



HIGH PERFORMANCE SOLAR SECONDARY REFLECTORS

Designed to maximize long term output from your Fresnel or parabolic based secondary solar thermal system, ALMECO's **vega HT** and **vega TS** products can be supplied to suit your installation in sheet form or as finished reflector components made to your design. Using specially developed versions of the vega WR solar reflector product range they offer a combination of high reflectance and temperature resistance to provide maintained performance over the life of the plant. They represent a further step in Almecco's commitment to developing products for solar energy applications.

vega energy HT

The use of insulated thermal collector tubes leads to high heat build-up in the secondary reflector concentrating unit and this demands a material with special properties designed to work well in that environment. HT stand for High Temperature and the **vega HT** product is designed to give maintained reflectance at continuous operating temperatures of up to 250°. The use of a special protection layer surmounting the high reflectance vega optical layer system greatly reduces degradation of the reflector surface and allows high reflectance to be maintained over the long life of a solar installation.

vega energy TS

As absorber tube temperatures are driven upwards to increase process efficiency the demands on the reflector become higher. Almecco has developed a new coating system specifically designed to overcome the temperature limitations which even **vega HT** faces. Known as **vega TS** (thermally Stable), it is a modified layer stack which reduces high temperatures reflectance loss to a minimum. Accelerated testing of the new product at temperatures up to 500°C has shown that at a working temperature of about 300° the **vega HT** product will shine, and shine on.

Product	Total visible reflectance [%]	Total solar reflectance [%]	Max operating temperature [°C]
VSP 295	> 95	> 93	Not developed for this application
VHT 193	> 93	> 91	250
VTS 193	> 91	> 90	300

13.05.2013