Heat insulation

Reference-object Bern Brünnen / Switzerland
All 3 slides are executed with an insulation.

With the increase in energy-related requirements, heat insulation for all closed-in external waterslides is becoming more and more important. The insulation developed by us has proven itself in practice and is becoming increasingly popular.

On the basis of miscellaneous measurements at reference-objects, we can give following saving-possibilities known:

cacluation on the basis of a tube slide				
Basic conditions:				
length of slide:	100	m		
water volume:	120	m3/h		
inside-temperature slide:	27	°C		
diameter of the slide:	120	cm		
daily business-time:	12	hours		
	Energy needs		**Saving**	**Energy needs per meter of slide**
Heat-loss without cover and insulation (one-stale-y)	240‘333	kWh		2‘403,3 kWh/m
Heat-loss with air-filling through a cover	80‘733	kWh	66%	807,3 kWh/m
Heat-loss with heat insulation and cover	8‘085	kWh	97%	**80,9** kWh/m

As a result, heat transfer coefficients can be ameliorated from normally approx. 11,0 W/m2K to approx. 0,35 W/m2K.

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