COVERS

BUBBLE THERMO COVERS - 400 MICRON

5mm covers: All Solar Covers and Supercover
8mm covers: Super Olympex. It is not recommended to roll the economy Spa Cover.

We do not recommend ladder cut outs on commercial covers as they can chafe and course problems when rolling onto a reel system.
Instead we suggest the cover width is reduced to run inside any obstruction or use ladder hinges to hinge the ladder(s) out of the pool.

Rolles cover diameteres in cm.

Tube diameter		Pool length in meters									
		6	8	10	12	15	20	25	30	40	50
10 cm (4")	5 mm	23	26	29	31	34	39	43			
	8 mm	29	32	35	39	42	49	54			
13 cm (5")	5 mm	24	27	30	32	35	40	44	47	54	60
	8 mm	30	33	36	40	43	50	55	60	68	76
17 cm (6½")	5 mm	27	29	32	34	37	41	45	48	56	61
	8 mm	32	35	39	40	45	50	55	61	69	77
30 cm (12")	5 mm	37	39	41	43	45	48	52	55	61	66
	8 mm	41	44	46	49	52	57	61	66	74	81

Proportional Heat Loss Chart

Type of heat loss	Amount in % af overall	Heat saved with 400 grade Solar cover	Heat saved with Supercover	Heat saved with Super Olympex
Evaporation From pool surface	68 %	95 %	95 %	95 %
Radiation From pool surface	14 %	66 %	81 %	92 %
Convection From pool surface	17 %	60 %	65 %	78 %
Conduction Through pool shell	1 %	0 %	0 %	0 %
Total	**100 %**	**84 %**	**87 %**	**91 %**

The comparisons shown are all ande using 27° C water temperature working against 21° C ambient temperature, 60 R.H. and 5mph wind speed.
- With a 400 Grade Solar Cover with a U value of 7.4 w/SQ.m.°C. You will save 84 % of potential heat loss.
- With a 5 mm thick heat retention Supercover with a U value of 6,8 w/sq.m.°C. You will save 87 % of heat loss.
- With an 8 mm thick heat retention Super Olympex cover with a U value of 6,0* w/sq.m.°C. You will save 91 % og heat loss. (*estimated).

5,00° C heat loss in 5 hours with no cover.
0,80° C heat loss in 5 hours with a 400 grade Solar Cover.
0,65° C heat loss in 5 hours with a Supercover.
0,54° C heat loss in 5 hours with a Super Olympex cover.

GENERAL STATEMENTS (FROM GOVERNMENT FIGURES)
- Approximate savings of one third can be estimated for heating on pool as above conditions.
- Payback periods have been shown to be between 6 month and 2 years for complete system.
- An uncovered pool with the given parameters will lose heat equal to a 300W heater per square metre.