaflex.co.uk

The Monaco Commercial

Monaco commercial rollers are designed with strength and ease of use in mind. Various floor and wall options are available. Combining 316 grade stainless steel supports with a 6" diameter aluminium tube gives the Monaco commercial roller its superior strength and robustness, ensuring that there is no sag when there is a heavy cover on the reel. There is also the option to have a mobile version of the roller using 5" heavy duty swivel castors with brakes.

The electric option comes with remote control and comprehensive control panel. For safety a 24v DC motor is used. All electric Monaco rollers come with a manual override so that in the event of a power failure, the cover can still be taken on and off the pool.

Carriage price on application.



Monaco Commercial Reels PRICES DO NOT INCLUDE SMARTGEAR

Product Code	Reel Size Feet	Reel Size Metres	Floor/Wall Mounted	Mobile	Electric (Not Mobile)
E Small	up to 16'	upto 4.88m	£1,565	£2,363	£5,429
E Medium	up to 22'	upto 6.71m	£1,733	£2,468	£5,670
E Large	up to 28'	upto 8.54m	£1,869	£2,594	£5,912
E Ex Large	up to 32'	upto 9.75m	£1,990	£2,709	POA

Domestic/Commercial Fixing Options

(No price difference for different fixings)



Floor



Wall (long)



Wall (short)

Commercial SmartGear



Product Code	Description	Price
E	3 to 1 reduction gearbox	£956.00

Carriage Group 6



Other Pool Covers

Looking for an alternative cover for your pool?

We offer a wide range of covers which have individual benefits such as high heat retention, peace of mind safety features and alternatives to winter debris covers.

Introducing Coverseal

This “next generation” cover is different from any existing product in a number of ways:

Coverseal’s unique flexible cover stays tensioned at all times

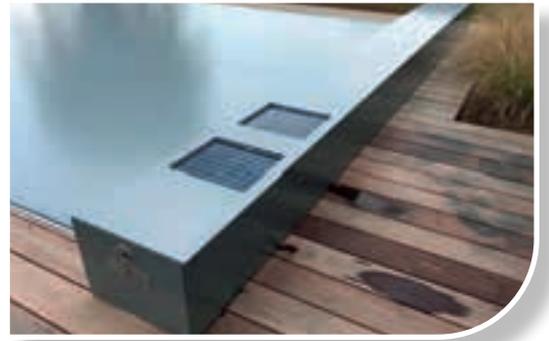
In its choice of material: the cover uses a reinforced PVC membrane which is dimensionally stable and tear resistant. This membrane is designed to withstand various forms of attack such as UV rays and pollution.

The cover is securely tensioned above the water line, meaning that there is no contact between the water and the membrane. Once sealed, this tension keeps the water safe, clean and insulated all year round. A number of small holes in the middle of the cover are used to remove water.

The cover is sealed automatically with the use of an unobtrusive, ultra-flat slider rail, which guides and seals the cover as it gradually glides over the pool.

A protective seal keeps it closed so that no plants or other debris or dirt can get in.

Available in various colour options.....



Please contact the Aquaflex team for any quotations...



Thermo - Blanket

“A thermal cover which will not absorb water”

Available in eight different colours, the Thermo-blanket pool and spa cover incorporates a 6mm closed cell cross-linked polyethylene foam sheet for ensuring high insulation properties, making it ideal for domestic pools, swim spas or hydrotherapy pools.

Thermo-blanket can withstand temperatures from $-30 / +70^{\circ}\text{C}$. and is suitable for use on both outdoor & indoor pools. Research has shown that an uncovered pool can lose as much as 5°C heat in a five hour period. Installing a Thermo-blanket can reduce heat loss in the same period to as little as 0.65°C . It is widely accepted that a heat retention cover is the single most effective means of reducing swimming pool energy consumption. They can also reduce water treatment costs by reducing chemical evaporation and reduce humidity and condensation in an indoor environment. Unlike, foam type heat retention covers, the Thermo-blanket does not absorb water.

The cover can be supplied in one-piece for roller mechanisms or in hemmed sections for free-form shaped pools.



- Welded in one metre increments
- Weight 1.33kg per SQM
- Available in eight different colours
- Available in sections for free-form pools
- Suitable for domestic and commercial applications
- Will not absorb water!!!



Foam Heat Retention Covers

Foam heat retention covers are the perfect choice for keeping the heat in the pool and reducing fuel bills. The covers are available in blue only and are suitable for domestic and commercial swimming pools, as well as being ideal for spas and hot tubs.

Foam covers are supplied in two different grades, 5mm (approx. weight 425gm per square metre) and 8mm (approx. weight 500gm per square metre) and are manufactured from heavy duty closed cell polyethylene. They are heat welded on all seams both top and bottom, and can be finished with a top and bottom welded edge or with sewn hemmed edges, although this is not possible on complex shapes and tight corners.

During manufacture the heat welding process may cause slight undulation, this is quite normal and will not affect the life expectancy or performance of the cover. Due to the nature of the material, manufacturing creases may occur. Packing folds may also cause creasing; we try to minimise this by rolling covers rather than folding them.

Prices on application.

IMPORTANT NOTES

Covers are made approximately 10mm smaller than the pool.

Covers should not be used in pools run at temperatures above 44°C (110°F)

Carriage – price on application.



Please call
the Aquaflex
team for a
quotation

Call Aquaflex today **Tel:+44 (0)1722 328873**

Aquaflex Slatted Safety Cover

The Aquaflex range of slatted safety covers offers a solution for every situation you are likely to encounter with a swimming pool. Using a unique combination of aluminium, stainless steel, PVC and polycarbonate; Aquaflex has it covered. There are four principal members of the Aquaflex range: **The Manual**, **The Neo**, **The Classic** and **The Solar 2**. Other options such as bench systems and inground models are available for all sorts of scenarios - speak to our sales team for more information.



The Manual

- Removable hand-wheel for manoeuvring the cover
- Adjustable feet to cope with uneven paving or copings
- A motorisation kit is available
- Maximum pool size: 5m x 10m



The Neo

- Reduces evaporation and helps to keep the pool water in balance, reducing heating and chemical costs
- Discreet and aesthetic. Fits easily on most existing or new pools
- Perfectly adjustable. Height adjustable legs prevent friction on pool edges
- Equipped with travel stops
- Declutchable motor
- Maximum pool size 5m x 10m



The Classic

- Option for bench housing as a retrofit
- Ideal for pools where space is tight
- Adjustable feet to cope with uneven paving or copings
- Equipped with travel stops
- Maximum pool size: 7.5m x 15m



The Solar 2

- New design incorporates a smaller, ingeniously curved stand which has a smaller footprint giving easy installation and making it ideal for placing upon narrow copings.
- Can perform up to 40 cycles (for a 4m x 8m model) in the event of total darkness, whilst leaving enough for a safety cycle. 8 hours of sunlight are enough to fully charge the batteries
- Takes up little space on the pool deck
- Perfectly adjustable. Height-adjustable legs prevent friction on pool edges
- Equipped with travel stops
- Maximum pool size 6m x 12m

Aquaflex Slatted Safety Cover

Reliable:

- Complies with NF P90-308
- Quick and easy to install

Economical:

- Less evaporation
- Reduces heating costs and extends the swimming season
- Cleaner water and reduced chemical usage

Practical:

- Simple to use: one turn of the key and in 3 minutes the cover is rolled up or unrolled



For prices
please contact
the sales
office

Aquaflex slatted cover features:

Slats

- Slats are wider than most other covers - 83mm wide
- Wider slats are easier to clean
- The slats click together easily
- End caps are RF welded for improved seal
- Standard caps are 20mm and are easily removed
- Other caps in 10mm, 15mm, 25mm or 30mm are available to overcome differences in pool width
- 5 standard colours: white, blue, sand, grey, solar blue and marbled

Other Features

- Automatic stop at the end-of runs
- 24 volt motor (not for the Manual Cover)
- Separation wall unit to create separate pit area, for retro fit covers in existing pools
- Rolling wheel on 1st slat
- Sturdy heavy-duty crating for transportation
- Anti corrosion components



Optional Wings:

- A unique and ingenious hinged design, enables odd shaped covers to roll and unroll easily.
- Fits onto new and existing pool covers
- The part of the pool covered by the hinged wing section can be rectangular, roman-end curved or free-form
- Maximum size for the section covered by the hinged wing is 2m x 1m

Guarantees:

- Slats: 3 years
- Solar Panel: 10 years
- Mechanics: 3 years
- Batteries: 6 months
- Motor: 1 year

Aquaflex Bar Cover



Easy to Use

The cover is rolled up manually using the supplied crank or effortlessly using the ROLLTROT² motor. Average operating time: unrolling = 2 mins/ rolling = 3 mins.

Quick & Easy Securing

The standard model requires only 4 stainless steel ratchets to roll or unroll the cover.

Extended Life

Thanks to 2 interchangeable anti-abrasion strips located under the cover in line with the coping stones and composite protective pads riveted under the bars.

High Quality Finish

Reinforced hem welded along the long sides.

On-tube Tension System

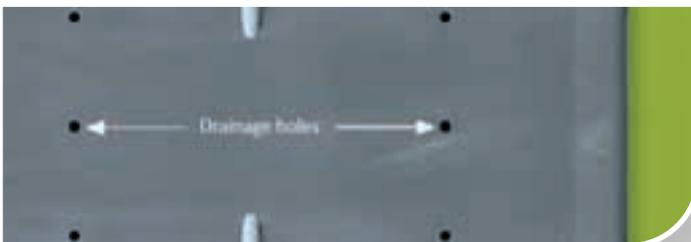
Obtains perfect tension of the cover

Leaf-Proof and Anti-Lifting System along the long sides

The exclusive tension system has flaps along the long sides. This completely protects your pool in summer or winter keeping dust, leaves and other impurities out of the pool.

Economical Solution

The Aquaflex bar cover reduces evaporation from the pool. This improves the heating and chemical efficiency, reducing costs significantly. It also helps to maintain cleaner, more inviting pool water.



OPTIONS	
• ROLLTROT ² motor	• Eyebolt/sheath
• Wooden deck stud	

IDENTITY CARD	
Labels	Soft PVC reinforced with a polyester web
Weight	Fabric = 200 g/m ² approximately Cover = 2.2 kg/m ²
Tearing strength	2,500 N/5 cm (vertical) and 1,800 N/5 cm (width)
Rear strength	250 N (loop and web strength)
Treatment	Anti-UV, anti-mould and anti-bacterial
Tube	2.2 m, 40 and 50 mm reinforced aluminium
Dead leg	20 cm around the edge of the pool

COLOURS	

DELIVERED WITH	
• Stainless steel ratchets	
• Eyebolts	
• Reinforced down geared crank	

For prices
 please contact
 the sales
 office

Winter Covers

Our winter debris covers are made from tough polypropylene mesh which offers the perfect solution for keeping leaves and other debris out of pool during the winter. Available in three different styles with alternative fixing methods, our covers can be tailored to suit almost any pool.

Aquaflex Winter Covers

Aquaflex Winter Debris Covers

Winter protection is vital for any pool. The Aquaflex winter debris cover offers the perfect solution to keeping leaves and other unwanted items out of the pool whilst shielding the pool water/liner etc, from what even in the winter can be damaging UV rays from the sun.

Made from specially formulated, durable polypropylene, this tight mesh allows rainwater to pass through but keeps the pool water crystal clear. There are two types of debris cover available from Aquaflex;

The Emperor and the Sovereign, both of which are supplied with a storage bag and a five year pro rata guarantee.

All covers can be manufactured to accommodate ladders etc. intruding into the pool as well as step sections outside the pool. All varieties of shape and size can be supplied. All rectangular covers are made 1' 0" (0.30m) larger than the pool all round (i.e. add 2' 0" (0.60m) to the width and length of the pool to calculate the cover size.

“Winter protection is vital for any pool”



Photograph supplied by Cresta Leisure



Photograph supplied by Aquastyle Pools Ltd



Image Courtesy of Swimming Pool Midlands

Aquaflex Winter Covers

Options

Emperor Debris Cover

The Emperor is anchored using stainless steel, spring assisted “P” anchors and is also available with criss-cross reinforcing straps between all anchor points. Additional protection from abrasion is provided by the anti-chafing strips on all straps and large square reinforcing panels on all corners. The standard interval between straps is 4’ to 5’. Closer spacings (usually 3’) as well as continuous anti-chafing panels around the perimeter of the cover, are available as optional extras.



Sovereign Debris Cover

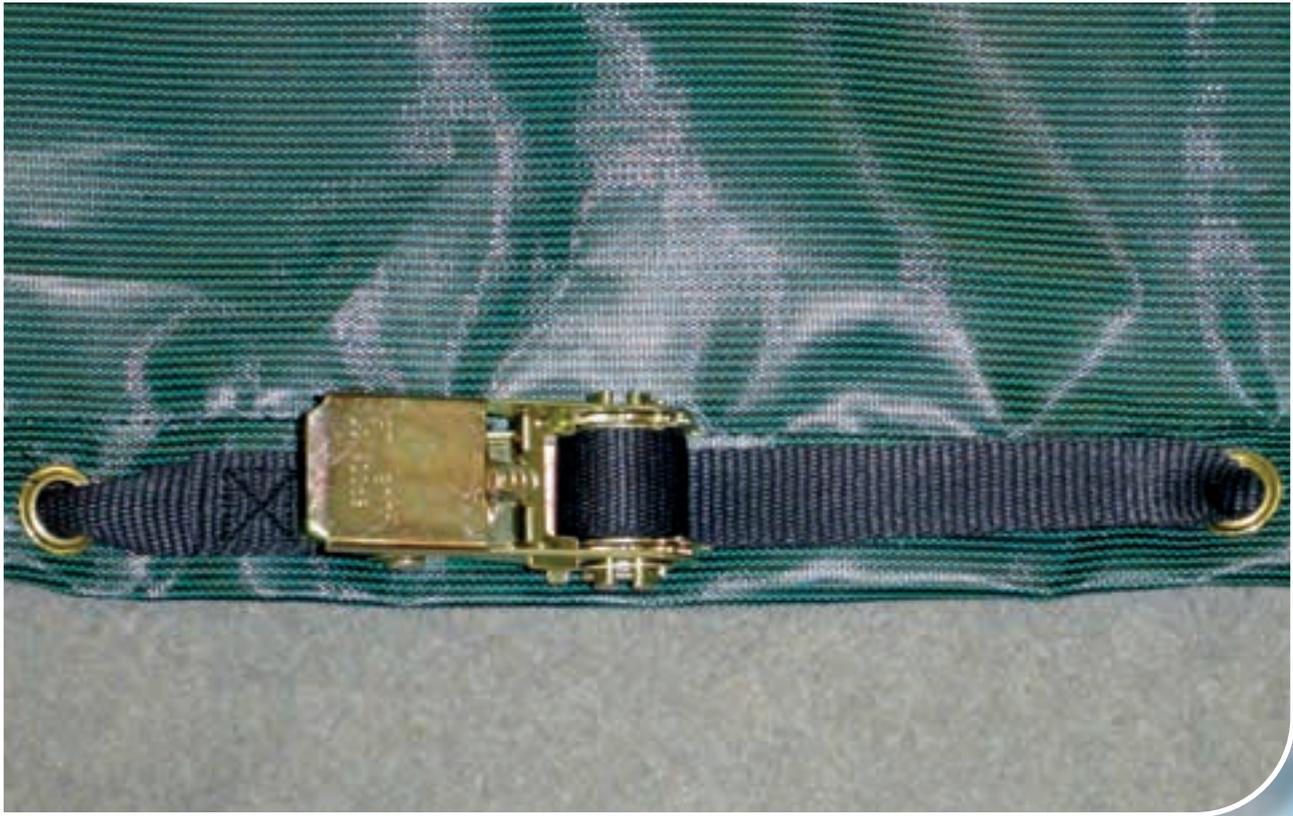
The Sovereign is anchored using rubber tensioners and “P” anchors. These tensioners are connected to the cover by eyelets spaced at 4’ to 5’ intervals around the perimeter. Each eyelet point is protected by an anti chaffing strip.



Criss Cross Winter Cover

You can have either of the above options criss-crossed. Picture showing the underside of a Criss Cross cover

Aquaflex Winter Covers



Winter Covers for Above Ground Pools

Aquaflex offers overall winter protection for above ground pools with circular or oval covers made from either green debris material (same as for the Emperor and Sovereign covers above) or silver reflective polyethylene which gives a complete seal to the pool. The covers are fixed using a web and ratchet system as illustrated. All sizes of above ground pool can be covered cost effectively and efficiently.

Please note that should you have a pool that is out of the ordinary, please forward pictures and sizes to Aquaflex and we will try and resolve the problem

Fixing Solutions

Brass Flush Fixings We now offer Brass Flush Fixings as an alternative solution to securing Winter Covers.



Fixing for concrete (Sold as set or separately)
20mm drill bit required'

Fixing for decking
(Spring sold separately)

Lawn Stake & Spring
(Sold separately)

Aquaflex Winter Covers

Imperial Dimensions Product Code	Emperor G	Sovereign G	Criss Cross G
With Standard Fixings (Spring Anchors)			
Standard Spacing: (4'-5')	£1.684	£1.448	£1.960
Wide Spacing: (5'-6')	£1.577	£1.374	£1.854
Close Spacing: (3'-4')	£1.970	£1.667	£2.247
With Brass Flush Concrete Fixings			
Standard Spacing: (4'-5')	£1.818	£1.564	£2.117
Wide Spacing: (5'-6')	£1.703	£1.484	£2.002
Close Spacing: (3'-4')	£2.128	£1.801	£2.426
With Brass Flush Deck Fixings			
Standard Spacing: (4'-5')	£1.869	£1.607	£2.176
Wide Spacing: (5'-6')	£1.751	£1.526	£2.058
Close Spacing: (3'-4')	£2.187	£1.851	£2.494
Without Fixings			
Standard Spacing: (4'-5')	£1.263	£1.263	£1.539
Wide Spacing: (5'-6')	£1.155	£1.155	£1.431
Close Spacing: (3'-4')	£1.548	£1.482	£1.825
Covers With Lawnstakes (either with Elastic Fixings or Spring Anchors) - Use the above price tables and add 5% all prices are per square foot of cover - cover dimensions are 2'0" bigger than for the pool			

Metric Dimensions Product Code	Emperor G	Sovereign G	Criss Cross G
With Standard Fixings (Spring Anchors)			
Standard Spacing: (1.22m-1.52m)	£18.125	£15.586	£21.100
Wide Spacing: (1.22m - 1.83m)	£16.978	£14.794	£19.953
Close Spacing: (0.91m - 1.22m)	£21.209	£17.947	£24.184
With Brass Flush Concrete Fixings			
Standard Spacing: (1.22m-1.52m)	£19.575	£16.833	£22.788
Wide Spacing: (1.22m - 1.83m)	£18.336	£15.978	£21.550
Close Spacing: (0.91m - 1.22m)	£22.906	£19.383	£26.119
With Brass Flush Deck Fixings			
Standard Spacing: (1.22m-1.52m)	£20.118	£17.330	£23.421
Wide Spacing: (1.22m - 1.83m)	£18.846	£16.422	£22.148
Close Spacing: (0.91m - 1.22m)	£23.542	£19.921	£26.845
Without Fixings			
Standard Spacing: (1.22m-1.52m)	£13.593	£13.593	£16.569
Wide Spacing: (1.22m - 1.83m)	£12.433	£12.433	£15.409
Close Spacing: (0.91m - 1.22m)	£16.664	£15.955	£19.639
Covers With Lawnstakes (either with Elastic Fixings or Spring Anchors) - Use the above price tables and add 5% all prices are per square metre of cover - cover dimensions are 0.60m bigger than for the pool			

Carriage Group 4

Aquaflex Winter Covers

Optional Extras and Spare Parts			
G	Extra for Anti-Chafing strip all round	£2.803/£9.196	per linear foot/metre
G	Optional Stainless steel buckles on all straps	£0.98	per buckle
G	Extra for Brass pop up flush fixings	cover price plus 6%	
G	Extra for freeform shaping (see note below)	£0.274/£2.952	per square foot/metre
G	Ladder Cut out	£104.20	each
G	Roman End (on one end)	Price as for inclusive rectangle	
G	Roman End (on side of pool):		
G		up to 65sq.ft. (6.04m ²)	£171.35 each
G		up to 110sq ft. (10.22m ²)	£276.17 each
		Above 110 sq.ft.	POA
E	Spring Anchor Complete with "P" Pin (Emperor cover only)	£5.59	each
E	"P" Pin (Sovereign cover only)	£3.13	each
E	Rubber Tensioners (Sovereign cover only)	£1.36	each
C	Brass Pop Up set (spring plus anchor) (for concrete)	£5.72	each
C	Brass Pop Up (only) (for concrete)	£2.21	each
C	Round Headed Spring for Brass Pop Up or Lawn Stake	£3.57	each
C	Brass Fixing set for Deck Anchoring (spring plus anchor)	£6.21	each
C	Brass Fixing for Deck Anchoring (only)	£2.73	each
C	Spring for Deck Anchor (only)	£3.57	each
C	Lawn Stake (use with rubber Tensioners or Round Headed springs for fixing into lawns)	£4.18	each
	Extra for small covers (less than 300 sq.ft.)	15%	
G	Inspection fee for returned covers: should the repair work be carried out this cost would be deducted from the eventual fee charged.	£100.00	+ carriage

Please ring prior to returning winter covers for alteration so we can get the necessary paperwork ready etc.
 Nb: Should we arrange collection a carriage cost will be incurred.

Carriage Group 4

Please note:

Roman Ends will be shaped as a rectangle unless otherwise stated

Freeform covers will be shaped 1'3" (0.38m) bigger than the pool dimensions all round, unless otherwise requested.

We would generally advise against using old covers as templates for the manufacture of new covers as they have often been distorted after many years on the pool and cannot be relied upon for accuracy, concerning the dimensions and strap positions for the new cover. We would recommend remeasuring the pool for greater accuracy.

Aquaflex Winter Covers

All Aquaflex winter covers for above ground pools are fixed using our simple to use ratchet system.

Circulars

Product Code	Pool Size Diameter	Silver Polyethylene	Green Debris
C	9'	£88.50	£183.46
C	12'	£102.74	£270.27
C	15'	£140.08	£372.74
C	16'	£157.20	£404.84
C	18'	£197.22	£490.87
C	21'	£257.67	£628.35
C	24'	£324.92	£777.81
C	36'	£554.94	£1,532.23

The sizes given are the nominal pool sizes. The covers are made about 1' 4" (0.41m) bigger all round to allow enough overhang. Prices are exclusive of VAT and Carriage.

Ovals

Product Code	Pool Size	Silver Polyethylene	Green Debris
C	10 x 15	£110.37	£314.63
C	10 x 16	£113.26	£325.18
C	10 x 20	£154.52	£367.37
C	12 x 20	£173.08	£429.88
C	12 x 24	£190.83	£479.03
C	13 x 26	£226.72	£548.39
C	14 x 28	£244.46	£604.62
C	12 x 30	£249.21	£585.98
C	15 x 30	£265.92	£684.62
C	16 x 32	£294.79	£747.81
C	18 x 33	£337.29	£855.33

Easibag Covers

For complete protection, coupled with low cost, the Aquaflex Easibag cover is the answer. It completely seals off the pool for the winter so that light is prevented from entering the pool and causing algae growth. Debris and water which build up on top of the cover need to be removed in the Spring before removing the cover.

In order to make it easier to remove the cover in the Spring, an optional mesh drain is supplied. If desired, the polyethylene covering the mesh can easily be cut away with scissors.

Unless otherwise requested, all Easibag covers are made 2' (0.61m) bigger all round than the pool. This means that the cover will be 4' (1.22m) wider and longer than the pool itself.

Product Code	Pool Size	Cover Size	Price
C Easibag Cover (With Waterbags)	12' x 24'	16' x 28'	£569
C Easibag Cover (With Waterbags)	14' x 28'	18' x 32'	£730
C Easibag Cover (With Waterbags)	15' x 30'	19' x 34'	£819
C Easibag Cover (With Waterbags)	16' x 32'	20' x 36'	£914
C Easibag Cover (With Waterbags)	18' x 36'	22' x 40'	£1,117
C Easibag Cover (With Waterbags)	20' x 40'	24' x 44'	£1,339
C Other rectangular covers (including Waterbags) per sq.ft.			£1.28
C Other rectangular covers (without Waterbags) per sq.ft.			£0.96
C Non-rectangular covers per square ft.			£1.45
C Extra Waterbags (pack of ten)			£140.21

Carriage Group 4

Please contact the office for up to date samples

Contractors Covers, Easitanks & Water Containment

We also produce a range of other products:

- Liners and covers for water storage tanks which are used for agricultural and humanitarian purposes across the world.
- Easitanks used for temporary water storage.
- Contractor covers providing shelter during adverse weather conditions.

Contractor's Cover and Easitanks

PROBLEMS RESOLVED

Don't let the weather get the better of you and lose valuable time on site.

Contractors' Cover

All Weather Contractors' Cover offers the perfect solution. Designed to be easily erected and taken down, the cover comes with its own fan unit and quick to fill water tube system. Once in position the Contractors' Cover enables you to carry out tasks such as tiling, rendering and liner fitting in a dry, wind free environment, as well as offering the possibility of raising the temperature (vital for liner fitting to name but one example) by means of a Propane heater or similar. Just consider the number of working days you lose each year because of bad weather.

Then consider how quickly an Aquaflex All Weather Contractors' Cover would pay for itself when it solves the weather problem for you! The Contractors' Cover comes in one standard size which will enable you to work on all pools up to and including 20' x 40', (which covers most domestic pools). Three standard sizes are available.

All Weather Contractors' Cover (complete with fan)

Product Code	Size of cover	Will suit pool size	Structure Only	Structure with Fan
E	18' x 34'	Up to 16' x 32'	£2,858	£3,657
E	22' x 42'	Up to 20' x 40'	£3,488	£4,288
E	22' x 48'	Up to 20' x 40'+ Roman End	£3,741	£4,541

Carriage as for Aquaflex Air Structures - see page 2

Easitanks

The Easitank is the perfect answer to the problem of temporary water storage on site and is an essential part of any pool companies equipment. The Easitank utilises robust, polyester reinforced, spread coated PVC, and is supported by an integral, foam filled collar of the same material to give fast and adaptable water storage. Pool professionals who regularly use the Easitank calculate that the investment is very quickly recouped due to the significant time savings on site, as well as saving thousands of gallons of water which is becoming a more and more expensive commodity.

Every site is different, with varying amounts of free space, so the Easitank is available in three sizes:

The 'Spa' Easitank

- is the baby of the family, holding about 450 gallons (approx 2000 ltrs) and able to fit into smaller spaces, being only 2m in diameter,

The 'Standard' Easitank

- holds about 3,000 gallons (approx 13000 ltrs) and measures approximately 4.25m across,

The 'Large' Easitank

- is roughly 5.5m in diameter and holds in the region of 5,000 gallons (approx 22000 ltrs) of water.



Product Code	Description	Price
E	"Spa" Easitank 2.00m diameter	£190.00
E	"Standard" Easitank 4.25m diameter	£677.00
E	"Large" Easitank 5.50m diameter	£1034.00

"Spa" and "Standard Easitanks" are Carriage Group 4

"Large Easitanks" are Carriage Group 3

Call Aquaflex today **Tel:+44 (0)1722 328873**

Slurry and Water Containment

Tank Liners and Covers

Aquaflex manufactures a range of liners and covers for irrigation tanks, mainly for use in nurseries and garden centres, but also used for disaster relief around the world as a means of temporary water storage. Standard liners are black and come in 0.750mm (0.030") thick material which offers a 10 year guarantee.

There is an option for a "shaded strip" liner which has a double thickness of material at and above the water line.

As with Aquaflex's swimming pool liners the highest quality vinyl is used. Standard sizes are usually available from stock and range from 6' 0" (1.83m) diameter up to 36' 0" (10.97m) diameter with depths varying from 2' 6" (0.76m) to 10' 0" (3.05m).

An opaque cover is important for water storage tanks, to keep out the light and thus inhibit algae growth. Each cover is made from polyester reinforced vinyl and comes complete with its own fixing kit. As an optional extra an inspection/ball valve hatch is available.

On-Site &
Pre-Tailored
System using
Flexible Membranes
20 Year Life
Expectancy



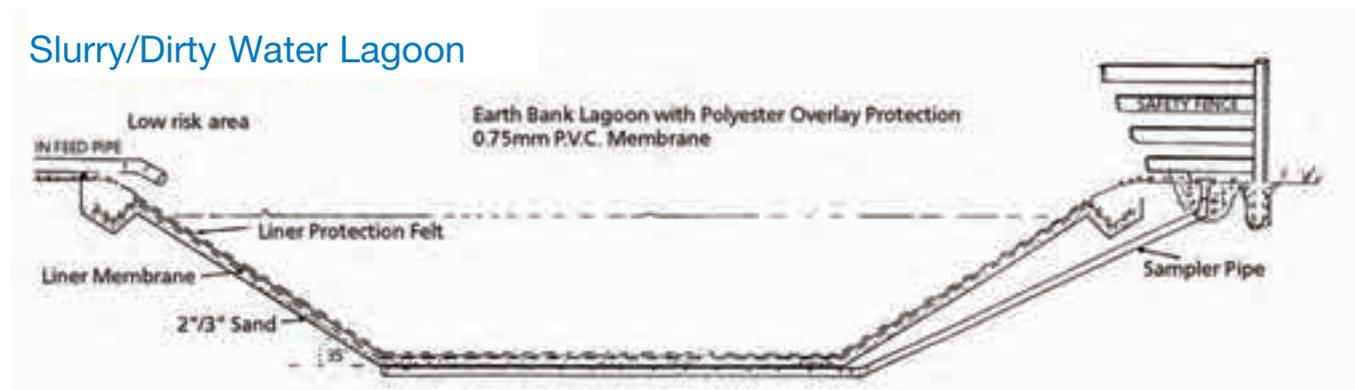
Slurry and dirty water storage lagoons

For much larger quantities of water storage and for more specialised systems of dealing with slurry and dirty water containment, Aquaflex's long experience of site fabrication comes into its own. Using our specially formulated 0.750mm black vinyl which is UV stabilised and specifically designed to resist root penetration, we provide a superior on site solution for containing vast quantities of slurry and dirty water. Unlike liquid containment in free standing tanks there is no limit to the size of lagoon that can be accommodated.

Using this system Aquaflex offers cost effective solutions to pollution control whilst conforming to ministry guidelines. Performance is unaffected by ground movement and the membrane is easily repaired if physically damaged. Aquaflex's expertise ensures fast installation and can accommodate complex designs.

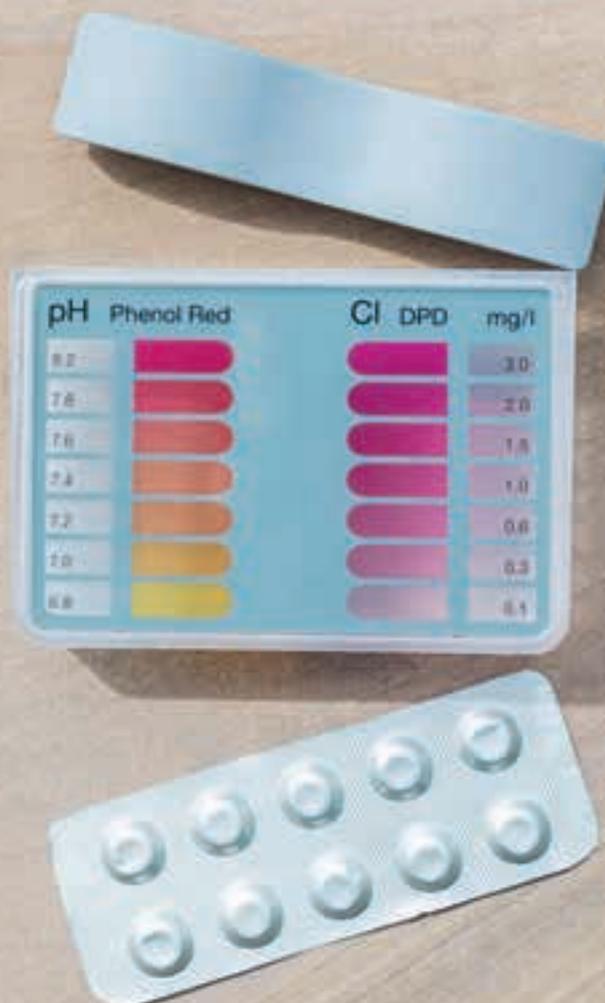


Slurry/Dirty Water Lagoon



Technical Information

We pride ourselves on offering a high level of customer service when it comes to answering questions and giving guidance. This section covers several topics which are frequently asked questions. If you don't find what you are looking for, please don't hesitate to contact us.



Swimming Pool Liners

There are two methods of waterproofing a swimming pool using a PVC lining membrane. The most common method in a domestic situation employs either 0.500mm or 0.750mm thick unreinforced material which is prefabricated to the profile of the pool shell. Commercial or semi commercial pools often require greater durability and use 1.5mm thick fabric reinforced materials which have to be fabricated into the pool shell on site. It is important to note that if there are cost restraints it is still a viable proposition to install an unreinforced prefabricated pool liner into a semi commercial situation such as a school pool or a small holiday camp provided the site conditions are suitable and ongoing water management is of a good standard.

Prefabricated Liners

While guarantees on prefabricated liners vary from manufacturer to manufacturer their life expectancy is generally in the region of 7 to 10 years provided that the swimming pool is operated within standard care and maintenance schedules. The lifespan of a 0.750mm liner is not directly proportional to the lifespan of a 0.500mm liner. Given the theoretical situation where two liners, one 0.500mm and one 0.750mm are installed in identical swimming pools and treated throughout their lives identically in every way, then it can be assumed that if the 0.500mm liner lasts 10 years then the 0.750mm liner is likely to last for 2 years longer.

Prefabricated liners are made undersize to allow for a crease free stretch fit. This stretch fit causes the liner to stand away slightly from the pool walls in the corners of rectangular pools, especially near the water surface and above. It is impossible to damage the liner in these areas without using a sharp instrument as the liner material has a stretch factor of approximately 250%. Due to undersizing, liner walls can sometimes run into the floor area. It is therefore important that the pool owner is made aware of this possibility.

As a result of this high stretch factor, it is not possible, during manufacture, to align the pattern between the strips of material that make up the liner. It is important to bear this in mind, particularly when ordering liners with a regular pattern. Similarly, great care must be taken when ordering a liner with a different colour base from the side wall for a pool where the wall to floor join is uneven as the resulting "wandering join" will be unsightly.

Storage of Liners

It is advisable not to store boxed folded liners for long periods of time but if long term storage is unavoidable, the following guidelines should be adhered to:-

1. Store in a cool, dark location away from rodents (mice or rats). Ideal temperature 70°F (21°C) or below.
2. Do not unfold liners that have been in long term storage in temperatures below 70°F (21°C). If the liner has been stored at temperatures lower than 70°F (21°C), place the liner in a room with a temperature of 70°F (21°C) for at least 72 hours prior to unfolding.

Failure to adhere to the above procedures can in rare circumstances result in stress cracking along the folds within the packed liner.



Technical Information

Reinforced Site Liners

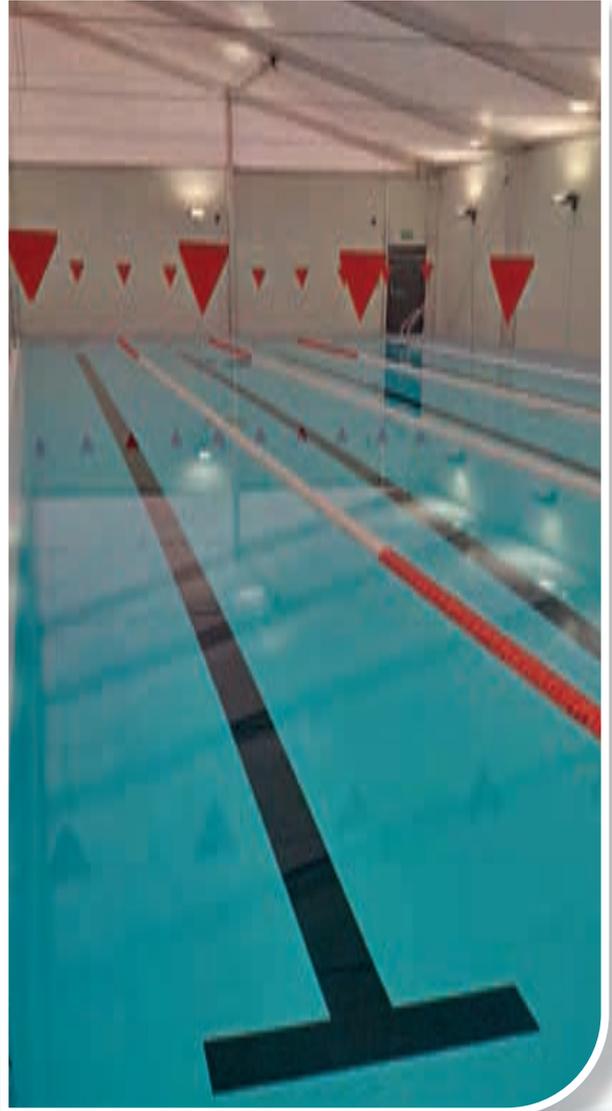
The life expectancy of 1.5mm reinforced liners is in excess of 15 years provided that the swimming pool is operated within standard care and maintenance schedules although it must be noted that any printed pattern on the surface of the reinforced liner may wear away somewhat earlier dependant on liner cleaning methods and or chemicals used in the pool water. Installation of this type of lining membrane involves fabrication of the lining actually within the pool shell typically using hot air welding equipment.

As the material contains a fabric reinforcement, it will not stretch or distort and therefore does not rely on the pool water pressure to keep it in place.

PVC Liner material composition and manufacture



Images Courtesy of Astral



PVC liner material consists of two main ingredients:-

1. Polymer (the basic structural material).
2. Plasticiser (giving the material its flexibility).

It is the difference in ratio between these two ingredients that raises or lowers the flexibility of the material. For example, UPVC windows have no plasticiser and are rigid. Pool liner material, however, contains a large proportion of plasticiser giving it a high degree of flexibility.

There are a number of other specialist additives in pool liner material such as pigments, bacteriostats and fungicides. UV additives give protection from ultra violet light. Patterned liners have acrylic lacquers to protect the printed surface of the liner. This acrylic lacquer takes the form of a thin layer baked on to the surface of the material and acts as an extra protective layer against UV light, chemical attack and minor abrasion.

Measuring the Pool

Apart from free form and kidney shaped pools, all pools can be measured using the Aquaflex order form. As well as providing essential information for us, the manufacturer, it is invaluable as a checklist for whoever is measuring the pool. Copies of the order forms are available from Aquaflex upon request or photocopies can be used.

It is easy to arrive on site without a vital piece of measuring equipment so a checklist of essential equipment is a good idea. Such a list would include: tape measure, pencil, paper, chalk and/or wax crayon, long spirit level, stringline and plumb-line. It is sometimes possible to measure a pool while it is still full of water. However, Aquaflex always recommend that the pool is drained and the old liner removed. Measuring a pool is easier with two people, but it is quite possible for one person to carry out the operation. There are various ways of fixing the tape measure in place, one method is by using cable clips. The following sequence is recommended for all rectangular pools.

Rectangular Pool

1. All measurements unless otherwise specified must be horizontal or vertical, not sloping.
2. Measure the length of the pool along each side. Where corners are rounded or mitred, measure to the theoretical square corner i.e.: where the side and end wall lines would intersect. Make sure that the length is the same at the top and bottom of the wall (either by measuring or using a spirit level).
3. Measure the width of the pool.
4. Check the diagonals (corner to corner).
5. Mark out the "changeover" points using chalk or wax crayon. It may be beneficial to extend these up the sidewall using spirit level or plumb-line.
6. When measuring a hopper base do not assume that it is square or indeed central in the pool.
7. Measure sidewall depths at several points from the pool floor up to the mouth of the linerlock (or top of wall if overlap).
8. Measure the maximum depth by pulling a stringline taugt across the pool and draping the tape measure over it. Take care not to allow the string to sag and remember to deduct the coping to linerlock dimension.
9. When completing the order form make sure that all the dimensions tally, e.g.: $G+H+J+K$ must equal B (the total length). If there is a discrepancy, it must be resolved before the order can be processed.
10. Does the pool have radius corners? If so, what radius? Or are the corners square or mitred?
11. Is there a base to sidewall radius or cove? If so what radius?
12. Do the sidewalls lean out (or in)? If so, by how much?
13. Is the liner to be fixed by beading into linerlock or by overlap?
14. Use the order form as a checking mechanism to ensure that no details (dimensions, fixing, colour and thickness of material, corner profiles etc.) are omitted.
15. Be consistent and clear with measurements, i.e.: do not mix metric and imperial measurements, do not provide some measurements in feet and inches (3'4") and some other in whole inches (34").
16. Do all the above before leaving site.



Technical Information

Kidney Pool Measuring

The following method requires the pool to be empty with the old liner (if applicable) taken out. You would then need to get into the pool to perform the measuring.

Plotting the perimeter

1. Pick two points at random, at opposite ends of the pool. Call one A and the other B. Mark these points with chalk or wax crayon. Measure and record the distance in a straight line between A and B.
2. Divide the pool perimeter at approximately 2' intervals. The intervals are not important and don't need to be consistent. Around tighter curves the points need to be closer together than around longer curves. Mark these points with chalk or wax crayon and number them.

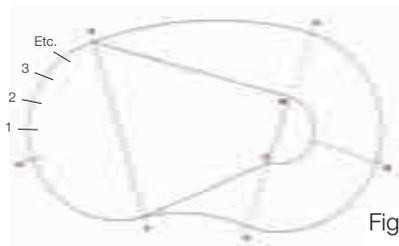


Fig. 4

3. Measure in horizontal straight lines from A to each of the points around the perimeter. Note all measurements A1, A2, A3 etc.
4. Measure in horizontal straight lines from B to each of the points around the perimeter. Note all measurements B1, B2, B3 etc.
5. Some points may not be accessible from one side of the reference points. For example, in the diagram shown, some points may not be accessible from B these could be measured from a third reference point such as V. In which case note all measurement V11, V12, V13 etc.
6. You will now have two or three columns of measurements from which a scale drawing of the pool perimeter can be drawn.

	A	B
1	850	11650
2	1540	11390
3	2100	10990
4	2460	10650
5	2850	10090
6	3200	9890
7	3540	9640
	ETC	ETC

Internal dimensions

7. Locate points X and Y (the ends of the shallow end break-over line) on the perimeter – as defined by measurements from A & B. It is usually easiest to incorporate these points into your original numbered points (see 2 above). In the example shown in figure 4 you would make X the same as point 4 and Y the same as point 17. See figure 4.
8. Locate points W and Z and by extending the straight line that joins them, establish points U & V

on the perimeter. As with points X & Y above, it is best to incorporate these points onto your original numbered points (see 2 above). In the example shown in figure 4 you would make U the same as point 14 and V the same as point 7. Stand with your line of sight vertically above point U and look across the pool through points Z & W to V. Make sure they all line up in a continuous straight line (the dotted line on the drawing). Do the same exercise looking across from point V. See figure 4.

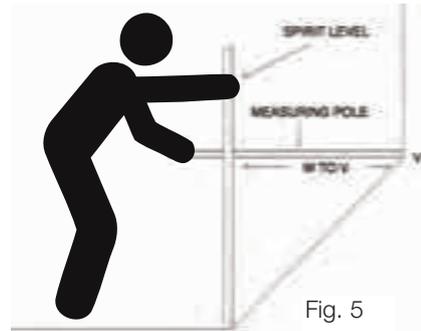


Fig. 5

9. Measure to U & V from points A & B.
10. Using a pole and a spirit level, measure the horizontal distance W to V – see figure 5. Using the same method measure from Z to U. In the same way, at various points around the deep end measure the horizontal distance from the curve R to the perimeter (e.g. using figure 6, at points 8, 9, 10, B etc round to U) – use as many or as few as necessary. If you're lucky these horizontal measurements will be the same indicating that the hopper radius and the deep end perimeter radius are concentric. If they are not equal then you will have provided enough measurements to construct a scale drawing.
11. Check sidewall depth at several places.
12. Check deep end depth in the normal way. Use the method outlined above (see 10 and figure 5) in reverse, i.e. have the spirit level horizontal and the measuring pole measuring the drop from the bottom of the side wall to the pool floor (or if easily done, measure the total depth from the linerlock to the floor in this way.)

Double checking

13. Take three double check measurements at random e.g.: 20-4, 13-5 etc.
14. Take care, if sidewalls lean out or in, to take measurements from the top and bottom of side panels.

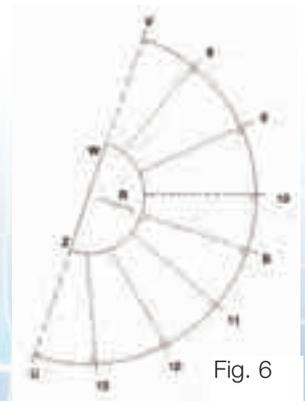


Fig. 6

Fitting Liners

Before fitting the liner:-

Check that the sizing, colour, pattern, gauge and specification of the liner is correct.

1. Make sure the interior finish of the pool shell is smooth and free from sharp projections.
2. Pressure test the pool pipework. Should there be a problem of leaking later, the pipework will have already been eliminated.
3. Make sure that any tapes used for joining underlay or for any other use where they are likely to come into contact with the liner, are compatible with PVC liner material. Some tapes, particularly those commonly known as "duck tape" or "gaffer tape" can stain or distort the liner.
4. Sweep out or vacuum the pool shell ensuring that it is clean and free of leaves, sharp objects and any other debris.
5. If the pool is indoors, check that no paint or varnish has accidentally splashed over the prepared screed as residual solvents in these materials can discolour the liner.
6. Wash the pool walls and floor with a 100ppm solution of Sodium Hypochlorite to kill any micro organisms that may be present in the pool shell. (These micro organisms can, if allowed to multiply, cause the liner to stain). Remove the deconcentrated washings of Sodium Hypochlorite from the pool.
7. If the temperature is below 10°C (50°F) we recommend that the fitting is postponed until warmer weather prevails. Conversely, do not attempt to fit the liner between 1100 hours and 1500 hours on hot, sunny days as the heat of the sun will cause the liner to stretch under its own weight. Further fitting difficulties will also be encountered as, inevitably, one section of the liner will be in shade and therefore be less supple than the areas in direct sunlight.
8. Ignore packing creases - they will disappear but this may take up to two weeks in cold weather.
9. Always leave the liner in its box when lifting into the pool, having first examined the box for signs of transport damage. If the box is damaged, check if the liner has also been damaged. Protect the liner from any sharp edges within the pool shell with felt or suitable masking tape.
10. Unroll and locate the deep end marker on the liner. This marker will indicate the deep end of the liner. Always remove this label and discard it. Failure to do so can cause a stain to appear through the liner several months later.

11. When fitting patterned liners take great care not to scuff the pattern with hard soled footwear. Try to fit liners in bare feet or at worst, wear soft soled plimsolls. Avoid the use of trainers as their soles are often quite hard.
12. Check all pool fittings have new gaskets - do not reuse old gaskets.
13. Tack small sections of the liner beading into the retaining linerlock fixed to the pool shell just below the coping stones. Find the four corners of the liner and fit a small section of beading either side of the pool corners. Then find the mid point along each side and each end and fit a small section of beading at these points. This method of fitting will:-
 - a) Lift the liner side wall clear of the base to allow you to see if the base of the liner is positioned correctly.
 - b) Have the effect of distributing the beading evenly around the pool.
 - c) If the liner has to be repositioned in the linerlock slightly, it makes it easier to adjust.When you are happy with the positioning of the base of the liner, push fit all the beading into the linerlock. Overlap liners can be adjusted as the pool fills with water, although care must be taken to ensure that the base of the liner is orientated correctly in the pool shell before any water is introduced.
14. Vacuum fit the liner by introducing an industrial vacuum cleaner hose between the pool shell and the liner, sealing all points of leakage with paper masking tape. This vacuum will pull the liner back towards the pool shell to enable you to ascertain if any wrinkles are likely to be held in the liner should the pool be filled with water.

If, under vacuum, the liner contains wrinkles that are unlikely to disappear, the liner either needs to be repositioned or it may be the wrong size or shape for the pool. Should this occur, immediately consult the manufacturer.

If you are not happy with the fit of the liner, do not proceed further and do not cut any fittings.
15. While filling the pool, do not turn the vacuum off until there is at least 3" of water over the base of the pool at its shallowest point. Always cut side wall fittings at the last possible moment, preferably when they are just beneath the water level as the pool fills. Early cutting of fittings can lead to creasing of the liner when the pool is full. When fitting the liner to Roman End step units ensure that the base to side wall joint of the liner is not positioned too far away from the shallow end wall of the pool.

Technical Information

Distortion of Liners

Because of their elasticity and moisture absorbency characteristics it is possible for liners to crease even when full of water.

Creasing caused by low co-efficient of friction (liner slip): stretching of a liner

Whilst heavy bathing loads, steep slopes, felt or foam underlay and high water temperatures can contribute to liner movement, the fundamental cause is almost certain to be an equalisation of water pressure inside and outside of the liner, i.e.: water trapped beneath the liner.

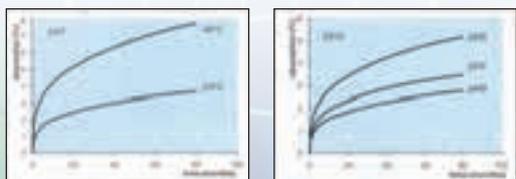
Should liner movement caused by foot traffic take place at any time during the life of the liner always initially look for water build up behind the liner as this is most likely to be the cause. It is essential that the shell of a liner pool is totally permeable and that the pool site is generally free draining. It is essential that a facility for de-watering the pool shell is incorporated into the pool structure at the build point. If this facility is provided, then high water table and clay sites for liner pools cease to be a problem. Should creases in the liner need to be removed, this can be accomplished by pouring boiling water over the area of liner that has been stretched by foot traffic (not the crease). This operation can only be carried out with water removed from the pool and a small amount of air introduced behind the liner to enable it to move back to its original unstretched form. It is recommended that the above procedure is carried out by a professional pool engineer and the pool water lowered by the minimum amount and for the shortest period of time.

Creasing caused by chemical imbalance: growing of a liner

Liner material is affected by its environment and absorbs moisture and water treatment chemicals. In normal swimming pool conditions, absorption will not exceed 5% of the original weight of the liner but with high temperatures and low pH, total absorption could reach much higher levels.

The huge weight of pool water that is standing on the liner ensures that it remains in place even though it has a tendency to grow. Only when the absorption levels within the liner have become so great that they exceed the water pressure will the liner move and start to crease or bubble.

Moisture absorption



Temperature and pH of the swimming pool water have a major effect on liner absorption. The two graphs show the

results of multiple measurements of the weight of samples of liner material that have been kept under different conditions and for different periods in swimming pool water containing 1-2ppm of chlorine, 30-50ppm of stabiliser.

The absorption will make the liner material want to swell. As long as the liner cannot slip on its support (and form creases) only its thickness will increase. An absorption up to 5% is normal and will not provoke any wrinkling. In order to avoid excessive absorption, pH should never be lower than 7.2 and temperature not above 32°C (91°F).

Causes of creasing:

Growth of material causes creasing: Water treatment conditions, (pH, temperature, pollution of water, level of water treatment chemicals) determine the level of absorption and thus the growth of the liner. This has a major influence on creasing.

Lower friction causes creasing: Concrete floors or those covered with a felt have a normal friction co-efficient while smooth surfaces such as metal or plastic wall panels, have a lower resistance to slip as a small film of water can easily build up between the liner and the panel.

Rigidity of liner causes creasing: High levels of chemicals and/or incorrect pH will make the liner less flexible. This raises the internal tensions and increases the risk of creasing.

Water trapped behind liner causes creasing: The amount of water that is pressing the liner against its support also has an influence on the risk of creasing; more important though is the amount of water present behind the liner as this not only compensates the pressure of the water inside the pool but also can decrease slip resistance of the liner.



If creasing has occurred mainly due to poor water treatment, then the distance between creases will be small (1cm to 15cm). However, when the pool shell has low resistance against slip or when there is a significant quantity of water trapped behind the liner, the distance between creases will be greater (more than 30cm).

With the foregoing facts in mind, it is possible to evaluate the cause of the wrinkling when inspecting a problem pool. Some typical examples:-

Technical Information

Discolouration of Liners:

Staining

Liners do not stain by themselves. There is always an outside agent causing the staining. Probably the most common form of liner staining is that caused by bacteria or micro organisms growing behind the liner. The gases given off by these bacteria/micro organisms (principally hydrogen sulphide and methane), permeate through the membrane and react with dissolved metals in the pool water (copper, iron) causing staining on the visible side of the liner.



a) **The liner has wrinkled and discoloured around the sump**

The distance between folds is quite small and the estimation of total growth of the liner gives a very high level of moisture and chemical absorption. This kind of wrinkling indicates that the material has been severely attacked by chemicals. When chemicals are thrown directly into the pool and are not correctly dispersed, they tend to concentrate on the deepest part of the pool which creates, locally, very high concentrations of chemicals. When slow dissolving tablets are placed in the skimmer, they continue dissolving even when the circulation pump is not working. If this situation continues over a long period, the chemicals will find their way through the pipe work and will enter the pool at the bottom outlet. This also creates high chemical levels in the deepest parts of the pool. Chemicals should always be thoroughly mixed with water in a bucket before being added to the pool water.

b) **There are creases on the floor and/or wall beneath skimmers, lights and water inlets**

In this case, estimation of liner growth gives a lower value than previously described but is still considerable. The distance between creases is also greater. In this instance, the liner has grown due to excessive chemicals (often accompanied by discolouration) or high temperature (no discolouration). However, this alone is not enough to cause wrinkling. It is likely that water has accumulated behind the liner. This has lowered the slip resistance of the liner against the pool shell which has allowed creases to form. The liner material on the walls resists creasing a little better as this material is stretched when put into the pool but with the liner on the floor growing and forming creases, the wall material has moved upwards which then creates folds beneath the skimmer and inlets. After the ground or trapped water has dissipated the creases will remain.

c) **There are randomly positioned creases all over the pool**

Flash flooding of the pool site can occur if there is inadequate site drainage. Water will temporarily build up behind the liner and cause it to lift. When the water dissipates it can leave the liner out of position with creases anywhere on the liner, especially beneath the pool fittings.



Fortunately, this type of staining is not permanent.

If the cause of the staining is removed, then the stains will gradually fade and eventually disappear. There are two ways of tackling the problem. One is to destroy the bacteria/micro organisms behind the liner with chlorine which means emptying or part emptying the pool in order to gain access to the areas in question. This is not always desirable. The other method is to remove the dissolved metals from the pool water so the gases permeating through the liner have nothing with which to react. This can be achieved by the use of Alkorplus 81059.

Anti Stain Alkorplus 81059

Alkorplus 81059 is a patented anti stain product that has been developed as a water treatment that offers a safe and simple method of reducing the presence of dissolved metals in swimming pool water.

The anti stain Alkorplus 81059 is a mineral dispersion with a 30% concentration. It is non toxic and is not an irritant. It should not be mixed with acids under any circumstances as, in its concentrated form; it will produce an inflammable and irritating gas. Metal or metal salts form ions when dissolved in water. Alkorplus 81059 neutralises various metal ions such as copper, lead, tin, cadmium and silver.

Alkorplus 81059 consists of small insoluble granules which are poured directly into the skimmer, forming an active layer within the filter. Dissolved metals are absorbed by the product and are subsequently removed from the water, together with the product, when cleaning or back flushing the filter. A new dose of the product must be added every time the filter is backwashed. Alkorplus 81059 is NOT compatible with sanitising treatments that are based on the presence of dissolved metals in the pool water such as copper sulphate and electrophysical systems.

Technical Information

Product dosage is determined by the amount of dissolved metals in the pool water. Sources are from corrosion inside the heat exchanger, impurities in other water treatment products or replacement of all or part of the pool water. Replacement tap water contains up to 0.2 ppm of copper.

The prescribed dose is:-

- a) 40ml (cap volume) of the product per 50 cubic metres of water per week during the swimming season.
- b) 80ml of the product per 50 cubic metres of water at the beginning of the season or after filling or topping up the pool.

As the product itself is removed when the filter is cleaned, it is important that Alkorplus 81059 is added after backwashing. To be totally effective, the entire volume of the pool water must be circulated through the filter regularly.

Outside of the swimming season, the anti stain treatment with Alkorplus 81059 is not necessary as the risk of newly dissolved metals appearing is minimal as long as other water treatment products do not contain impurities ("see note below"). It is strongly advised that chlorine tablets should not be placed in the skimmer outside of the swimming season or when the circulation pump is not operating as this would encourage concentrations of chlorine which will cause corrosion to the metal parts of the pump, heater and filtration equipment. This would add to the presence of dissolved metals in the pool water which might then cause staining of the membrane if the use of Alkorplus 81059 has been discontinued.

The presence of metal impurities in water treatment products may be easily tested as follows:-
 Pour 5ml of the water into a glass container (if the product to be tested is in solid form, dissolve 1gm into 5ml of water). Add three drops of the anti stain Alkorplus 81059, mix the solution for about 15 seconds and wait 10 minutes for a reaction. If heavy metals are present, the white Alkorplus 81059 will turn grey.

This test must be carried out in open air.

If the product being tested is very acidic (e.g. anti-lime products and certain scum line cleaners) an unpleasant smell may be released.

Note: Acid base cleaners are not recommended for cleaning around the water line of PVC pool liners.

Staining Caused by Tape

It is important to make sure that any tapes used for joining underlay or for any other use where they are likely to come into contact with the liner, are compatible with PVC liner material. Some tapes, particularly those commonly known as "duck tape" or "gaffer tape" can stain or distort the liner.

Interestingly, tape can also sometimes act as a barrier to staining. In the picture below the patches



of staining are broken up by straight lines of tape under the liner which are preventing or at least delaying the process of the hydrogen sulphide gas permeating the liner.

Similarly the welds of the liner can present a barrier to staining as they are essentially a double thickness of material. Another side to this phenomenon can be seen at the end of the process when the staining is receding – the welded areas retain the stain longer and remain the last sections to be free of staining.

Bleaching/Fading

The main cause of liner fading above the water line is UV light. Liner material contains additives which will resist UV degradation but they can only do so much. Slight fading will start to occur from day one as can be noticed if a patch of virgin material is applied six months after the liner was installed. After the first three or four years, the rate of fading can increase noticeably.

Liner material will take on a slightly paler appearance when it absorbs moisture below the water level. This is noticeable when the water level drops suddenly. The full colour will return when the material dries out. Keeping the pool covered when not in use and maintaining correct water chemistry will help to extend the appearance and life of the liner.

A more dramatic form of colour fading is that caused by chemical attack (bleaching). Common culprits are chlorine (in its liquid form especially), acid and hydrogen peroxide. It is vital that any chemicals added to the pool be thoroughly mixed with water in a bucket and then dispersed evenly around the pool.



Whilst the print on patterned liners is protected by an acrylic lacquer, it is possible to mistreat the liner in such a way as to remove some of the lacquer and print, leaving the base material visible. The most common causes of this are abrasive tile band cleaners, incorrect footwear during liner fitting, sharp edges on telescopic poles, brushes, etc., and automatic pool cleaners if they have become trapped in one position (usually a corner) for too long. A rough screed under the liner can result in print abrasion or even holes. Never leave automatic pool cleaners unattended for long periods.

Surface deposits

Perhaps the most common forms are calcium deposits (usually caused by incorrect pH balance) and body/sun tan oils. A reaction between modern sun creams and copper in the pool water can cause yellow staining on the liner material above the water line. Apart from the obvious discolouration to the liner, calcium deposits may well be an indication of more serious damage being done to pumps and heaters etc. Other surface deposits include wind borne chemicals from adjacent farms or aviation fuel and occasionally sticky deposits from some biguanide sanitizers.

Technical Information

In most cases, staining of the water line is a combination of:

- Photo-oxidation of the waterproofing membrane: the sun, water and chemicals can change the surface of the plastic material in an irreversible way.
- Atmospheric pollution: dust, smoke, residues of the combustion of fuels, will float on the water surface and will be driven by the wind towards one side of the swimming pool, where they will deposit onto the waterproofing membrane.

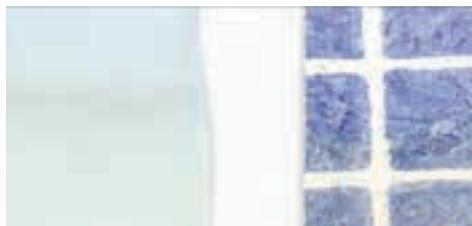
In the UK, the dominant wind direction is from the southwest. Atmospheric pollution will be deposited on the northeast walls. These are also the walls that receive the highest quantity of solar energy. These will typically be the sides where staining of the water line will be the worst, as the effects reinforce each another. Of course, the presence of buildings and trees will also have an influence. Regular cleaning of the water line is the best way to prevent early degradation of the waterproofing membrane. Lacquered membranes have higher resistance to this kind of degradation and are easier to clean. Proprietary products specifically designed for cleaning PVC liners should be used to remove staining. Under no circumstances should solvents or abrasives be used on Aquaflex liners as they will remove the protective lacquer and any print.

Yellow Staining

In recent years yellow staining of the water line has become an increasing problem. These stains do not correspond in any way with the usual pollution of the water line, which is generally grey/black/brown in colour, and which is not too difficult to remove if cleaning is carried out on a regular basis. Grey staining is generally found on the downwind side of the pool. The yellow stains have a very distinctive colour; they appear in less than two days and they are very difficult to clean. Several pool owners have stated that the stains appeared after people using sun cream had made use of the pool. Laboratory tests have shown that the most probable cause of the staining is a reaction between sun cream and copper.



Lacquered membranes are less easily stained than unlacquered products, but there is still a possibility of some staining.



Liners that have come in contact with sun cream and chlorinated water.



Liners that have come in contact with sun cream and chlorinated water that contains copper.

The yellow stains dissolve in highly chlorinated water. So, theoretically it is possible to remove the stains by raising the water level above the stains and shock chlorinating the swimming pool water. In practice the stains dissolve rather slowly, so it can take several weeks before the stains have disappeared, and the high chlorine level could also attack the swimming pool membrane. The yellow stains also dissolve in strong solvents, such as ethyl acetate. This solvent can only be used to remove the yellow staining on plain unlacquered liners. Ethyl acetate cannot be used on printed products as this solvent will remove the lacquer and print. A better method is to avoid staining by not using copper-based water treatment products.

Lacquered membranes are less easily stained than unlacquered products, but there is still a possibility of some staining. Nowadays, in many European countries, copper sulphate is rarely used. As an algicide, it has largely been replaced by quaternary ammonium compounds, which have the added advantage of not colouring the swimmer's hair. The major manufacturers of swimming pool chemicals offer products without copper sulphate specially for liner pools.

Liner pools have no rough surfaces, such as the grouted joints in ceramic pools; therefore a liner pool does not really need an algicide: it is perfectly possible to maintain good water quality with only the use of chlorine tablets.

WARNING: If the pool has an automatic salt chlorination system without the correct dosing control, there is a great danger that the pool water will be over chlorinated. This will result in colour/pattern loss of the pool liner. PLEASE SEEK SPECIFIC ADVICE FROM YOUR SALT CHLORINATOR SUPPLIER.

Technical Information

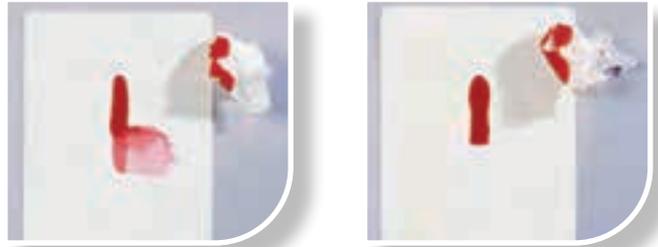
The most technically advanced Pool Liner Material available

Greater stain resistance • Increased resistance to abrasion • Reduced plasticizer loss gives longer life

The printed surface of the laquered Liner material is coated with four separate coats of hard wearing, flexible acrylic lacquer. This lacquer acts as a protective film covering the liner material and makes the material much more resistant to staining, abrasion and plasticizer loss. The reverse side of the material is coated with one coat of flexible acrylic lacquer to inhibit the transmission of stains from behind the liner.

Stain Resistance

The test is made with a penetrative red dye which is applied to each sample of foil; left for 30 minutes and then wiped off. A considerable amount of the dye has been absorbed by the unlacquered sample while the material is wiped completely clean.



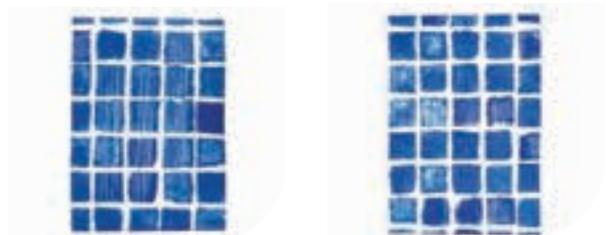
Abrasion Resistance

This test was carried out on a sample with a thin layer of lacquer and a sample of the 4 lacquered. The 4 lacquered sample takes more than 2½ times as much punishment as the sample with the single layer of lacquer.



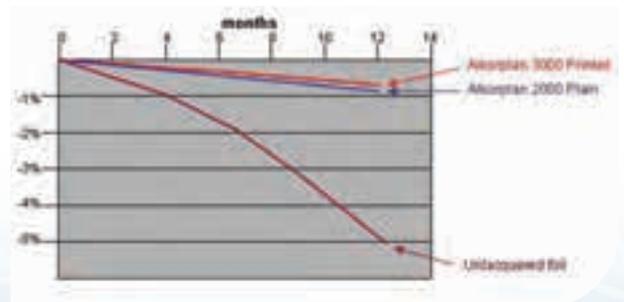
Scratch Resistance Test

Samples are placed in a test rig and a stylus scratched across the surface with a consistent speed and pressure. The results are readily apparent.



Reduced Plasticiser Migration

Samples of foil were buried in 'active' soil and the weight loss was measured over a 12 month period. Unlacquered foil lost 5% of total weight which represents 15% of the plasticiser content. The 4 lacquered lost less than 1%. The Unlacquered foil will lose its plasticiser and go brittle long before the 4 lacquered.



Technical Information

Locating Leaks

The three main areas in which a liner pool can leak are the liner itself, the fittings and gaskets (light, step, skimmer, etc) and the pipework. It is not always easy to distinguish between a leak in a pool and a simple water loss through evaporation and/or bathers getting in and out. An outdoor pool in regular use can lose as much as half an inch a day through evaporation and bathing in a dry spell. Even a covered pool could lose half an inch in a week. Anything in excess of these amounts is likely to be due to a leak. If in doubt, try the bucket test. Fill a bucket with water and leave it next to the pool. Mark the water levels of the pool and the bucket and compare the changes in the two over the course of a few days. If the pool water level drops more quickly than that of the bucket, then water loss is likely to be due to a leak.

The most common way of finding a leak is to let the water level fall until it stops. The leak will then be somewhere around the pool (or pipework) at this level, or just below. The disadvantages of this method are that it can be a slow process; an 8' deep pool losing 1" per day could take up to 3 months to reach the level of the leak. Secondly, ground conditions surrounding the pool may be such that it is inadvisable to leave the pool empty or partially empty for very long. In addition, if there is more than one leak in the pool, the water level may carry on dropping (although at a reduced rate) below the level of the uppermost leak.

If a visual inspection reveals no obvious cause, pressure test the pipework. This will either confirm the leak is in the pipework or show that the liner or fittings are the culprit. Old, perished gaskets or ill fitting screws are possible causes. To detect leaks in these areas use potassium permanganate crystals which leave a harmless purple trail as they slowly sink to the bottom of the pool. With the pump and filter switched off, drop the crystals near to the suspected fitting and watch carefully to see if any of the trails are pulled towards the fitting thus indicating the site of the leak.

If the liner itself is at fault, then it is most likely to be along one of the joins, most commonly the base to sidewall join which is under the most strain. Weld failures of this nature, whilst rare, almost always occur within the first few days of a liner's life and should be covered by the liner manufacturer's warranty. They can usually be found by a careful and systematic inspection of each weld, although this generally means getting under the water! Holes in the liner other than along a weld are almost unheard of and are most likely to be as a result of abuse either during the fitting (incorrect footwear, screw drivers, etc.) or subsequently by the pool users (telescopic poles, garden tools, etc.).

Electronic leak detection equipment is the quickest and most effective method for finding leaks within liner pools - contact Aquaflex for more information.

Repairing Leaks in Liners

Whichever type of repair is undertaken, the first step is always to clean the wound. Most leaks can be easily repaired on site with self adhesive patches or repair kits using specially formulated solvent based glue. These have the advantage of being applicable under water, rendering it unnecessary to empty the pool. The golden rule when using glue or solvent is not to use excessive quantities and always follow the instructions on the packaging. Large holes may need to be repaired by means of solvent welding, high frequency welding, hot air or hot wedge welding. Only in rare cases should a liner be returned to the manufacturer for this type of repair, quite apart from the costs involved it is difficult, if not impossible, to refit a liner in which the fittings have already been cut.

The age and condition of the liner must be taken into account as well as the size and nature of the repair when deciding how best to repair a holed liner. After approximately three to four years in the ground, a liner has lost a proportion of its plasticiser, thus reducing its elasticity. If a pool in such a condition were to be drained, repaired and then refilled, it is possible that the liner could shrink and consequently split under the strain on refilling. A liner's ability to accept glue, solvent or other forms of welding diminishes with age. Attempts to repair such liners are often unsuccessful.



Patterned liners need particular care as a combination of low pH and even slightly high levels of chlorine can damage the pattern and lead to premature ageing. The following guidelines should be carefully followed – particularly the pH recommendations.

pH: 7.4 – 7.6 Stabilised Free Chlorine: 1.0 – 1.5ppm

Chlorine Stabiliser (Cyanuric acid): 25 – 70ppm

Alkalinity: 100 – 175ppm

Water temperature: 32C maximum – Ideal is <27C

Technical Information

1. A liner pool should be kept full of water at all times. If the pool is emptied, the liner may move out of position.
2. Leaves or other debris should not be allowed to lie on the pool floor for long period of time as they may stain the liner.
3. When adding any pool chemicals to the pool water always make sure that the circulation pump is kept running to thoroughly disperse the chemicals. The time needed for total dispersal varies from pool to pool, but it is necessary to circulate the entire volume of pool water through the pump at least once. Always read the dosing instructions on chemical packs. Never exceed the recommended doses stated.

Most pool chemicals are heavier than water and if they are not dispersed, simply sink to the bottom of the pool and lie against the liner in concentrated form. This will inevitably damage the liner.

Treat the pool water with one chemical at a time and never mix different chemicals together. Dilute or completely dissolve all chemicals in a bucket of water prior to adding to the pool. Always add chemicals to water, not water to chemicals. Never use your hand to stir chemical solution. We do not recommend that you put chlorine tablets or sticks into the skimmer as bleaching of the liner may occur when the filter pump is turned off. Never scatter dry chlorine directly onto the surface of the pool water. Doing so will result in bleach spots on the floor. Treat all chemicals with respect - fire and explosion or release of dangerous gas can result without warning if handled improperly. Store all chemicals in a dry, safe and secure location by type. All chemical containers should be tightly sealed when in storage.

We recommend that liquid chlorine is only added to liner pools by professional pool engineers.

4. Scum line dirt should be cleaned off on a regular basis using a proprietary brand of liner tile band cleaner. Do not use abrasive materials to clean the scum line as these will remove the pattern of printed liners and roughen the surface of plain liners. We do not recommend the use of acid based cleaners as these will discolour the pool liner.

5. **Do not allow the pH level of the pool water to drop below 7.2 as this will have a damaging effect on the liner. Be careful when using domestic "test strip" type test kits – these tend to bleach out when the pH level is below about 6.5 giving dangerously misleading readings. For accurate readings we strongly recommend a hand-held electronic pH meter – please see page 16 – 17 for details on this product. If the pool water pH level rises above 7.8 then the water is too alkaline and calcium deposits on the liner surface may occur. An ideal pH level for the liner is between 7.4 and 7.6. Your water test kit will show a free chlorine residual level or the amount of chlorine available to kill bacteria in the water.**

Your free chlorine residual level should be between 1.0 and 1.5 ppm (parts per million). If free chlorine drifts below 1.0 ppm algae and bacteria will grow more easily and may cause liner staining. If the level is consistently above 1.5 ppm excessive moisture absorption will take place and wrinkling and/or

bleaching of the liner may occur.

All PVC lined pools must be routinely stabilised with cyanuric acid in a range between 25 ppm and 70 ppm. A level of less than 25 ppm combined with a pH level of less than 7.0 and/or a chlorine level higher than 1.5 ppm can cause the liner to form wrinkles. Do not use large single doses of hydrochloric (muriatic) acid for pH or total alkalinity adjustment. If it is not blended sufficiently with the pool water it may chemically attack the liner's print pattern. Ask your pool dealer for the recommended procedure for total alkalinity adjustment.

Your water test kit, or your dealer's test will show a total alkalinity reading. Simply put, this is the ability of your pool water to counteract the changes in the pH level. Ideally, the total alkalinity level should be at 100-175 ppm.

Calcium levels should be kept at a minimum level of 200 ppm to avoid corrosive conditions. Calcium levels over 500 ppm may cause problems such as cloudy water or scaling on the liner surface.

6. Provided that water chemicalisation is maintained correctly within the pool, the liner will give good service at water temperatures of up to 90°F (32°C). At temperatures in excess of 90°F (32°C) the life expectancy of the liner can reduce progressively from the normal 7-10 year life down to as little as three years. However, experience shows that provided the chemical balance of the pool water is maintained correctly and consistently, then the liner will perform satisfactorily at temperatures well in excess of 90°F (32°C). As with all things, the greater the care, the longer the life.
7. All cleaning equipment used in the pool such as brushes, vacuum heads and automatic cleaners must be specifically designed for liner pools. Use carefully when brushing the liner. Ensure the pool brush and pole do not have any sharp edges that could tear the pool liner.

Note: Automatic pool cleaners that remain trapped in one position can damage the pool liner - never leave them unattended for long periods.

8. When winterising the pool, always ensure that all debris is removed from the pool water and that any chemicals added are thoroughly dispersed.

At the end of the pool season adjust the water level to the dealer's recommended level. Test the pool water and correct the water balance. NEVER close a pool without circulating the pool water for several hours after the final addition of chemicals - chlorine may settle in the deep end and bleach the liner if not allowed to thoroughly disperse in the pool water. Clean and vacuum the pool. Use a well fitting winter pool cover, tightly sealed around the perimeter of the pool. This will prevent the accumulation of debris such as leaves and insects during the winter. Should you have any problems with your pool, call your dealer - he is your pool professional. And remember, that proper chemical balance, regular maintenance and common sense are the keys to years of enjoyment from your pool. Should the pool incorporate a sliding safety cover which seals the pool and traps air beneath it, it is essential that the pool water is clean and correctly chemicalized to prevent the growth of bacteria beneath the cover. These bacteria can de-stabilize the liner pattern.

Guarantee for Prefabricated Domestic Swimming Pool Liners 0.5mm (20 thou) & 0.75mm (30 thou)

5 Year Limited Guarantee

Should any material fault or manufacturing defect covered by this guarantee become apparent within 12 months of purchase, the pool liner will be repaired or replaced free of charge.

If such a fault occurs at any time during the following 4 years then the value of the guarantee shall be pro rata from the date of purchase – i.e. the purchaser will be required to pay the full list price of the liner at the date of the claim less 1.60th of that price for each full month remaining -in the guarantee period. This guarantee is non transferable and is applicable to the original purchaser only.

Conditions

This Guarantee covers:-

- Defects in liner materials and faulty workmanship where the liner has been installed correctly by competent persons in a suitable pool structure and operated under normal domestic conditions - (see care and maintenance instructions).

This Guarantee does not cover:-

- Pool liners that have been subjected to alteration, misuse, abuse, neglect, accident or flood.
- **Damage caused through incorrect chemical balance. Chemical levels must be kept within the levels recommended by their manufacturers. Very high levels of water sanitizers will cause the liner to fade and creasing of the lining material may occur.**
- **Colour or Pattern fading relating to poor water management**
- Pools that operate at water temperatures in excess of 32°C (90°F).
- Pool liners that have been drained of water other than by a competent pool fitter.
- Liners installed on sites with a high water table or underground springs without a professionally installed dewatering system.
- Pool liners installed on rough or incompatible pool shell surfaces.
- Misalignment of liner patterns. The flexible characteristics of the liner material makes it impossible to align the pattern on the material during manufacture.

Exclusions

- No liability for consequential costs or incidental damage arising from a defective pool liner will be accepted.
- No liability will be accepted for any damage to property or injury to persons or animals caused directly or indirectly by the pool liner.

Guarantee for 1.5mm Reinforced Site Tailored Swimming Pool Liners

16 Year Limited Guarantee

The water proofing and the welded seams of the Aquaflex 1.5mm liner are guaranteed to be free from material and installation defect for a period of 16 years from the date of installation.

Should a defect occur within the first 6 Years the liner will be repaired or replaced free of charge. If such a defect occurs within the following 10 years following installation, the reimbursement value of this guarantee will be reduced by 10% each year. This guarantee is non transferable without the expressed agreement of Aquaflex Ltd and remains invalid until payment is complete.

Conditions

This Guarantee covers:-

- Defects in materials and faulty workmanship when the liner is installed by Aquaflex Ltd and the pool is subsequently operated strictly in accordance with the relevant care and maintenance instructions.

This Guarantee does not cover:-

- **Damage to the liner, either physical or aesthetic which takes the form of creasing, fading or staining caused by the pool construction or shell surface, ingress of ground water, failure of pool fittings or linerlock, poor pool maintenance or incorrect water balance.**
- **Colour or Pattern fading relating to poor water management**
- Swimming pools run at temperatures in excess of 32°C (90°F).
- Swimming pools run at temperatures in excess of 32° (90°F) up to a maximum of 35°C (95°F) will be covered by a 5 year guarantee only. Should a defect occur within the first 2 years following installation, the liner will be repaired or replaced free of charge. Should such a defect occur within the subsequent 3 years, the reimbursement value of the guarantee will be reduced by 33% per year.

Exclusions

- In the event of a replacement liner, the pool site shall be drained by others.
- No liability will be accepted for any consequential costs or incidental damage arising from a defective pool liner.
- No liability will be accepted for any damage to property or injury to persons or animals caused directly or indirectly by the pool liner.

Note: The water proofing performance of the liner is unaffected by water temperatures up to 32°C (90°F). However, at these higher temperatures it becomes very difficult to maintain a perfect chemical balance of the pool water, especially in high use pools. Over a period of time, this will lead to colour or pattern fade. Excessive moisture absorption by the liner material may also take place, causing the liner to grow and form creases. The pattern on the liner surface may erode before the liner's normal life expectancy has been reached.

Technical Information

Aquaflex Solar Covers

Aquaflex Solar Covers are manufactured from the best available materials which have been tested on all types and sizes of swimming pools.

Care & Maintenance of Aquaflex Solar Covers

The life expectancy of the Aquaflex solar cover is in the region of five years, providing it is treated with reasonable care and the following guidelines are adhered to, particularly correct storage, during and out of season.

Installation

1. Aquaflex solar covers are supplied ready for use and made slightly oversized in the length to allow for any minor shrinkage which may occur. DO NOT trim to size.
2. The cover should be placed on the pool with the bubbles face down to achieve maximum solar gain and heat retention and to minimise dirt and dust collection.
3. A cover roller will prolong the life of the Aquaflex solar cover as there is always less creasing and dragging of the cover when removing or replacing using a roller.
4. When rolled onto a pool roller or folded next to a pool, always cover the solar cover using the reflective ultra-violet protection sheet supplied. This will prolong the cover's life and prevent over heating by the sun. In windy conditions simply tie cord or string around the cover to keep it in place. Failure to use the reflective anti UV protection sheet will invalidate the guarantee.
5. Under no circumstances should anyone be allowed to swim in the pool with the cover fully or even partially in place.
6. Do not leave the cover on the lawn for long period of time in sunlight as both the lawn and the cover will be damaged.

General Care

1. Good chemical maintenance of the pool water beneath the solar cover is essential. To prevent shrinkage and chemical damage, high chlorine levels and/or low pH levels, (e.g.: below 7.2) will reduce the life of the cover.
2. From year to year, the colour of the Aquaflex solar cover may gradually fade. This fading is only slight and will not affect the overall performance of the cover.
3. Should SmartClic or other types of "snaplock" eyelets be fixed through the cover, either for fixing roller straps or leading edge tapes, always fit them through the cover, not less than 4" away from the edge.

4. Should your solar cover become damaged, consult your local supplier. Special self adhesive repair tapes are available.
5. Do not leave the solar cover on the pool during the winter months. At the end of the swimming season, remove and wash down using a mild detergent if necessary. Rinse and thoroughly dry the cover and place it in the bag provided. Store away from rodents such as rats and mice.

Aquaflex Solar Cover Guarantees

Aquaflex Solar Covers are guaranteed against faulty workmanship or materials from the date of purchase for varying periods as outlined below, under the following terms:

- a) Standard 400 Range – 3 year pro rata guarantee:
 - 1st Year:** The cover will be repaired or replaced free of charge.
 - 2nd and 3rd Year:** Aquaflex pay 1/36 of the replacement cost of the cover for each complete month remaining of the guarantee.
- b) Geobubble Range – All 400 micron covers (Blue and Silver/Blue)
 - 1st Year:** The cover will be repaired or replaced free of charge.
 - 2nd, 3rd and 4th Year:** Aquaflex pay 1/48 of the replacement cost of the cover for each complete month remaining of the guarantee.
- c) Geobubble Range – 500 micron Gold:
 - 1st Year:** The cover will be repaired or replaced free of charge.
 - 2nd, 3rd, 4th, 5th Year:** Aquaflex pay 1/60 of the replacement cost of the cover for each complete month remaining of the guarantee.
- d) Geobubble "Guard" Range – 500 micron SolGuard, EnergyGuard and CoolGuard:
 - 1st Year:** The cover will be repaired or replaced free of charge.
 - 2nd, 3rd, 4th, 5th and 6th Year:** Aquaflex pay 1/72 of the replacement cost of the cover for each complete month remaining of the guarantee.

These guarantees cover only defects in materials and faulty workmanship.

For the avoidance of doubt, costs of removal, carriage and reinstallation will not be paid by Aquaflex. Damage resulting from swimming pool chemicals, misuse and abuse will not be considered. Management of pool water chemistry must be within SPATA guidelines to avoid invalidating the guarantee. Pool water temperature must be kept at 32°C (90°F) or lower. (Please note these terms do not apply in Southern Europe.)

Important! - Shrinkage of Solar Covers

It is in the nature of polyethylene that there will be a small amount of dimensional change associated with temperature changes. Additionally there are other factors which can exacerbate this distortion. Where covers are rolled up or folded it can take some time for these to even out once the cover is on the pool.

Occasionally, the air inside the bubbles of the cover can expand and increase in pressure. This can cause the tension in the material to increase and a consequent reduction in the dimensions of the cover can occur - i.e. it can shrink! The chemical treatment of pool water will have an effect on this phenomenon, particularly excessive chlorination or a build up of combined chlorine in the pool. If the pool chemistry is not corrected, permanent damage can occur.

With this in mind all Aquaflex solar covers are made slightly oversized in the length to accommodate any potential shrinkage in the material, so it is important not to trim the cover to size as this would negate any benefit from having the cover oversized in the first place. This should be explained to the pool owner who may be somewhat puzzled as to why his or her cover appears to be too long!

Another cause of distortion can be when covers are left rolled up on the roller and exposed to direct sunlight. The multiple layers can act like a magnifying glass focusing the sun's rays and creating very high temperatures within the rolled up cover. Every Aquaflex cover is supplied with a UV protection sheet which should be kept on the cover when on the roller, at all times. For even greater protection, and for winter use please see page 38 for details on the Aquaflex heavy duty Roller Storage Covers.



Technical Information

Aquaflex Winter Debris Covers

Aquaflex winter debris covers are made from the highest quality materials. The tight mesh design of the Aquaflex Winter Debris Cover allows rainwater to pass through but keeps the pool water crystal clear. There are two types of debris cover available from Aquaflex; the "Sovereign" type economy cover and the "Emperor" deluxe debris cover, both of which are supplied with a storage bag and a five year pro rata guarantee. The Emperor cover is anchored using stainless steel, spring assisted "P" anchors. The Sovereign uses rubber tensioners. The Emperor cover is also available with criss-cross reinforcing straps between all anchor points. Standard features of the Sovereign cover consist of top quality UV stabilised woven base material with anti chafing strips and eyelets at approximately 5' intervals. The Emperor cover is made from the same excellent material but comes with large reinforced corners, anti chafing strips on all strap positions and stainless steel spring anchors at between 4' and 5' spacings. Closer spacings as well as continuous anti-chafing strips are available as extras.

Covers can be manufactured to accommodate ladders etc., intruding into the pool as well as step sections outside the pool. All varieties of shape and size can be supplied, with standard sizes available from stock. All covers are made 1' larger than the pool size: i.e.: add 2' to the length and width of the pool to give the cover size.

Installation

1. Remove the cover from its storage bag at one end of the pool, making sure that the cover is the right way up (i.e.: anti-chafing strips against the coping stones. Pull the cover over the pool.

For non-symmetrical shaped pools, orientate the cover so that it follows the shape of the pool. The cover is manufactured 1' larger than the pool all round and will temporarily float on the water surface, so allowing it to be positioned centrally over the pool.

2. Lay the anchor straps out flat on the pool surround and drill a 1/4" (6mm) holes vertically into the pool surround at each strap position, 30" from the edge of the pool.

Apart from the four corner straps, the anchor straps are designed to lie at 90° to the cover edge. The corner straps lie at 135° to the edges of the cover.

3. Starting at one end, buckle the stainless steel spring anchors to the anchor strap and pin the "P" anchors into the holes previously drilled in the pool surround. Repeat this operation at the other end of the pool, tensioning the cover using the spring anchor buckles. Repeat along the sides of the pool.

General Cover Care

1. Always ensure that the cover does not come into contact with undiluted pool chemicals such as chlorine granules or pH reducers (Dry Acid) as this can lead to bleaching of, or permanent damage to the pool cover.
2. Do not attempt to walk on the cover whilst in position over the pool. The cover is extremely strong, but it is not intended for use as a safety cover and should not be treated as such.
3. Excessive snow accumulation on the cover is not normally a problem, but it should be removed if possible, as its weight can put unnecessary strain on the anchor points or ground fixings.
4. Experience has shown that the most common form of cover damage is caused by dogs or other animals scratching repeatedly, or sparks from nearby bonfires - take care. Should the cover require repair by the manufacturer, always return it (minus the stainless steel fixings) in the Spring when the cover is removed from the pool. Do not wait until the Autumn.
5. When removing the cover in the Spring:-
 - a) Carefully remove from pool, unbuckling stainless steel anchor springs (store separately).
 - b) Check for damage - send for repair if necessary.
 - c) Clean and dry the cover.
 - d) Fold cover and replace in its bag.
 - e) Store away from sunlight in a cool dry place, away from rodents such as rats and mice.

Aquaflex Winter Debris Cover Guarantee

Aquaflex Winter Debris Covers are guaranteed against faulty workmanship or materials for a period of 5 years under the following terms:-

1st Year: The cover will be repaired or replaced free of charge

2nd, 3rd, 4th, 5th Year: Aquaflex pay 1/60 of the replacement cost of the cover for each complete month remaining of the guarantee.

This guarantee covers only defects in materials and faulty workmanship. Aquaflex's liability extends only to the cost of repair or replacement of the cover and does not include any consequential costs or damages arising from defects in the cover. For the avoidance of doubt, costs of removal, carriage and reinstallation will not be paid by Aquaflex. Damage resulting from swimming pool chemicals, snow loading where the pool water is more than 18" below the pool surround level, misuse and abuse will not be considered.

Order Forms

It is important to provide us all the information when requesting a price or placing an order. Our order forms have all the necessary requirements for our products in order to manufacture your bespoke liners and covers.

Aquaflex Ltd - Alkorplan Site Lining Quote Request Form

Customer Details	
Company name:	Date:
Contact name:	Phone:
Customer Reference:	Email:
Pool Shape:	Pool Description:
Width	Base material
Length	Side material
Side wall depth	Tile material (if applicable)
Deep end depth	Anti Slip colour (if steps)
Indoor or outdoor?	Location / Site Address:
New build or renovation?	
Handrail?	
Lined pit at end of pool?	
Square or radius corners?	
Wall to floor radius?	
Beaded or Metal fixing?	
Are the side walls vertical?	
Steps to be lined? If so please indicate below.	Anticipated start date:

Steps:

Corner Step



Square Step



Curved Step



Roman Step



Inside Step



Other

please supply separate sketch

Please indicate any other issues that you feel Aquaflex would need to be aware of before arriving on site. Examples would be, high water table, limited access times...

General Conditions of Sale

Save to the extent that we have otherwise agreed in writing, all our sale of goods and services are pursuant to these conditions of sale.

1. LEGAL

- (a) Aquaflex Limited Number 2838628, R/O 1 Edison Road, Salisbury, Wiltshire, SP2 7NU ("the Company") designs, manufactures, distributes and sells goods and services ("the Products") to Customers in the swimming pool industry and aquatic parts of the construction industry
- (b) All contracts shall be construed in accordance with English Law and subject to the exclusive jurisdiction of the English Court and deemed made and performed within the area of jurisdiction of the Salisbury County Court.

2. ACCOUNTS AND PAYMENTS

- (a) Accounts may be opened at the discretion of the Company upon receipt of satisfactory references. The Company shall have discretion to withdraw credit at any time.
- (b) All invoices are payable immediately upon delivery and shall, in any event, be paid by the last day of the month following that in which the Products were supplied ("the Due Date"). The Company shall have the right to charge interest from the Due Date until actual payment at the rate of 8% above the base rate for the time being of the Company's bank.

3. QUOTATIONS, SAMPLES, DELIVERY AND THIRD PARTY COSTS (SEE CONDIITONS)

- (a) All prices quoted are valid at the date of quotation and exclude VAT.
- (b) Batches of materials used in the Products vary in dimensions and colour and samples are not guaranteed to precisely match the order. Samples are given by way of example only and no contract for the sale of the Products shall be a sale by sample,
- (c) Customers must satisfy themselves that the type of goods ordered is suitable for the particular use intended and any input by the Company shall be dependant upon the customer's information and site support.
- (d) The Company will use reasonable endeavours to avoid delay in delivery of the Products but the Company shall not be responsible for any damages, losses or costs arising from delay.
- (e) All of the Company's specifications, designs, drawings, illustrations, dimensions and indications of physical, chemical, electronic and colour properties ("the Information") are approximate indications only and are not binding in detail and the Company shall be entitled to vary the same providing the Products remain in substantial conformity with the contractual requirements.
- (f) The Information (including all intellectual property) is the sole property of the Company and the Customer is not entitled to make any use of the Information for any purpose other than the Contract.

4. GUARANTEE

- (a) Products supplied by the Company have the benefit of a guarantee (depending upon the nature of the Product) as stipulated in the current technical manual of the Company (available on request).
- (b) The Guarantee is supplied in addition to any statutory rights.
- (c) The Guarantee is conditional upon the Company being given notice of a claim thereunder within 7 days of the discovery of the defect.
- (d) The Guarantee is subject to the Company being allowed reasonable access to the Product in situ for the purpose of inspection and to be allowed to make arrangements for the removal and return of the Product to the Company for analysis.
- (e) The Guarantee is subject to the proper installation and maintenance of the Product either by the Company or by a third party with relevant experience in work of this nature.
- (f) Where the guarantee offers repair or replacement the final decision will be at the complete discretion of the Company.
- (g) Save where specifically stated the Guarantee is not given in relation to Products or part thereof that have not been manufactured by the Company but in such cases and where such third party Products have the benefit of a manufacturer's warranty the Company undertakes to Use all reasonable Endeavour's to pass to the Customer such manufacturer's or supplier's warranty that may apply thereto (and will, at the Customer's expense, assign to it or enforce any legal course of action in respect thereof) and the Customer accepts these undertakings in full and final settlement of any claim that it may have against the Company in respect of such third party Products.
- (h) Save where specifically stated to the contrary the Company will permit the Customer to pass the benefit of the Guarantee to the end user provided that all of these conditions of sale shall be deemed to apply as between the Company and such end user in relation to any claim under the Guarantee.

5. RETENTION OF TITLE

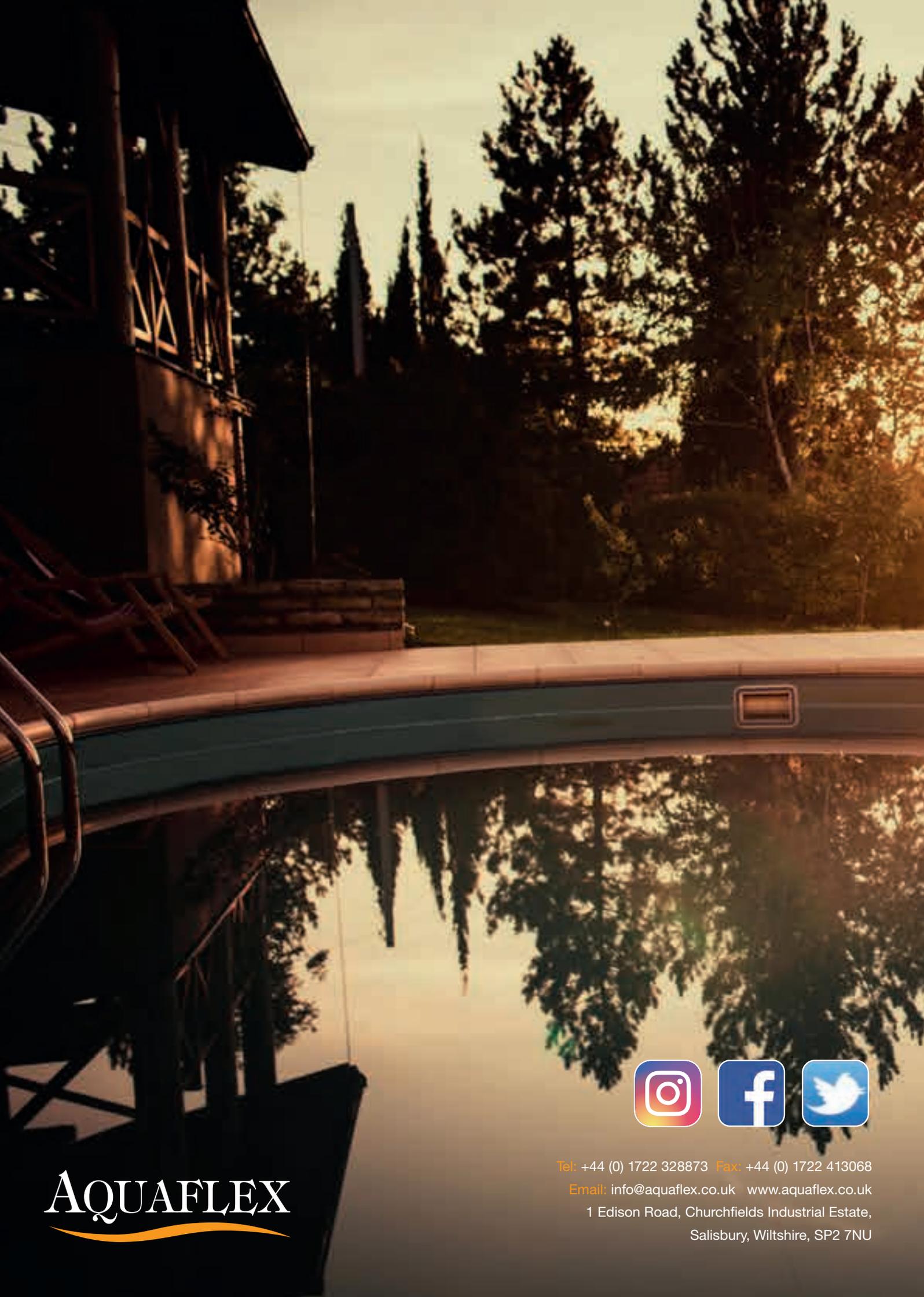
- (a) The risk in the goods shall pass from the seller to the buyer upon delivery of such goods to the buyer. However, notwithstanding delivery and the passing of risk in the goods, title and property in the goods, including full legal and beneficial ownership, shall not pass to the buyer until the seller has received in cash or cleared funds payment in full for all goods delivered to the buyer under this and all other contracts between the seller and the buyer for which payment of the full price of the goods there under has not been paid. Payment of the full price of the goods shall include the amount of any interest or other sum payable under the terms of this and all other contracts between the seller and the buyer under which the goods were delivered,
- (b) The Customer hereby irrevocably licences the Company that in the event of Termination or in the event of non-payment (in full or in part) for the Products by the Due Date the Company may enter upon any premises to repossess such Products.

6. CANCELLATION AND TERMINATION

- (a) The Customer shall be entitled to cancel a contract at any time ("Cancellation").
- (b) The Company shall be entitled to terminate the Contract in the event of non-payment (in whole or in part) by the Due Date or if at any time before payment in full is made (whether or not yet due) in the event of the Customer's bankruptcy, liquidation, receivership or administration ("Termination").
- (c) In the event of Cancellation or Termination the Customer shall be liable to the Company for all the costs and expense incurred up until the date thereof and for the profit it reasonably expected to make on the Contract had the same been fully performed, less such net sum (if any) as the Company is able to make in disposing of the products.

7. LIMITATION OF LIABILITY AND FORCE MAJEURE

- (a) The Company's liability for breach of Contract shall be limited to damages and the Company shall be under no liability:-
 - (i) For any indirect or consequential loss including liability for loss of profits, income, site availability or third party losses (against which risks the Customer should insure).
 - (ii) For any damages in excess of the price of the Products.
 - (iii) For any damages provided that the Company shall have properly complied with the Warranty and shall have paid all direct costs and expenses of such compliance (including removal and reinstatement costs).
- (b) Neither party shall be liable for any default, due to events beyond their reasonable control,
- (c) Nothing in the Guarantee or these general conditions of sale shall be deemed to limit or excluded the liability of the Company for death or personal injury arising as a result of its negligence.



AQUAFLEX

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