

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): GPWX
Standard Number: UL 507
Standard Title: Standard for Electric Fans
Edition Date: December 13, 1999
Edition Number: 9
Section / Paragraph Reference:
Subject: UL 507 Rangehood with ceiling-mounted luminaire.

DECISION:

(Existing requirements)

91.8 Light assemblies

91.8.1 An appliance intended for use in a cooking area and employing a light shall comply with the applicable requirements of this standard and with the applicable requirements in the Standard for Luminaires, UL 1598.

91.9 Glass rangehood surfaces

91.9.1 Edges of glass accessible during normal use or maintenance shall be seamed, swiped, fire-polished, or similarly treated to eliminate sharpness.

91.9.2 Glass shall be reliably secured so that it cannot be readily displaced during normal use and shall not be less than 0.115 inch (2.92 mm) thick.

91.9.3 With reference to 91.9.2, glass, having a dimension, including a diagonal, more than 12 inches (305 mm) shall be a non-shattering or tempered type:

- a) That complies with the requirements in the Standard for Performance Specifications and Methods of Test for Safety Glazing Materials Used in Buildings, ANSI Z97.1, Class A, or
- b) Shall comply with the tempered glass impact test of 92.8.

(New)

91.10 For a rangehood that is ceiling mounted and moves down toward the cooking surface when in use, and includes a luminaire that is ceiling mounted and does not move with the rangehood, a glass lens or glass shade that is intended for installation at 40 inches or higher above the cooking surface may comply with the following requirements instead of UL 507, 91.9.2-91.9.3:

a. The glass shall comply with clauses 5.16.1 through 5.16.2.3 of UL 1598: and

Exception: Tempered glass having exposed area greater than 3226 cm² (500 in²) can have 2.92 mm (0.115 inch) minimum thickness

b. Untempered glass shall comply with clause 12.3.3.2, Thermal shock, of UL 1598: and

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c. Instructions for mounting height per 93A.7.

93A.7 For rangehood luminaires per 91.10, the installation instructions of the luminaire portion shall include a statement indicating 40 inches minimum clearance between the cooking surface and the bottom part of the lens or glass shade.

RATIONALE FOR DECISION:

UL 507 covers rangehoods, and has a specific requirement that addresses light/luminaire assemblies in Section 91.8.

A construction not anticipated by UL 507 is a rangehood that is capable of being raised and lowered from the ceiling surface, and provided with a luminaire module that is intended to be permanently mounted to the ceiling above the rangehood. The present requirements in UL 507 and referenced in UL 1598 address a luminaire/light when an integral part of the rangehood intended to be near the cooking surface, but UL 507 rangehood requirements did not anticipate this type of construction for a ceiling mounted luminaire “module” that is sold with the rangehood and intended to be installed and wired together in the field, yet mounted separately from the rangehood.

When the luminaire portion is ceiling mounted, the operating environment is not as severe as would be at the bottom of a rangehood in close proximity to the cooking surface. Based on this particular type of installation, the risk and potential hazards are to be addressed with a combination of the relevant requirements from UL 507 and UL 1598, with greater allowance for constructions that would be permitted under UL 1598 for a luminaire that was sold separately and intended for mounting in a residential kitchen area. These requirements in this CRD address the specific construction with consideration of the associated risks based on the installation location of each “module” provided with the rangehood.

These requirements represent present practice.

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