



**NSAI**  
Standards

Irish Standard  
I.S. EN 17317:2020

Resilient, textile, laminate and modular  
mechanical locked floor coverings - Light  
reflectance value (LRV) of a flooring  
surface

**I.S. EN 17317:2020**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

*This document is based on:*

EN 17317:2020

*Published:*

2020-02-26

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2020-03-15

ICS number:

97.150

NOTE: If blank see CEN/CENELEC cover page

NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

## National Foreword

I.S. EN 17317:2020 is the adopted Irish version of the European Document EN 17317:2020, Resilient, textile, laminate and modular mechanical locked floor coverings - Light reflectance value (LRV) of a flooring surface

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

This page is intentionally left blank

EUROPEAN STANDARD

EN 17317

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2020

ICS 97.150

English Version

## Resilient, textile, laminate and modular mechanical locked floor coverings - Light reflectance value (LRV) of a flooring surface

Revêtements de sol résilients, textiles, stratifiés et modulaires à clipsage mécanique - Coefficient de réflexion lumineuse (LRV) d'une surface de sol

Elastische, textile, Laminat- und modulare mechanisch verriegelte Bodenbeläge - Lichtreflexionswert (LRV) einer Bodenoberfläche

This European Standard was approved by CEN on 18 November 2019.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

<b>Contents</b>	<b>Page</b>
<b>European foreword .....</b>	<b>3</b>
<b>1 Scope.....</b>	<b>4</b>
<b>2 Normative references.....</b>	<b>4</b>
<b>3 Terms and definitions .....</b>	<b>4</b>
<b>4 Symbols (and abbreviated terms) .....</b>	<b>4</b>
<b>5 Principle .....</b>	<b>4</b>
<b>6 Apparatus .....</b>	<b>5</b>
<b>7 Test specimens .....</b>	<b>5</b>
<b>7.1 General.....</b>	<b>5</b>
<b>7.2 Preparations of test specimens .....</b>	<b>5</b>
<b>8 Test procedure.....</b>	<b>6</b>
<b>8.1 Calibration procedure.....</b>	<b>6</b>
<b>8.2 Standard test procedure.....</b>	<b>6</b>
<b>9 Expression of the results .....</b>	<b>7</b>
<b>9.1 General.....</b>	<b>7</b>
<b>9.2 Calculating <math>LRV_{av}</math> for multi-coloured specimens.....</b>	<b>8</b>
<b>9.3 Re-calculating colour depth (L) into light reflectance value (LRV) .....</b>	<b>8</b>
<b>10 Test report.....</b>	<b>8</b>
<b>Bibliography .....</b>	<b>9</b>

## **European foreword**

This document (EN 17317:2020) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor coverings”, the secretariat of which is held by NBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2020, and conflicting national standards shall be withdrawn at the latest by August 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 17317:2020 (E)****1 Scope**

This document establishes a test and calculation method for resilient, textile, laminate and modular mechanical locked floor coverings.

This document is also intended to provide guidance for manufacturers, specifiers and consumers, to enable them to choose the appropriate performance of floor covering regarding the light reflectancy of the use surface.

**2 Normative references**

There are no normative references in this document.

**3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

**3.1****light reflectance value****LRV**

proportion of visible light reflected by a surface, weighted for the sensitivity to light of the human eye

**3.2****colour depth****L**

proportion of colour in range from black (0) to white (100)

**3.3****non-opacity**

specimens that are detected by the observer as light-permeable

**4 Symbols (and abbreviated terms)**

LRV = Light reflectance value

L = Colour depth

$Y_{10}$  = CIE Tristimulus value

$\rho$  (rho) = alternative notation of the light reflectance value LRV

**5 Principle**

The amount of light reflected from the surface at a number of wavelengths evenly spaced across the visible spectrum is to be measured. These measurements shall include the spectral component of reflected light.

The specimen of the surface is prepared and presented to the aperture of the instrument and its LRV is measured.



This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-