


PROTOCOL # 914-5

LED Rug

Performance Test	Test Method	Requirement
Initial Package		
Label Verification		
Label Review	Care Labeling 16 CFR 423 16 CFR 300/ 19 CFR 134 Textile Fiber Products Identification Act 16 CFR 303 Wool Products Labeling Act	Verify Information on TRF matches the label Fiber content, Care, Country of Origin, Manufacturers Registration Number, Wool Products Registration Number must meet Federal Standards If labeling or packaging is not attached to product, artwork must be provided
Adult Tracking Label: <i>**If space limitations exist, contact Kohl's Quality Assurance & Product Integrity teams to discuss minimum required information (quality.assurance@kohls.com)**</i>	Kohl's Requirement	TO BE MARKED AS PASS/FAIL Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #
Tracking Label: Children's product: ALL ages	Consumer Product Safety Improvement Act of 2008 (CPSIA) SEC. 103	Refer to Kohl's Tracking Label Section in the Labeling Guideline Policy. Following information must be provided: Retailer's Name (Kohl's) Style Number/Name Factory Number Date (Month/Year)
Packaging Review Actual packaging or artwork must be provided	FPLA/ UPLR 16 CFR 500 & 19 CFR 134	Should be legibly marked with the following information and verified: -Distributor's name, trademark or other means of identification of the manufacturer or packer and address (City, State, Zip) -Product identification - Net quantity of the contents in terms of weight, measure or numerical count (metric & US standard) or a combination so as to give accurate information and facilitate value comparison by the consumer (if applicable) -Country of origin (if imported) -Product Size (if applicable) Refer to Kohl's FPLA/ UPLR guideline
Import Permit (For Natural Materials Only)	US Department of Agriculture Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ)	Product shall not have prohibited materials present per US Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ) Documentation and/ or proper permit(s) for specific product shall be supplied along with Testing Request form and samples. Permit information may be found at: https://www.aphis.usda.gov/wps/portal/aphis/home/ It is the vendor's responsibility for the compliance to relevant requirements.
FCC Labeling & Instructions	FCC Rules	Shall comply with the applicable requirements of FCC rules if regulated.
FCC part 15 rules	Document Check	FCC part 15 report shall be provided for verification if the operating frequency > 9kHz for AC, or operating frequency > 1.705MHz for Battery operated product.

FCC Part 15 marking and instruction	Visual Check	<p>Marking shall include, Model number “This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.” Instruction manual shall include “Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.” “NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.</p> <p>However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.”</p>
Battery Warning Statement	Visual Check	<p>The following statement either in the instructions or marked on the device (required only for devices which use more than one battery in one circuit) - Do not mix old and new batteries; - Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd, Ni-MH, etc) batteries.</p>
Battery Compartment Marking	Visual Check	<p>Battery compartment have replacement pictorials or markings providing the following information: (as applicable) - Number of batteries - Size / Type of batteries - Polarity orientation</p>
Rechargeable Batteries (If Applicable)	Battery Act	<p>Rechargeable cell batteries must be labeled</p>  <p>Nickel-Cadmium Batteries Must Be Labeled “Nickel-Cadmium” or “Ni-Cd,” with the phrase “BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.” Regulated Lead-Acid Batteries Must Be Labeled “Pb” or with words “LEAD,” “RETURN”, and “RECYCLE” and if the regulated batteries are sealed, the phrase “BATTERY MUST BE RECYCLED.” Non Removable Regulated Lead-Acid Batteries Must Be Labeled With the Phrase “CONTAINS SEALED LEAD BATTERY. BATTERY MUST BE RECYCLED.”</p>
Lithium cells and batteries	49 CFR. 173.185 (a)	Each lithium cell or battery must be of the type proven to meet the criteria in Part III, sub-section 38.3 of the UN Manual of Test and Criteria.
Marking on the outside case of lithium ion battery	49 CFR. 173.185 ©	Each lithium ion battery subject to this provision must be marked with the Watt-hour rating on the outside case.

US PL 104-142 Mercury in Batteries	Battery Act, Public Law 104-142	Alkaline-manganese batteries, alkalinemanganese button cell batteries, zinc-carbon batteries, mercuric-oxide button cell batteries shall conform to respective requirements
*Reese's Law Supplemental Protocol	Refer to Protocol 1700	All samples shall be reviewed against the requirements of Reese's Supplement Protocol to determine if additional testing or labeling is required
Physical Properties		
Fiber Content	AATCC 20/ 20A Wool Products Labeling Act	One Fiber Only: No Tolerance Two or More Fibers: +/- 3% max deviation from contracted fiber content Functional Fibers i.e. Spandex: +/- 2% max deviation from contracted fiber content
Product Weight	Kohl's TM-8	Report Actual Data – (grams per square foot)
Product Size	Kohl's TM-8	If claimed on packaging: +3% max -0% min If not claimed on packaging: Report Actual
Yarn size	ASTM D 1059	± 5% max deviation from contracted yarn size
Flammability <i>(small rugs with surface area less than 24 sq.ft)</i>	16 CFR 1631	Report Data, If test results fail must be labeled appropriately (Refer to Kohl's Labeling Guideline Policy) Flammable (Fails U.S. Department of Commerce Standard FF-2-70): Should not be used near sources of ignition
Flammability <i>(rugs larger than 6 feet)</i>	16 CFR 1630	Must Comply with Sec. 1630.3
Drop test	Actual Use	Sample is to be dropped from a height of 1m onto a horizontal concrete surface for 3 times. After the test, the unit shall function as intended and no visual defect occurs.
Batteries	Visual Check	Report the batteries quantities, size, included or not; Shall meet the claim (if applicable)
Number of bulbs/LED	Visual Check	The number of LED shall be recorded; it shall meet claims (If applicable).
LED Color	Visual Check	The color of LED (including change color) ;it shall meet claims (If applicable).
Analytical		
Perfluoroalkyl or Polyfluoroalkyl Substances (PFAS)	CA Safe Consumer Products Regulation Carpets and Rugs Containing Perfluoroalkyl or Polyfluoroalkyl Substances Document Review	Vendor is to provide letter of guarantee indicating that the product contains no PFAS
Formaldehyde - Adults & children over 5T	Kohl's TM-5 JIS L 1041:2011- Sec. 8.1.3 & 8.1.4 Method A or B	Negative, If Spot Test is Positive/ inconclusive, proceed with step 2 Children over 5T & Adults = 75 ppm max.
Formaldehyde - Children's 0-5T	JIS L 1041:2011- Sec. 8.1.3 & 8.1.4 Method A or B	Children 0-5T = 20 ppm max.
pH Value	AATCC 81	All Colorways 5.0 - 8.0 (No tolerance)
CA Prop 65* (if applicable)	Refer to protocol 1300	All samples shall be reviewed against the requirements of California Prop 65
Attachment Strength 0-5T* Applies to ALL trims No fragile trims allowed	16 CFR 1500.51-53 Pt. F (Saf Q)	0-5T: No detachment at 17lbs for 10 seconds (no exceptions) **Must test in original state, after 1 wash, and after 5 washes

Tech Pack Verification* (Needs to be provided - Lab HOLD if not provided) (please reach out to Kohl's PI if tech pack unavailable)	Visual Check	Verify all claims mentioned in Tech Pack file
Softlines Regulatory Supplemental Protocol	Refer to Protocol 501	All samples shall be reviewed against the requirements of the Softlines Regulatory Supplemental Protocol to determine if additional testing or labeling is required.
Performance Claims for Home Textile Products (1000)	Refer to Protocol 1000	All samples shall be reviewed against the requirements of the Performance Claims for Home Textile Products Protocol to determine if additional testing or labeling is required
Dimensional Change		
Dimensional Change to Home Laundering, Professional Clean	AATCC 150 (after 3 washes) / AATCC 158 (1 cycle) Tide ® Powder Detergent	Tier 1
		All fabrics (except listed below) -8% max
		Tufted Latex -4% max
		Growth 2% max
		Tier 2: Use same requirements as Tier 1, evaluate after 3 and 5 washes or 1 dry clean
Appearance Retention	AATCC/ASTM TS-008 Modified Tide ® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements
Appearance Retention to Spot Clean	Kohl's TM-9	Must meet all applicable Kohl's Appearance Evaluation Requirements
Kohl's Durability Evaluation	Kohl's Durability Evaluation Tide ® Powder Detergent	Must meet all applicable Kohl's Durability Evaluation Requirements. Ultimate Performance & Memory foam: 10 washes All others: 5 washes
Colorfastness		
Colorfastness to Water	AATCC 107	Shade Change Grade 4 min. Self-Staining Grade 4 min. Staining Grade 4 min.
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change - Grade 4 min
Colorfastness to Crocking	AATCC 8/116	<u>All fabrics/ dyes (except listed below):</u> <u>Dry - Grade 4 min</u> <u>Wet - Grade 3 min</u> <u>Pigment Dyed/ Printed, Direct Dye, Vat Dye, Sulfur, Lightly Brushed, Piled, Indigo:</u> <u>Dry - Grade 3.5 min</u> <u>Wet - Grade 2 min</u>
Performance		
Rug Back Staining on Vinyl Tile	AATCC 137	Staining Grade 4 min.
Skid Resistance on Vinyl Tile (latex backing only AND/OR Slip Resistance Performance Claim)	ASTM F 609-05 – Modified 50 lb load	Coefficient of Friction 0.4 min.
Sound level	Actual Use	Report the sound level 3 feet away from the unit. The minimum safety alarms shall not be less than 110 dB. The maximum wake-up alarms shall not be less than 80 dB.
Noises	Actual Use	Shall not have obvious abnormal noises.
Accuracy	Actual use	Shall meet the claim.
Charging time	Actual Use	Report the actual time. Shall not exceed the claim, if any
Service time of rechargeable product	Actual Use	Measure the actual time under a normal operation condition. Report the time and the testing condition. The time shall not be less than the claim, if any.
Endurance of control devices	Actual Use	No obvious performance degradation after 100 cycles of operations. 1460 cycles for main switch.

Battery reverse test	Actual use	Reversing battery orientation shall not damage the unit.
Button Endurance	Actual use	No malfunction after 200 times of operation.
Effects Of Extreme Temperature (Environmental)	Kohl's TM 30	Tier 1 : 24 Hours @ 30° F (1.1°C) and 24 Hours @ 100° F (37.7°C) - no failure. Tier 2 : 24 Hours @ 0° F (-18°C) and 24 Hours @ 120° F (49°C) - no failure. Tier 3 : 48 Hours @ 0° F (-18°C) and 48 Hours @ 120° F (49°C) - no failure.
STANDING WATER IMMERSION TEST	Actual use	Controller or any other enclosure intended for ground supported, withstands without water penetrating into the interior space, a one time 4 hour submersion in 1 foot of water.
Water Resistance-Rain Test (Outdoor Use item)	AATCC 35	Max. 1 gm water penetration at 2 ft for 2 min.
Sound/music function check	Actual use	Check the Sound/music function ACCEPTANCE CRITERION: a. Sound/music function is same as description and claim. b. Record the Sound/music quantity
Sensor function check	Actual use	Check the sensor function ACCEPTANCE CRITERION: Sensor function is same as description and claim
Switch (on-off switch, try me or other switch)	Actual Use	Shall be functional after the below number of times of operation. Tier 1 100 times Tier 2 150 times
Reverse Battery Test	Actual Use	Reverse insertion of battery for 1 hour. There shall not be any emission of fire, chemical leakage and explosion of battery. Unit shall operate normally after this test.
Flammability (rugs larger than 6 feet)	16 CFR 1630	Must Comply with Sec. 1630.3
Appearance Retention	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements
Appearance Retention to Spot Clean	Kohl's TM-9	Must meet all applicable Kohl's Appearance Evaluation Requirements
Formaldehyde – Adults & children over 5T	Kohl's TM-5	Negative, If Spot Test is Positive/inconclusive, proceed with step 2
pH value	AATCC 81	All colorways: 5.0-8.0 (No Tolerance)
Formaldehyde - Children's 0-5T	JIS L 1041:2011 – Sec. 8.1.3 & 8.1.4 Method A or B	Children's 0-5T = 20 ppm max.
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change Grade 4 min.
Colorfastness to Crocking	AATCC 8/116	<u>All fabrics/dyes (except listed below):</u> Dry - Grade 4 min Wet - Grade 3 min
Colorfastness to Water	AATCC 107	Shade Change Grade 4 min. Self-Staining Grade 4 min. Staining Grade 4 min.
Colorfastness to Light	AATCC 16 (option 3) 20 AFU	Color Change Grade 3.5 min.
Rug Back Staining on Vinyl Tile	AATCC 137	Staining Grade 4 min.
Kohl's Durability Evaluation	Kohl's Durability Evaluation Tide® Powder Detergent	Must meet all applicable Kohl's Durability Evaluation Requirements. Ultimate Performance & Memory foam: 10 washes All others: 5 washes
OPTIONAL TESTING – Required where applicable at additional cost		

<p>Attachment Strength*</p> <p>A) Applies to all Rings/Sliders</p> <p>B) Applies to Buttons, Snaps, Small Parts, Belt Loops, Zipper Tab, etc.</p> <p>C) Over 5T-Adult: Fragile Trims: Beads, Rhinestones, etc</p>	<p>16 CFR 1500.51-53 Pt. F (Saf Q)</p>	<p>A) REQUIREMENT: No detachment at 25 lbs. DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs.</p> <p>B) REQUIREMENT: Over 5T - Adult: No detachment at 17 lbs. for 10 seconds <u>Exceptions:</u> Buttons: 20lbs DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs.</p> <p>C) REQUIREMENT: 5 lbs. for 10 seconds minimum</p>										
<p>Sharp Points & Sharp Edges*</p>	<p>CPSC 16 CFR 1500.48 - 49</p>	<p>No sharp points or sharp edges – Refer to Kohl's Product Safety Policy</p>										
<p>OPTIONAL TESTING - TOXICOLOGY TESTING (required where applicable at additional cost)</p>												
<p>Lead Content in Surface Coating - Scrapeable in each color*</p>	<p>CPSC-CH-E1003-09.1</p>	<p>Children & Adult Products ≤ 90 ppm (0.009% total weight)</p>										
<p>Total Lead in Substrate Material*</p>	<p>CPSC-CH-E1002-08.3/ CPSC-CH-E1001-08.3</p>	<p>Children of ALL ages - Accessible components in each part/ material ≤ 100 ppm (0.010% total weight)</p>										
<p>Phthalates in each plasticized part/material such as PVC, Vinyl *</p>	<p>CPSC-CH-C1001.09.3</p>	<p>Applies to ALL Children's Products ≤ 1000 ppm max (0.1% max total) BBP, DBP, DEHP, DINP, DIDP, DNOP ≤ 1000 ppm max (0.1% max each individual) DCHP, DIBP, DnHP/DHEXP, DPP/DPENP ALL Adult products ≤ 1000 ppm max (0.1% max total) BBP, DBP, DEHP, DINP, DIDP, DNOP ≤ 1000 ppm max (0.1% max each individual) DCHP, DIBP, DnHP/DHEXP, DPP/DPENP</p>										
<p>Soluble Heavy Metals *</p> <p>Applies to Children's Toys</p>	<p>ASTM F963</p>	<p>Children's Toys = Defined as a consumer product designed or intended by the manufacturer for a child, for use by the child when the child plays. Required for children's toys of ALL ages Mercury - 60 ppm Barium - 1000 ppm Antimony - 60 ppm Cadmium - 75 ppm Arsenic - 25 ppm Chromium - 60 ppm Selenium - 500 ppm Lead - 90 ppm</p>										
<p>Lead, Cadmium and Phthalate*</p> <p>Applicable to children product including:</p> <ul style="list-style-type: none"> - Child car seats - Clothing - Cosmetics for children under the age of 12 - Jewelry for children under the age of 12 - Products to help a child with sucking or teething, to facilitate sleep, 	<p><u>Lead and Cadmium</u> EPA SW 846 Method # 3050B/3051 (Mod.) / CPSCCH-E1003-09.1/ CPSC-CHE1002-08.1 / CPSC-CHE1001-08.1</p> <p><u>Phthalate</u> CPSC-CH-C1001-09.3</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Washington Children's Safe Products Act</th> </tr> <tr> <th style="width: 50%; text-align: left;">Substances</th> <th style="width: 50%; text-align: left;">Suggested materials</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>Follow CPSC lead</td> </tr> <tr> <td>Cadmium</td> <td>Follow CPSC lead</td> </tr> <tr> <td>Phthalates</td> <td>Coating and Plasticized materials</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">The Washington standard cannot be enforced for products to which a federal standard applies.</p>	Washington Children's Safe Products Act		Substances	Suggested materials	Lead	Follow CPSC lead	Cadmium	Follow CPSC lead	Phthalates	Coating and Plasticized materials
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Substances	Suggested materials											
Lead	Follow CPSC lead											
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<p>OPTIONAL TESTING - (required where applicable at additional cost)</p>												
<p>Colorfastness to Water* (Color block fabrics & contrast trims)</p>	<p>AATCC 107</p>	<p>Shade Change: Grade 4 min Self Staining: Grade 4 min Staining: Grade 3.5 min</p>										

<p>Attachment Strength*</p> <p>A) Applies to all Rings/Sliders</p> <p>B) Applies to Buttons, Snaps, Small Parts, Belt Loops, Zipper Tab, etc.</p> <p>C) Over 5T-Adult: Fragile Trims: Beads, Rhinestones, etc.</p>	<p>16 CFR 1500.51-53 Pt. F (Saf Q)</p>	<p>A) REQUIREMENT: No detachment at 25 lbs. DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs.</p> <p>B) REQUIREMENT: Over 5T - Adult: No detachment at 17 lbs. for 10 seconds Exceptions: Buttons: 20lbs DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs.</p> <p>C) REQUIREMENT: 5 lbs. for 10 seconds minimum</p>
<p>Sharp Points & Sharp Edges *</p>	<p>CPSC 16 CFR 1500.48 - 49</p>	<p>No sharp points or sharp edges - Refer to Product Safety Policy</p>

(*) asterisk = ALL COLORWAYS MUST BE TESTED

Please consult with Lab for the number of samples.

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION/ APPROVED BY
914-1	1) Initial Launch	December 2021/Charlene Swanson
914-2	1) Added test line for all performance claims	March 2022 / Becky Becker
914-3	Added Softlines Regulatory Supplemental Protocol to be referenced for	Nov 2022 Elizabeth Armstrong
914-4	Added supplemental line for Reese's Law	Oct 2023 Elizabeth Armstrong
915-5	1) Removed year from ASTM F963 2) Updated email address for adult tracking labels	February 2024/Charlene Swanson