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PRODUITS OU MACHINES

Alanod-Solar GmbH & Co. KG – EFFICIENCY. SOLAR. SURFACES. Surface treatment par excellence As a wholly own subsidiary of ALANOD®, Alanod-Solar® benefits from more than 30 years of experience in the production of surface finished aluminium and copper strips. This expertise enables Alanod-Solar to focus with its products on the environmentally friendly generation of solar energy. On four vacuum coating systems (PVD), selective absorbing or highly reflective coating systems are produced in an air-to-air process. An existing global sales network ensures tailor-made, on-site advice and support. Whichever world wide market you are in, we have on hand the resources and logistics to look after your specific needs. Solar reflection With our reflecting surfaces, we offer various materials with a total solar reflectance ranging between 85% and 95%. Thanks to a weather-resistant nano-composite layer, MIRO-SUN® is an ideal material for outdoor applications. This is used in CPC reflectors (CPC= Compound Parabolic Concentrator), evacuated tube collectors and parabolic trough concentrators (CSP = Concentrated Solar Power). In addition, MIRO-SUN® can also be used as a concentrating reflector material for photovoltaic applications (CPV = Concentrated Photovoltaics). The nine different products in the portfolio enables Alanod-Solar to offer an ideal component for every possible application. Solar absorption sunselect®, mirotherm® and mirosol® are the three selective absorber coating systems for solar collectors. These coating systems are continuously vaporised in a PVD procedure as part of the air-to-air process. This achieves 95% absorption and, at the same time, a low emission of not more than 5%. All the absorbing products are used in a diverse range of solar-thermal collectors. Mostly copper or aluminium tubes are welded to the rear side of the absorbers to conduct heat, whereby laser welding has become established as the optimum technology for joining together both identical and contrasting metals. This method ensures that the joints achieve not only long-term mechanical stability but also excellent thermal conductivity. Global player Our top quality products are now sold, processed and installed by our partner companies on all five continents. We are the world's first company to have reached the milestone of having sold more than 10 million square metres of absorber surface area. Furthermore, we have an integrated and certified quality and environmental management system according to DIN EN ISO 9001: 2000 and 14001: 2005. Product advantages – absorption: • 10 - year material warranty • selective coating system ensures maximum absorption and lowest emission • all standard joining technologies can be used • protective film or paper interleaving available upon request • CO2 savings per sqm: 100 kg / year compared to natural gas 130 kg / year compared to heating oil • > 10 Mio sqm supplied and installed worldwide • More than 1 Mio tons CO2 savings annually • state-of-the-art continual in-line measurement processes guarantee maximum quality standards • environmentally friendly / emission-free manufacturing process • low energy balance Applications: • flat plate collectors • air collectors • evacuated tube collectors Product advantages – reflection: • 10 - year material warranty • weather resistant thanks to nano-composite layer • optimised, maximum solar reflection • UV - resistant • heat resistant • easy to clean • formable • flexible • scratchproof • no delamination • low energy balance • environmentally friendly / emission - free manufacturing process Applications: • evacuated tube collectors (CPC Compound Parabolic Concentrator) • parabolic trough power plants (CSP Concentrated Solar Power) • photovoltaics (CPV Concentrated Photovoltaics) • solar cookers • heliostats

Company Profile of **Alanod-Solar GmbH & Co. KG**

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