

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC 60350-1 Edition 2.0 2016-04

HOUSEHOLD ELECTRIC COOKING APPLIANCES –

Part 1: Ranges, ovens, steam ovens and grills – Methods for measuring performance

INTERPRETATION SHEET 1

This interpretation sheet has been prepared by subcommittee 59K: Performance of household and similar electrical cooking appliances, of IEC technical committee 59: Performance of household and similar electrical appliances.

The text of this interpretation sheet is based on the following documents:

DISH	Report on voting
59K/322/DISH	59K/325/RVDISH

Full information on the voting for the approval of this interpretation sheet can be found in the report on voting indicated in the above table.

SC 59K interpretation sheet on: Volume measurement in IEC 60350-1:2016

Rationale

When measuring the oven volume in accordance with IEC 60350-1:2016, 6.2, the wording in the standard leaves room for interpretation as to how to proceed with side grids in the oven. In many regions, the volume is used to calculate an energy efficiency index, which always raises the question as to what extent the measurement with and without side grids leads to different statements on energy efficiency.

This document clarifies how to interpret 6.2 of IEC 60350-1:2016 in order to achieve a clearer approach.

Question

According to IEC 60350-1:2016, 6.2, removable items, e.g. the side grids, shall be removed to measure the volume if this is indicated in the user manual. The question that arises is to ascertain when this condition is met, and when the measurement is performed without side grids.

Answer

The usable width of the oven is measured in accordance with 6.2.3 from the left side wall of the cavity to the right side wall of the cavity. In accordance with 6.2.1, parts, such as side grids, shall be removed before the measurement if they are removable and if they are not necessary for any intended operation, in accordance with the user manual.

As a result, side grids shall be removed if:

- 1) the user manual describes the removal of side grids (the extent of the description and the assignment to a chapter is not defined);
- 2) the user manual describes any application for which the removable parts are not required (= intended operation). This is the case when an application on the bottom of the cavity without the use of side grids is given as an example. The number of applications as well as the type of application (heating type, temperature, minor relevance, preheated operation) are not specified in 6.2.1 and are, therefore, irrelevant.