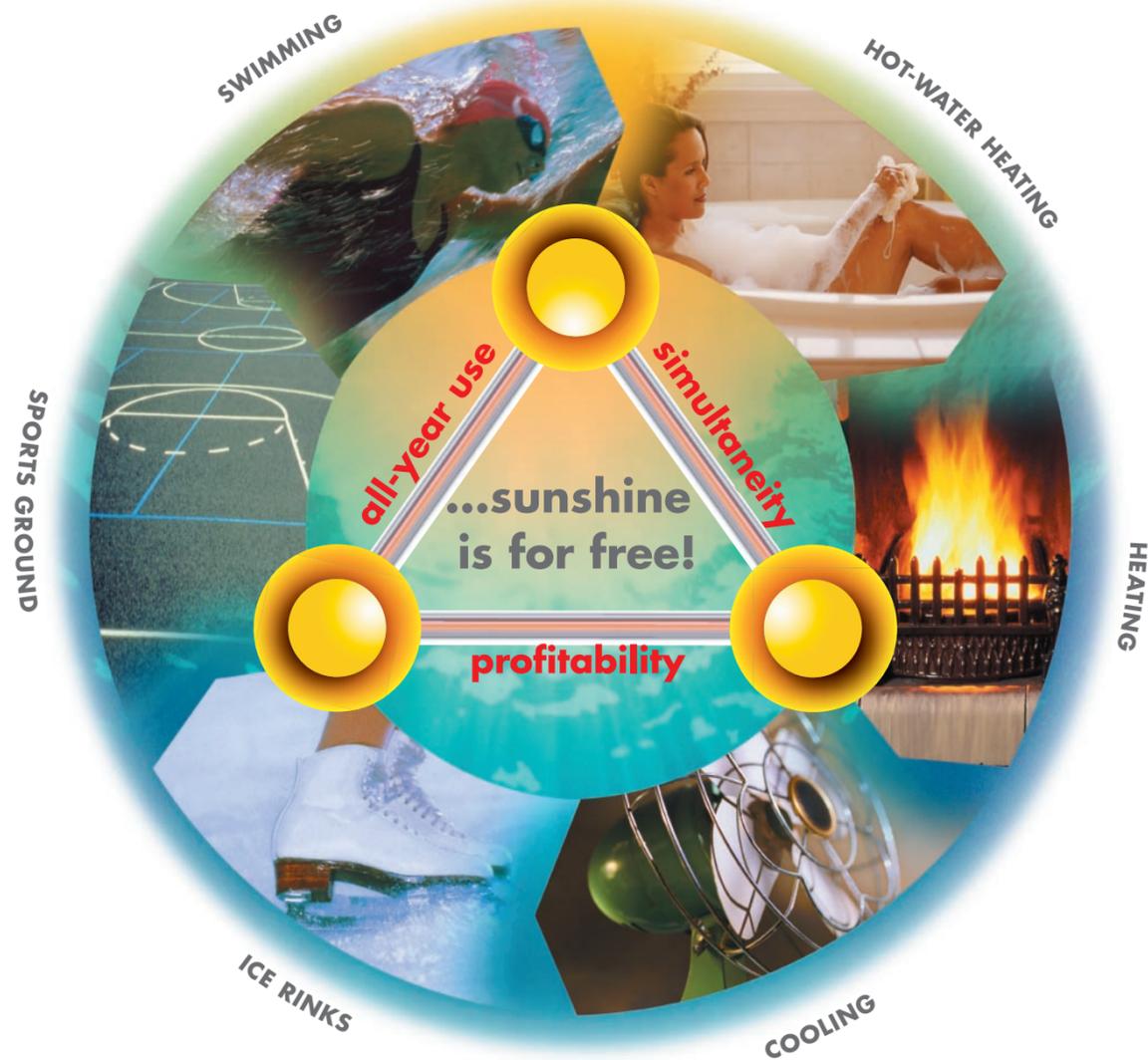


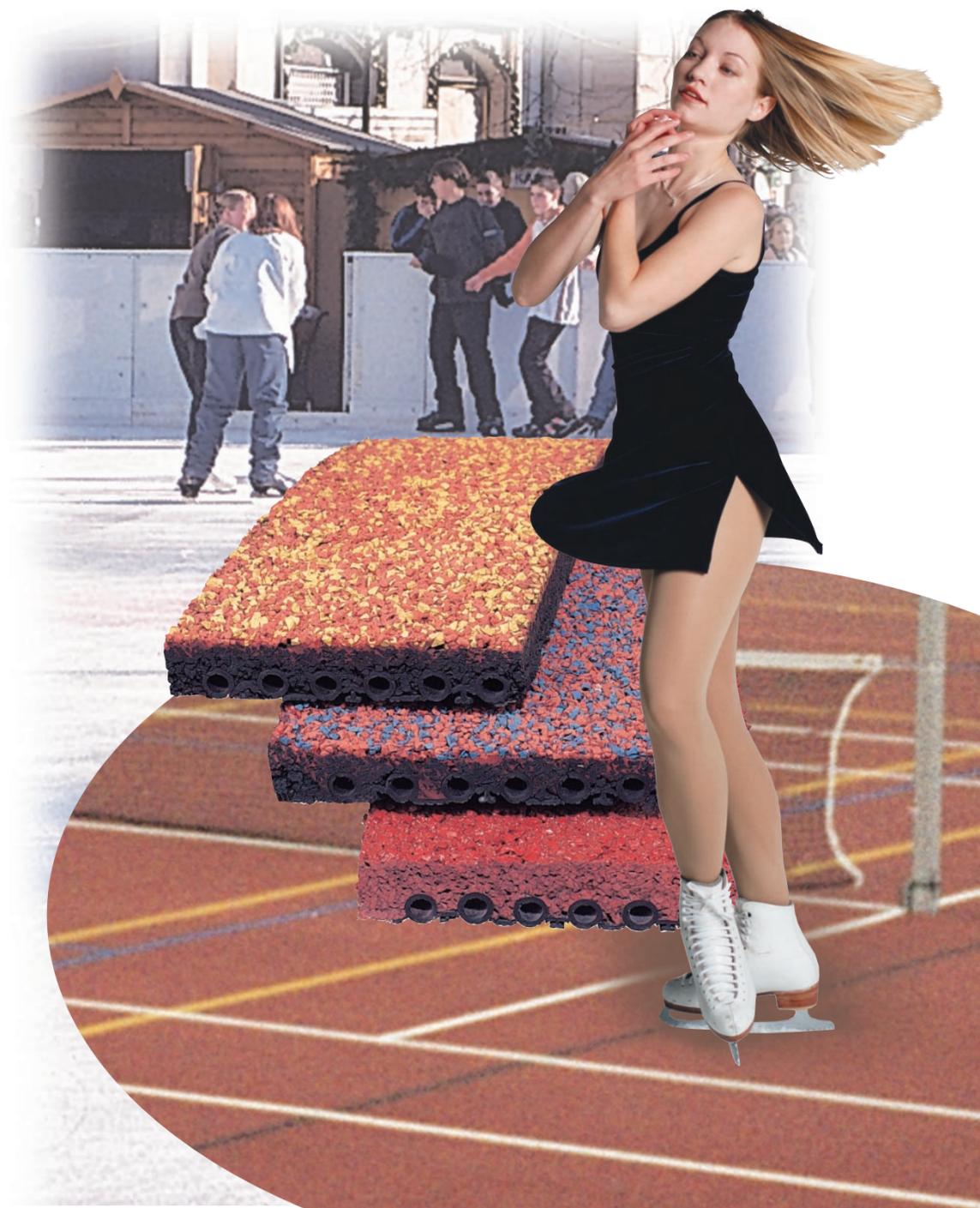


# „All In One“ Energy Concept



# SPORTSOLAR

*You can also ice-skate on a clever sports ground...*

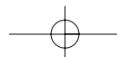


Our „All In One“ energy concept transforms any single solution (swimming pool, ice skating, heating, etc.) into an integrated **economical investment**. The systematic and simultaneous use of “waste energy” covers your all-year requirement for thermic energy (heating, air conditioning, hot water, etc.). Then the sun really shines **for free**.

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# ...and heat the pool with a clever swimming pool walk around path from SOLKAV

The development of SPORT SOLAR – the patented solar absorber you can walk and play on – offers completely new applications for the user. Wherever too little roof surface is available

or if the installation of a solar unit was impossible for optical or technical reasons, SPORT SOLAR provides an ideal solution with **multiple usage...**



...as walk around path for the pool:

SPORT SOLAR has a non-slip elastic surface, reducing the risk of falls and accidents considerably.

As new or replacement investment SPORT SOLAR reduces the relatively high costs of an orthodox walk around path with the advantage of being adaptable to any shape of pool.

Of course SPORT SOLAR physical and hygienic characteristics fulfil all legal requirements. the product also requires very little care and attention.

...as multi-functional sports ground:

By using different granule mixtures and colours you can design a ball game court which is impervious to water in various tones and degrees of hardness.

The non-slip hard wearing surface supplies heating energy for your pool and/or infrastructure in a most attractive and space-saving form.

To increase attractivity and customer frequency you can use the SPORT SOLAR surface additionally **in winter as an...**



## SPORT SOLAR - The Walk-On Solar Absorber



...as ice rink with triple benefit:

If you plan and organize sporting events and are looking for an exceptional product, SPORT SOLAR offers you all-seasons utilization – in summer as multi-functional sports ground with additional solar absorber capacity - and in winter as an ice rink with the two-circuit-system without environmental risky substances.

Increase the rentability of your system with SOLKAV and SPORT SOLAR not only through multiple use but also with simultaneous usage for

- heating
- hot water heating
- cooling and
- swimming pool heating

Based on a precise investigation of the total energy requirement and the individual use of SOLKAV absorber technologies – tried and tested – in connection with heat pump/refrigeration units and integrated SOLKAV heating management controllers can achieve amortization periods as low as 3.5 years with an optimized exploitation of available energy.

More than 10.000 systems have been installed according to the SOLKAV principle in the last 20 years !



### Material characteristics

The solar absorbers are made of Ethylene-Propylene-Diene-Monomere (EPDM), a high-grade vulcanized synthetic caoutchouc with right-angled sealing tracks. The result is a certified collector efficiency of  $\eta_{0}$  81.1 % according to ÖNORM M7720

### Principle

The heat-transfer medium - water or a mixture of water and glycol - flows through absorber tubes, in the two-circuit systems in opposite direction. The stored heat can be used either directly (swimming pool heating) or indirectly (heat pump).

### Monthly net heat yield

average monthly earnings (kWh/m <sup>2</sup> ) and temperatures (°C) of the absorbers for a place in middle Europe												
Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	total
8	10	14	20	38	52	68	64	28	13	10	6	332
2°	8°	15°	20°	26°	34°	36°	33°	23°	13°	7°	2°	-
												kWh/m <sup>2</sup>
												°C

### Installation

The absorber mats are glued to the supporting surface. The space between the tubes will be filled with a precisely mixed adhesive-granule mixture. Finally bonding agent will be applied and the colour-giving granule sprinkled. Installation will be realized by trained SOLKAV-staff or authorized partner.

### Hygiene characteristics

For the DIN 51907 categories A+B+C appropriate non-slip characteristics for barefoot usage are given. SPORT SOLAR fulfils all the physical and chemical criteria of the hygiene-technical requirements of the Federal Health Authority (Bundesgesundheitsamt). Cleaning requires only clear water (hose), disinfectant if necessary, but no detergents.

