



**BSI Standards Publication**

# **Glass in building — Laminated glass and laminated safety glass**

---

Part 6: Appearance

This is a preview of "BS EN ISO 12543-6:20...". [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN ISO 12543-6:2021. It is identical to ISO 12543-6:2021. It supersedes BS EN ISO 12543-6:2011, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/520, Glass and glazing in building.

A list of organizations represented on this committee can be obtained on request to its committee manager.

### Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2022  
Published by BSI Standards Limited 2022

ISBN 978 0 539 06578 7

ICS 81.040.20

### Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2022.

### Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

---

This is a preview of "BS EN ISO 12543-6:20...". Click here to purchase the full version from the ANSI store.

**EUROPÄISCHE NORM**

December 2021

ICS 81.040.20

Supersedes EN ISO 12543-6:2011, EN ISO 12543-6:2011/AC:2012

English Version

## Glass in building - Laminated glass and laminated safety glass - Part 6: Appearance (ISO 12543-6:2021)

Verre dans la construction - Verre feuilleté et verre feuilleté de sécurité - Partie 6: Aspect (ISO 12543-6:2021)

Glas im Bauwesen - Verbundglas und Verbund-Sicherheitsglas - Teil 6: Aussehen (ISO 12543-6:2021)

This European Standard was approved by CEN on 25 October 2021.

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**

This is a preview of "BS EN ISO 12543-6:20...". [Click here to purchase the full version from the ANSI store.](#)

## European foreword

This document (EN ISO 12543-6:2021) has been prepared by Technical Committee ISO/TC 160 "Glass in building" in collaboration with Technical Committee CEN/TC 129 "Glass in building" 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 June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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.

This document supersedes EN ISO 12543-6:2011.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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.

## Endorsement notice

The text of ISO 12543-6:2021 has been approved by CEN as EN ISO 12543-6:2021 without any modification.

This is a preview of "BS EN ISO 12543-6:20...". Click here to purchase the full version from the ANSI store.

## Contents

	Page
Foreword.....	iv
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Method of observation</b> .....	<b>3</b>
<b>5 Vents</b> .....	<b>3</b>
<b>6 Creases and streaks</b> .....	<b>3</b>
<b>7 Defects in the vision area</b> .....	<b>3</b>
7.1 Spot defects in the vision area.....	3
7.2 Linear defects in the vision area.....	4
<b>8 Defects in the edge area</b> .....	<b>4</b>
8.1 Framed edges.....	4
8.2 Unframed edges.....	4
<b>9 Laminated glass incorporating thermally treated glasses</b> .....	<b>5</b>
<b>Annex A (informative) Method of observation of glasses by pack (for jumbos or stock sizes)</b> .....	<b>6</b>

This is a preview of "BS EN ISO 12543-6:20...". Click here to purchase the full version from the ANSI store.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 160, *Glass in building*, Subcommittee SC 1, *Product considerations*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 129, *Glass in building*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 12543-6:2011) and the technical corrigendum ISO 12543-6:2011/Cor 1:2012, which have been technically revised.

The main changes compared to the previous edition are as follows:

- some definitions have been revised;
- a paragraph on laminated glass incorporating thermally treated glasses has been added;
- a method of observation of glasses by pack for jumbos or stock sizes has been added.

A list of all parts in the ISO 12543 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

This is a preview of "BS EN ISO 12543-6:20...". Click here to purchase the full version from the ANSI store.

# Glass in building — Laminated glass and laminated safety glass —

## Part 6: Appearance

### 1 Scope

This document specifies defects of finished sizes and test methods with regard to the appearance of laminated glass and laminated safety glass when looking through the glass.

All references to laminated glass in this document refer to both laminated glass and laminated safety glass.

NOTE Special attention is paid to acceptability criteria in the vision area.

This document is applicable to finished sizes at the time of supply.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 12543-1, *Glass in building — Laminated glass and laminated safety glass — Part 1: Definitions and description of component parts*

ISO 12543-5, *Glass in building — Laminated glass and laminated safety glass — Part 5: Dimensions and edge finishing*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12543-1, and the following apply.

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

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <https://www.electropedia.org/>

#### 3.1

##### **spot defect**

type of defect that includes *opaque spots* (3.3), bubbles and *foreign bodies* (3.4)

#### 3.2

##### **linear defect**

type of defect that includes *foreign bodies* (3.4) and *scratches* (3.5) or *grazes* (3.6)

#### 3.3

##### **opaque spot**

visible defects in the laminated glass

EXAMPLE Tin marks and inclusions in the glass or interlayer.