



UL 2040

STANDARD FOR SAFETY

Folding Rollaway Tables

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UL Standard for Safety for Folding Rollaway Tables, UL 2040

Second Edition, Dated February 11, 2015

SUMMARY OF TOPICS

This revision of ANSI/UL 2040 dated August 20, 2020 is being issued to update the title page to reflect the reaffirmation of its ANSI approval. No changes in requirements have been made.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The requirements are substantially in accordance with Proposal(s) on this subject dated June 12, 2020.

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1

UL 2040

Standard for Folding Rollaway Tables

First Edition – October, 2000

Second Edition

February 11, 2015

This ANSI/UL Standard for Safety consists of the Second Edition including revisions through August 20, 2020.

The most recent designation of ANSI/UL 2040 as a Reaffirmed American National Standard (ANS) occurred on August 20, 2020. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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CONTENTS

INTRODUCTION

1	Scope	5
2	Units of Measurement	5
3	Undated References	5
4	Terminology	5

CONSTRUCTION

5	General	5
6	Materials	5

PERFORMANCE

7	Tip Over Test	6
8	Tip Stability Test	6
9	Endurance Test	7
10	Load Stability Test	7
11	Bench Strength Test	7
12	Seat Strength Test	7
13	Wheel, Roller, or Caster Securement Test	7
14	Radiant Panel Flame Spread Test	8
	14.1 Test criteria	8
	14.2 Test specimens	8

MARKINGS

15	General	8
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INTRODUCTION

1 Scope

1.1 These requirements apply to folding rollaway tables. The folding tables may have integral benches or stool seating.

1.2 These requirements do not apply to any electrical circuitry integral to or provided with a folding rollaway table. The requirements of the standard covering the intended electrical product to be used with a folding rollaway table shall be applicable to any electrical circuits in the folding rollaway table. Electrical devices shall comply with the requirements for such devices. For example, attachment plugs and receptacles shall comply with the requirements in the Standard for Attachment Plugs and Receptacles, UL 498. Where the requirements of more than one standard are applicable, the most severe requirements shall apply.

2 Units of Measurement

2.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3 Undated References

3.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

4 Terminology

4.1 The phrase "table or tables", where used in this Standard, generally references any product considered under the scope of these requirements.

CONSTRUCTION

5 General

5.1 A folding rollaway table shall be constructed so that:

- a) User assembly and normal use do not result in a risk of fire or injury to persons; and
- b) The materials and components are used within their mechanical and flammability limits.

5.2 Sharp edges shall not be accessible during user assembly or normal use. An accessible edge shall be smooth and well rounded to reduce the risk of a cut-type injury when contacted during user assembly or normal use.

6 Materials

6.1 Polymeric material used for seats and/or edging in the construction of a folding rollaway table 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 not prohibited from being used in thicknesses less than 1/8 inch in the folding rollaway table.

Exception: The following materials are exempt from the requirements of 6.1:

- a) *Wheels, casters, and caster inserts.*
- b) *External accessories that are not permanently attached to the folding rollaway table, 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 inch³ (2 cm³); and*
 - 2) *The maximum dimension does not exceed 1.18 inches (3 cm).*
- d) *Polymeric material of maximum 0.010 inch (0.254 mm) thickness.*

PERFORMANCE

7 Tip Over Test

7.1 When the folding rollaway table is folded in the upright storage position a force shall be applied at a position 5 ft. (1.52 m) above the floor or at the topmost edge, whichever is lower. The minimum force to tip the table over shall be one-fifth of the total weight of the table or 56 lb (25.4 kg), whichever is less.

Exception: Folding rollaway tables intended to be secured to the floor, walls or other fixed structural parts of a building are not required to comply with this requirement.

7.2 The test is to be conducted on a fully assembled table including benches, seats, stools, backrests, and other table parts, under the following conditions:

- a) With the legs, wheels, casters, or similar means of support arranged in the position most likely to result in tip-over such as turning the caster so that the caster axle is under the table frame versus outside of the frame area.
- b) With the legs, wheels, casters, or similar means of support blocked by means of a steel bar 1/4 inch (6.4 mm) thick, 1 inch (25.4 mm) wide, that extends 2 inches (50.8 mm) beyond each leg and/or caster placed under the wheel. The steel bar shall be placed under one or more wheels to prevent the table from rolling.
- c) When the folding rollaway table is provided with a locking means to keep it folded in the storage or transport position and the lock can be disengaged without the use of tools to close the table tighter, the lock shall be disengaged and the table shall be closed to its tightest upright position possible when evaluated.

8 Tip Stability Test

8.1 When the folding rollaway table is folded in the upright storage position and placed at the center of a plane inclined to make an angle of 10 degrees with the horizontal, it shall not tip over.

Exception: Folding rollaway tables intended to be secured to the floor, walls or other fixed structural parts of a building are not required to comply with this requirement.

8.2 The test shall be conducted on a fully assembled table including benches, seats, stools, backrests, and other table parts, under the following conditions:

- a) With the legs, wheels, casters, or similar means of support arranged in the position most likely to result in tip-over such as turning the caster so that the caster axle is under the table frame versus outside of the frame area.

- b) With the legs, wheels, casters, or similar means of support blocked by means of a steel bar 1/4 inch (6.4 mm) thick, 1 inch (25.4 mm) wide, that extends 2 inches (50.8 mm) beyond each leg and/or caster placed under one or more of the wheels so that the folding rollaway table does not roll or slide on the inclined plane.
- c) When the folding rollaway table is provided with a locking means to keep it folded in the storage or transport position and the lock can be disengaged without the use of tools to close the table tighter, the lock shall be disengaged and the table shall be closed to its tightest upright position possible when evaluated.

9 Endurance Test

9.1 A sample of the fully assembled folding table including benches, seats, stools, backrests, and other table parts is to be subjected to 6000 cycles of normal operation of the hinge and locking mechanism. The hinge and lock mechanism shall remain operable at the conclusion of the cycling.

9.2 The folding table is to be assembled and operated in accordance with the manufacturer's instructions.

9.3 The table is to be in the fully opened position and all locks, if provided, fully engaged. The locks are to be unlocked and the folding rollaway table is to be folded into the upright storage position. If a lock is provided to keep the table in the folded position, it is to be fully engaged. The locks are to then to be unlocked and the folding rollaway table is to be unfolded and placed into the open position. This is one cycle.

9.4 The cycle test may be conducted manually or automated.

10 Load Stability Test

10.1 A sample of each type of fully assembled table is to be subjected to a 300-lb (136-kg) load concentrated in a 1 square ft (0.09 square m) area of the table. The load is to be moved slowly over the entire surface of the table. The table shall not overturn or have any visible damage to the structure.

11 Bench Strength Test

11.1 When a table is provided with benches, each size, style and type of bench is to be subjected to a distributed load. The load will be based on 250-lb (114-kg) load times the number of people intended to fit on each bench. The bench shall withstand the load without visible damage for one minute.

12 Seat Strength Test

12.1 When a table is provided with seats, each size, style and type of seat is to be subjected to a 250-lb (114-kg) distributed load. The seat shall withstand the load without visible damage for one minute.

13 Wheel, Roller, or Caster Securement Test

13.1 A wheel, roller, or caster shall be capable of withstanding a 5-lbf (22-N) pull applied as described in [13.2](#).

13.2 The 5-lbf (22-N) pull is to be applied by a weight or a steady pull for a period of 1 minute in any direction permitted by the construction of the parts. The force is to be applied with the specimen at room temperature. The wheel, roller, or caster shall not pull free from its securing means.