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Subjects 1322 (1323)
 (In reply, refer to Subject 1322)

1655 Scott Blvd.
 Santa Clara, CA 95050
 April 5, 1996

TO: Casualty Council of Underwriters Laboratories Inc.,
 Subscribers to UL's Standards Services for
 Fabricated Scaffold Planks and Stages
 Scaffold Hoists

SUBJECT: Request for Comments on Proposed Requirements for the Fourth Edition of the
 Standard for Fabricated Scaffold Planks and Stages, UL 1322; PROPOSED EFFECTIVE
 DATE

SUMMARY OF TOPICS

This bulletin proposes the following changes in requirements:

The addition to UL 1322 of construction and performance requirements for modular stage platforms and modular suspended work platforms with or without cantilevered sections. These proposed requirements were adopted from the Outline of Investigation for Modular Scaffold Stage Platforms and Modular Suspended Work Platforms, Subject 2185, dated September 10, 1992.

COMMENTS DUE: MAY 17, 1996

Attached as Appendix A for your review and comment are proposed requirements for UL 1322. Questions regarding interpretation of requirements should be directed to the responsible UL Staff. Please see Appendix B of this bulletin regarding designated responsibility for the subject product categories.

Please note that proposed requirements are of a tentative and early nature and are for review and comment only. Current requirements are to be used to judge a product until these requirements are published in final form.

PROPOSED EFFECTIVE DATE

These proposed requirements will not necessitate a review or additional testing of currently Classified products. Therefore, UL proposes that the new requirements become effective upon publication.

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REQUEST FOR COMMENTS ON PROPOSALS

Please provide the following:

1. Your comments concerning the proposed requirements; and
2. Your comments concerning the proposed effective date, should the proposals be adopted.

Written comments should be sent to the attention of Derrick L. C. Martin at UL's Santa Clara office, 1655 Scott Blvd., Santa Clara, CA 95050-4169. Comments may be sent by mail or faxed to (408) 556-6045. Please reference all correspondence to Subject 1322.

All comments should be sent by May 17, 1996.

Unless specifically requested to do so, UL will not acknowledge comments indicating concurrence with these proposals.

UNDERWRITERS LABORATORIES INC.

REVIEWED BY:

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PROPOSED REQUIREMENTS ARE OF A TENTATIVE AND EARLY NATURE AND ARE FOR REVIEW AND COMMENT ONLY. CURRENT REQUIREMENTS ARE TO BE USED TO JUDGE A PRODUCT UNTIL THESE REQUIREMENTS ARE PUBLISHED IN FINAL FORM.

APPENDIX A

PROPOSED REQUIREMENTS AND PROPOSED EFFECTIVE DATE FOR THE FOURTH EDITION OF THE STANDARD FOR FABRICATED SCAFFOLD PLANKS AND STAGES, UL 1322

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~. Proposed new requirements are identified by (NEW).

MODULAR STAGE PLATFORMS AND MODULAR SUSPENDED WORK PLATFORMS

RATIONALE

Currently, requirements for modular stage platforms and modular suspended work platforms that may or may not have cantilevered sections are contained in the Outline of Investigation for Modular Scaffold Stage Platforms and Modular Suspended Work Platforms, Subject 2185, dated September 10, 1992. UL now proposes to add these requirements in UL 1322. UL proposes (1) to revise paragraph 1.1 to specify that modular stage platforms and modular suspended work platforms are covered by UL 1322 (cantilevered sections may be provided with both modular stage platforms and modular suspended work platforms), and to revise paragraph 1.2 to specify that modular platforms and stages are no longer among the group of products that are not covered by UL 1322; (2) to provide definitions for cantilevered sections, modular stage platforms and modular suspended work platforms in new paragraphs 3.1.1, 3.3.1, and 3.3.2; (3) to incorporate requirements for the rated working load and the allowable length and width measurements for modular stage platforms and modular suspended work platforms in new paragraphs 4.2.1 and 4.2.2; and (4) to revise paragraphs 7.1.1, 7.1.2, 7.2.2, 8.1, 8.2, 9.1, and 9.2, and add paragraphs 7.1.5, 7.1.6, and 8.4, and Sections 11A and 11B to include requirements for the Horizontal, Inclined Horizontal, Maximum Deflection, and Side-Rail-Deflection, Cantilevered Section Stability and Stirrup Strength tests for modular stage platforms and modular suspended work platforms provided with cantilevered sections.

The proposed requirements noted in the above item (3) were developed from guidelines used by industry as well as from UL's Outline of Investigation for Modular Scaffold Stage Platforms and Modular Suspended Work Platforms, Subject 2185, dated September 10, 1992.

If these proposals are adopted, the Outline of Investigation Subject 2185 will be withdrawn. Modular stage platforms and modular suspended work platforms currently Classified as Scaffolding Equipment (TUFV) will be transferred to the Scaffolding Devices (TTRX) product category.

IMPACT

These proposals represent current requirements for evaluating modular stage platforms and modular suspended work platforms that may or may not have cantilevered sections. Therefore, if adopted, manufacturers will not be required to submit their currently Listed products to UL for review or retesting.

PROPOSALS

INTRODUCTION

1 Scope

1.1 These requirements cover wood, metal, or a combination of wood and metal fabricated planks, and stage platforms, and modular stage platforms for use with suspended, fixed, or rolling scaffolds. These requirements also cover modular suspended work platforms.

1.1 revised date of publication

1.2 These requirements do not cover:

- a) Suspended scaffold components,
- b) Accessories for use with or in the erection of fixed or rolling scaffolds,
- c) Scaffold decks,
- d) The construction or installation of scaffolding, or
- e) Hoists intended for use with suspended scaffolds. ~~or~~
- f) ~~Modular platforms/stages.~~

1.2 revised date of publication

(NEW)

3.1.1 CANTILEVERED SECTION – Any platform section or portion or a platform section extending more than 12 inches (305 mm) beyond a support or stirrup.

3.1.1 added date of publication

(NEW)

3.3.1 MODULAR STAGE PLATFORM – A fabricated platform made up of two or more platform sections that are secured together to form a single platform used for supporting two or three workmen and material. The assembly is allowed to include toe boards, guard rails, and cantilevered sections, but not stirrups. A modular stage platform is usually used with:

- a) Stirrups as part of a suspension scaffold or as a scaffold runner board,
- b) A bridge scaffold in building or bridge truss work, and
- c) Freestanding scaffold tower.

3.3.1 added date of publication

(NEW)

3.3.2 MODULAR SUSPENDED WORK PLATFORM – A fabricated suspended platform made up of two or more platform sections that are secured together to form a single platform used for supporting workmen and material. The assembly is allowed to include toe boards, guard rails, stirrups, and cantilevered sections.

3.3.2 added date of publication

(NEW)

4.2.1 The modular stage platform and modular suspended work platform shall have dimensions and working loads as specified in Table 4.1.

Exception No. 1: An assembled platform length that exceeds the 40 foot (12.2 m) limit, and is not provided with a single section that exceeds the 40 foot limit meets the intent of this requirement.

Exception No. 2: The rated working load for the modular suspended work platform is not limited to that specified in Table 4.1.

4.2.1 added date of publication

(NEW)

4.2.2 The evaluation of the modular stage platform and modular suspended work platform shall include the individual sections as well as sections assembled as specified by the manufacturer.

4.2.2 added date of publication

7.1.1 A product shall withstand, without failure or visible damage to the structure, a load equal to four times the rated working load applied as described in 7.1.2 – 7.1.4. See 7.2.1. For cantilevered sections used with the modular stage platform and modular suspended work platform, the load is applied as described in 7.1.5 and 7.1.6.

7.1.1 revised date of publication

7.1.2 The product is to be placed in a flat, horizontal position and supported 12 inches (305 mm) from the ends of the side rails, or the stirrups in the case of modular stage platforms and modular suspended work platforms with cantilevered sections. The load is then to be applied equally to the side rails by means of nominal 4-inch (102-mm) wide blocks.

7.1.2 revised date of publication

(NEW)

7.1.5 The product is to be placed in a flat, horizontal position and supported so that the cantilevered section is unsupported and is located outside the plane of the supports.

7.1.5 added date of publication

(NEW)

7.1.6 The load is to be equally applied to both side rails by means of two 4-inch (102-mm) wide blocks, each extending across the cantilevered section so as to rest on the side rails. One block is to be located at the outside edge of the cantilevered section perpendicular to the longitudinal centerline of the platform. The other block is to be located 32 inches (813 mm) from the first block and parallel to it. When the cantilevered section is less than 40 inches (1.02 m) long, the inner block is to be placed adjacent to and outside of the platform support. The opposite end of the platform is to be fixed, loaded, or otherwise secured for the test.

7.1.6 added date of publication

7.2.2 The product is to be placed in a horizontal position and supported 12 inches (305 mm) from the ends of the side rail, or the stirrups in the case of modular stage platforms and modular suspended work platforms with cantilevered sections. The supports on one end are to be raised so that one end of the product is 6 inches (152 mm) higher than the other end, and one side rail is to be raised so that the decking is at an angle of 15 degrees to the horizontal.

7.2.2 revised date of publication

8 Maximum Deflection Test

8.1 The maximum deflection, measured from the horizontal at the center of a product, shall not exceed the values in Table 8.1 when a load equal to the rated working load is applied. Where the length of the modular stage platform or modular suspended work platform exceeds 40 feet (12.2 m), the deflection limits are to be determined by extrapolating the deflection values given in Table 8.1 to match the platform length. For modular stage platforms or modular suspended work platforms used with cantilevered sections, the platform length used for this calculation is to be measured between the stirrups.

8.1 revised date of publication

8.2 The maximum deflection of the side rails is to be measured with the test unit in a flat, horizontal position, supported 12 inches (305 mm) from the ends of the side rails, or the stirrups in the case of modular stage platforms and modular suspended work platforms with cantilevered sections.

8.2 revised date of publication

(NEW)

8.4 For cantilevered sections used with the modular stage platform and modular suspended work platform, the load is to be applied as described in 7.1.5 and 7.1.6. The maximum deflection, measured at the outside edge of the cantilevered section, shall not exceed the values in Table 8.1.

8.4 added date of publication

9 Side-Rail-Deflection Test

9.1 The maximum side rail deflection of a product, measured from the horizontal, shall not exceed the values specified in Table 8.1 when tested as described in 9.2 – 9.4. Where the length of the modular stage platform or modular suspended work platform exceeds 40 feet (12.2 m), the deflection limits are to be determined by extrapolating the deflection values given in Table 8.1 to match the platform length. For modular stage platforms or modular suspended work platforms used with cantilevered sections, the platform length used for this calculation is to be measured between the stirrups.

9.1 revised date of publication

9.2 The side rail deflection is to be measured with the product in a flat, horizontal position, supported 12 inches (305 mm) from each end, or the stirrups in the case of modular stage platforms and modular suspended work platforms with cantilevered sections.

9.2 revised date of publication

(NEW SECTION)

11A Cantilevered Section Stability Test

11A.1 A modular stage platform or modular suspended work platform with cantilevered sections, when subjected to a test load as shown in Table 11A.1, shall not lift from the stirrup or support, nor cause the supporting wire rope to become slack, at the platform end opposite from where the test load is applied.

11A.1 added date of publication

(NEW)

Table 11A.1
Test load for cantilevered section stability test

Cantilevered section length,		Test load (lbs)
feet	(meters)	
1 – 3	0.3 – 0.9	1-1/2 times rated working load
Over 3 – 5	Over 0.9 – 1.5	2-1/4 times rated working load
Over 5	Over 1.5	3 times rated working load

Table 11A.1 added date of publication

11A.2 The load is to be applied as described in 7.1.5 and 7.1.6, except that the unloaded end of the platform is not fixed, loaded, or otherwise secured for the test.

11A.2 added date of publication

(NEW SECTION)

11B Stirrup Strength Test

11B.1 A stirrup which is a part of a modular suspended work platform shall withstand, without failure or visible damage, a test load as described and applied in 11B.2 – 11B.4.

11B.1 added date of publication

11B.2 The rated load used to determine the test load shall be determined by a review of the load ratings of the individual sections and modular assemblies and the maximum weight of the modular suspended work platform for the configurations specified by the manufacturer.

11B.2 added date of publication

11B.3 For a modular suspended work platform with end stirrups and no cantilevered sections, a load of two times the rated load plus one-half the platform weight is to be applied to a single stirrup.

11B.3 added date of publication

11B.4 For a modular suspended work platform with end stirrups and cantilevered sections, a load of four times the rated load plus one-half the platform weight is to be applied to a single stirrup.

11B.4 added date of publication