

UL 1296

ISBN 0-7629-0070-9

Shear Resistance Tests for Ceiling Boards for Manufactured Homes

ULNORM.COM : Click to view the full PDF of UL 1296 2007

ULNORM.COM : Click to view the full PDF of UL 1296 2007

Underwriters Laboratories Inc. (UL)
333 Pfingsten Road
Northbrook, IL 60062-2096

UL Standard for Safety for Shear Resistance Tests for Ceiling Boards for Manufactured Homes, UL 1296

Fifth Edition, Dated September 30, 1996

Revisions: This Standard contains revisions through and including May 9, 2007.

Summary of Topics

The revisions dated May 9, 2007, were issued to delete the ANSI approval information from the title page.

UL Standards for Safety are developed and maintained in the Standard Generalized Markup Language (SGML). SGML -- an international standard (ISO 8879-1986) -- is a descriptive markup language that describes a document's structure and purpose, rather than its physical appearance on a page. Due to formatting differences resulting from the use of UL's new electronic publishing system, please note that additional pages (on which no requirements have been changed) may be included in revision pages due to relocation of existing text and reformatting of the Standard.

Text that has been changed in any manner is marked with a vertical line in the margin. Changes in requirements are marked with a vertical line in the margin and are followed by an effective date note indicating the date of publication or the date on which the changed requirement becomes effective.

The revisions dated May 9, 2007 include a reprinted title page (page1) for this Standard.

The UL Foreword is no longer located within the UL Standard. For information concerning the use and application of the requirements contained in this Standard, the current version of the UL Foreword is located on ULStandardsInfoNet at: <http://ulstandardsinfo.net/ulforeword.html>

The master for this Standard at UL's Northbrook Office is the official document insofar as it relates to a UL service and the compliance of a product with respect to the requirements for that product and service, or if there are questions regarding the accuracy of this Standard.

UL's Standards for Safety are copyrighted by UL. Neither a printed copy of a Standard, nor the distribution diskette for a Standard-on-Diskette and the file for the Standard on the distribution diskette should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

Revisions of UL Standards for Safety are issued from time to time. A UL Standard for Safety is current only if it incorporates the most recently adopted revisions.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

UL will attempt to answer support requests concerning electronic versions of its Standards. However, this support service is offered on a reasonable efforts basis only, and UL may not be able to resolve every support request. UL supports the electronic versions of its Standards only if they are used under the conditions and operating systems for which it is intended. UL's support policies may change from time-to-time without notification.

UL reserves the right to change the format, presentation, file types and formats, delivery methods and formats, and the like of both its printed and electronic Standards without prior notice.

Purchasers of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgement (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

If a single-user version electronic Standard was purchased, one copy of this Standard may be stored on the hard disk of a single personal computer, or on a single LAN file-server or the permanent storage device of a multiple-user computer in such a manner that this Standard may only be accessed by one user at a time and for which there is no possibility of multiple concurrent access.

If a multiple-user version electronic Standard was purchased, one copy of the Standard may be stored on a single LAN file-server, or on the permanent storage device of a multiple-user computer, or on an Intranet server. The number of concurrent users shall not exceed the number of users authorized.

Electronic Standards are intended for on-line use, such as for viewing the requirements of a Standard, conducting a word search, and the like. Only one copy of the Standard may be printed from each single-user version of an electronic Standard. Only one copy of the Standard may be printed for each authorized user of a multiple-user version of an electronic Standard. Because of differences in the computer/software/printer setup used by UL and those of electronic Standards purchasers, the printed copy obtained by a purchaser may not look exactly like the on-line screen view or the printed Standard.

An employee of an organization purchasing a UL Standard can make a copy of the page or pages being viewed for their own fair and/or practical internal use.

The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Classification and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

This Standard consists of pages dated as shown in the following checklist:

Page	Date
1-4	May 9, 2007
5-10	September 30, 1996

ULNORM.COM : Click to view the full PDF of UL 1296 2007

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 1296 2007

SEPTEMBER 30, 1996

(Title Page Reprinted: May 9, 2007)

1

UL 1296

**Standard for Shear Resistance Tests for Ceiling Boards for Manufactured
Homes**

The first and second editions were titled Standard for Shear Resistance Tests for Ceiling Boards. The third edition was titled Standard for Shear Resistance Tests for Ceiling Boards for Mobile Homes.

First Edition – January, 1975

Second Edition – May, 1977

Third Edition – April, 1980

Fourth Edition – September, 1992

Fifth Edition

September 30, 1996

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

Revisions of this Standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements. 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 <http://csds.ul.com>.

ISBN 0-7629-0070-9

COPYRIGHT © 1975, 2007 UNDERWRITERS LABORATORIES INC.

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 1296 2007

CONTENTS

INTRODUCTION

1 Scope	5
2 General	5
2.1 Units of measurement	5
2.2 Undated references	5
2.3 Terminology	5

PERFORMANCE

3 General	5
4 Twelve-Hour Load Shear Resistance Test	6
5 Ultimate Load Shear Resistance Test	9
6 Installation Instructions	9

MARKING

7 General	9
-----------------	---

ULNORM.COM : Click to view the full PDF of UL 1296 2007

This page intentionally left blank.

ULNORM.COM : Click to view the full PDF of UL 1296 2007

INTRODUCTION

1 Scope

1.1 These requirements cover ceiling materials intended for use as structural building products in manufactured homes.

1.2 These requirements are intended to provide information as to the performance of mineral and fiberboard, gypsum wallboard or other ceiling materials when attached to a roof truss or rafter system using a specific fastening schedule.

1.3 These requirements do not cover thermal, acoustical, flammability characteristics, and other properties of such materials.

1.4 A product that contains features, characteristics, components, materials, or systems new or different from those in use when the standard was developed, and that involves a risk of fire, electric shock, or injury to persons shall be evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the level of safety for the user of the product as originally anticipated by the intent of this standard.

2 General

2.1 Units of measurement

2.1.1 If a value for measurement as given in this standard is followed by an equivalent value in other units, in parentheses, the second value may be only approximate. The first stated value is the requirement.

2.2 Undated references

2.2.1 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.

2.3 Terminology

2.3.1 The term "product" as used in this standard refers to all ceiling materials for manufactured homes or any part thereof covered by this standard, unless specifically noted otherwise.

PERFORMANCE

3 General

3.1 The manufacturer shall supply information regarding:

- a) the recommended design load;
- b) maximum span;
- c) minimum width;
- d) the fastening system to be used, including details of size, spacing, and edge distance;
- e) spacing of roof trusses or rafters;

- f) optional edge rail and top plate size, splice methods, ceiling-to-top plate connection, if used;
- g) lumber grade and specie; and
- h) basic specifications for the product such as density, thickness, breaking strength, surface finish, and tolerances, plus any variations.

3.2 All ceiling material samples used for the following tests shall be selected at one time from the same production run and shall be representative of the manufacturer's production. Roof trusses, if used, shall:

- a) comply with the requirements for roof trusses for manufactured homes, UL 1298, or
- b) be constructed in accordance with Section 3280.402 of the Department of Housing and Urban Development (HUD) Home Construction and Safety Standards and marked as such. Samples for tests shall be selected so as to subject the product or products most vulnerable to nonconformance under the conditions of the tests.

3.3 All edge rail and top plate lumber shall be utility standard or stud grade spruce-pine-fir material or a mixture.

Exception: At the manufacturer's option a better grade (such as construction, No. 2, No. 1, or select structural grade) or specie of lumber may be used. When a better grade or specie of lumber is used in the test assembly, the installation instructions shall be marked as specified in 6.1(e).

3.4 The test methods develop classifications for 12-hour shear resistance or ultimate shear resistance.

4 Twelve-Hour Load Shear Resistance Test

4.1 A full size sample of a ceiling system is to be constructed with wood trusses or rafters at the maximum spacing recommended by the ceiling material manufacturer, as shown in Figure 4.1.