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## Solar energy — Collector fields — Check of performance

*Energie solaire — Champs de capteurs — Vérification de la  
performance*



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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 180, *Solar energy*, Subcommittee SC 4, *Systems - Thermal performance, reliability and durability*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 312, *Thermal solar systems and components*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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## Introduction

This document specifies procedures for checking the performance of solar thermal collector fields. Measured performance is compared with calculated performance - and conditions for conformity are given.

Three levels for accuracy in the checking can be chosen:

- Level I - giving possibility for giving a very accurate estimate (with low safety retention, e.g.  $f_{\text{safe}} = 0,95$ ) - but with requirements for use of expensive measurement equipment.
- Level II/III - allowing for a less accurate estimate (with higher safety retention, e.g.  $f_{\text{safe}} = 0,90$ ) - but possibility to use less expensive measurement equipment.