Concentrated Solar Power: No Breakage Issue for Untempered Solar Mirrors

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Field tests from the project „Nevada Solar One" indicate a breakage rate of 0.027% for FLABEG's solar mirrors: In the course of three years only 50 needed to be replaced from a total 183.400 installed mirrors. This erases the erroneous fact that tempered glass is necessary to mitigate breakage. However, there are no commercially available mirrors for parabolic troughs that are able to match the precision of curvature that FLABEG manufactures.

FLABEG redefines mirror bending precision by achieving FDx≤10 mm (measured by DLR). This

is equivalent to a hit rate of 99.95% (focal line d=70mm). With this quality parameter FLABEG has achieved a unique standard of excellence and technical preeminence.

FLABEG's parabolic mirrors are produced by a special sag-bending process, which results in the highest possible degree of precision. On the other hand, tempered glass can only be press bent, which does not allow to come to the same outstanding precision of bending as the sag bending process can provide.

FLABEG, founded in 1882, is an independent company with manufacturing facilities in Europe, America and Asia. FLABEG is active in the commercial sectors of automotive mirrors, solar glass mirrors and technical glass, specializing in all processes of glass finishing, and sets technological standard in terms of the company's core competencies - bending and coating.

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