

STANDARD INFORMATION

Amendment 1: Clause 31.4 was inadvertently missed in the original SUN. See added clause in [blue text](#) on page 5 below.

Standard Number: UL 962

Standard Name: Household and Commercial Furnishings

Standard Edition and Issue Date: 4th Edition dated November 7, 2014

Date of Revision: May 6, 2019

Date of Previous Revision of Standard: July 7, 2017

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **May 6, 2021**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes:

- Revision of requirements for Class 2 circuits, materials in direct contact with live parts, unassembled furnishing instructions, and entrapment and new requirements for furnishings shipped as sub-assemblies.

Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
3	Info	Components <i>New clause added;</i>
3.10		Wireless charging pad shall comply with the Standard for Induction Power Transmitters and Receivers for Use with Low Energy Products, UL 2738.
6	Info	Assembly <i>New clause added;</i>
6.2.1		Furnishings shipped unassembled from different manufacturing locations to the field for assembly shall be constructed so that each sub-assembly is incorporated into the final assembly without requiring alteration by the installer. Subassemblies that must bear a definite relationship to each other for the intended operation of the product shall be arranged and constructed to permit them to be incorporated into the complete assembly only in the correct relationship with each other, without requiring alteration or realignment. See Section 73A for Instructions.
10	Info	Frame and Enclosure <i>New section added;</i>
		Personal Injury, Entrapment, Pinch Points, and Shear Considerations
10.1A		When the operation and maintenance of a furnishing by the user or bystanders involves the risk of injury to persons, protection shall be provided to reduce the risk. All moving parts shall be made inaccessible by guards or bellows, or, if accessible, not present any risk of injury (see standard for details).
10.2	Info	Mechanical enclosures and guards – Mechanical considerations <i>New clause added;</i>
		Bellows shall:
10.2.2		a) Require the use of tools for their removal; b) Be removable for servicing; c) Have sufficient strength and rigidity to avoid the articulate probe with web stop (Figure 12.1) from being inserted to a depth that causes entrapment or damages the guard, when pressed with a force of 10 lbs (44.5 N); and d) Be complete so that there are no opens that would allow an appendage to enter, such as an arm for leg. See Table 10.1A.1.



CLAUSE	VERDICT	COMMENT
10.2.5		<p>A moving part, lifting or reclining mechanism, the rotor of a motor, a pulley, belt, gear, fan, or other part that constitutes a risk of injury shall be enclosed or provided with means to reduce the risk of injury. Such a part shall not be able to be contacted by the user or someone in the area. Compliance shall be determined by the probe illustrated in Figure 12.1 unless the furnishing is provided with a safety system and complies with 10.2.6. <u>A force greater than 40 pounds between a moving part and any object that can be entrapped by the moving part is considered a hazard. The furnishing shall be subjected to the Entrapment Force Measurement Test, Section 45, if there is a possibility that the force may be less than 40 lb. When using the probe to determine if a potential entrapment area can be reached, there are several items to be considered:</u></p> <p><u>a) If the entrapment area beyond the distances specified in Table 10.1A.2;</u> <u>b) That children may go into places that an adult would not, such as crawling on the floor; and</u> <u>c) The probe should be adjusted in any position that it can be manipulated along with the probe users arm.</u></p>
10.4	Info	Electrical enclosures of polymeric material
10.4.1		<p>A polymeric material enclosure of electrical parts shall comply with the requirements in the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C, as applicable to polymeric enclosures. <u>For Damp Locations, the Resistance to Impact Test of the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C, preconditioning shall be at a temperature of 0 ±2.0°C (32 ±3.6°F). For wet locations, the UV Light Exposure and Cold Impact Test of the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C, preconditioning shall be at a temperature of minus 35.0 ±2.0°C (minus 31.0 ±3.6°F).</u></p>
17	Info	Internal Wiring
17.1	Info	Conductors
		<i>New clause added;</i>
17.1.12		<p>Class 2 or LPS wiring not contained within a metal or polymeric enclosure that is intended to be routed within a furnishing shall be of a type suitable for the application (e.g. CL2, CL2P, CL3, CL3P, CL3R, CM, CMP, CMR, or PLTC) or other jacketed type cord with a minimum 0.013 inch (0.33 mm) jacket thickness).</p>



CLAUSE	VERDICT	COMMENT
28	Info	Commercial Operator Attended Products – Usage Area II
		A commercial furnishing that requires the operator to be present to perform the intended function complies with Mechanical enclosures and guards – Mechanical considerations, 10.2, Enclosure and Guard requirements when all of the following conditions are met: a) A furnishing that is accessible to the public when the trained operator is not present shall be provided with a security lockout device that disables operation of the furnishing to prevent nonqualified persons from operating the furnishing; <u>1) A trained operator is considered present when they are within sight of the furnishing and are within 20 feet (6.1 meter) of the furnishing.</u> <u>2) The lockout device may be a passcode, proximity sensor that requires a unique sensor to activate (such as RFID), a physical key, a two-step process (such as pressing 2 keys in the correct order, or other means that would prevent an untrained person from operating the furnishing.</u> <u>3) Where multiple furnishings are located within the same space and a proximity activation device is used as the access to allow movement of the furnishing, each furnishing shall have a separate code or equivalent restriction to allow movement of only the intended furnishing within the specified proximity.</u> <u>4) A lockout (electronic or mechanical) system shall automatically reset and lockout the movement of the furnishing after a maximum of 2 minutes of inactivity. Inactivity is when the operator is no longer present.</u>
28.3		<i>New clause added;</i> A product covered by this section shall have the marking specified in 68.4.
28A	Info	Commercial Operator Attended Products – Usage Area III
		<i>New clause added;</i> Furnishings in Usage Area III shall comply with Commercial Operator Attended Products – Usage Area II, Section 28, with the following differences:
28A.1		a) A security lockout is not necessary; b) The switch referred to in 28.1(c) may be a memory type switch that allows the furnishing to adjust to a preset position when the operator is present at the control on the furnishing; and c) Shall have the marking specified in 68.5.



CLAUSE	VERDICT	COMMENT												
31	Info	Furniture Flammability <i>New clause added;</i> Polymeric or similar material used in the construction of a furnishing shall have a minimum flammability classification of HB. The flammability classification is to be determined by tests described in the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 94. A material classified using 1/8-inch (3.2-mm) thick bar specimens is able to be employed in thicknesses less than 1/8 inch in the cart, stand or entertainment center.												
31.4		Exception: The following materials are exempt from the requirements of 31.4.1: a) Wheels, casters, and caster inserts. b) External accessories that are not permanently attached to the furnishing, such as a screwdriver, container of lubricating oil, and similar accessories. c) Small parts that satisfy all of the following: 1) The maximum volume does not exceed 0.122 inch ³ (2 cm ³); and 2) The maximum dimension does not exceed 1.18 inches (3 cm). d) Polymeric material 0.010 inch (0.254 mm) thick or less.												
32A		Electrical Insulation in Direct and Indirect Contact of Live Parts This section contains requirements for electrical insulation in direct and indirect contact of live parts (see standard for details).												
36	Info	Structural Test Requirements for Furnishings												
36.1	Info	General Loading Horizontal surface loading requirements												
Table 36.1		<table border="1"> <thead> <tr> <th>Surface type</th> <th>Surface size</th> <th>Functional load</th> <th>Proof load</th> </tr> </thead> <tbody> <tr> <td>Work Surface Note (1)</td> <td>Unit Width</td> <td>4.7 lbs/in of width or 200 lbs whichever is greater or as specified in (c). <u>For height adjustable desks load as specified in the user instructions.</u></td> <td>7 lbs/in of width or 300 lbs <u>or for height adjustable desks 1.5x load as specified in the user instructions</u>, whichever is greater; or as specified in (d)</td> </tr> <tr> <td>Note (1):</td> <td colspan="3">A furnishing that has a circular or irregular shaped surface if determined to be less stable in a partially loaded condition shall be loaded along 1/3 the perimeter edge.</td> </tr> </tbody> </table>	Surface type	Surface size	Functional load	Proof load	Work Surface Note (1)	Unit Width	4.7 lbs/in of width or 200 lbs whichever is greater or as specified in (c). <u>For height adjustable desks load as specified in the user instructions.</u>	7 lbs/in of width or 300 lbs <u>or for height adjustable desks 1.5x load as specified in the user instructions</u> , whichever is greater; or as specified in (d)	Note (1):	A furnishing that has a circular or irregular shaped surface if determined to be less stable in a partially loaded condition shall be loaded along 1/3 the perimeter edge.		
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52	Info	Temperature Test												
52.1	Info	General <i>New clause added;</i>												
52.1.2.1		Material provided for direct or indirect contact with live parts and any electrical insulating barrier shall be suitable for continuous operation at the maximum temperature measured on the material.												



CLAUSE	VERDICT	COMMENT
	Info	MARKINGS
67	Info	General <i>New clause added;</i>
67.2.1		A unit intended for dry locations only shall not be provided with any information such as markings, instructions, or illustrations that implies or depicts damp or wet use. <i>New clause added;</i>
67.2.2		A unit intended for damp locations only may be marked as suitable for damp locations and shall not be provided with any information such as markings, instructions, or illustrations that implies or depicts wet use. <i>New clause added;</i>
67.36		Furnishings shipped unassembled shall be marked “WARNING”, “Risk of Electric Shock, Fire, and Injury”, “Review the assembly instructions to confirm that the appropriate critical components and accessories are being used with the furnishing.” or equivalent wording.
68	Info	Motor-Operated Furnishings <i>New clause added;</i>
68.4		Usage Area II furnishings shall be marked “WARNING”, “RISK OF INJURY”, “Not to be used in locations where children, or people with cognitive disabilities are anticipated to be present and not supervised”. The marking shall be located where visible during or after assembly. <i>New clause added;</i>
68.5		Usage Area III furnishings shall be marked “WARNING”, “RISK OF INJURY”, “Not to be used in locations where children, or people with cognitive disabilities are anticipated to be present”. The marking shall be located where visible during or after assembly. <i>New section added;</i>
71A		Sub-Assembly Markings The marking requirements for sub-assemblies are supplementary to the other applicable requirements in this standard and apply to furnishings marked as subassemblies (see standard for details).



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
72A		Assembly Instructions This section contains requirements for assembly instructions (see standard for details).
		<i>New section added;</i>
73A		Instructions for Sub-Assemblies The instruction requirements for sub-assemblies are supplementary to the other applicable requirements in this standard and apply to furnishings marked as subassemblies (see standard for details).
74	Info	Instructions Pertaining to a Risk of Fire, Electric Shock, or Injury to Persons The instructions required by Section 72, General, shall include the items in the following list, as applicable, and any other instructions that the company determines are required for the furnishing. The statement "Read all instructions before using" shall precede the list of items following the word "DANGER." The items are able to be numbered.
		IMPORTANT SAFETY INSTRUCTIONS
74.5		When using an electrical furnishing, basic precautions should always be followed, including the following: Read all instructions before using (this furnishing). DANGER – To reduce the risk of electric shock: 1. Always unplug this furnishing from the electrical outlet before cleaning <u>or servicing</u> . WARNING – To reduce the risk of burns, fire, electric shock, or injury to persons: <u>16. Mount furnishings at the correct height.</u>
		<i>New clause added;</i>
74.7		Furnishings that are shipped disassembled shall be provided with "WARNING", "Risk of Electric Shock, Fire, and Injury", "Review the assembly instructions to confirm that the appropriate critical components and accessories are being used with the furnishing."



CLAUSE	VERDICT	COMMENT
79	Info	Operator Attended Products Instructions – Usage Area II & III
		<i>New clause added;</i>
79.3		Specific areas of potential entrapment shall be specified and illustrated in the instructions.
		<i>New clause added;</i>
79.4		For Usage Area III, instructions shall describe that children, or people with cognitive disabilities are not anticipated to be present or if present, closely supervised.
Supplement SA	Info	CLASS 2, LPS or SELV MOTOR AND HEATING CIRCUITS IN FURNISHINGS
SA7	Info	Connectors
		<i>New clause added;</i>
SA7.2		A unit with multiple Class 2 / LPS supply or load connections where interconnection could cumulatively exceed Class 2 / LPS limits shall be provided with means that prohibit such interconnection.
		<i>New section added;</i>
SA11		Circuit Power Limit Measurement Test
		This section contains requirements for the circuit power limit measurement test (see standard for details).
CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.		